

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN031319\
 Data File : VN054251.D
 Acq On : 14 Mar 2019 9:14
 Operator : JC/SP
 Sample : VSTDCCC050
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 55 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Manual Integrations
 APPROVED

MMDadoda
 3/23/2019 1:18:33 AM

Quant Time: Mar 14 09:35:29 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N031219W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 13 03:33:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	1448110	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	2283388	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	2008323	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	984118	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	804834	52.33	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.66%	
35) Dibromofluoromethane	7.59	113	740934	50.31	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.62%	
50) Toluene-d8	10.09	98	2661815	48.94	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.88%	
62) 4-Bromofluorobenzene	12.40	95	939163	49.35	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.70%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	693748	50.548	ug/l	99
3) Chloromethane	2.06	50	608394	45.636	ug/l	99
4) Vinyl Chloride	2.19	62	751770	49.337	ug/l	98
5) Bromomethane	2.57	94	449978	42.638	ug/l	96
6) Chloroethane	2.71	64	445902	48.366	ug/l	99
7) Trichlorofluoromethane	3.02	101	981556	48.451	ug/l	98
8) Diethyl Ether	3.41	74	502236	54.402	ug/l	97
9) 1,1,2-Trichlorotrifluoroet	3.75	101	768083	50.594	ug/l	99
10) Methyl Iodide	3.94	142	903738	42.161	ug/l	99
11) Tert butyl alcohol	4.82	59	251238	238.299	ug/l	99
12) 1,1-Dichloroethene	3.73	96	796143	52.920	ug/l	98
13) Acrolein	3.61	56	227540	227.759	ug/l	99
14) Allyl chloride	4.32	41	941386	48.771	ug/l	99
15) Acrylonitrile	5.00	53	1198326	276.703	ug/l	100
16) Acetone	3.82	43	908363	206.289	ug/l	100
17) Carbon Disulfide	4.04	76	1786063	47.359	ug/l	99
18) Methyl Acetate	4.33	43	527396	59.200	ug/l	99
19) Methyl tert-butyl Ether	5.05	73	2007703	53.840	ug/l	100
20) Methylene Chloride	4.55	84	752584	52.051	ug/l	99
21) trans-1,2-Dichloroethene	5.04	96	753620	52.282	ug/l	97
22) Diisopropyl ether	5.96	45	2097462	54.446	ug/l	97
23) Vinyl Acetate	5.90	43	7614747	268.087	ug/l	99
24) 1,1-Dichloroethane	5.85	63	1310222	52.969	ug/l	99
25) 2-Butanone	6.84	43	1385473	268.077	ug/l	99
26) 2,2-Dichloropropane	6.83	77	646602	29.726	ug/l	96
27) cis-1,2-Dichloroethene	6.83	96	875337	54.433	ug/l	94
28) Bromochloromethane	7.19	49	539184	53.320	ug/l	98
29) Tetrahydrofuran	7.22	42	920855	277.120	ug/l	100
30) Chloroform	7.37	83	1395752	54.075	ug/l	100
31) Cyclohexane	7.65	56	1155074	49.946	ug/l	99
32) 1,1,1-Trichloroethane	7.57	97	1214898	52.117	ug/l	99
36) 1,1-Dichloropropene	7.79	75	1043371	49.618	ug/l	100
37) Ethyl Acetate	6.94	43	631647	52.278	ug/l	99
38) Carbon Tetrachloride	7.77	117	1066193	48.350	ug/l	100

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	1194806	46.181	ug/l	99
40) Benzene	8.04	78	3094340	51.423	ug/l	99
41) Methacrylonitrile	7.18	41	350340	50.783	ug/l	98
42) 1,2-Dichloroethane	8.13	62	1033421	50.868	ug/l	100
43) Isopropyl Acetate	8.17	43	1095753	51.667	ug/l	99
44) Trichloroethene	8.83	130	927103	49.597	ug/l	99
45) 1,2-Dichloropropane	9.12	63	771181	51.613	ug/l	99
46) Dibromomethane	9.21	93	519689	51.477	ug/l	100
47) Bromodichloromethane	9.40	83	1050880	51.924	ug/l	97
48) Methyl methacrylate	9.20	41	574633	53.391	ug/l	98
49) 1,4-Dioxane	9.20	88	139688	917.565	ug/l	97
51) 4-Methyl-2-Pentanone	9.99	43	3027414	269.740	ug/l	98
52) Toluene	10.16	92	1940915	50.870	ug/l	100
53) t-1,3-Dichloropropene	10.38	75	972832	42.343	ug/l	98
54) cis-1,3-Dichloropropene	9.84	75	1124618	47.684	ug/l	98
55) 1,1,2-Trichloroethane	10.56	97	733266	52.633	ug/l	98
56) Ethyl methacrylate	10.43	69	904704	54.462	ug/l	99
57) 1,3-Dichloropropane	10.71	76	1183725	51.963	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.70	63	1700603	236.915	ug/l	100
59) 2-Hexanone	10.75	43	1956370	261.965	ug/l	100
60) Dibromochloromethane	10.90	129	807385	51.489	ug/l	100
61) 1,2-Dibromoethane	11.01	107	745959	52.690	ug/l	99
64) Tetrachloroethene	10.63	164	945403	48.688	ug/l	99
65) Chlorobenzene	11.44	112	2237274	50.735	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.51	131	826434	51.590	ug/l	99
67) Ethyl Benzene	11.51	91	3661728	50.093	ug/l	100
68) m/p-Xylenes	11.62	106	2850451	99.769	ug/l	100
69) o-Xylene	11.95	106	1403663	50.398	ug/l	98
70) Styrene	11.96	104	2256313	51.655	ug/l	100
71) Bromoform	12.13	173	539479	44.452	ug/l #	100
73) Isopropylbenzene	12.25	105	3689748	46.863	ug/l	100
74) N-amyl acetate	12.07	43	903066	51.673	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.50	83	838318	49.974	ug/l	100
76) 1,2,3-Trichloropropane	12.55	75	692010m	47.818	ug/l	
77) Bromobenzene	12.53	156	1010825	48.516	ug/l	97
78) n-propylbenzene	12.59	91	4046625	47.366	ug/l	100
79) 2-Chlorotoluene	12.68	91	2409867	46.913	ug/l	100
80) 1,3,5-Trimethylbenzene	12.73	105	3041367	46.439	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.30	75	159108	37.583	ug/l	97
82) 4-Chlorotoluene	12.77	91	2450650	47.777	ug/l	100
83) tert-Butylbenzene	12.99	119	2792186	46.319	ug/l	100
84) 1,2,4-Trimethylbenzene	13.04	105	3073123	47.831	ug/l	100
85) sec-Butylbenzene	13.17	105	3606503	46.133	ug/l	99
86) p-Isopropyltoluene	13.29	119	3172410	46.256	ug/l	100
87) 1,3-Dichlorobenzene	13.28	146	1730781	49.300	ug/l	99
88) 1,4-Dichlorobenzene	13.36	146	1686050	48.888	ug/l	100
89) n-Butylbenzene	13.62	91	2502811	48.029	ug/l	100
90) Hexachloroethane	13.88	117	505144	44.481	ug/l	99
91) 1,2-Dichlorobenzene	13.65	146	1687008	49.155	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.27	75	124484	47.955	ug/l	97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	969886	46.969	ug/l	99
94) Hexachlorobutadiene	15.01	225	549947	42.069	ug/l	100
95) Naphthalene	15.13	128	2058812	47.858	ug/l	100
96) 1,2,3-Trichlorobenzene	15.31	180	953480	52.288	ug/l	99

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

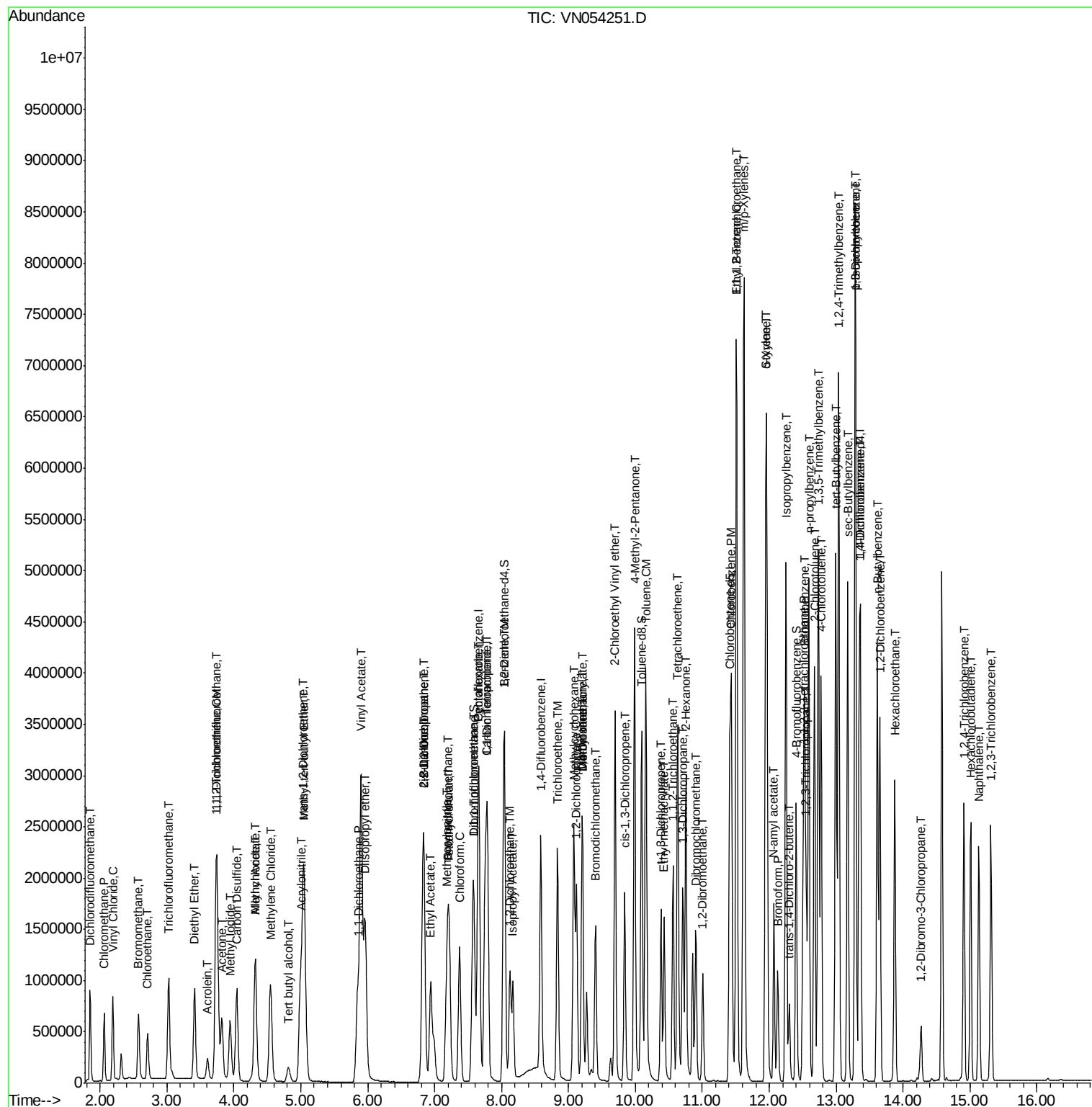
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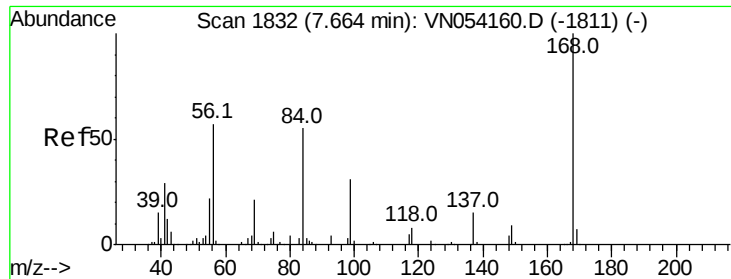
Instrument :
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN054251.D

Acq: 14 Mar 2019 9:14

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion:168 Resp: 1448110

Ion Ratio Lower Upper

168 100

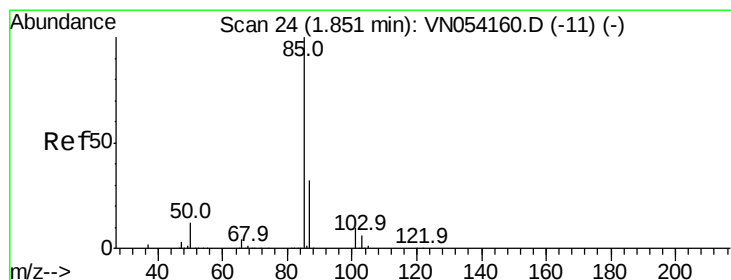
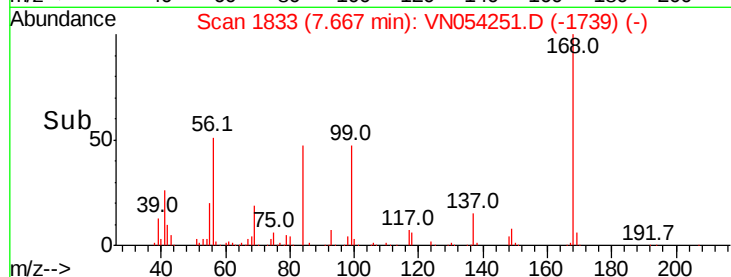
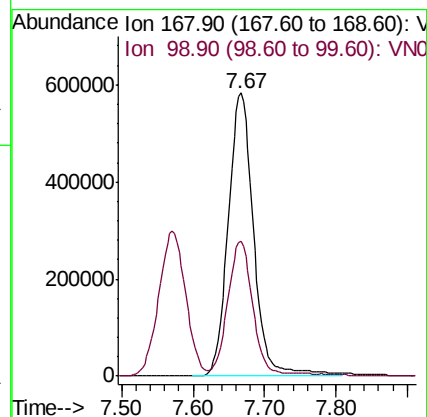
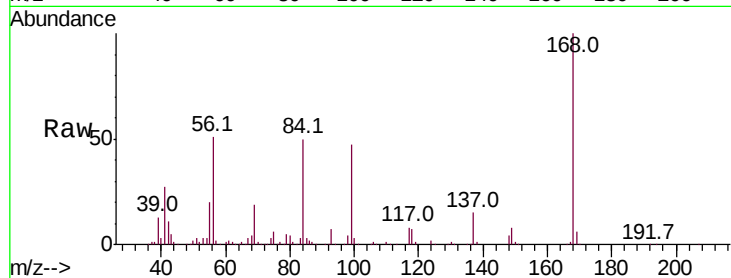
99 47.0 37.1 55.7

Manual Integrations

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MMDadoda

3/23/2019 1:18:33 AM



#2

Dichlorodifluoromethane

Concen: 50.548 ug/l

RT: 1.85 min Scan# 24

Delta R.T. 0.00 min

Lab File: VN054251.D

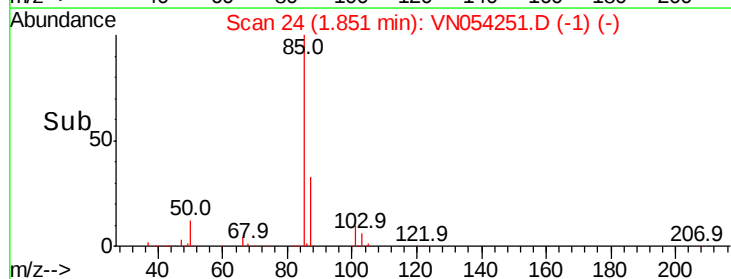
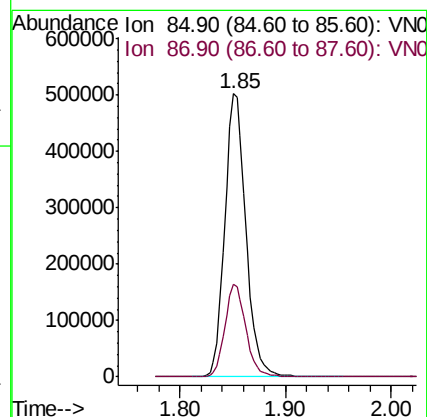
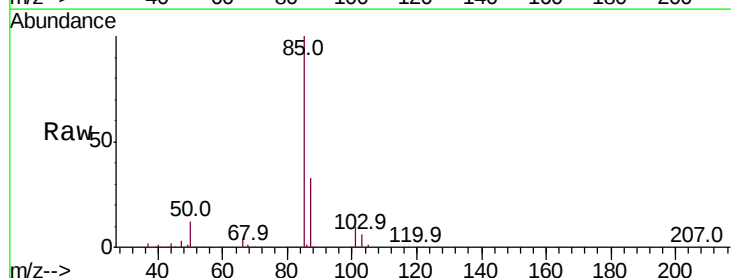
Acq: 14 Mar 2019 9:14

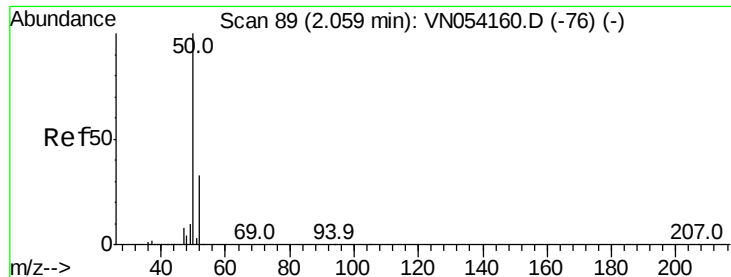
Tgt Ion: 85 Resp: 693748

Ion Ratio Lower Upper

85 100

87 32.5 15.9 47.7





#3

Chloromethane

Concen: 45.636 ug/l

RT: 2.06 min Scan# 90

Delta R.T. 0.00 min

Lab File: VN054251.D

Acq: 14 Mar 2019 9:14

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 50 Resp: 608394

Ion Ratio Lower Upper

50 100

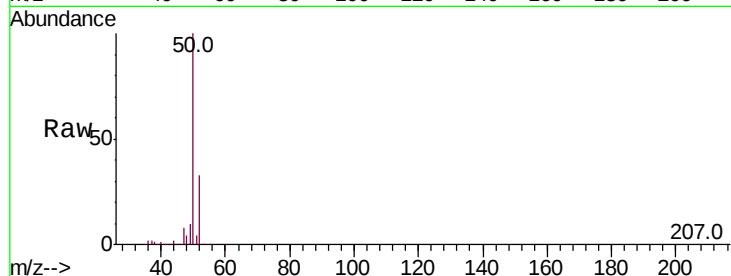
52 32.7 26.4 39.6

Manual Integrations

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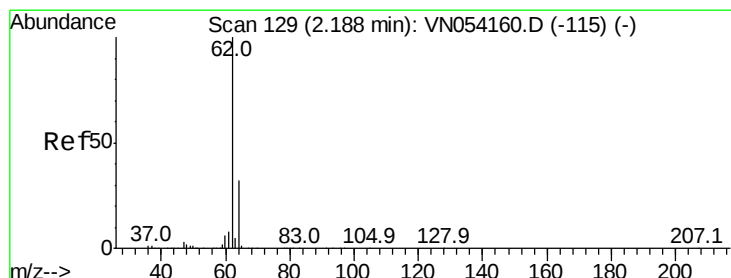
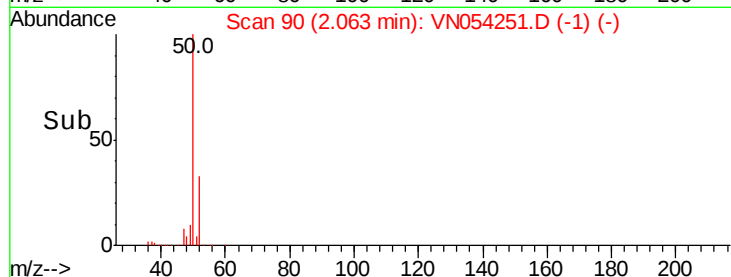
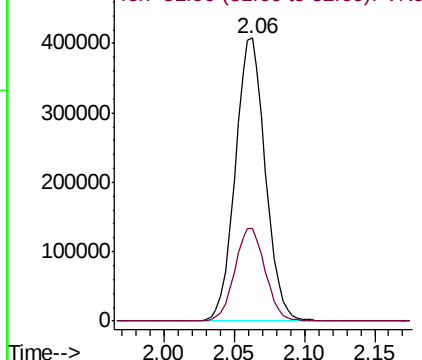
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Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO



#4

Vinyl Chloride

Concen: 49.337 ug/l

RT: 2.19 min Scan# 130

Delta R.T. 0.00 min

Lab File: VN054251.D

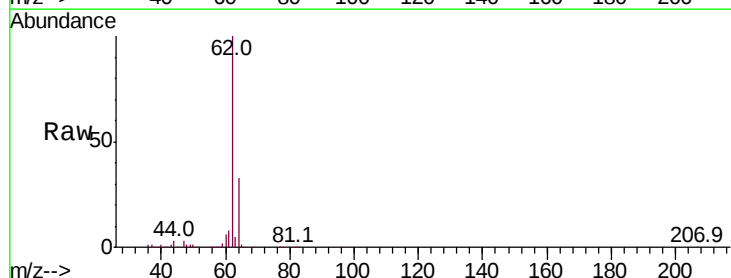
Acq: 14 Mar 2019 9:14

Tgt Ion: 62 Resp: 751770

Ion Ratio Lower Upper

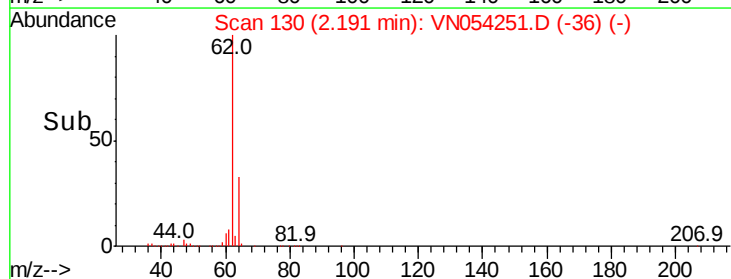
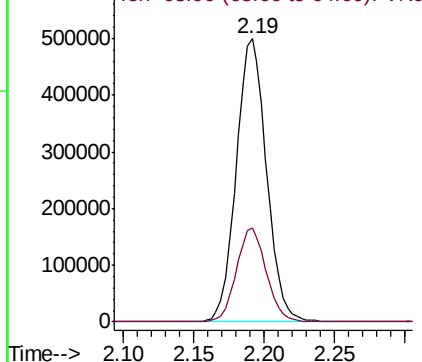
62 100

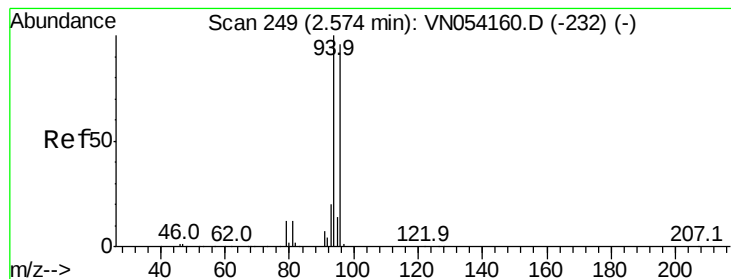
64 33.1 25.5 38.3



Abundance Ion 61.90 (61.60 to 62.60): VNO

Ion 63.90 (63.60 to 64.60): VNO





#5

Bromomethane

Concen: 42.638 ug/l

RT: 2.57 min Scan# 249

Delta R.T. 0.00 min

Lab File: VN054251.D

Acq: 14 Mar 2019 9:14

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Tot Ion: 94 Resp: 449978

Ion Ratio Lower Upper

94 100

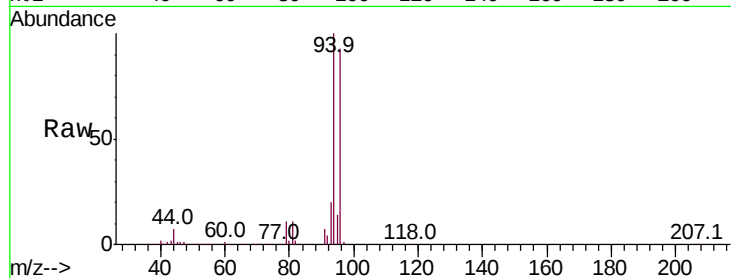
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Manual Integrations

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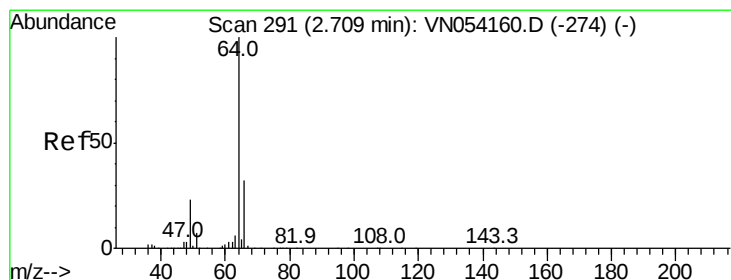
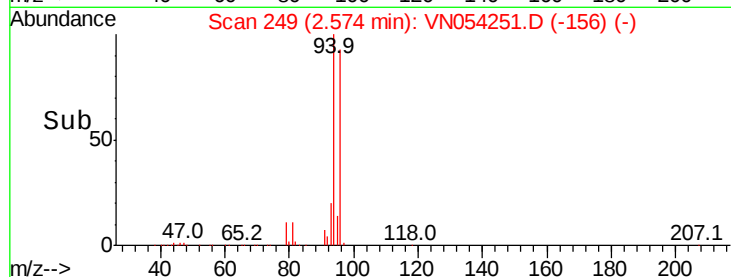
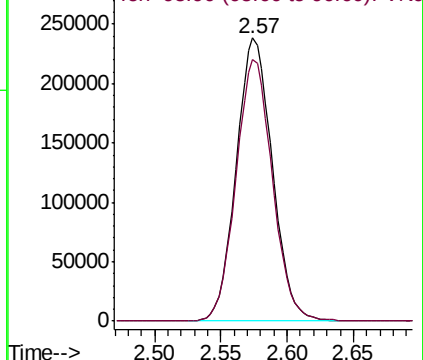
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Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO



#6

Chloroethane

Concen: 48.366 ug/l

RT: 2.71 min Scan# 292

Delta R.T. 0.00 min

Lab File: VN054251.D

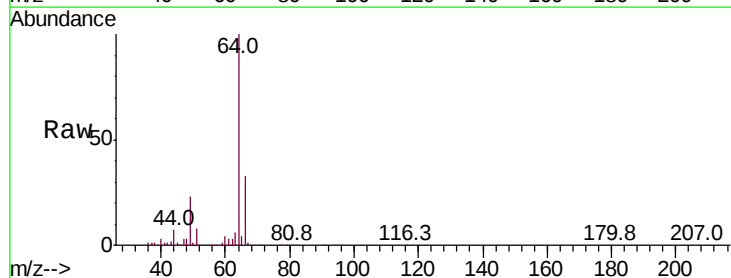
Acq: 14 Mar 2019 9:14

Tgt Ion: 64 Resp: 445902

Ion Ratio Lower Upper

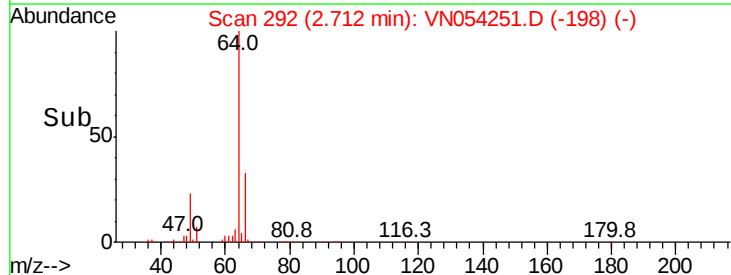
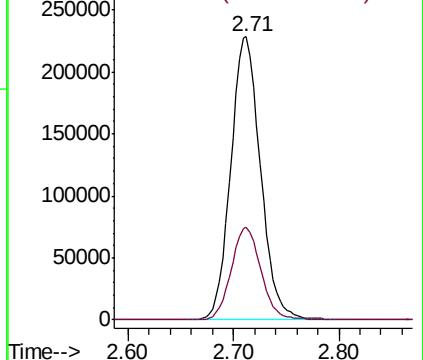
64 100

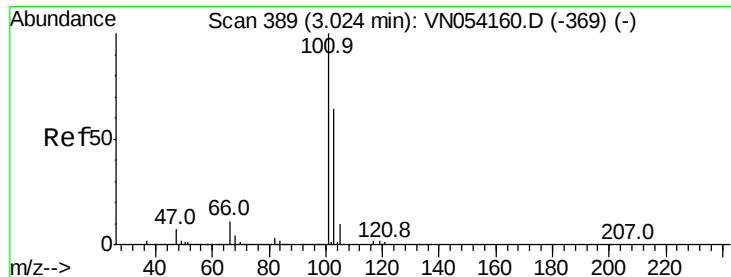
66 32.5 25.7 38.5



Abundance Ion 63.90 (63.60 to 64.60): VNO

Ion 65.90 (65.60 to 66.60): VNO





#7

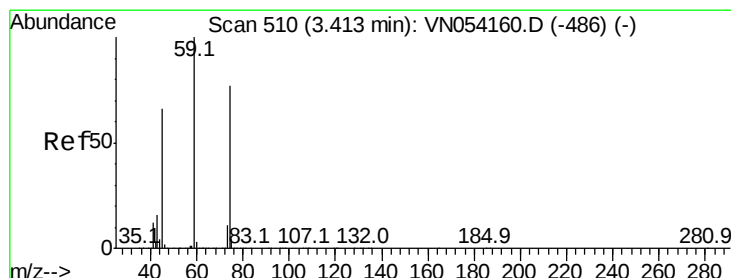
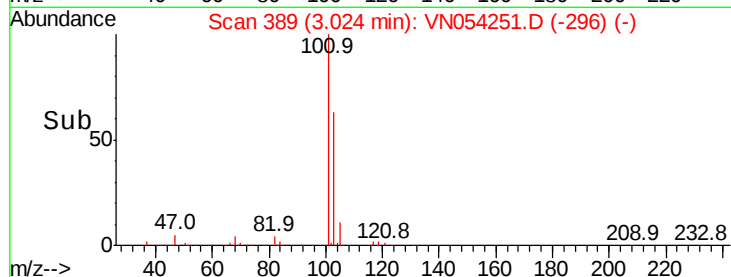
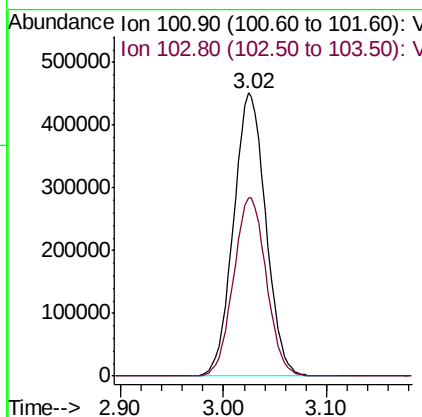
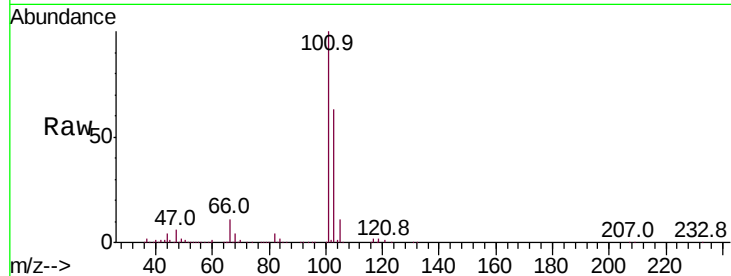
Trichlorofluoromethane
 Concen: 48.451 ug/l
 RT: 3.02 min Scan# 389
 Delta R.T. 0.00 min
 Lab File: VN054251.D
 Acq: 14 Mar 2019 9:14

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Tot Ion	Ratio	Lower	Upper
101	100		
103	63.1	51.4	77.2

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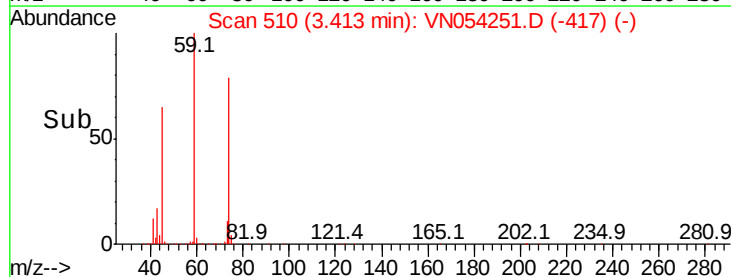
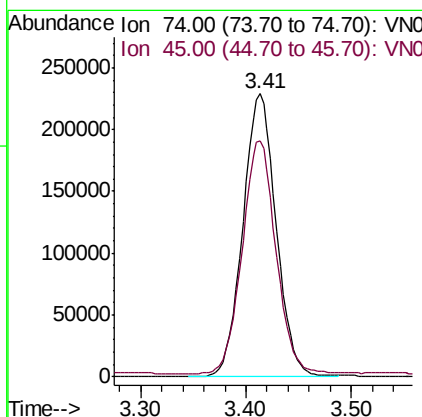
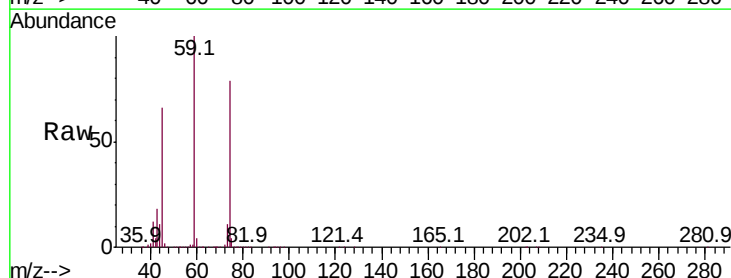
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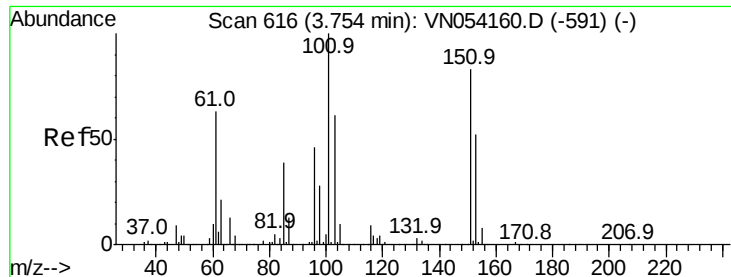


#8

Diethyl Ether
 Concen: 54.402 ug/l
 RT: 3.41 min Scan# 510
 Delta R.T. 0.00 min
 Lab File: VN054251.D
 Acq: 14 Mar 2019 9:14

Tgt Ion	Ratio	Lower	Upper
74	100		
45	83.4	43.1	129.4





#9

1,1,2-Trichlorotrifluoroethane

Concen: 50.594 ug/l

RT: 3.75 min Scan# 616

Delta R.T. 0.00 min

Lab File: VN054251.D

Acq: 14 Mar 2019 9:14

Instrument :

MSVOA_N

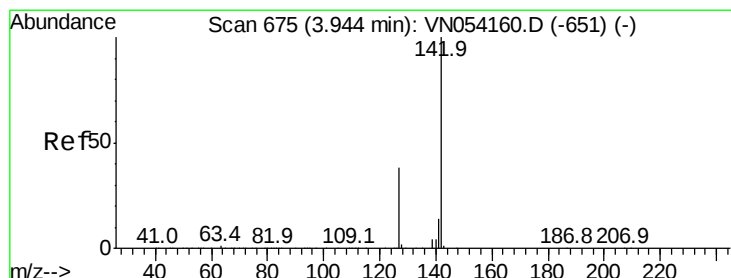
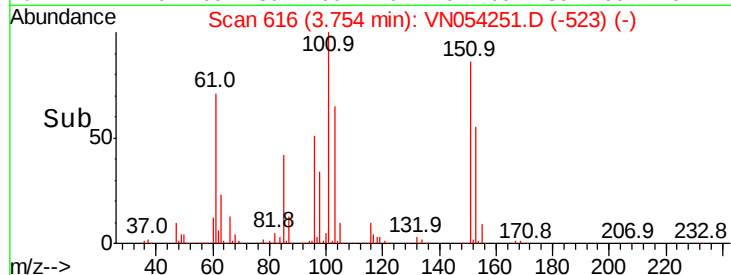
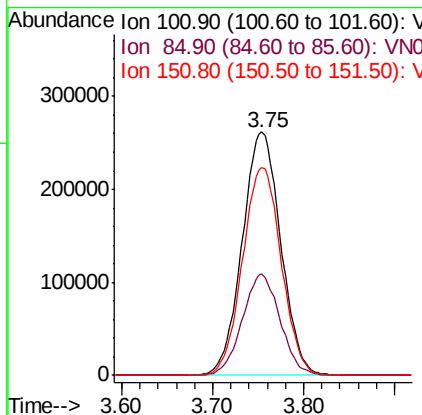
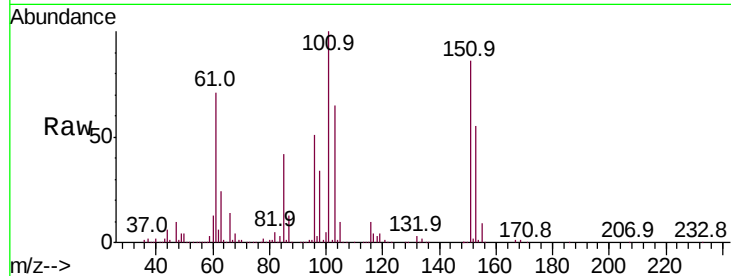
ClientSampleId :

VSTDCCC050EC

Tot Ion:	101	Resp:	768083
Ion Ratio	Lower	Upper	
101	100		
85	40.8	32.4	48.6
151	85.9	68.2	102.2

Manual Integrations
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3/23/2019 1:18:33 AM



#10

Methyl Iodide

Concen: 42.161 ug/l

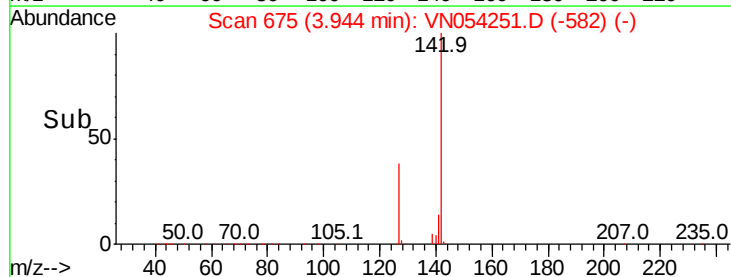
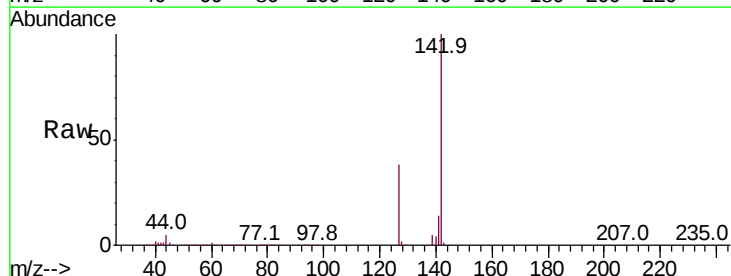
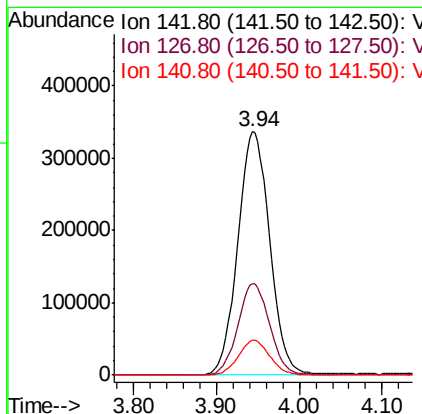
RT: 3.94 min Scan# 675

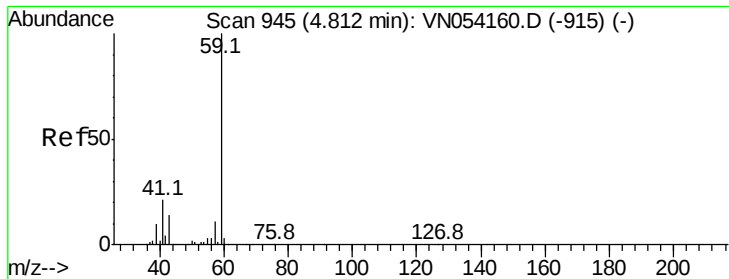
Delta R.T. 0.00 min

Lab File: VN054251.D

Acq: 14 Mar 2019 9:14

Tgt Ion:	142	Resp:	903738
Ion Ratio	Lower	Upper	
142	100		
127	37.4	30.3	45.5
141	14.2	11.2	16.8





#11

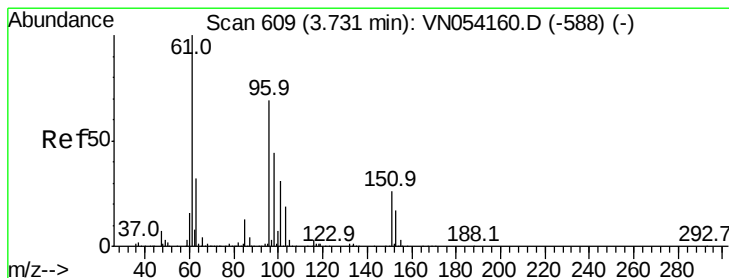
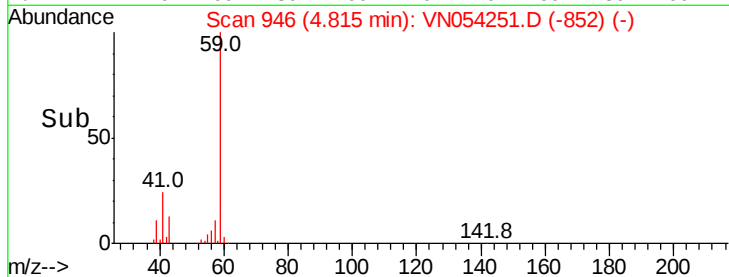
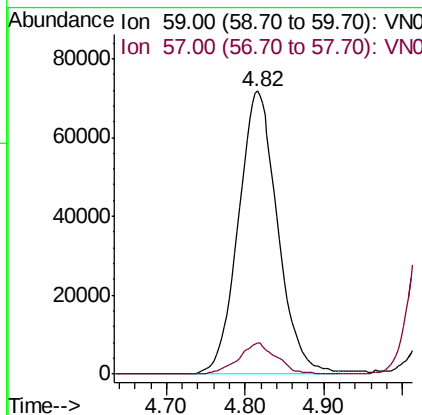
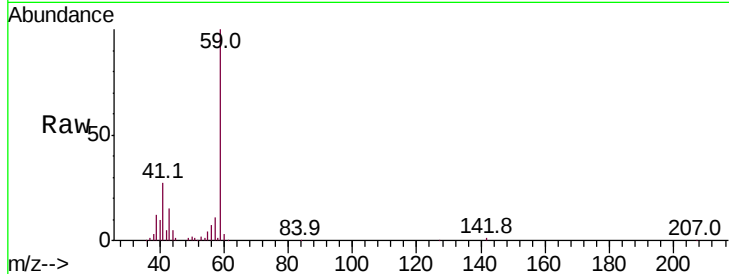
Tert butyl alcohol
Concen: 238.299 ug/l
RT: 4.82 min Scan# 946
Delta R.T. 0.00 min
Lab File: VN054251.D
Acq: 14 Mar 2019 9:14

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
59	100		
57	10.7	9.0	13.6

Manual Integrations
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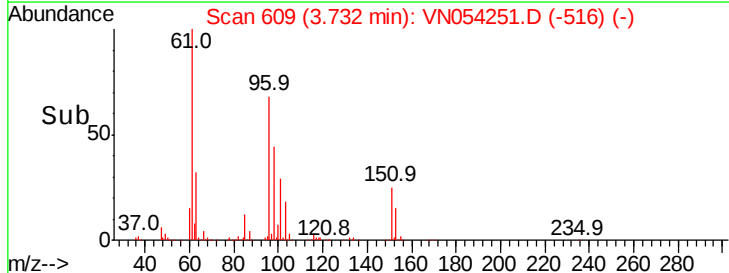
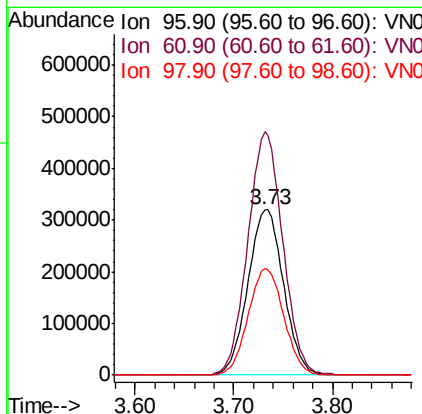
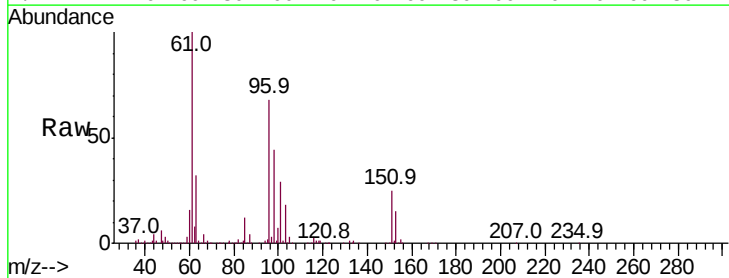
MMDadoda
3/23/2019 1:18:33 AM

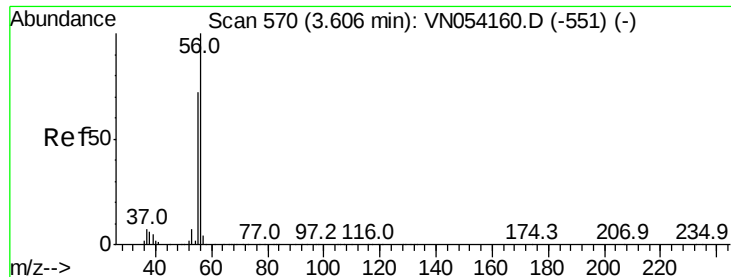


#12

1,1-Dichloroethene
Concen: 52.920 ug/l
RT: 3.73 min Scan# 609
Delta R.T. 0.00 min
Lab File: VN054251.D
Acq: 14 Mar 2019 9:14

Tgt Ion	Ratio	Lower	Upper
96	100		
61	147.5	116.5	174.7
98	64.8	51.0	76.4





#13

Acrolein

Concen: 227.759 ug/l

RT: 3.61 min Scan# 570

Delta R.T. 0.00 min

Lab File: VN054251.D

Acq: 14 Mar 2019 9:14

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 56 Resp: 227540

Ion Ratio Lower Upper

56 100

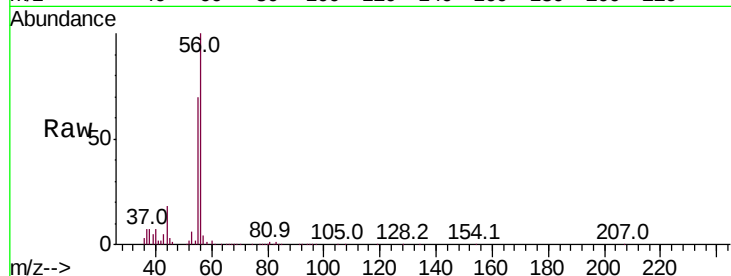
55 70.5 56.7 85.1

Manual Integrations

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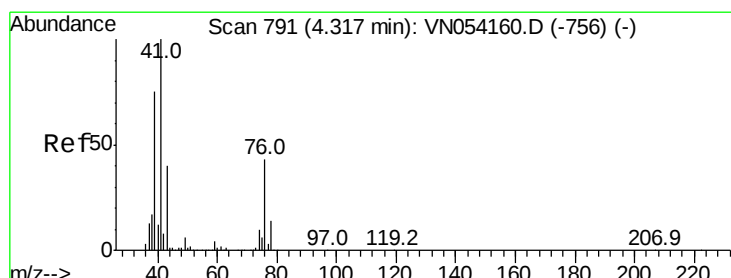
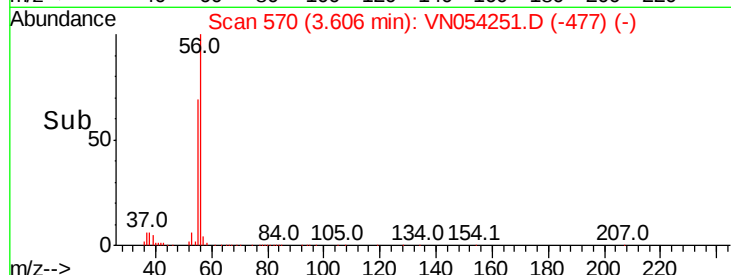
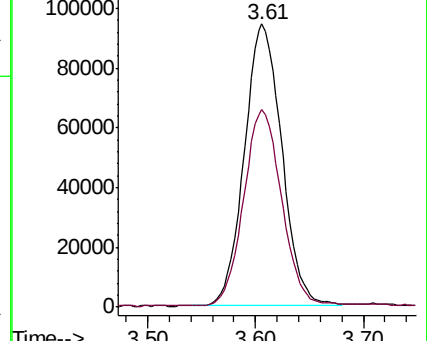
MMDadoda

3/23/2019 1:18:33 AM



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#14

Allyl chloride

Concen: 48.771 ug/l

RT: 4.32 min Scan# 791

Delta R.T. 0.00 min

Lab File: VN054251.D

Acq: 14 Mar 2019 9:14

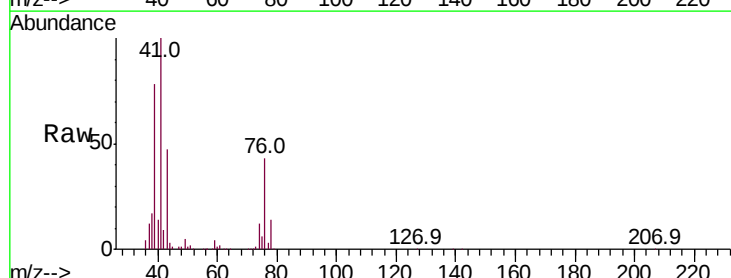
Tgt Ion: 41 Resp: 941386

Ion Ratio Lower Upper

41 100

39 73.4 58.2 87.4

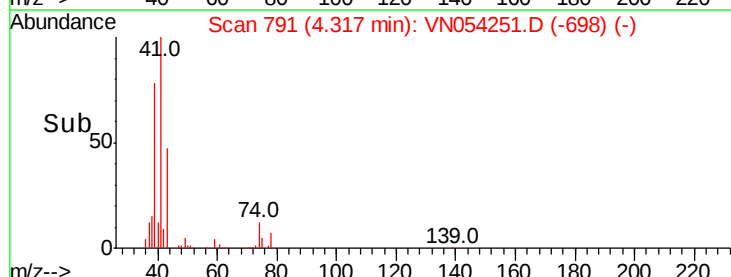
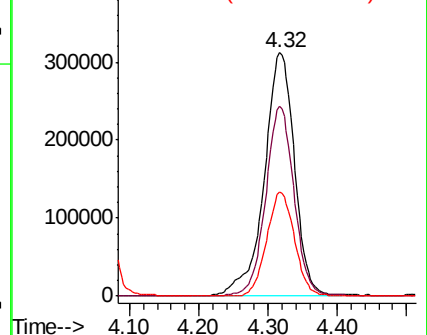
76 39.2 31.7 47.5

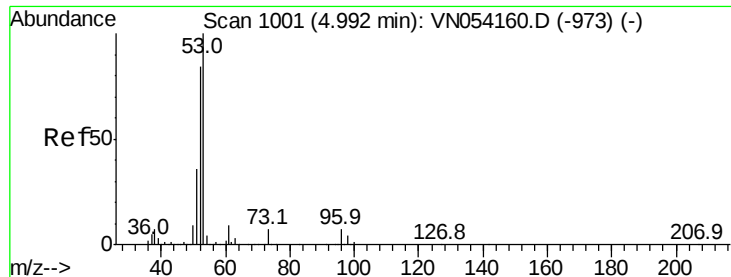


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

Ion 75.90 (75.60 to 76.60): VN0





#15

Acrylonitrile

Concen: 276.703 ug/l

RT: 5.00 min Scan# 1002

Delta R.T. 0.00 min

Lab File: VN054251.D

Acq: 14 Mar 2019 9:14

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 53 Resp: 1198326

Ion Ratio Lower Upper

53 100

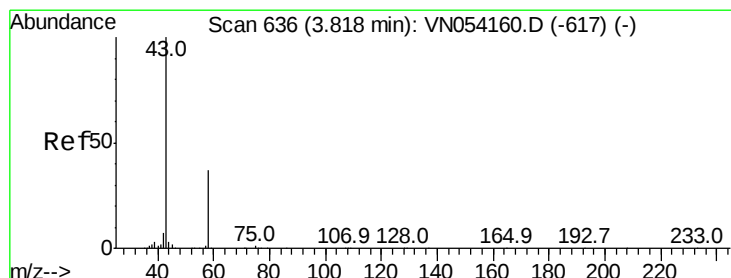
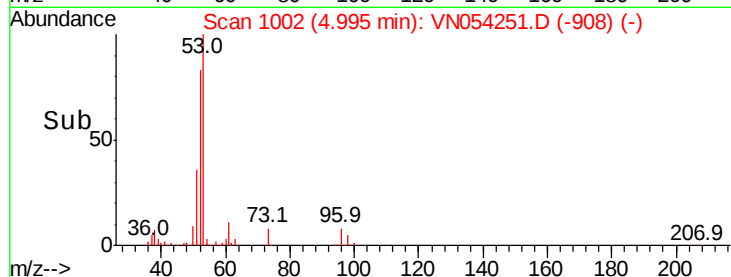
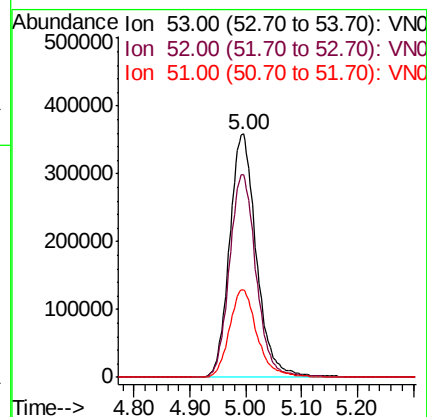
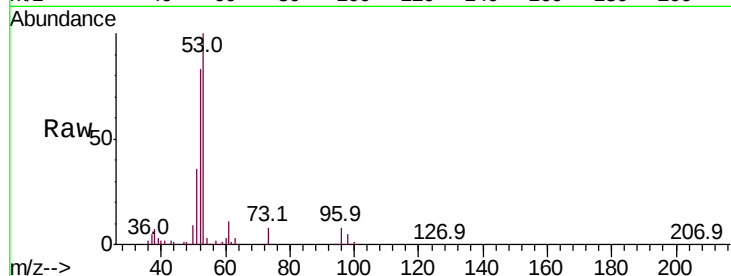
52 82.8 66.4 99.6

51 37.2 29.6 44.4

Manual Integrations
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3/23/2019 1:18:33 AM



#16

Acetone

Concen: 206.289 ug/l

RT: 3.82 min Scan# 636

Delta R.T. 0.00 min

Lab File: VN054251.D

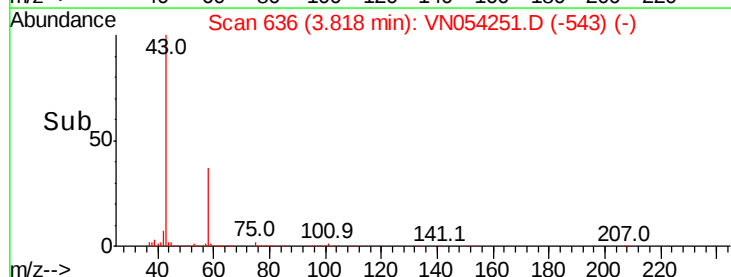
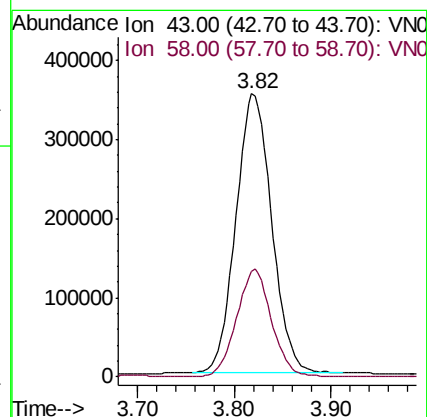
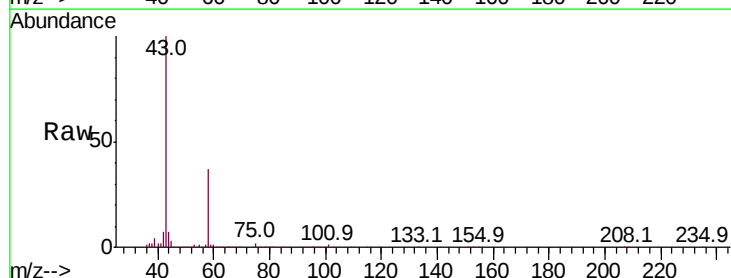
Acq: 14 Mar 2019 9:14

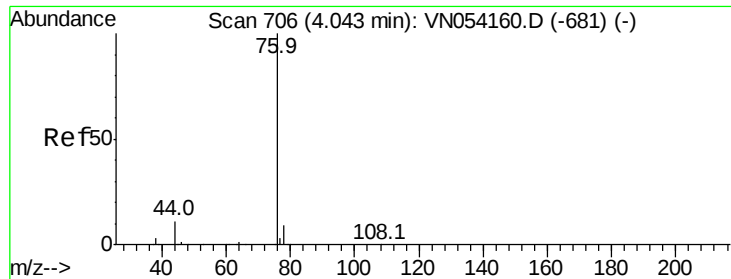
Tgt Ion: 43 Resp: 908363

Ion Ratio Lower Upper

43 100

58 37.4 29.9 44.9





#17

Carbon Disulfide

Concen: 47.359 ug/l

RT: 4.04 min Scan# 706

Delta R.T. 0.00 min

Lab File: VN054251.D

Acq: 14 Mar 2019 9:14

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 76 Resp: 1786063

Ion Ratio Lower Upper

76 100

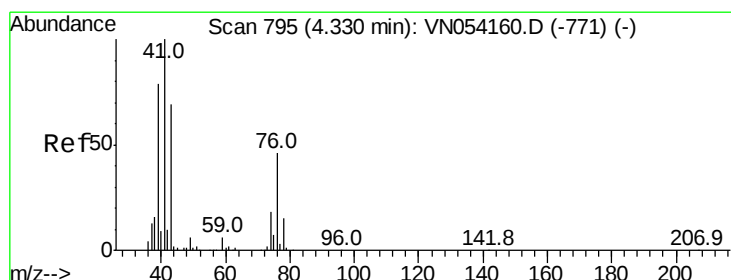
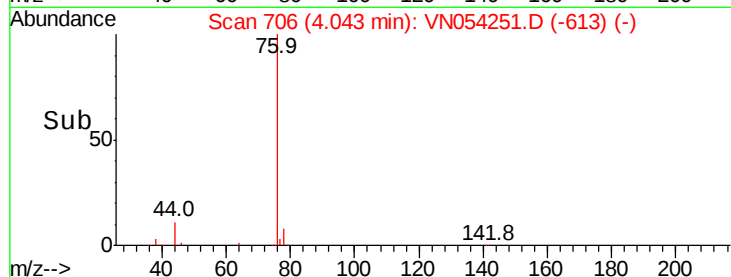
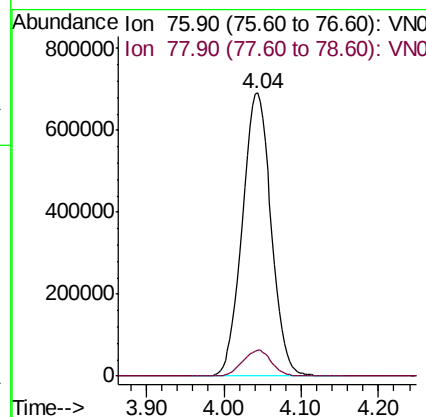
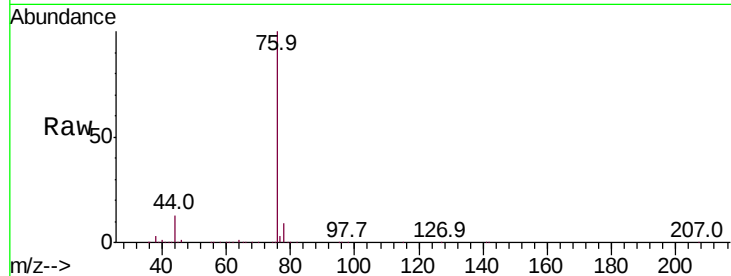
78 9.1 7.5 11.3

Manual Integrations

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MMDadoda

3/23/2019 1:18:33 AM



#18

Methyl Acetate

Concen: 59.200 ug/l

RT: 4.33 min Scan# 795

Delta R.T. 0.00 min

Lab File: VN054251.D

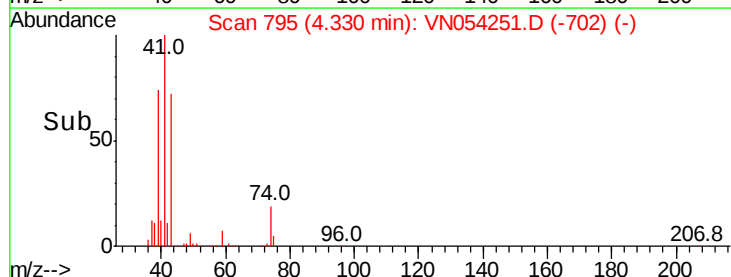
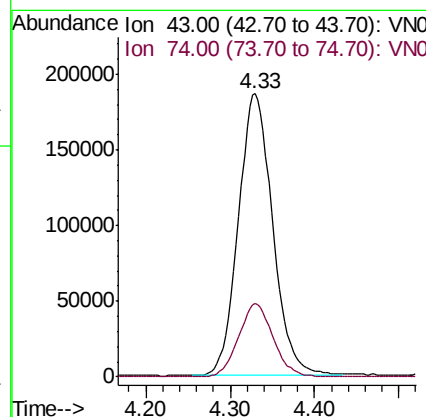
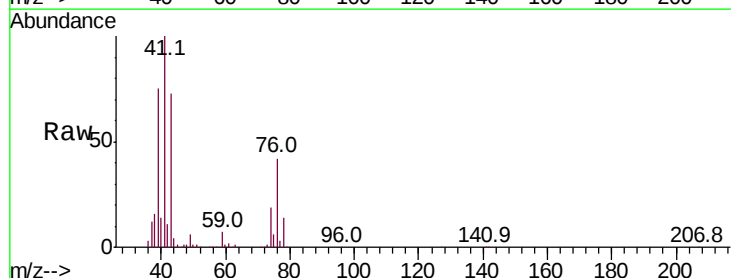
Acq: 14 Mar 2019 9:14

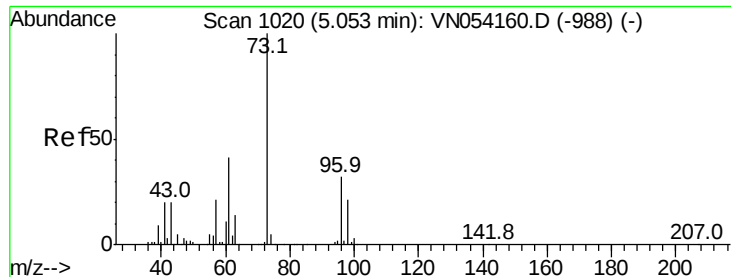
Tgt Ion: 43 Resp: 527396

Ion Ratio Lower Upper

43 100

74 26.3 20.8 31.2





#19

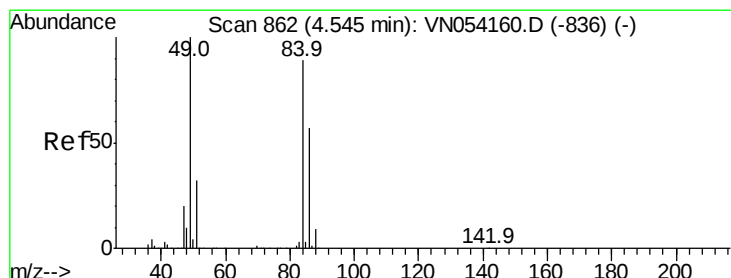
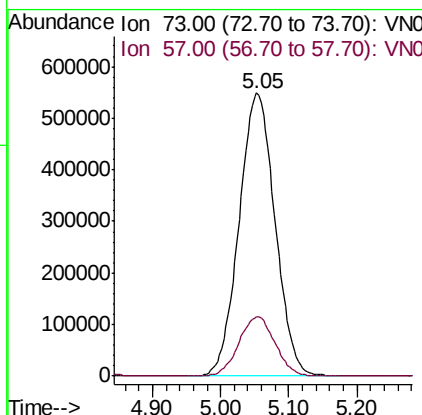
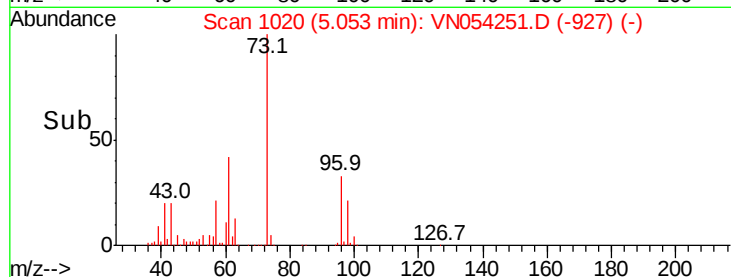
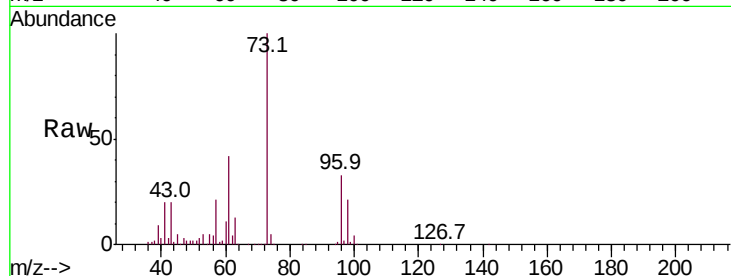
Methyl tert-butyl Ether
 Concen: 53.840 ug/l
 RT: 5.05 min Scan# 1020
 Delta R.T. 0.00 min
 Lab File: VN054251.D
 Acq: 14 Mar 2019 9:14

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tot Ion: 73 Resp: 2007703
 Ion Ratio Lower Upper
 73 100
 57 20.9 16.8 25.2

Manual Integrations
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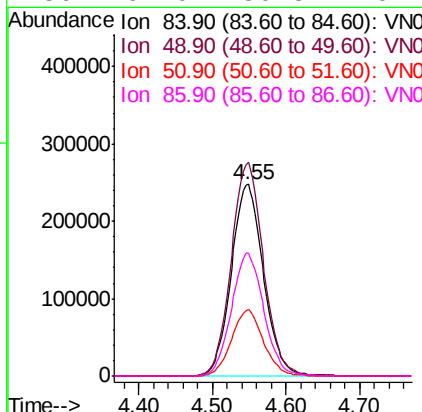
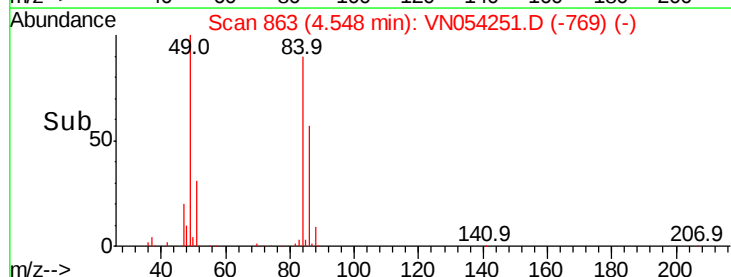
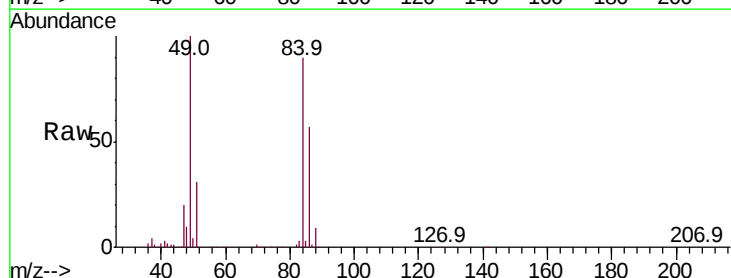
MMDadoda
 3/23/2019 1:18:33 AM

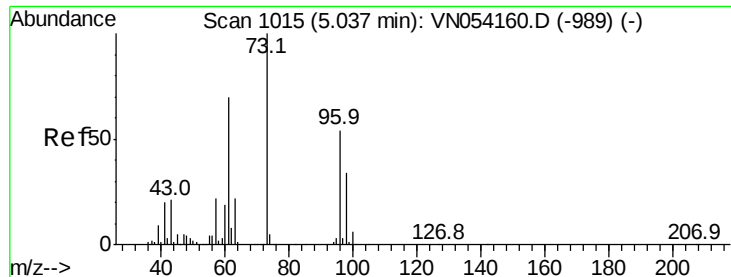


#20

Methylene Chloride
 Concen: 52.051 ug/l
 RT: 4.55 min Scan# 863
 Delta R.T. 0.00 min
 Lab File: VN054251.D
 Acq: 14 Mar 2019 9:14

Tgt Ion: 84 Resp: 752584
 Ion Ratio Lower Upper
 84 100
 49 111.5 89.7 134.5
 51 34.5 28.2 42.4
 86 64.0 50.8 76.2





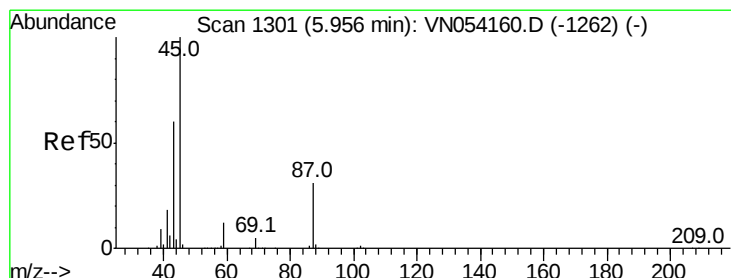
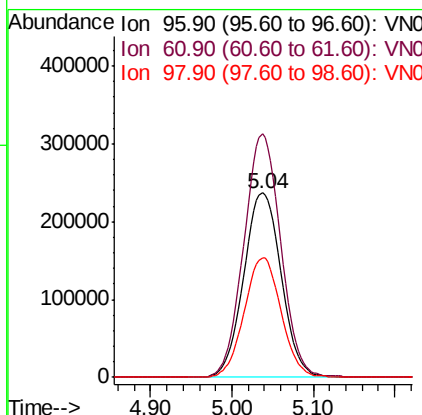
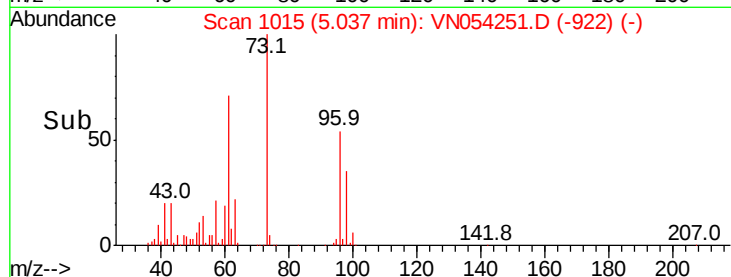
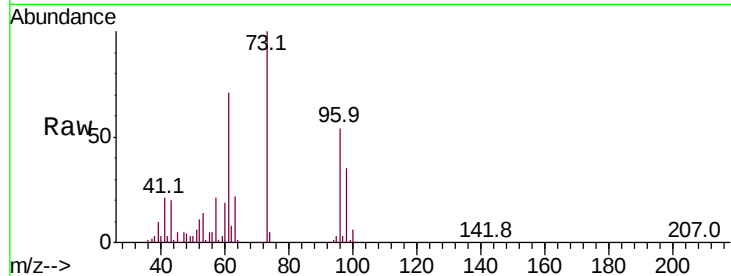
#21
trans-1,2-Dichloroethene
Concen: 52.282 ug/l
RT: 5.04 min Scan# 1015
Delta R.T. 0.00 min
Lab File: VN054251.D
Acq: 14 Mar 2019 9:14

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion: 96 Resp: 753620
Ion Ratio Lower Upper
96 100
61 131.9 102.8 154.2
98 64.6 50.0 75.0

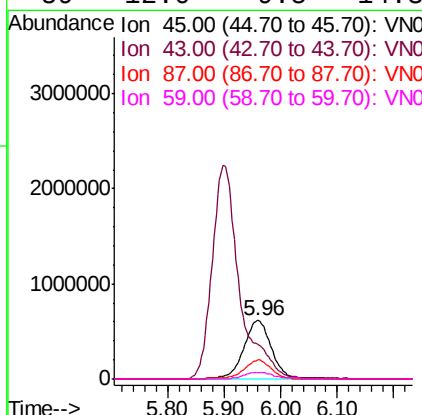
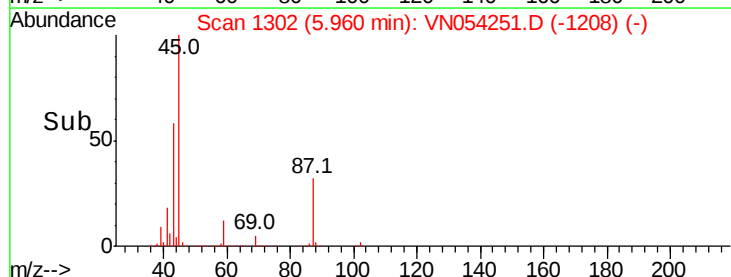
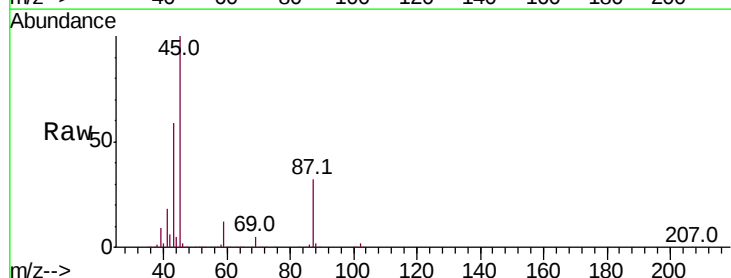
Manual Integrations
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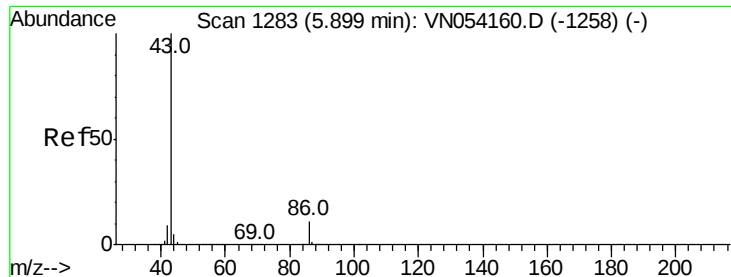
MMDadoda
3/23/2019 1:18:33 AM



#22
Diisopropyl ether
Concen: 54.446 ug/l
RT: 5.96 min Scan# 1302
Delta R.T. 0.00 min
Lab File: VN054251.D
Acq: 14 Mar 2019 9:14

Tgt Ion: 45 Resp: 2097462
Ion Ratio Lower Upper
45 100
43 57.5 48.2 72.2
87 31.8 24.9 37.3
59 12.0 9.5 14.3





#23

Vinyl Acetate

Concen: 268.087 ug/l

RT: 5.90 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VN054251.D

Acq: 14 Mar 2019 9:14

Tot Ion: 43 Resp: 7614747

Ion Ratio Lower Upper

43 100

86 11.6 9.1 13.7

Instrument :

MSVOA_N

ClientSampleId :

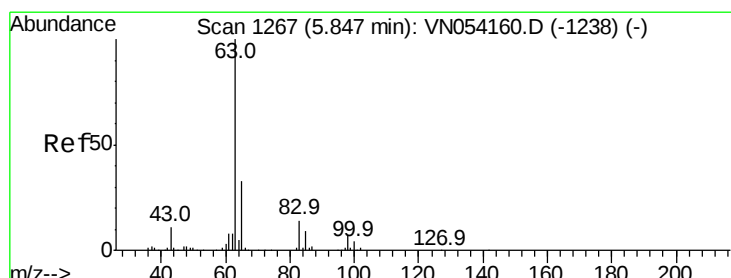
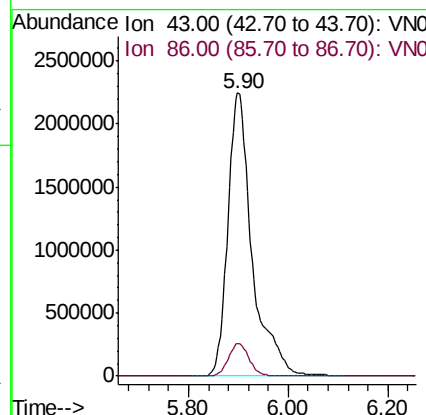
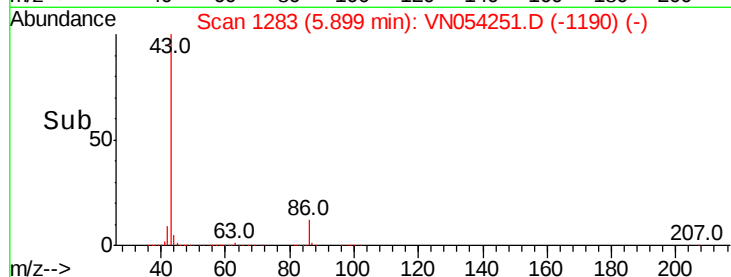
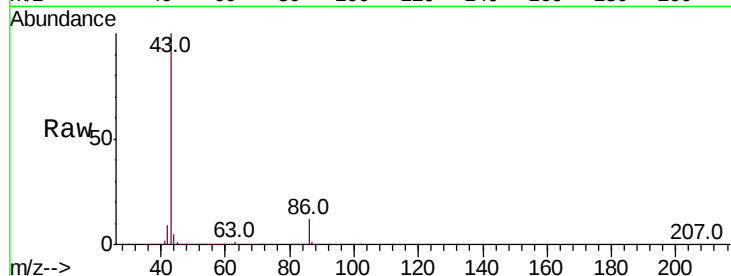
VSTDCCC050EC

Manual Integrations

APPROVED

MMDadoda

3/23/2019 1:18:33 AM



#24

1,1-Dichloroethane

Concen: 52.969 ug/l

RT: 5.85 min Scan# 1267

Delta R.T. 0.00 min

Lab File: VN054251.D

Acq: 14 Mar 2019 9:14

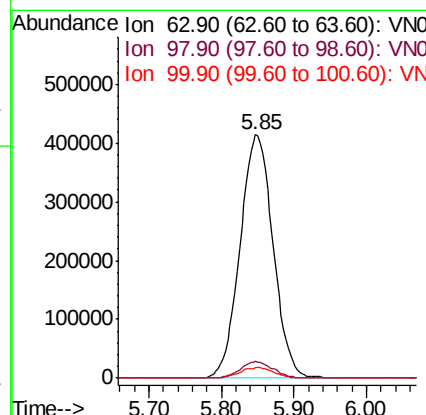
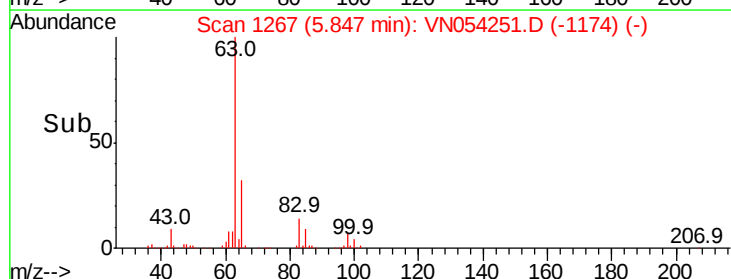
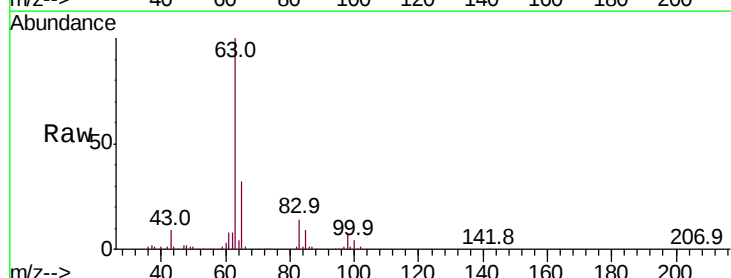
Tgt Ion: 63 Resp: 1310222

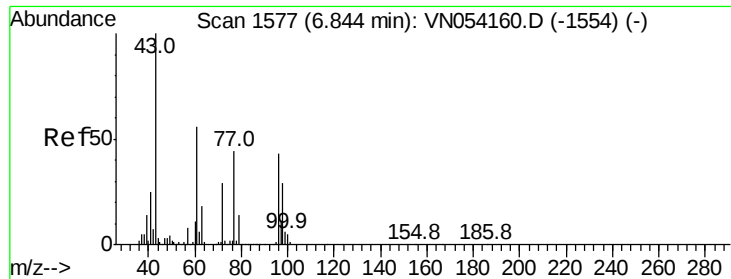
Ion Ratio Lower Upper

63 100

98 6.8 3.5 10.5

100 4.2 2.0 6.0





#25

2-Butanone

Concen: 268.077 ug/l

RT: 6.84 min Scan# 1577

Delta R.T. 0.00 min

Lab File: VN054251.D

Acq: 14 Mar 2019 9:14

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 43 Resp: 1385473

Ion Ratio Lower Upper

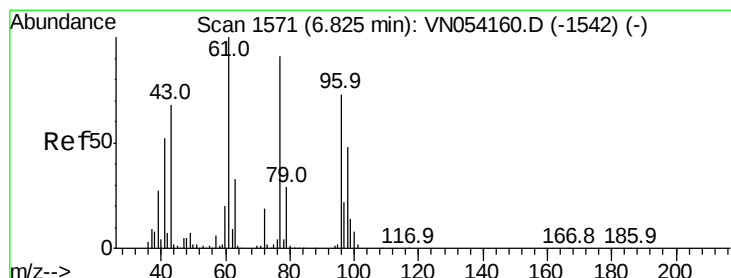
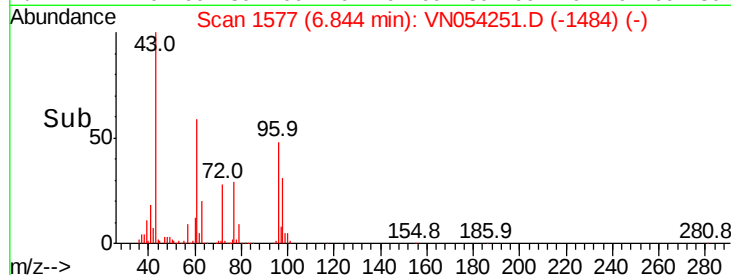
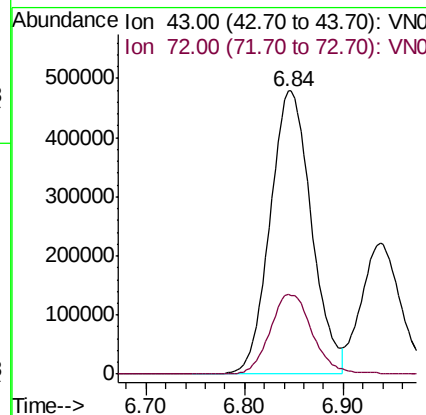
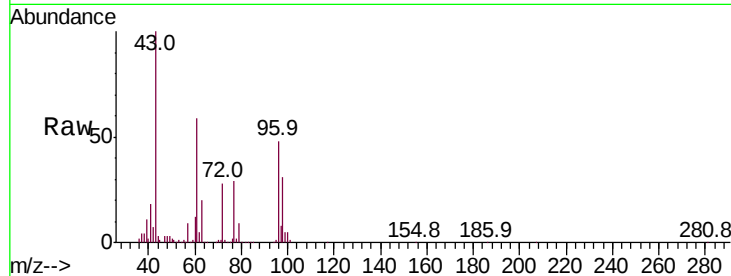
43 100

72 28.1 23.0 34.6

Manual Integrations
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3/23/2019 1:18:33 AM



#26

2,2-Dichloropropane

Concen: 29.726 ug/l

RT: 6.83 min Scan# 1572

Delta R.T. 0.00 min

Lab File: VN054251.D

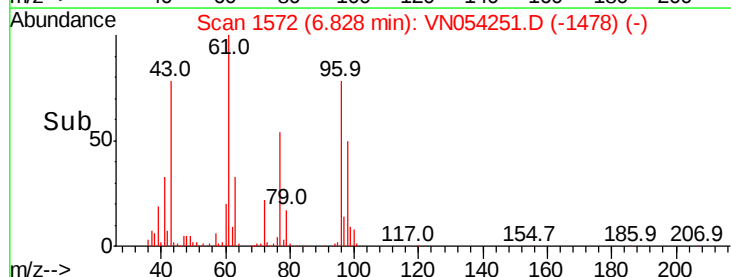
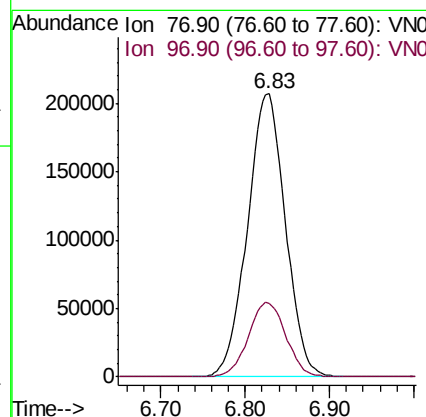
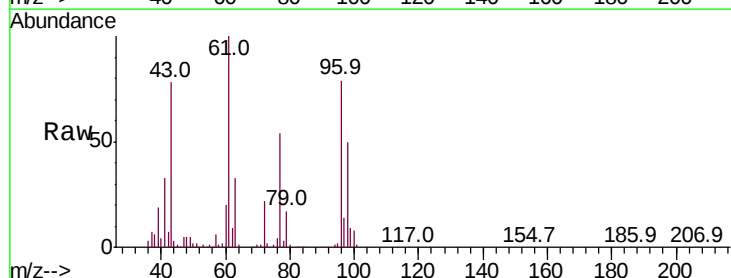
Acq: 14 Mar 2019 9:14

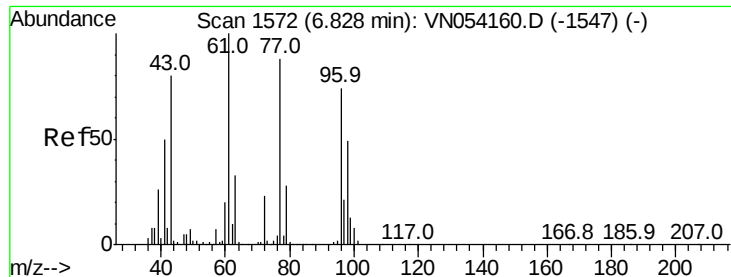
Tgt Ion: 77 Resp: 646602

Ion Ratio Lower Upper

77 100

97 26.0 11.9 35.9





#27

cis-1,2-Dichloroethene

Concen: 54.433 ug/l

RT: 6.83 min Scan# 1573

Delta R.T. 0.00 min

Lab File: VN054251.D

Acq: 14 Mar 2019 9:14

Instrument :

MSVOA_N

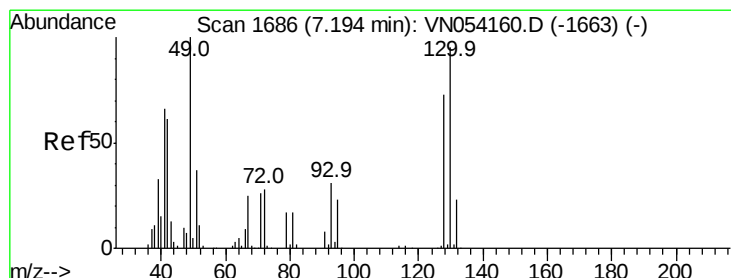
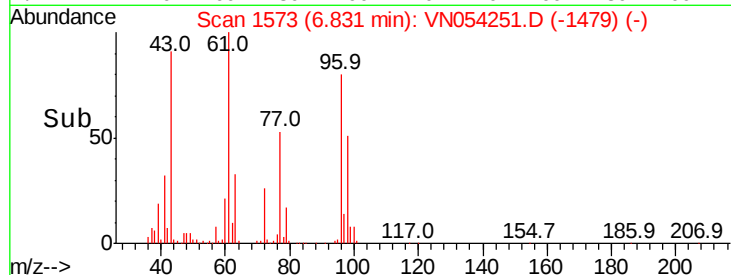
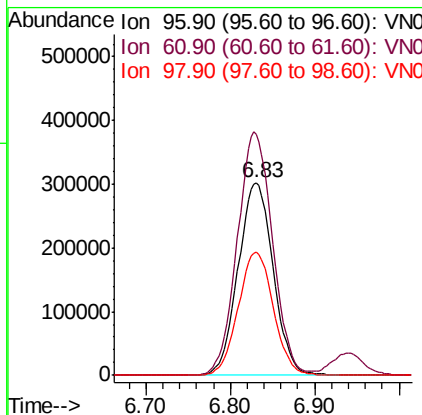
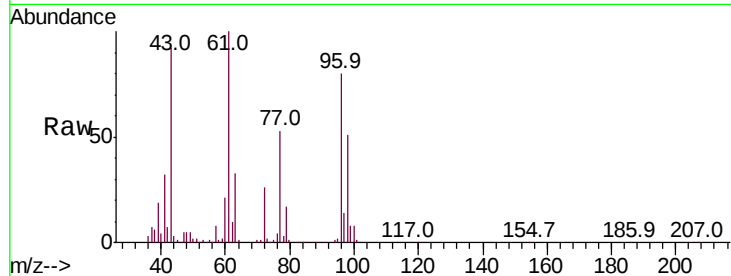
ClientSampleId :

VSTDCCC050EC

Tot Ion:	96	Resp:	875337
Ion Ratio	Lower	Upper	
96	100		
61	126.8	0.0	273.0
98	64.4	0.0	130.6

Manual Integrations
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#28

Bromochloromethane

Concen: 53.320 ug/l

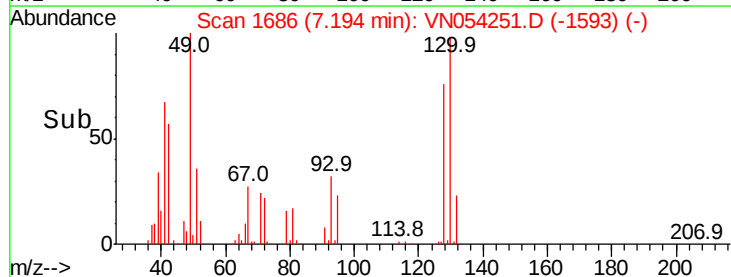
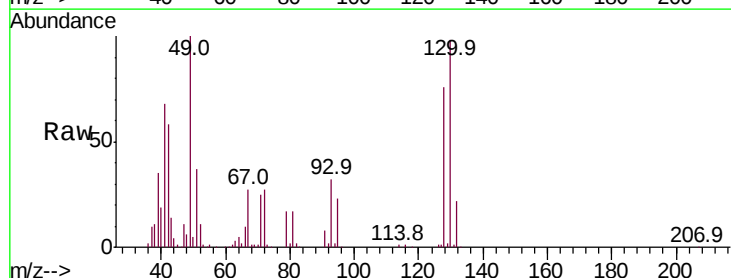
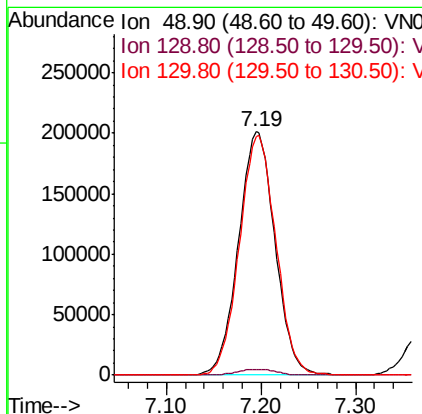
RT: 7.19 min Scan# 1686

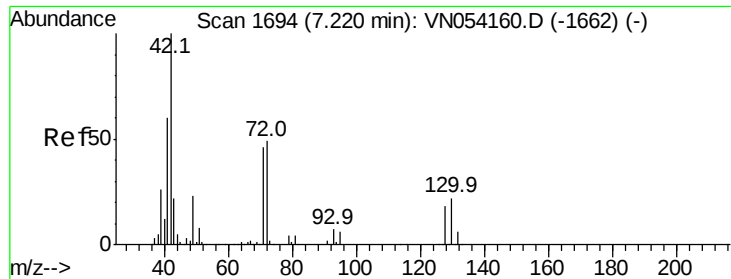
Delta R.T. 0.00 min

Lab File: VN054251.D

Acq: 14 Mar 2019 9:14

Tgt Ion:	49	Resp:	539184
Ion Ratio	Lower	Upper	
49	100		
129	2.5	0.0	4.6
130	98.2	76.7	115.1





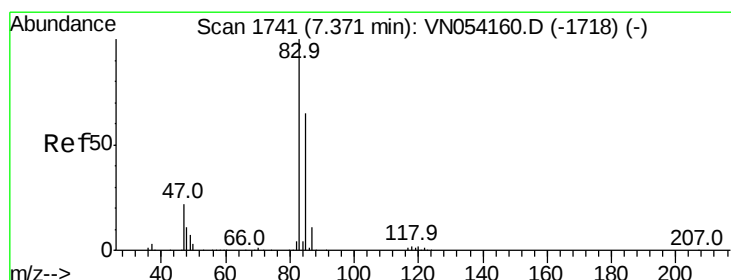
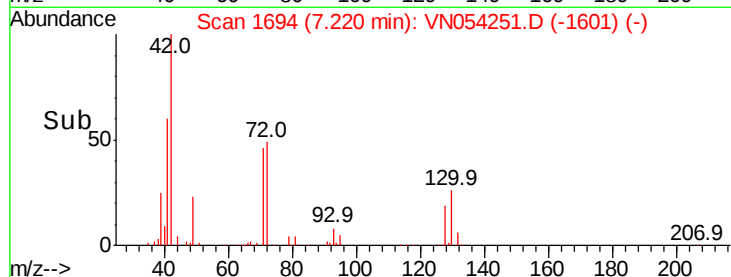
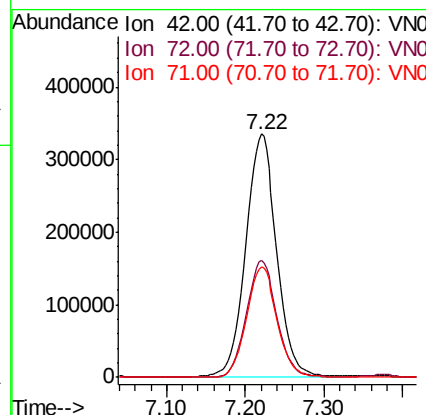
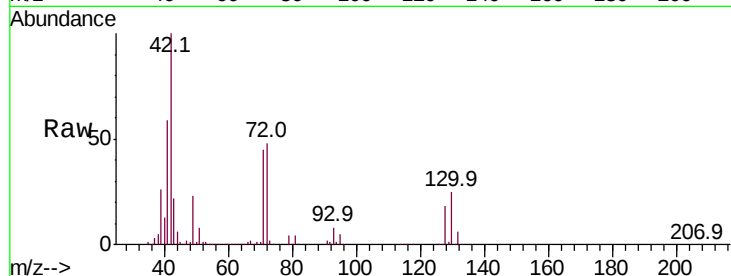
#29
Tetrahydrofuran
Concen: 277.120 ug/l
RT: 7.22 min Scan# 1694
Delta R.T. 0.00 min
Lab File: VN054251.D
Acq: 14 Mar 2019 9:14

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
42	100		
72	47.4	37.8	56.6
71	45.1	36.2	54.2

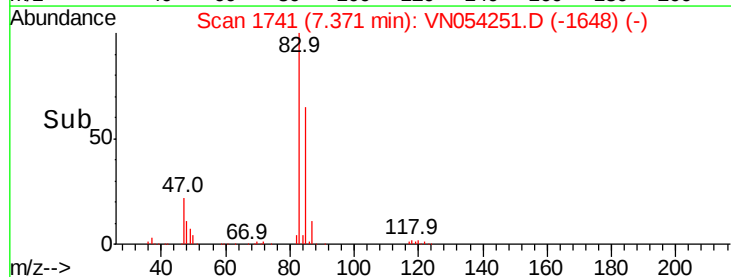
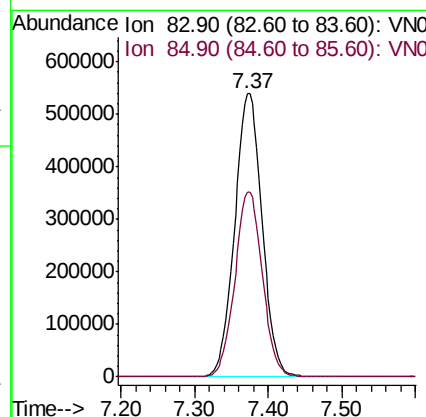
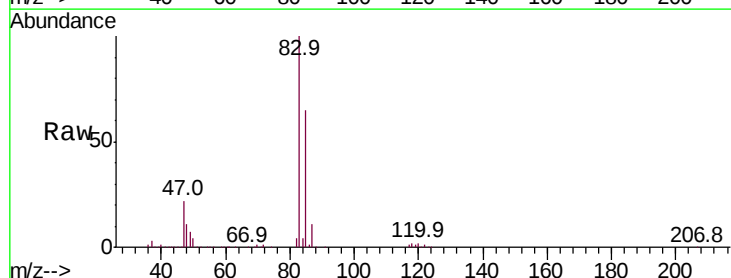
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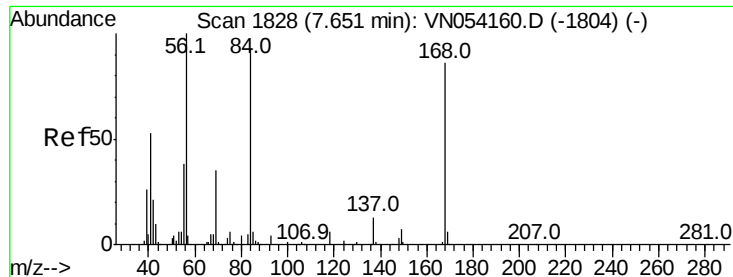
MMDadoda
3/23/2019 1:18:33 AM



#30
Chloroform
Concen: 54.075 ug/l
RT: 7.37 min Scan# 1741
Delta R.T. 0.00 min
Lab File: VN054251.D
Acq: 14 Mar 2019 9:14

Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.2	52.2	78.4





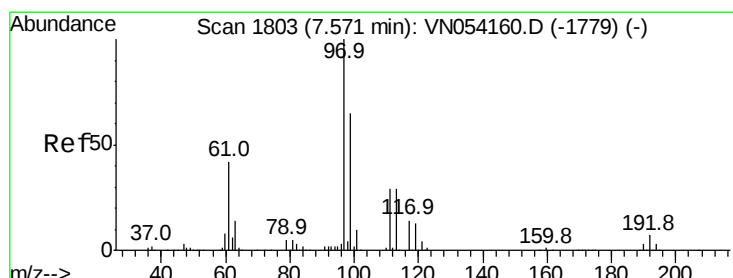
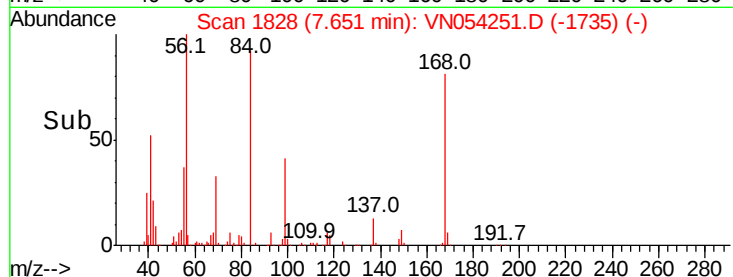
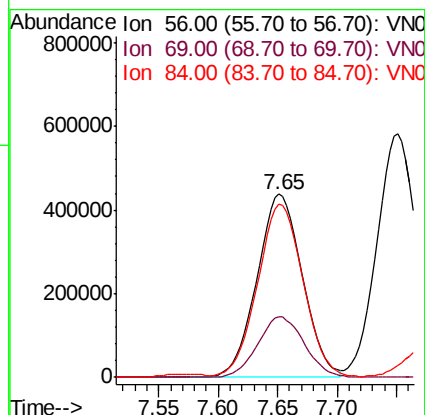
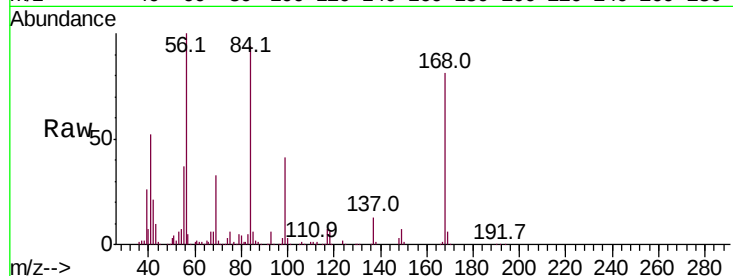
#31
Cyclohexane
Concen: 49.946 ug/l
RT: 7.65 min Scan# 1828
Delta R.T. 0.00 min
Lab File: VN054251.D
Acq: 14 Mar 2019 9:14

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
56	100		
69	33.2	27.8	41.6
84	92.6	74.6	111.8

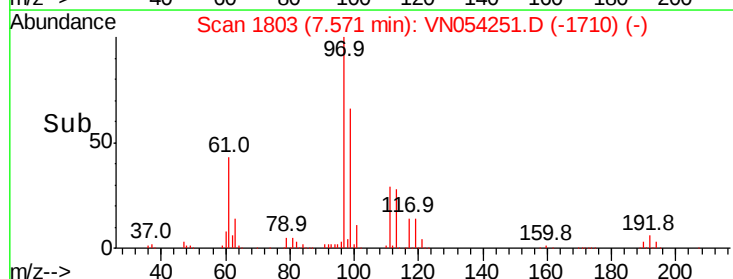
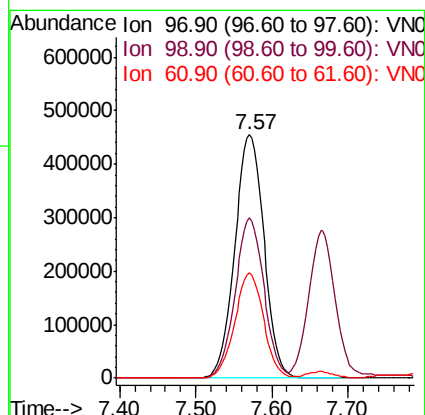
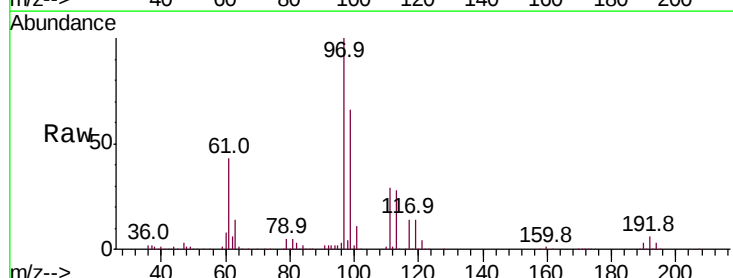
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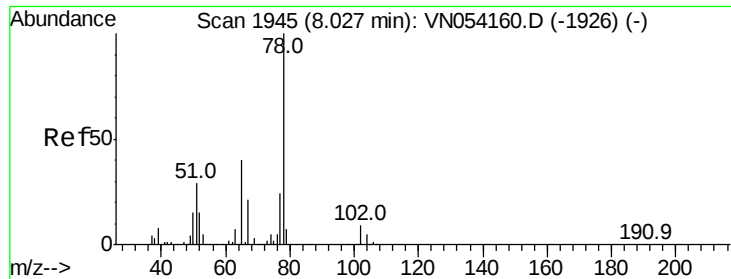
MMDadoda
3/23/2019 1:18:33 AM



#32
1,1,1-Trichloroethane
Concen: 52.117 ug/l
RT: 7.57 min Scan# 1803
Delta R.T. 0.00 min
Lab File: VN054251.D
Acq: 14 Mar 2019 9:14

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.9	51.5	77.3
61	42.6	33.6	50.4





#33

1,2-Dichloroethane-d4

Concen: 52.333 ug/l

RT: 8.03 min Scan# 1945

Delta R.T. 0.00 min

Lab File: VN054251.D

Acq: 14 Mar 2019 9:14

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 65 Resp: 804834

Ion Ratio Lower Upper

65 100

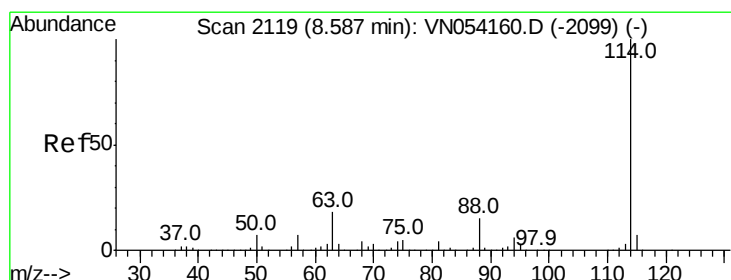
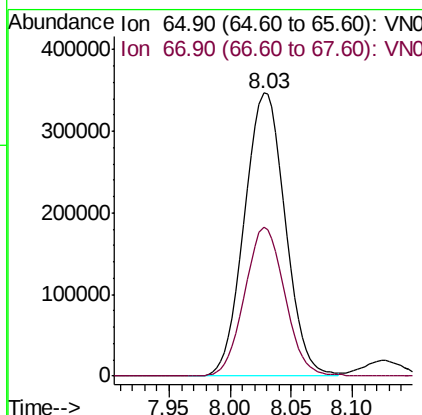
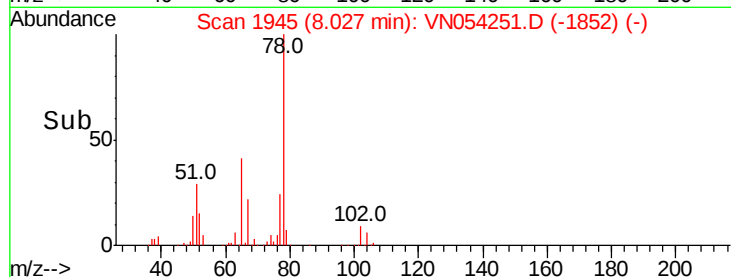
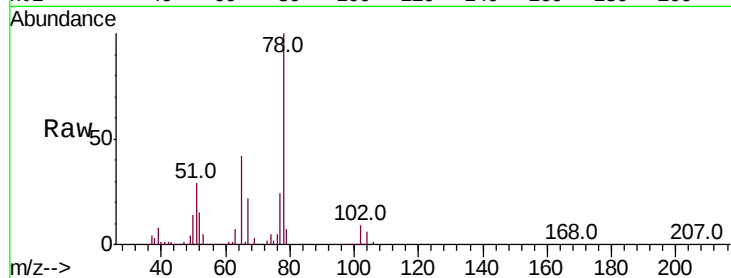
67 51.7 0.0 104.6

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3/23/2019 1:18:33 AM



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. 0.00 min

Lab File: VN054251.D

Acq: 14 Mar 2019 9:14

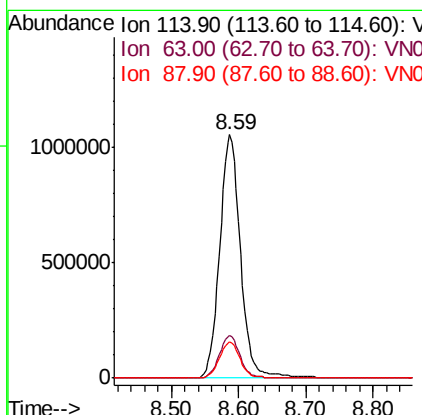
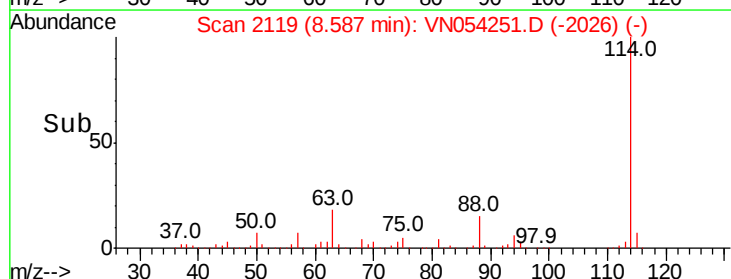
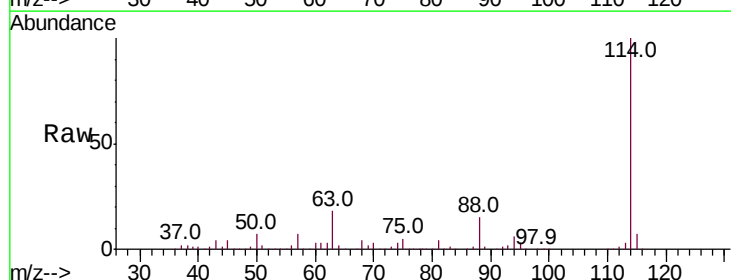
Tgt Ion: 114 Resp: 2283388

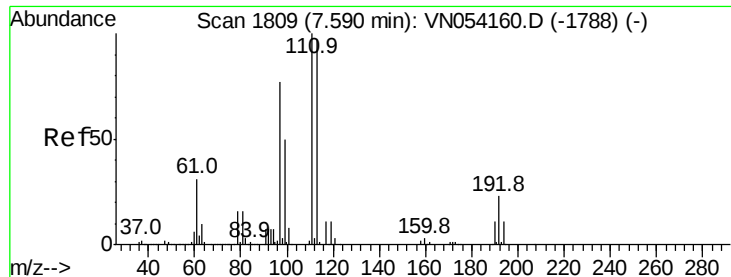
Ion Ratio Lower Upper

114 100

63 17.6 0.0 35.2

88 14.9 0.0 30.2





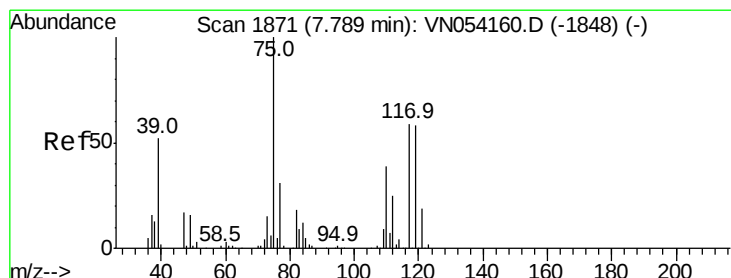
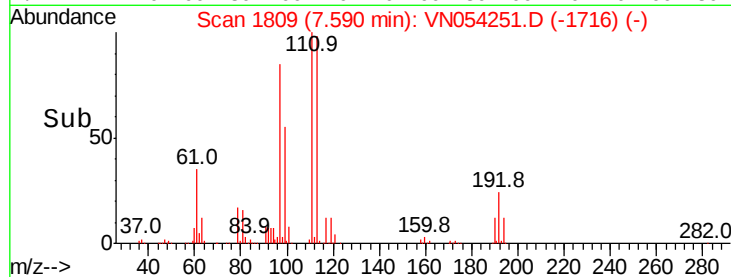
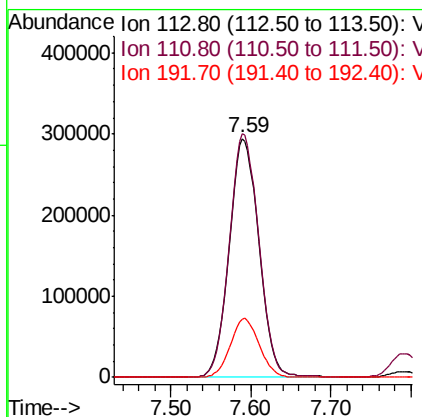
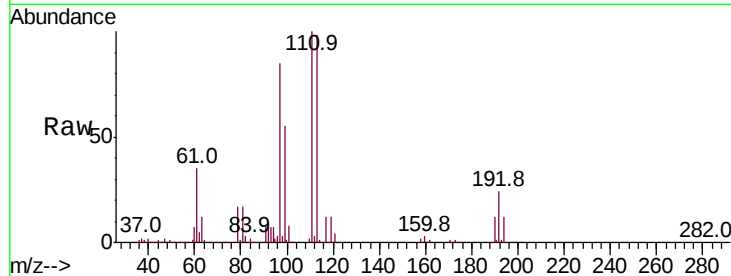
#35
 Dibromofluoromethane
 Concen: 50.312 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. 0.00 min
 Lab File: VN054251.D
 Acq: 14 Mar 2019 9:14

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
113	100		
111	101.6	82.2	123.4
192	23.9	19.2	28.8

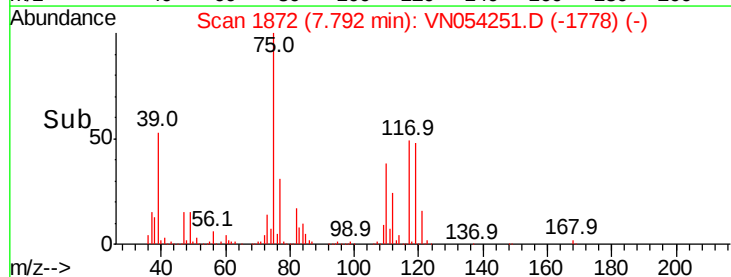
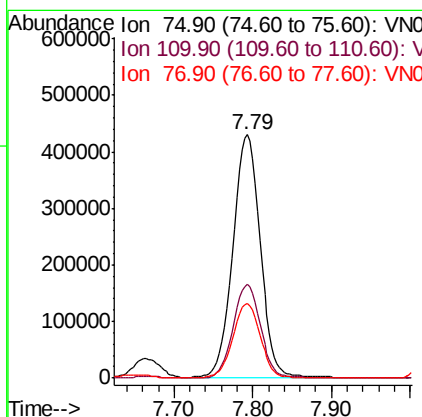
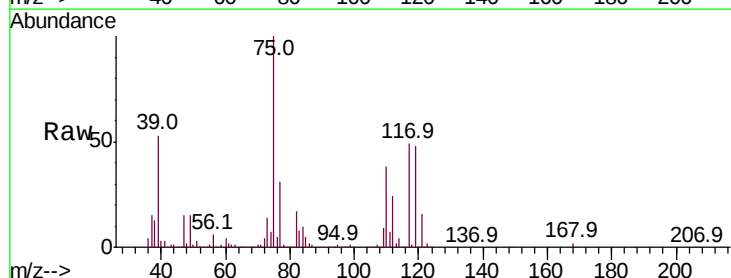
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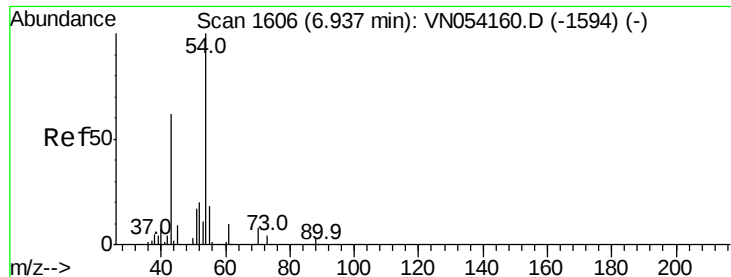
MMDadoda
 3/23/2019 1:18:33 AM



#36
 1,1-Dichloropropene
 Concen: 49.618 ug/l
 RT: 7.79 min Scan# 1872
 Delta R.T. 0.00 min
 Lab File: VN054251.D
 Acq: 14 Mar 2019 9:14

Tgt Ion	Ratio	Lower	Upper
75	100		
110	38.6	19.1	57.5
77	31.3	25.0	37.4





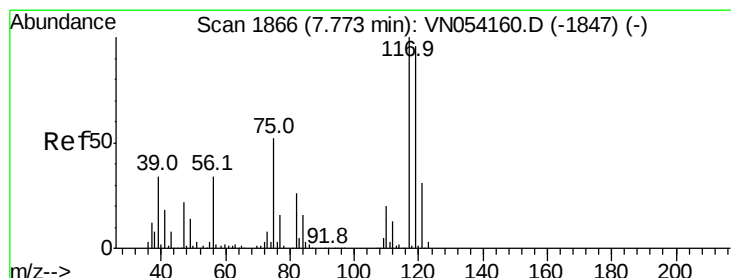
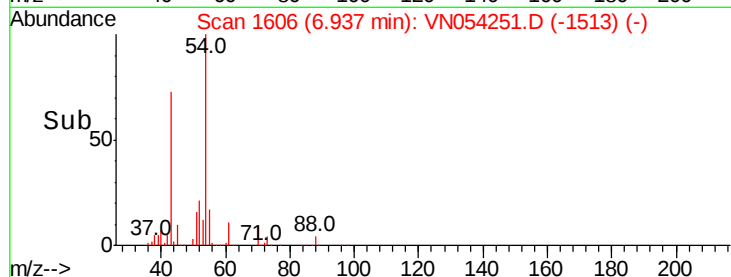
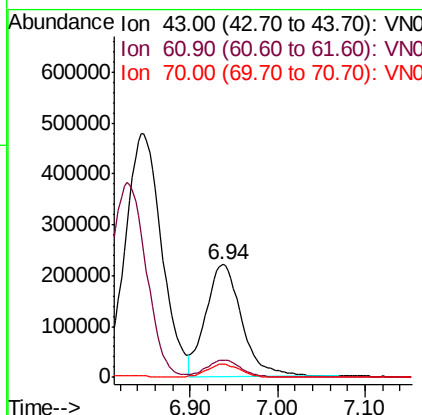
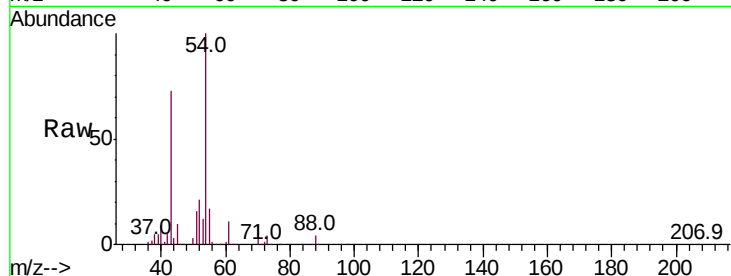
#37
Ethyl Acetate
Concen: 52.278 ug/l
RT: 6.94 min Scan# 1606
Delta R.T. 0.00 min
Lab File: VN054251.D
Acq: 14 Mar 2019 9:14

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
43	100		
61	14.9	11.8	17.6
70	10.8	8.4	12.6

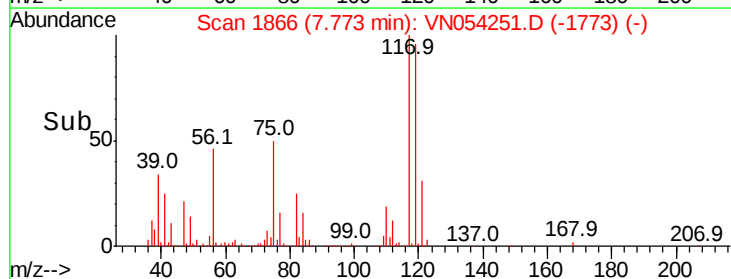
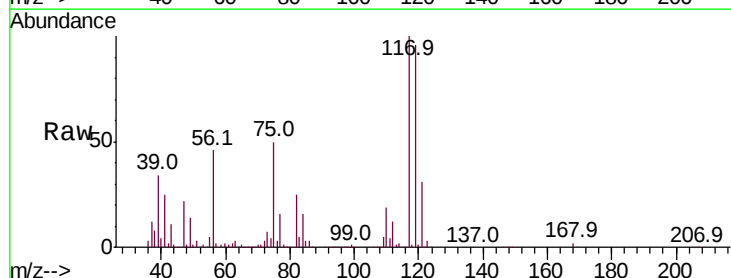
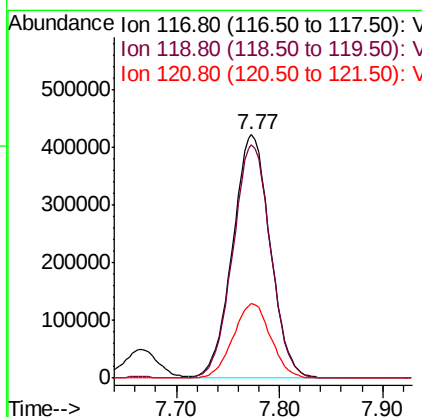
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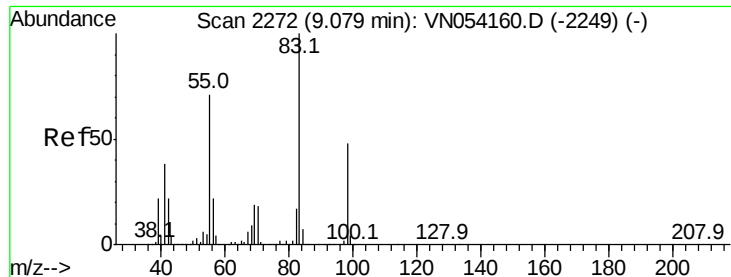
MMDadoda
3/23/2019 1:18:33 AM



#38
Carbon Tetrachloride
Concen: 48.350 ug/l
RT: 7.77 min Scan# 1866
Delta R.T. 0.00 min
Lab File: VN054251.D
Acq: 14 Mar 2019 9:14

Tgt Ion	Ratio	Lower	Upper
117	100		
119	95.7	76.3	114.5
121	30.6	24.6	36.8





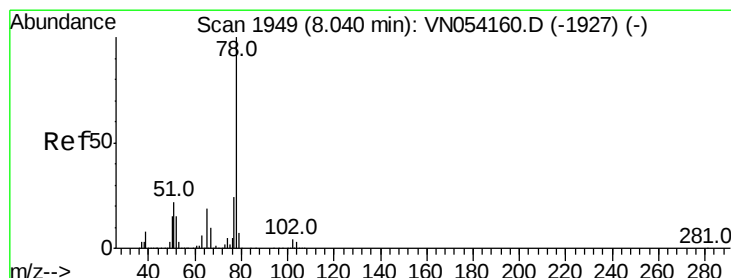
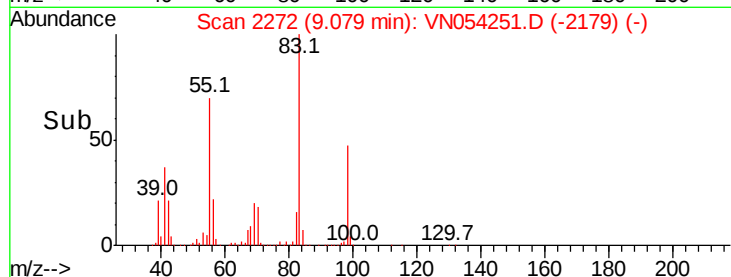
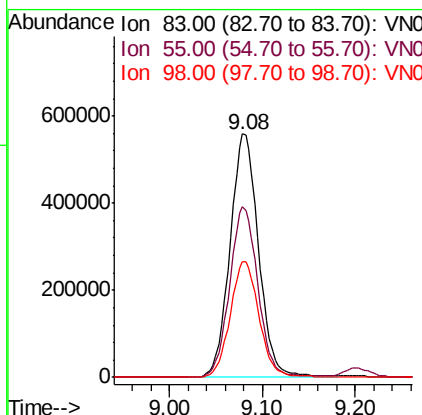
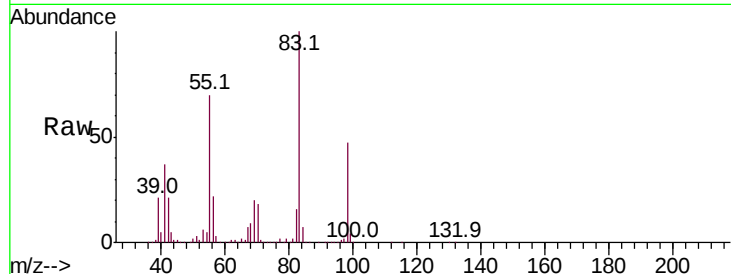
#39
Methvlcvclohexane
Concen: 46.181 ug/l
RT: 9.08 min Scan# 2272
Delta R.T. 0.00 min
Lab File: VN054251.D
Acq: 14 Mar 2019 9:14

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	83	Resp	1194806
Ion	Ratio	Lower	Upper
83	100		
55	69.9	56.6	84.8
98	47.4	38.4	57.6

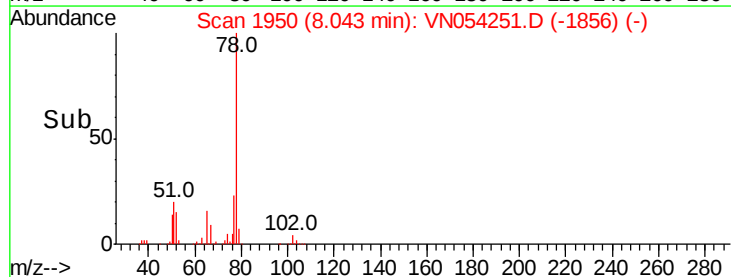
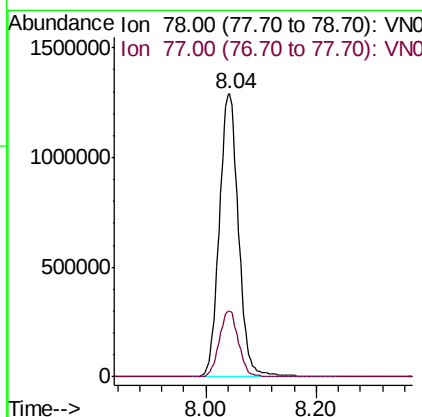
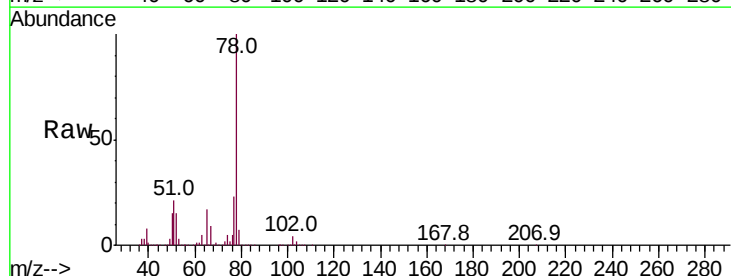
Manual Integrations
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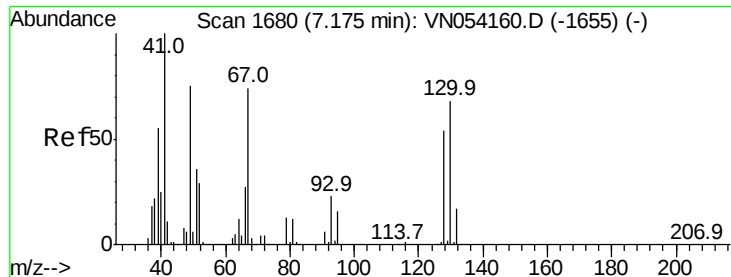
MMDadoda
3/23/2019 1:18:33 AM



#40
Benzene
Concen: 51.423 ug/l
RT: 8.04 min Scan# 1950
Delta R.T. 0.00 min
Lab File: VN054251.D
Acq: 14 Mar 2019 9:14

Tgt Ion	78	Resp	3094340
Ion	Ratio	Lower	Upper
78	100		
77	23.4	19.1	28.7





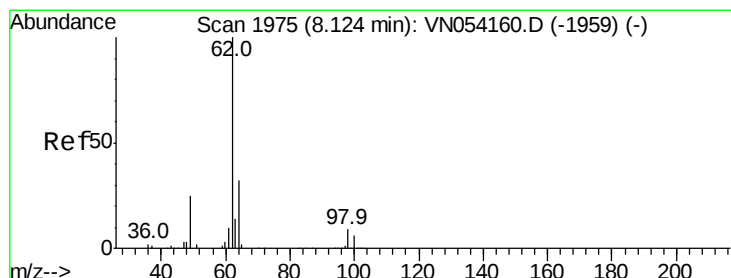
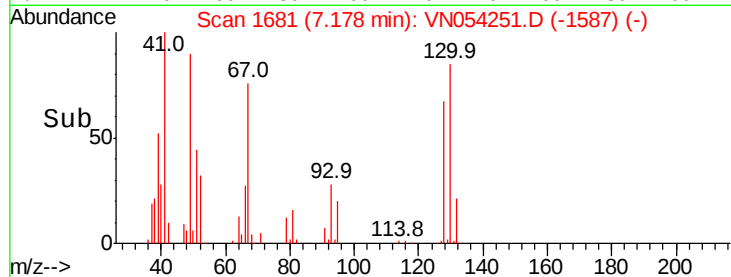
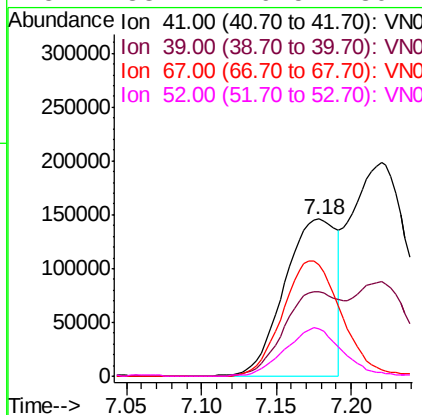
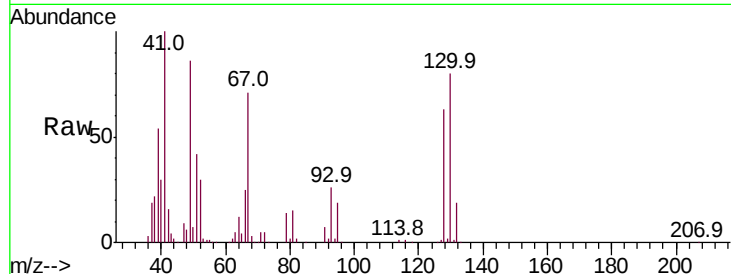
#41
Methacrylonitrile
Concen: 50.783 ug/l
RT: 7.18 min Scan# 1681
Delta R.T. 0.00 min
Lab File: VN054251.D
Acq: 14 Mar 2019 9:14

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
41	100		
39	61.3	46.8	70.2
67	84.0	67.0	100.4
52	33.7	26.5	39.7

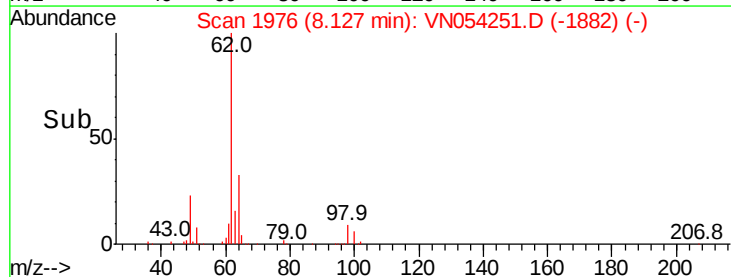
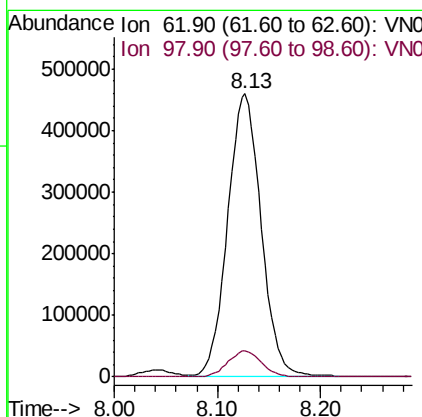
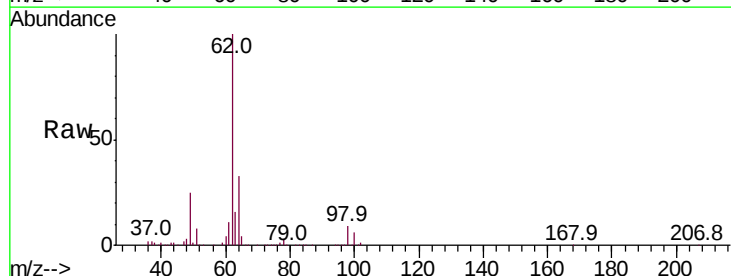
Manual Integrations
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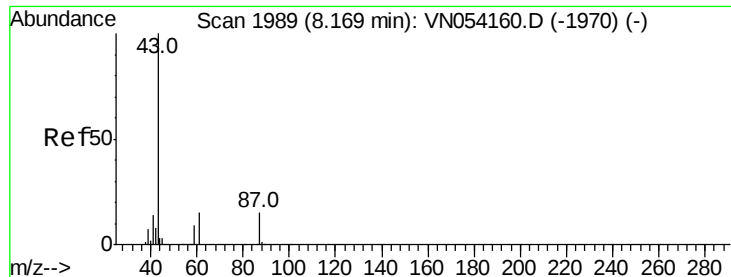
MMDadoda
3/23/2019 1:18:33 AM



#42
1,2-Dichloroethane
Concen: 50.868 ug/l
RT: 8.13 min Scan# 1976
Delta R.T. 0.00 min
Lab File: VN054251.D
Acq: 14 Mar 2019 9:14

Tgt Ion	Ratio	Lower	Upper
62	100		
98	9.3	0.0	18.4





#43

Isopropyl Acetate

Concen: 51.667 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. 0.00 min

Lab File: VN054251.D

Acq: 14 Mar 2019 9:14

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 43 Resp: 1095753

Ion Ratio Lower Upper

43 100

61 20.5 15.8 23.8

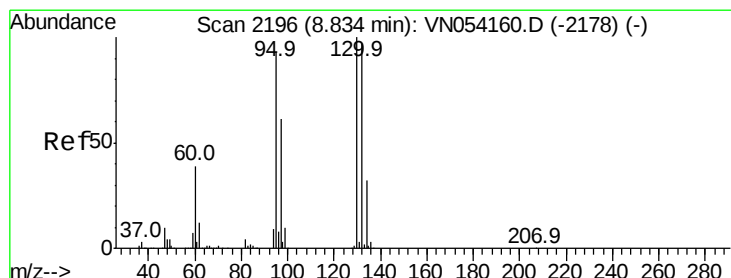
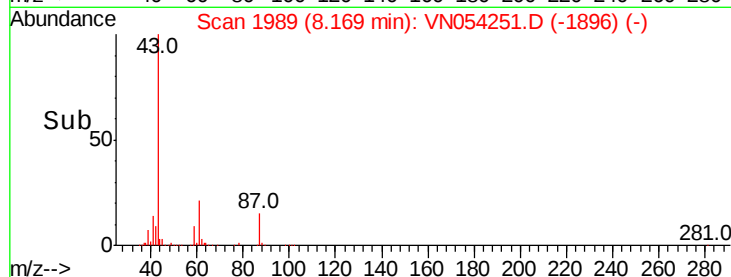
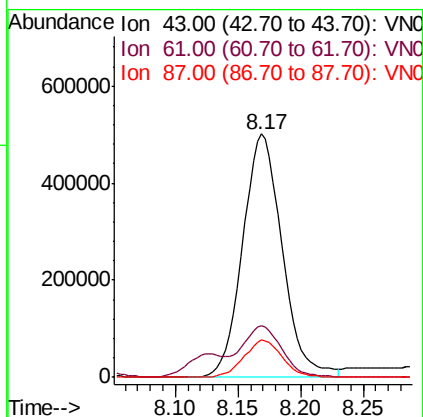
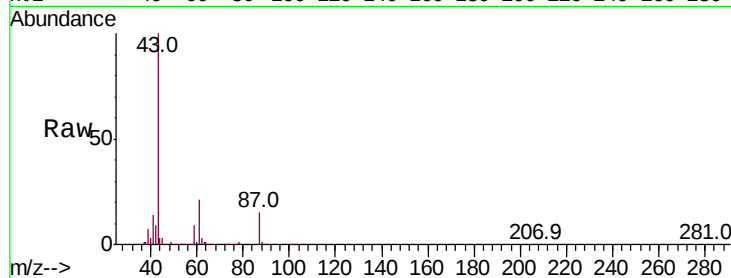
87 15.0 12.0 18.0

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#44

Trichloroethene

Concen: 49.597 ug/l

RT: 8.83 min Scan# 2196

Delta R.T. 0.00 min

Lab File: VN054251.D

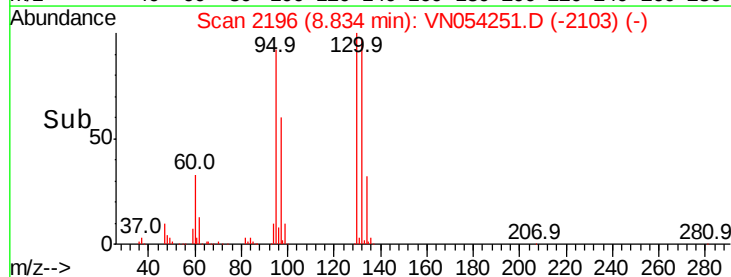
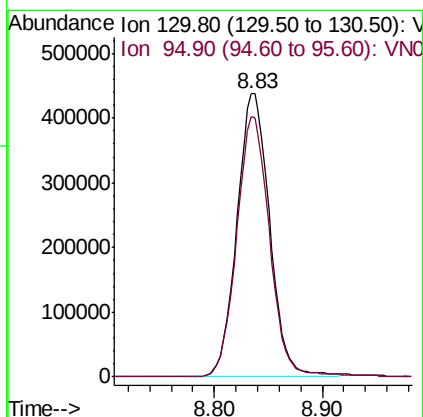
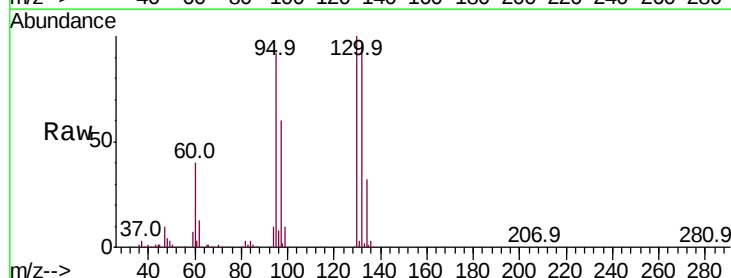
Acq: 14 Mar 2019 9:14

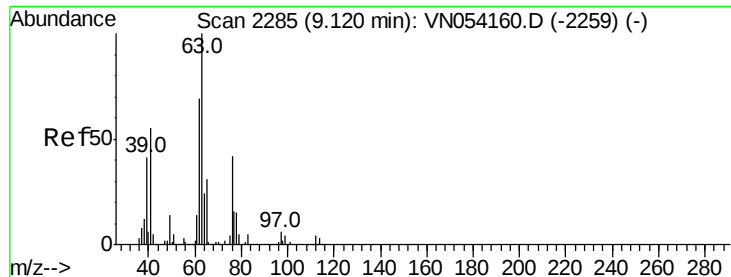
Tgt Ion:130 Resp: 927103

Ion Ratio Lower Upper

130 100

95 92.0 0.0 185.2





#45

1,2-Dichloropropane

Concen: 51.613 ug/l

RT: 9.12 min Scan# 2285

Delta R.T. 0.00 min

Lab File: VN054251.D

Acq: 14 Mar 2019 9:14

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 63 Resp: 771181

Ion Ratio Lower Upper

63 100

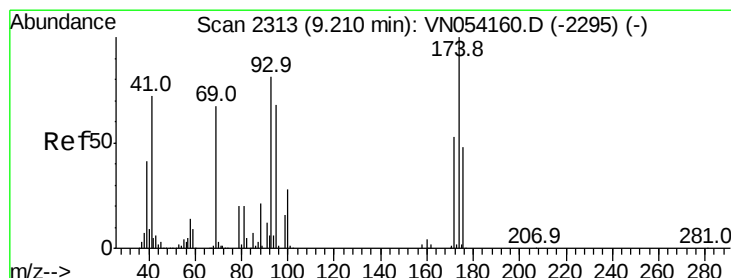
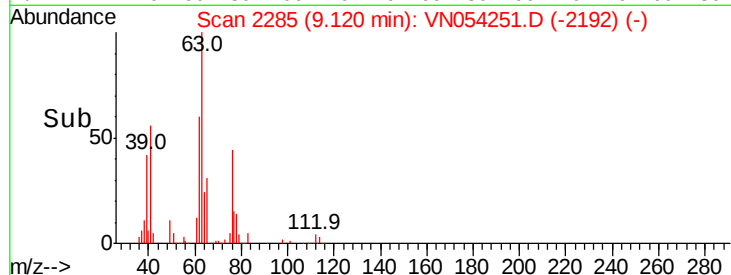
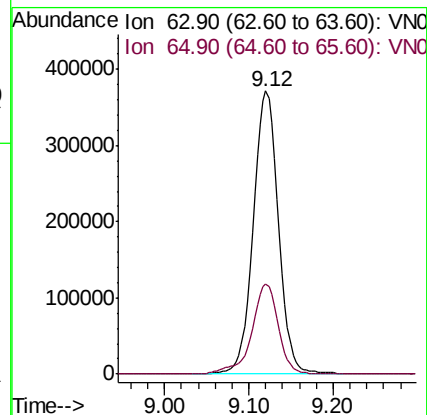
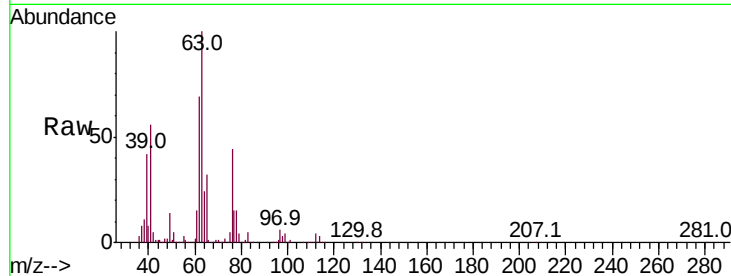
65 31.9 25.0 37.6

Manual Integrations

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#46

Dibromomethane

Concen: 51.477 ug/l

RT: 9.21 min Scan# 2313

Delta R.T. 0.00 min

Lab File: VN054251.D

Acq: 14 Mar 2019 9:14

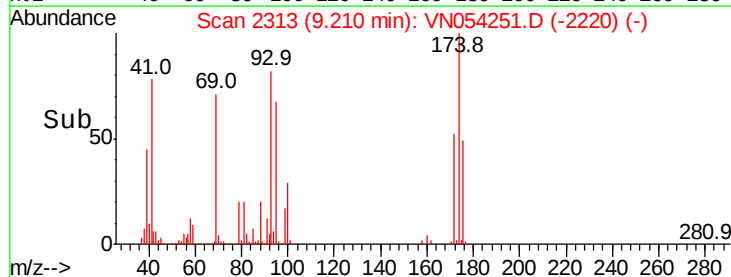
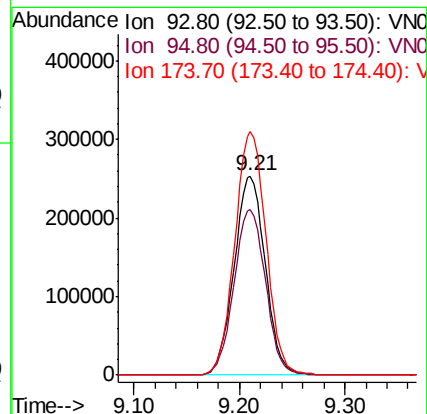
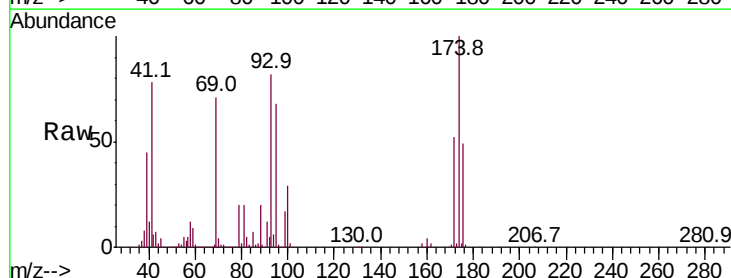
Tgt Ion: 93 Resp: 519689

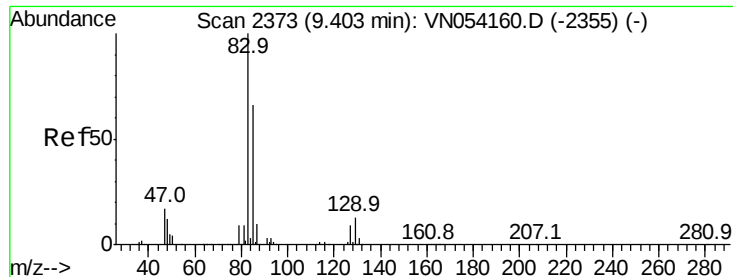
Ion Ratio Lower Upper

93 100

95 83.9 66.7 100.1

174 122.7 98.5 147.7





#47

Bromodichloromethane

Concen: 51.924 ug/l

RT: 9.40 min Scan# 2373

Delta R.T. 0.00 min

Lab File: VN054251.D

Acq: 14 Mar 2019 9:14

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 83 Resp: 1050880

Ion Ratio Lower Upper

83 100

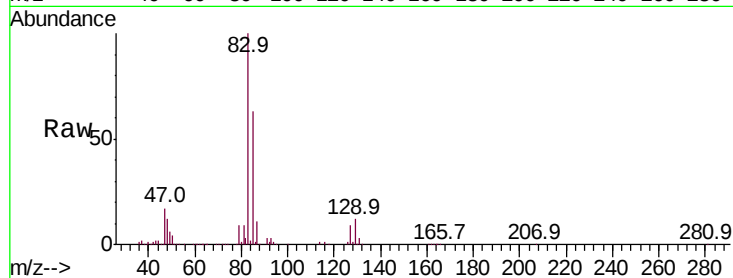
85 63.4 52.8 79.2

127 9.2 7.4 11.2

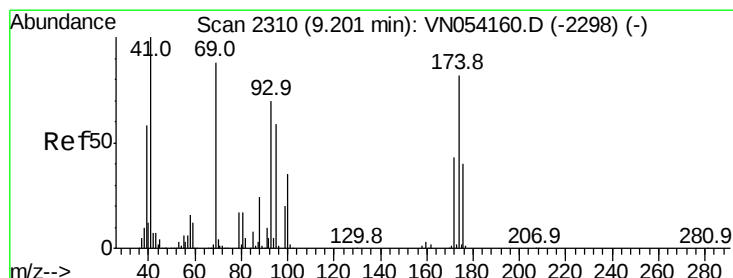
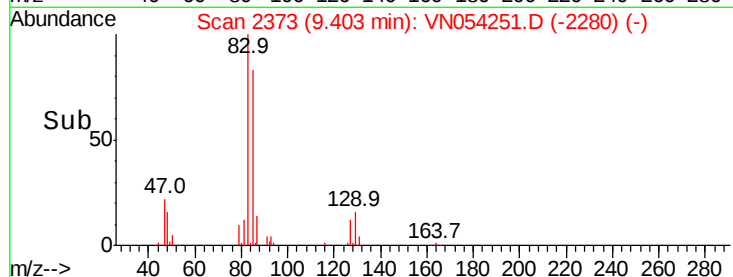
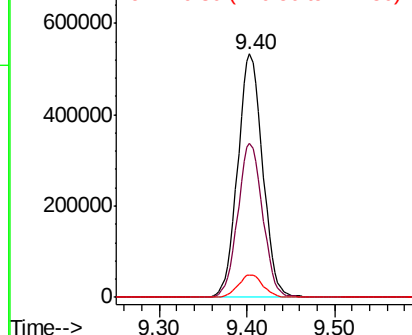
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Abundance Ion 82.90 (82.60 to 83.60): VNO
Ion 84.90 (84.60 to 85.60): VNO
Ion 126.80 (126.50 to 127.50): VNO



#48

Methyl methacrylate

Concen: 53.391 ug/l

RT: 9.20 min Scan# 2310

Delta R.T. 0.00 min

Lab File: VN054251.D

Acq: 14 Mar 2019 9:14

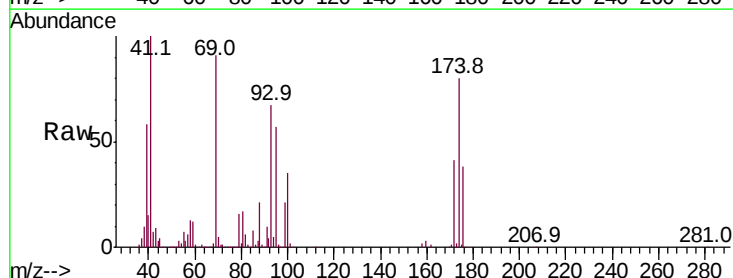
Tgt Ion: 41 Resp: 574633

Ion Ratio Lower Upper

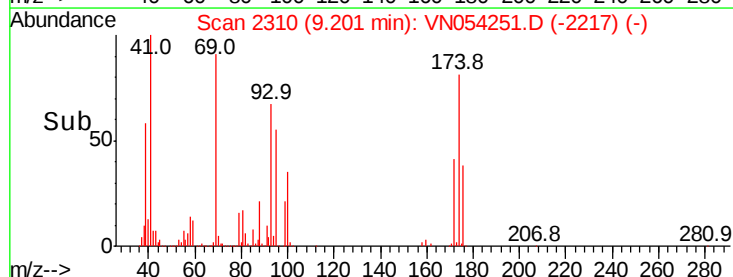
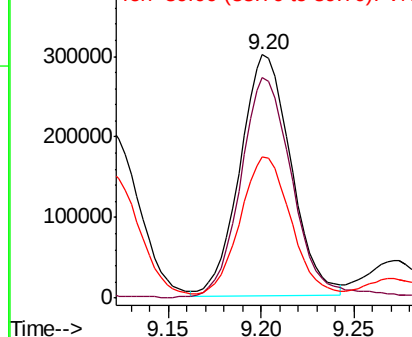
41 100

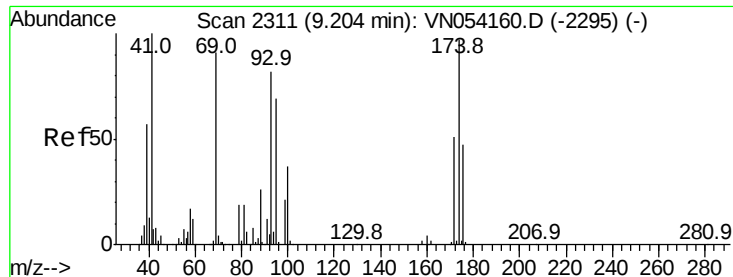
69 93.6 72.6 108.8

39 59.0 47.5 71.3



Abundance Ion 41.00 (40.70 to 41.70): VNO
Ion 69.00 (68.70 to 69.70): VNO
Ion 39.00 (38.70 to 39.70): VNO





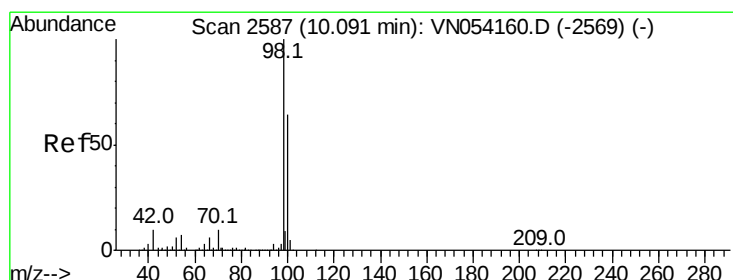
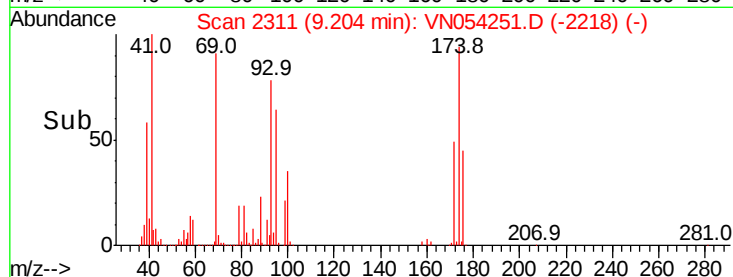
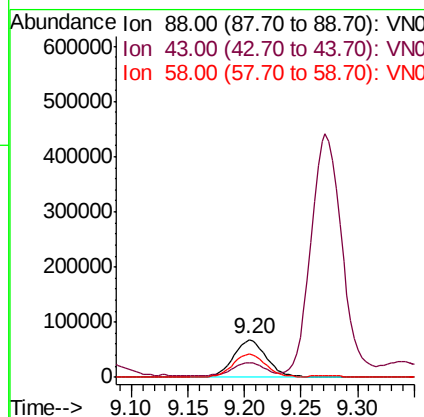
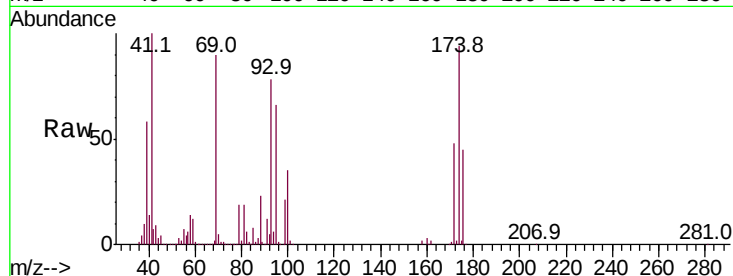
#49
1,4-Dioxane
Concen: 917.565 ug/l
RT: 9.20 min Scan# 2311
Delta R.T. 0.00 min
Lab File: VN054251.D
Acq: 14 Mar 2019 9:14

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
88	100		
43	32.4	24.1	36.1
58	62.0	50.8	76.2

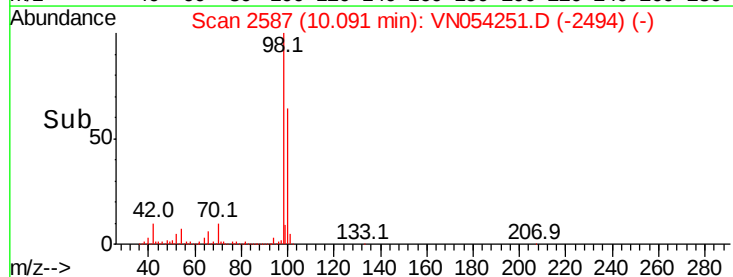
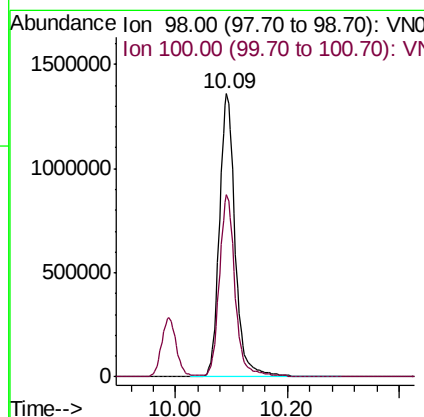
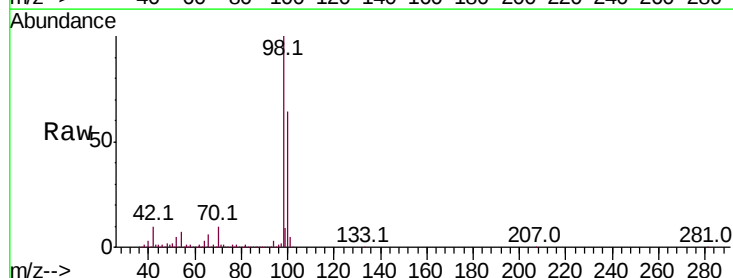
Manual Integrations
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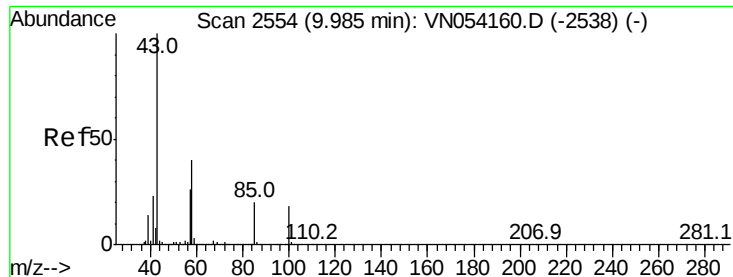
MMDadoda
3/23/2019 1:18:33 AM



#50
Toluene-d8
Concen: 48.941 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN054251.D
Acq: 14 Mar 2019 9:14

Tgt Ion	Ratio	Lower	Upper
98	100		
100	64.6	51.2	76.8





#51

4-Methyl-2-Pentanone

Concen: 269.740 ug/l

RT: 9.99 min Scan# 2555

Delta R.T. 0.00 min

Lab File: VN054251.D

Acq: 14 Mar 2019 9:14

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 43 Resp: 3027414

Ion Ratio Lower Upper

43 100

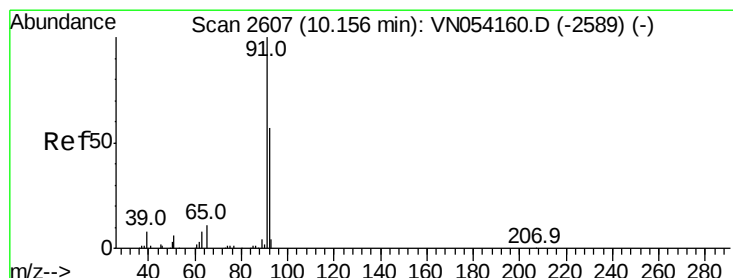
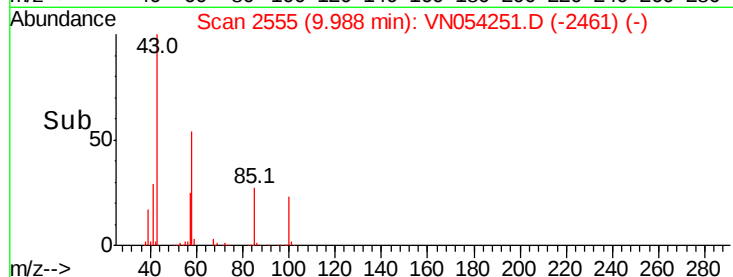
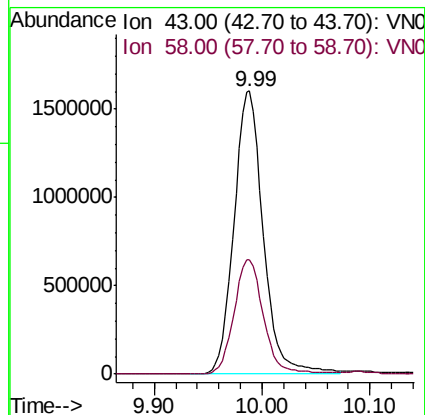
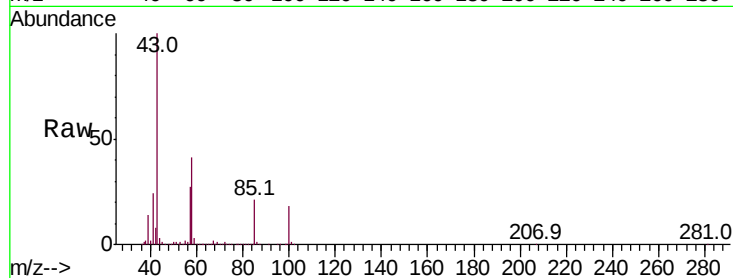
58 40.9 31.8 47.6

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3/23/2019 1:18:33 AM



#52

Toluene

Concen: 50.870 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VN054251.D

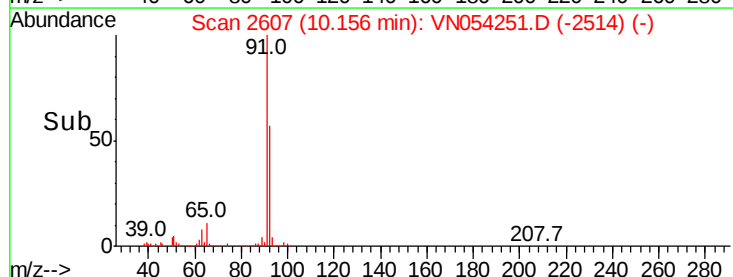
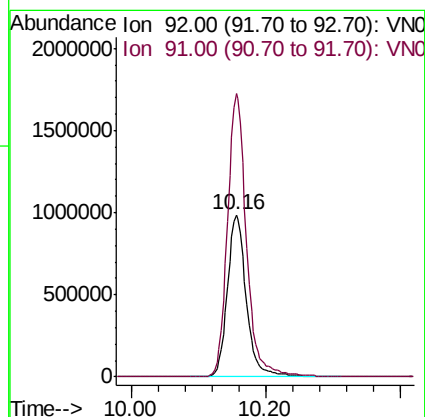
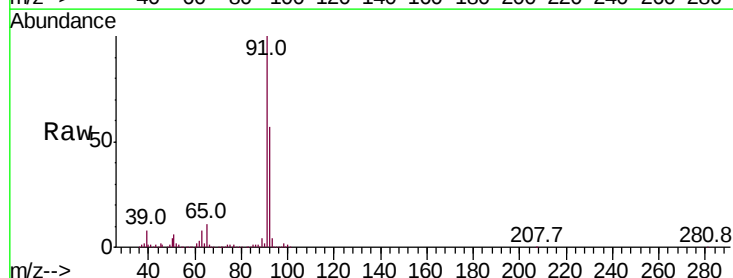
Acq: 14 Mar 2019 9:14

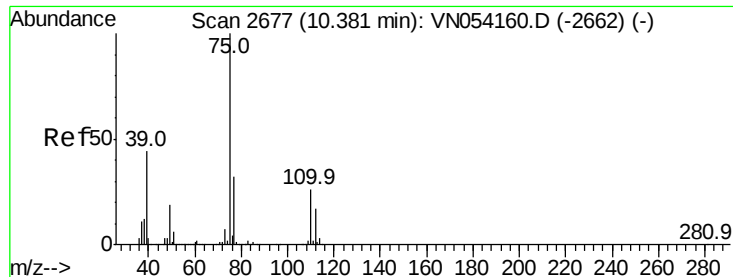
Tgt Ion: 92 Resp: 1940915

Ion Ratio Lower Upper

92 100

91 175.8 140.7 211.1





#53

t-1,3-Dichloropropene

Concen: 42.343 ug/l

RT: 10.38 min Scan# 2678

Delta R.T. 0.00 min

Lab File: VN054251.D

Acq: 14 Mar 2019 9:14

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 75 Resp: 972832

Ion Ratio Lower Upper

75 100

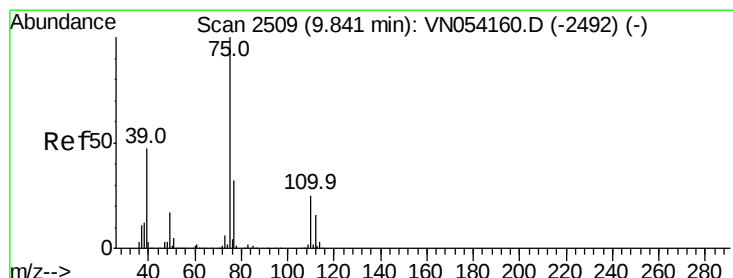
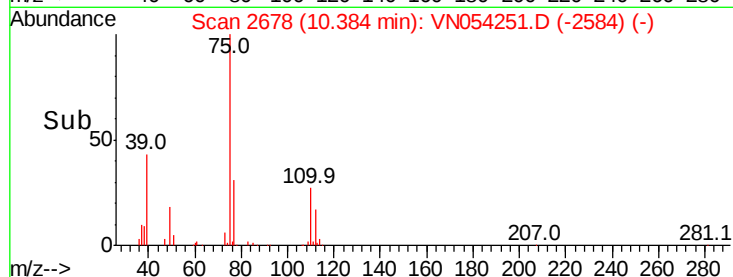
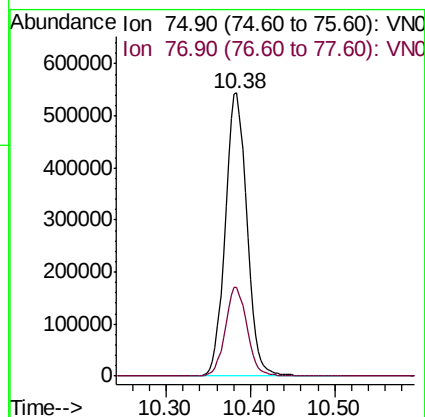
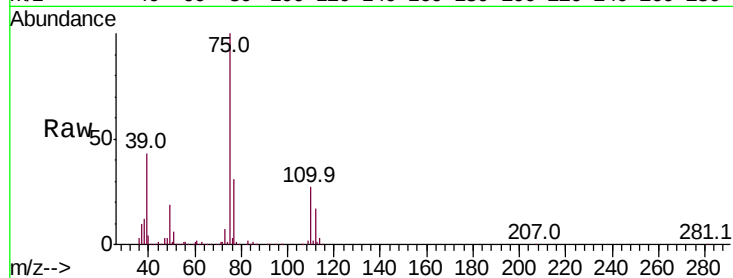
77 31.1 25.8 38.8

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#54

cis-1,3-Dichloropropene

Concen: 47.684 ug/l

RT: 9.84 min Scan# 2509

Delta R.T. 0.00 min

Lab File: VN054251.D

Acq: 14 Mar 2019 9:14

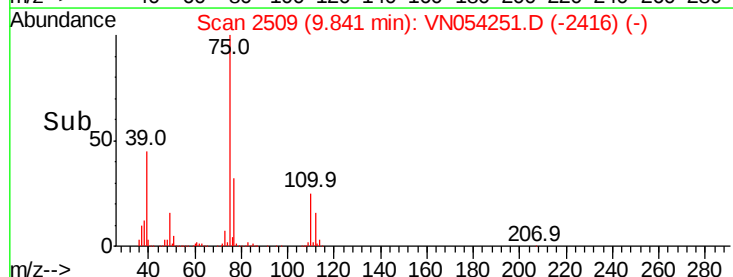
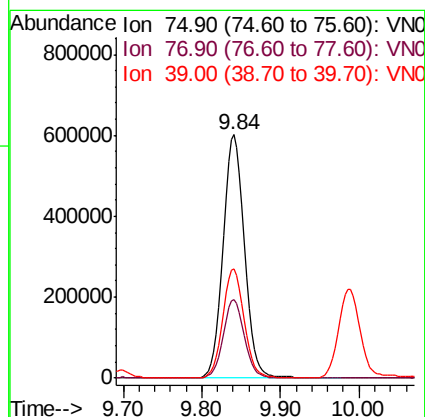
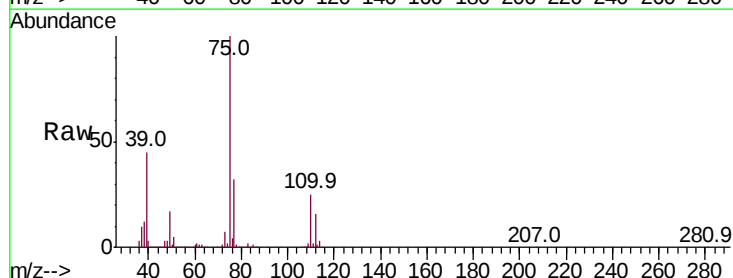
Tgt Ion: 75 Resp: 1124618

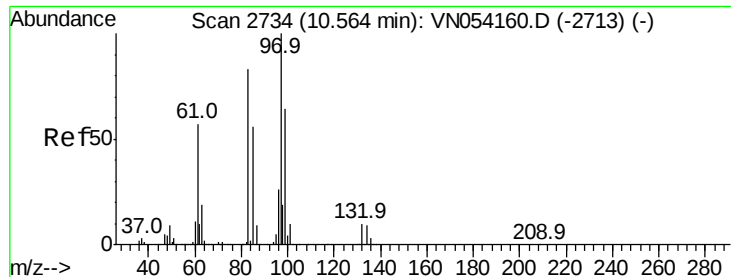
Ion Ratio Lower Upper

75 100

77 32.3 25.4 38.0

39 44.9 37.2 55.8





#55

1,1,2-Trichloroethane

Concen: 52.633 ug/l

RT: 10.56 min Scan# 2734

Delta R.T. 0.00 min

Lab File: VN054251.D

Acq: 14 Mar 2019 9:14

Instrument :

MSVOA_N

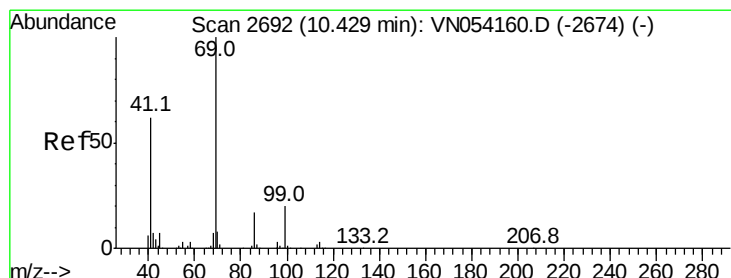
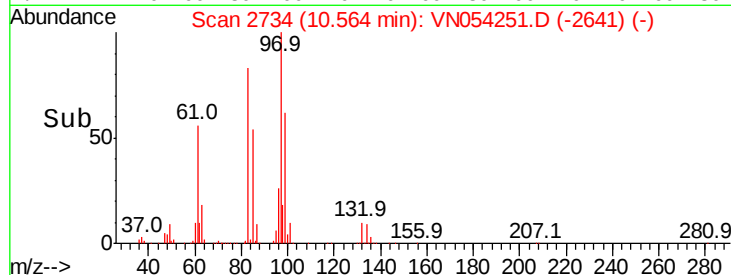
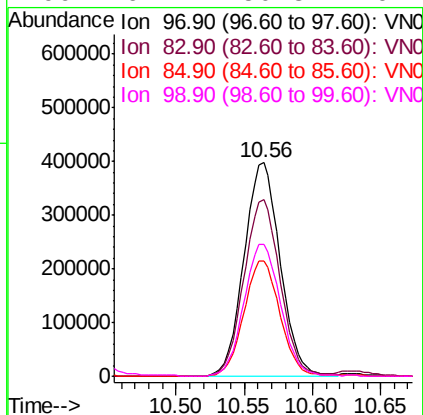
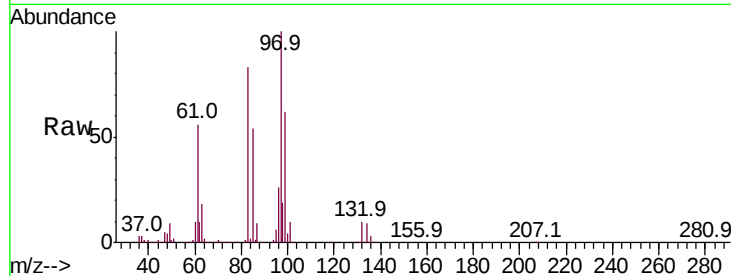
ClientSampleId :

VSTDCCC050EC

Tot Ion	Ion	Ratio	Lower	Upper
97	100			
83	82.6	66.6	100.0	
85	54.0	44.4	66.6	
99	61.7	50.8	76.2	

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#56

Ethyl methacrylate

Concen: 54.462 ug/l

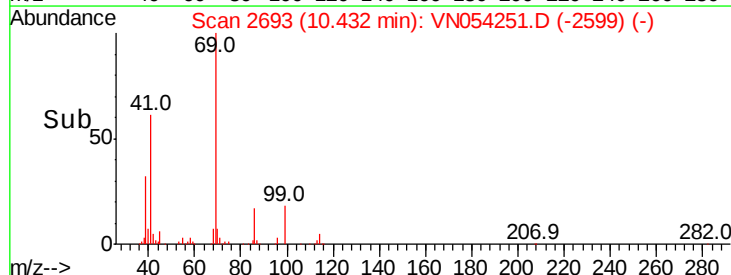
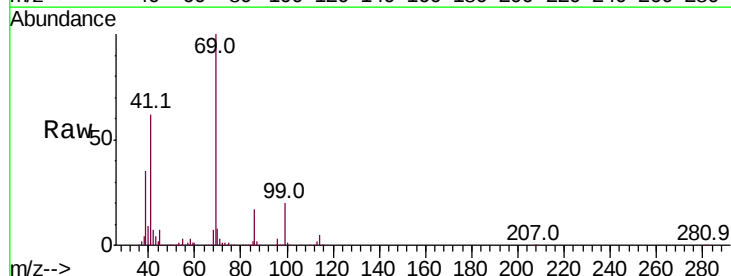
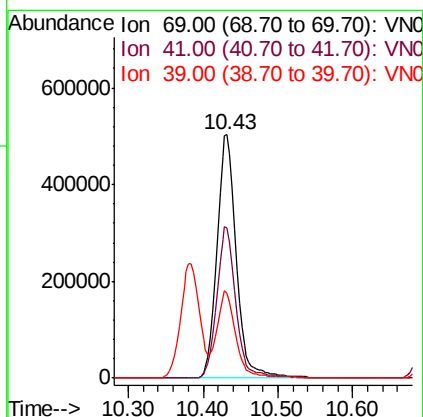
RT: 10.43 min Scan# 2693

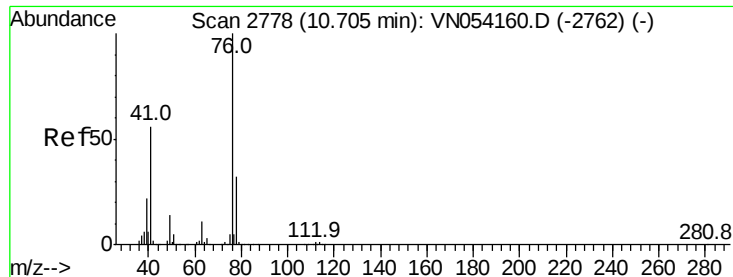
Delta R.T. 0.00 min

Lab File: VN054251.D

Acq: 14 Mar 2019 9:14

Tgt Ion	Ion	Ratio	Lower	Upper
69	100			
41	61.0	49.4	74.2	
39	34.5	28.3	42.5	





#57

1,3-Dichloropropane

Concen: 51.963 ug/l

RT: 10.71 min Scan# 2779

Delta R.T. 0.00 min

Lab File: VN054251.D

Acq: 14 Mar 2019 9:14

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 76 Resp: 1183725

Ion Ratio Lower Upper

76 100

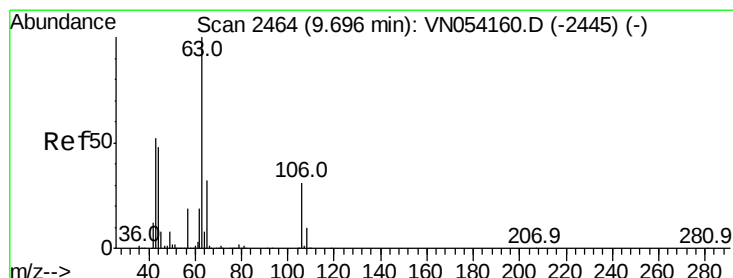
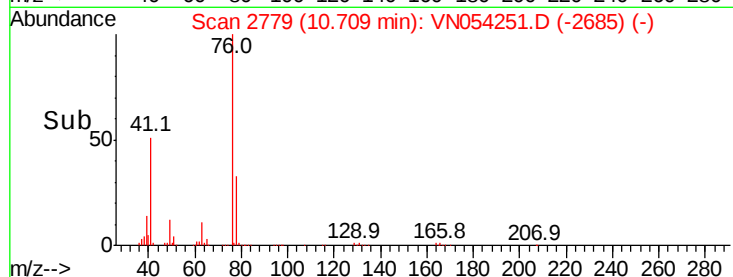
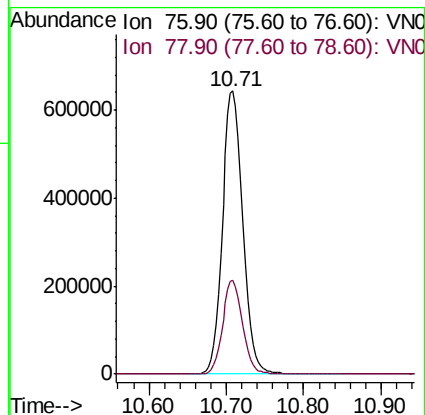
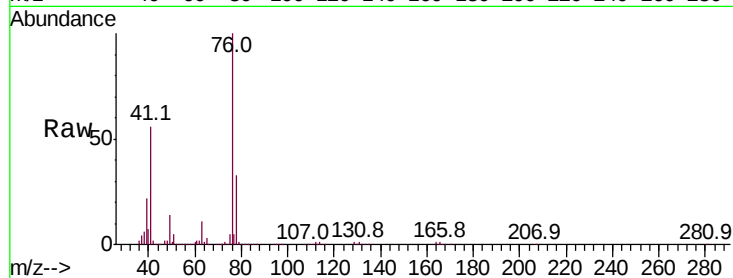
78 32.4 25.7 38.5

Manual Integrations

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3/23/2019 1:18:33 AM



#58

2-Chloroethyl Vinyl ether

Concen: 236.915 ug/l

RT: 9.70 min Scan# 2464

Delta R.T. 0.00 min

Lab File: VN054251.D

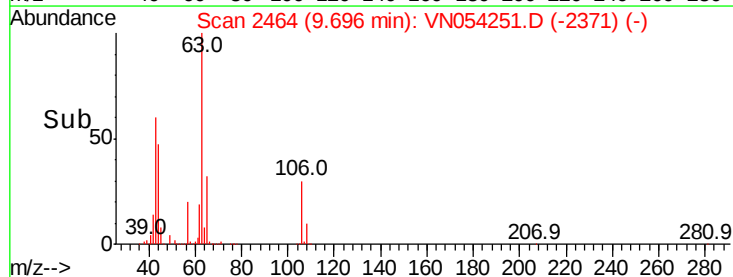
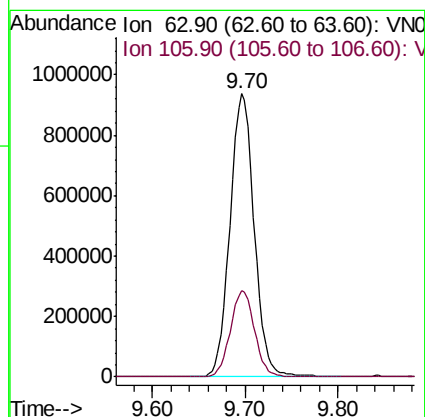
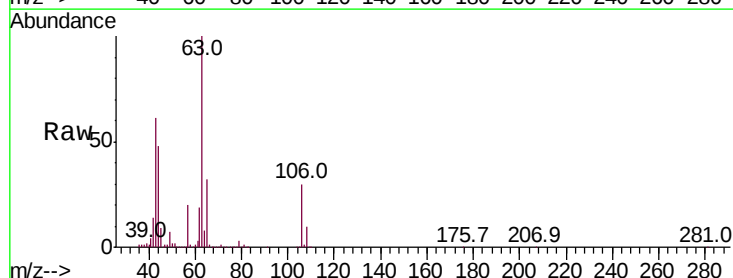
Acq: 14 Mar 2019 9:14

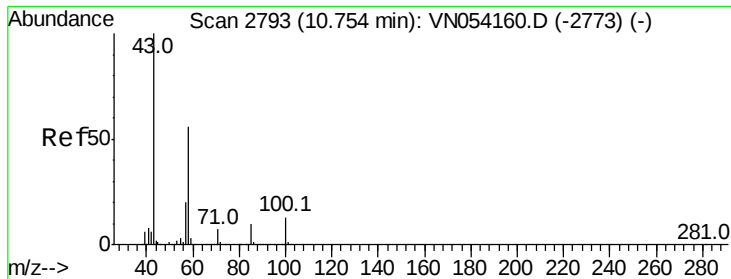
Tgt Ion: 63 Resp: 1700603

Ion Ratio Lower Upper

63 100

106 30.2 24.4 36.6





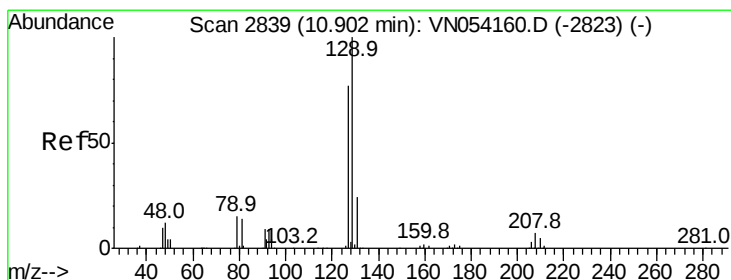
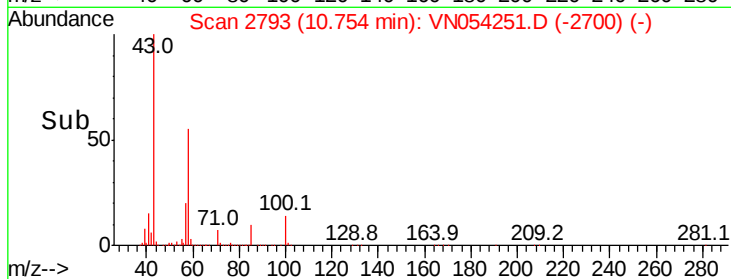
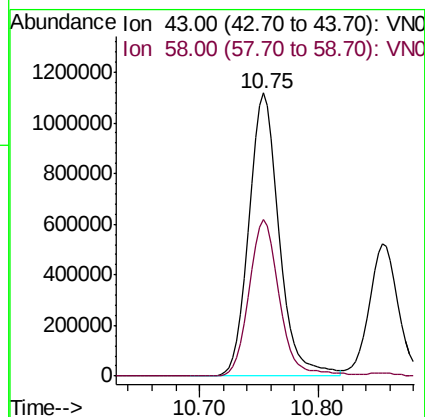
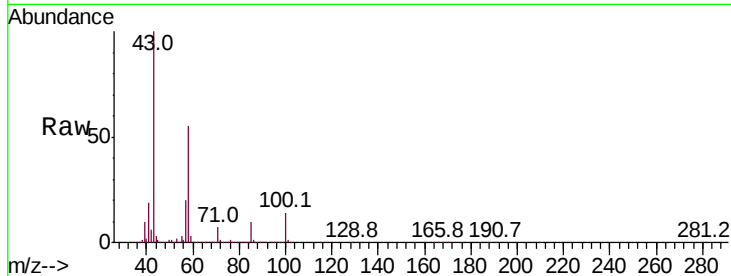
#59
2-Hexanone
Concen: 261.965 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.00 min
Lab File: VN054251.D
Acq: 14 Mar 2019 9:14

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion: 43 Resp: 1956370
Ion Ratio Lower Upper
43 100
58 56.0 28.0 83.9

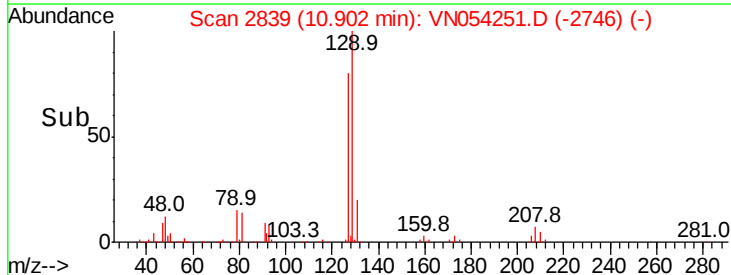
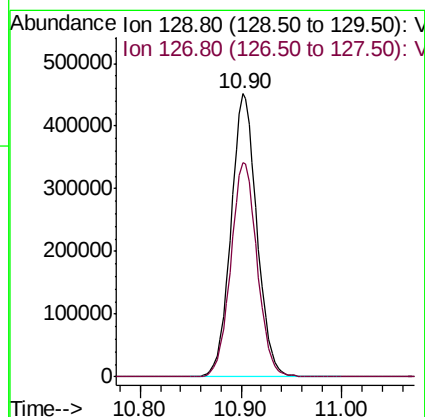
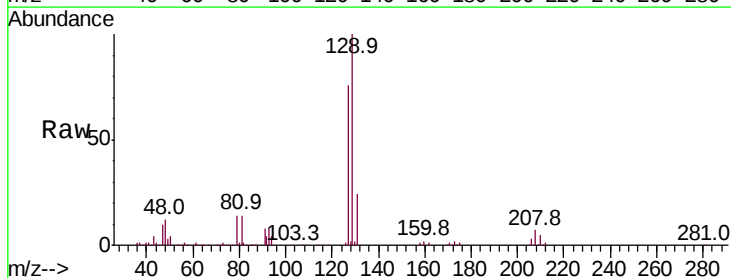
Manual Integrations
APPROVED

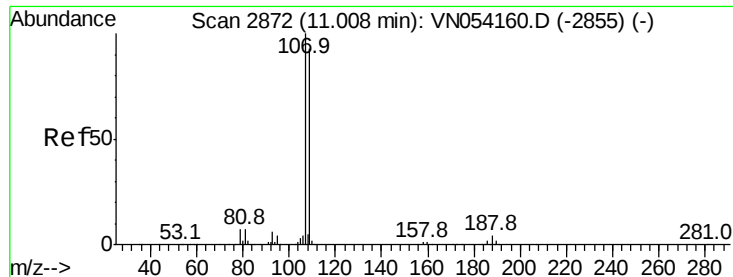
MMDadoda
3/23/2019 1:18:33 AM



#60
Dibromochloromethane
Concen: 51.489 ug/l
RT: 10.90 min Scan# 2839
Delta R.T. 0.00 min
Lab File: VN054251.D
Acq: 14 Mar 2019 9:14

Tgt Ion: 129 Resp: 807385
Ion Ratio Lower Upper
129 100
127 77.0 38.6 115.8





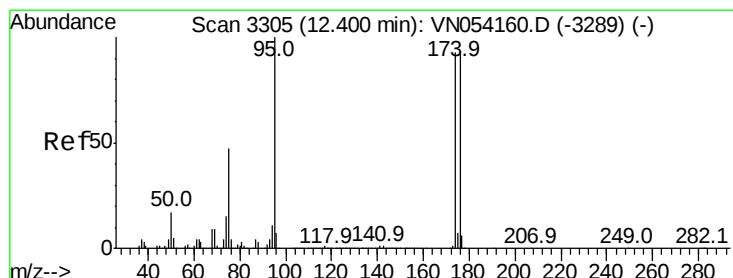
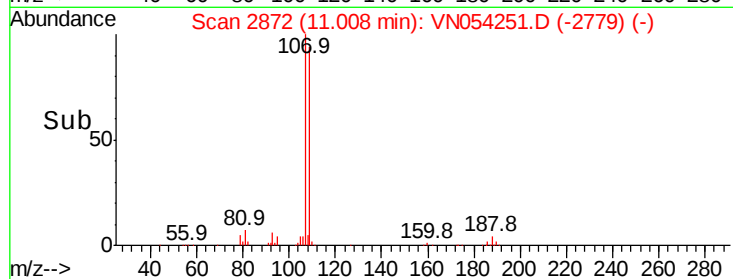
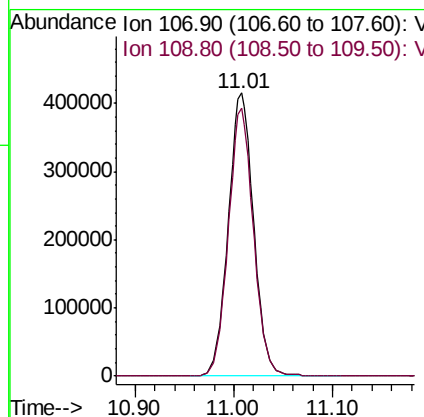
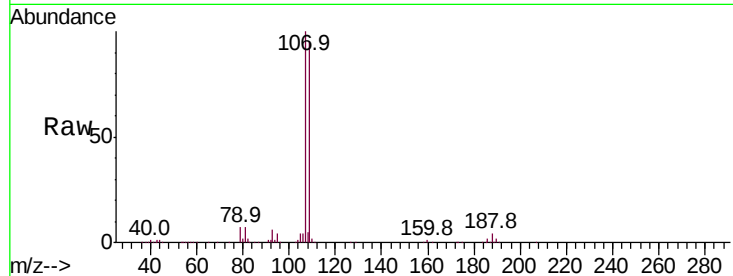
#61
 1,2-Dibromoethane
 Concen: 52.690 ug/l
 RT: 11.01 min Scan# 2872
 Delta R.T. 0.00 min
 Lab File: VN054251.D
 Acq: 14 Mar 2019 9:14

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
107	100		
109	93.7	75.9	113.9

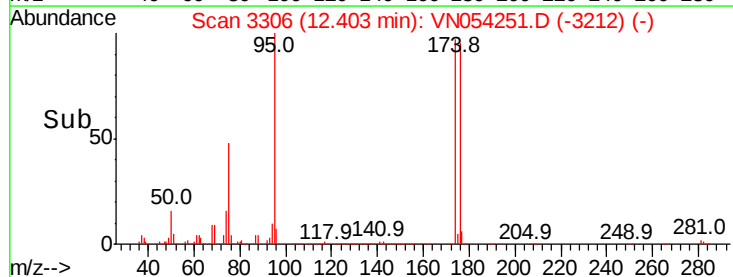
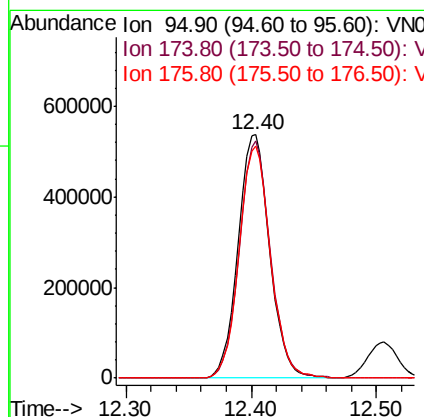
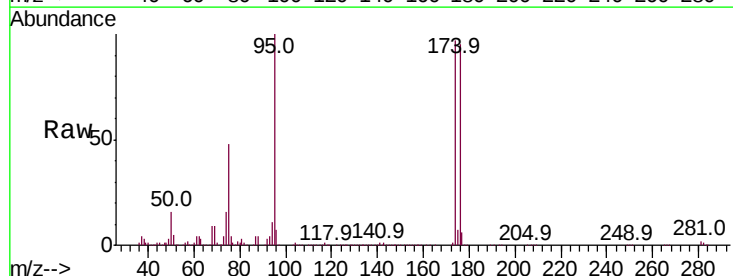
Manual Integrations
 APPROVED

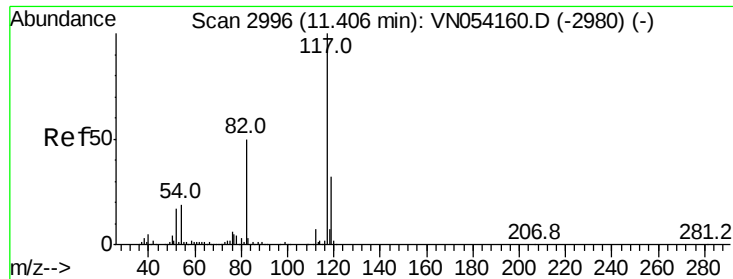
MMDadoda
 3/23/2019 1:18:33 AM



#62
 4-Bromofluorobenzene
 Concen: 49.350 ug/l
 RT: 12.40 min Scan# 3306
 Delta R.T. 0.00 min
 Lab File: VN054251.D
 Acq: 14 Mar 2019 9:14

Tgt Ion	Ratio	Lower	Upper
95	100		
174	96.0	0.0	191.0
176	94.8	0.0	187.4





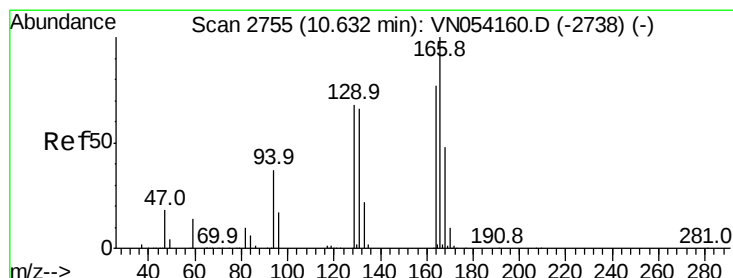
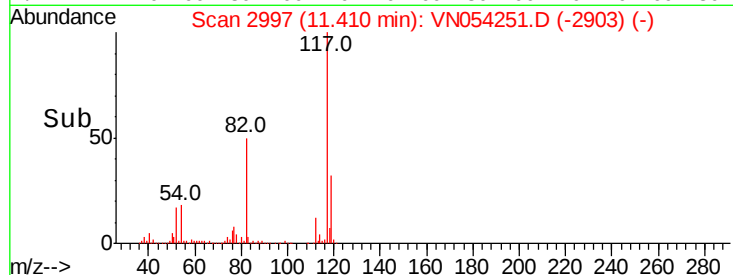
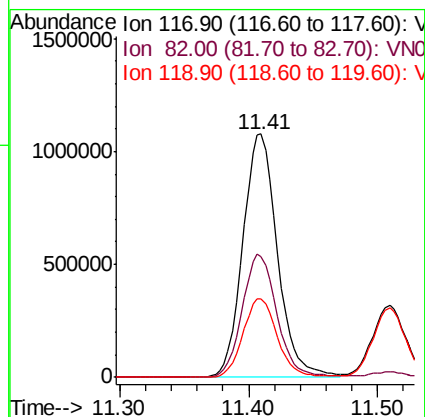
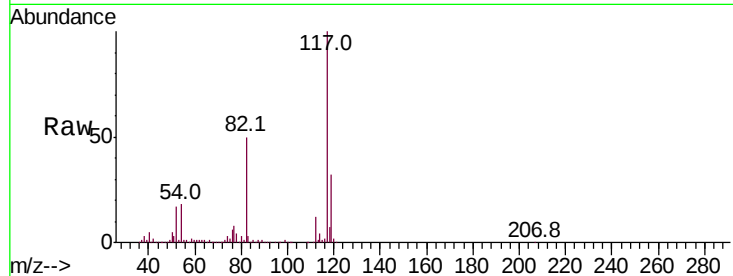
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN054251.D
Acq: 14 Mar 2019 9:14

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
117	100		
82	49.8	40.0	60.0
119	32.3	25.8	38.6

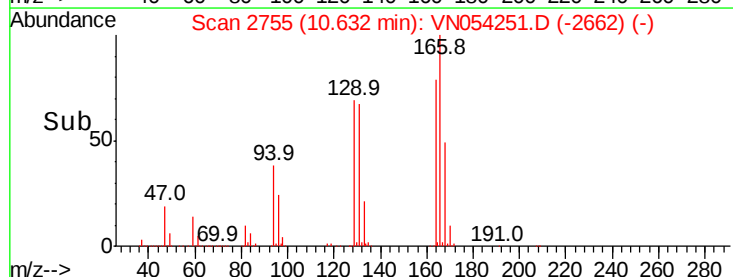
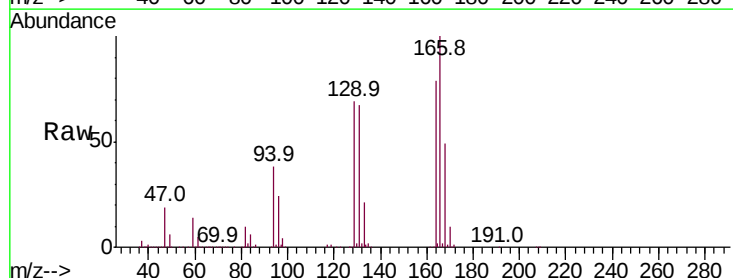
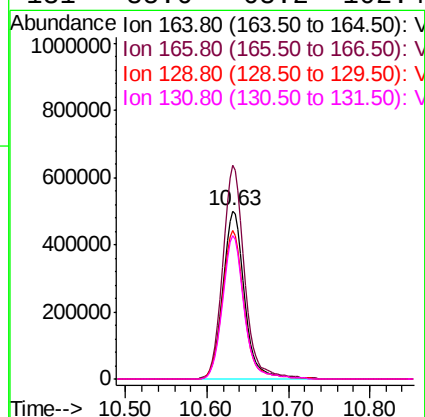
Manual Integrations
APPROVED

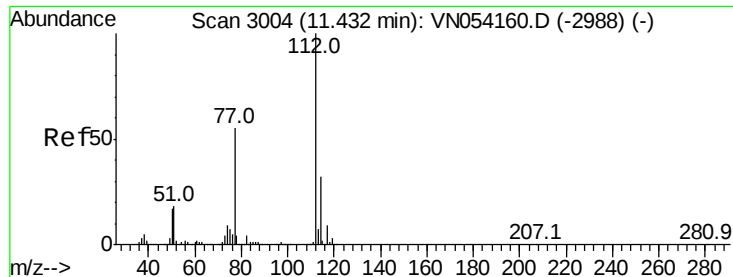
MMDadoda
3/23/2019 1:18:33 AM



#64
Tetrachloroethene
Concen: 48.688 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. 0.00 min
Lab File: VN054251.D
Acq: 14 Mar 2019 9:14

Tgt Ion	Ratio	Lower	Upper
164	100		
166	127.3	103.9	155.9
129	88.2	71.1	106.7
131	85.6	68.2	102.4





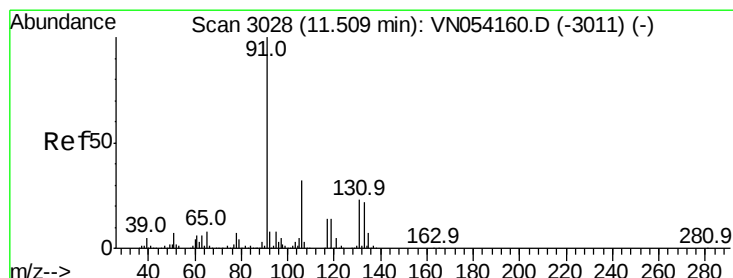
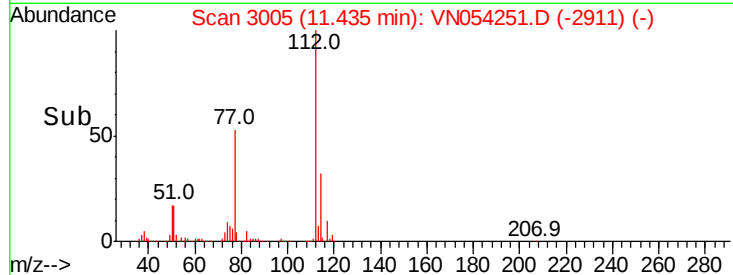
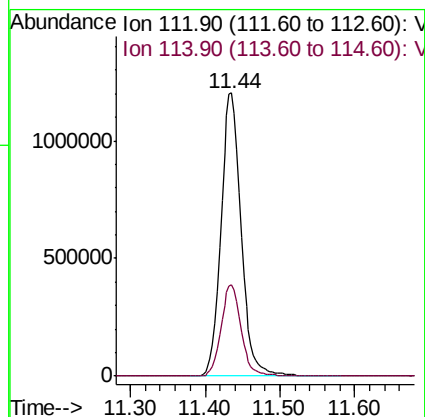
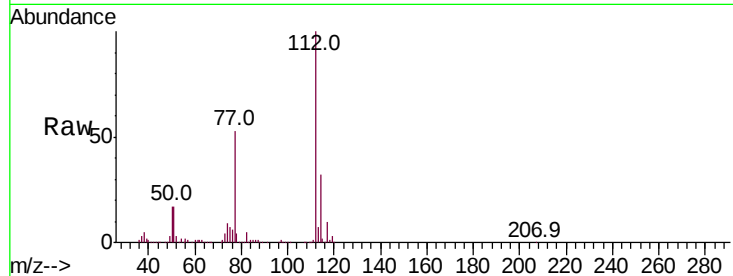
#65
Chlorobenzene
Concen: 50.735 ug/l
RT: 11.44 min Scan# 3005
Delta R.T. 0.00 min
Lab File: VN054251.D
Acq: 14 Mar 2019 9:14

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion:112 Resp: 2237274
Ion Ratio Lower Upper
112 100
114 32.2 25.9 38.9

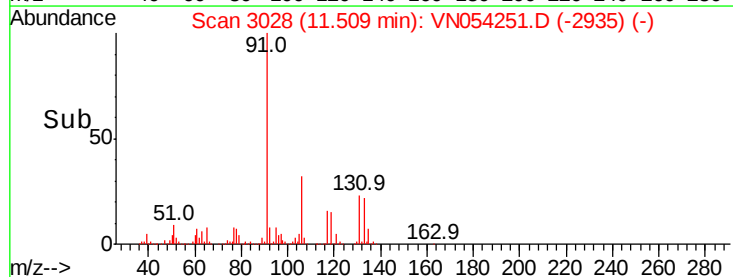
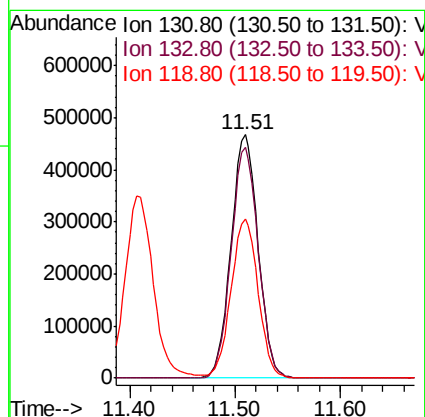
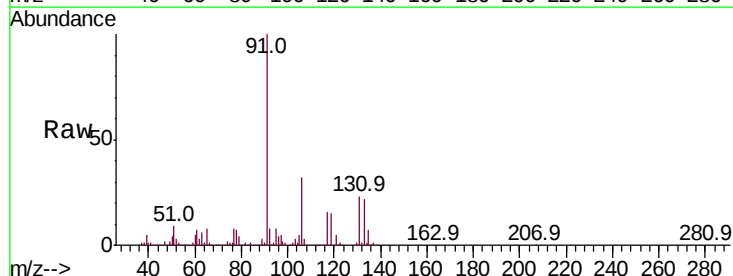
Manual Integrations
APPROVED

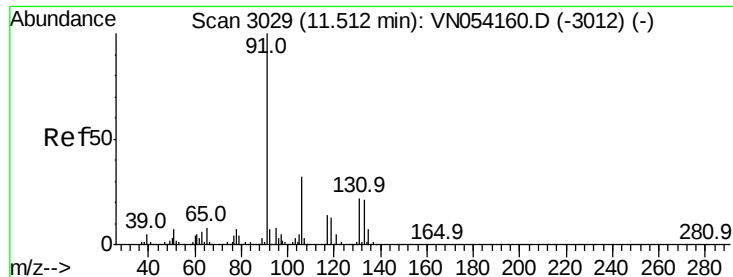
MMDadoda
3/23/2019 1:18:33 AM



#66
1,1,1,2-Tetrachloroethane
Concen: 51.590 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. 0.00 min
Lab File: VN054251.D
Acq: 14 Mar 2019 9:14

Tgt Ion:131 Resp: 826434
Ion Ratio Lower Upper
131 100
133 95.4 47.6 142.9
119 65.7 32.4 97.0





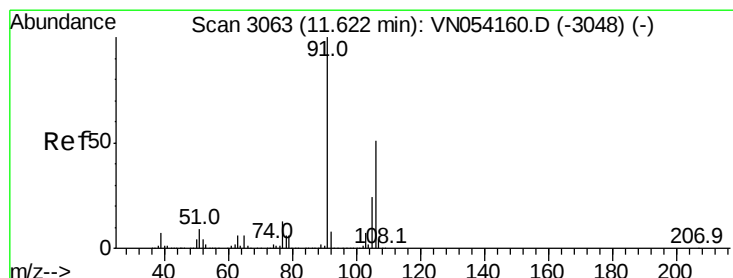
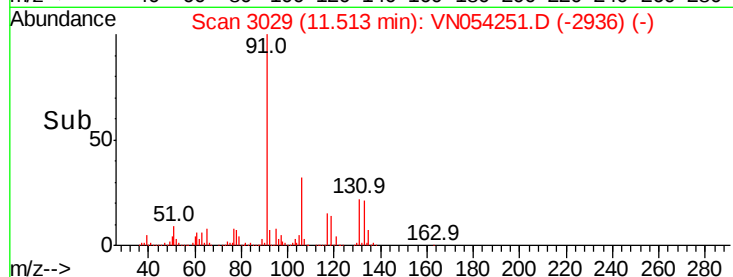
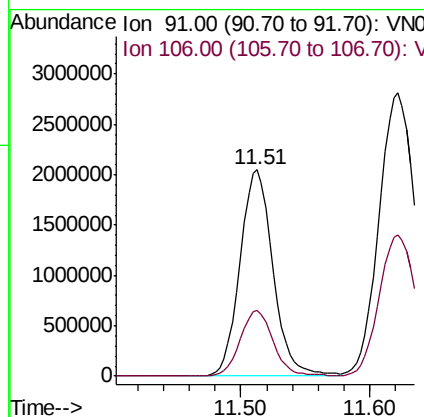
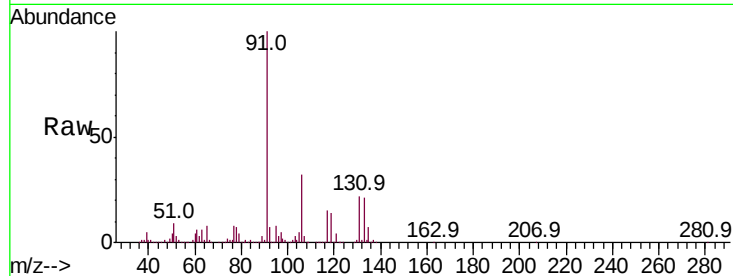
#67
Ethyl Benzene
Concen: 50.093 ug/l
RT: 11.51 min Scan# 3029
Delta R.T. 0.00 min
Lab File: VN054251.D
Acq: 14 Mar 2019 9:14

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion: 91 Resp: 3661728
Ion Ratio Lower Upper
91 100
106 31.9 25.5 38.3

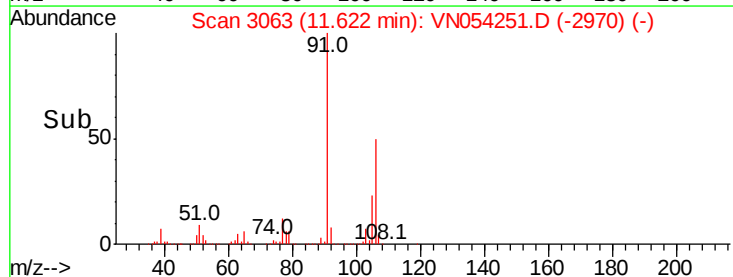
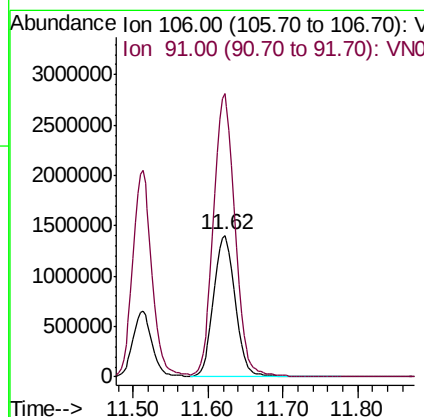
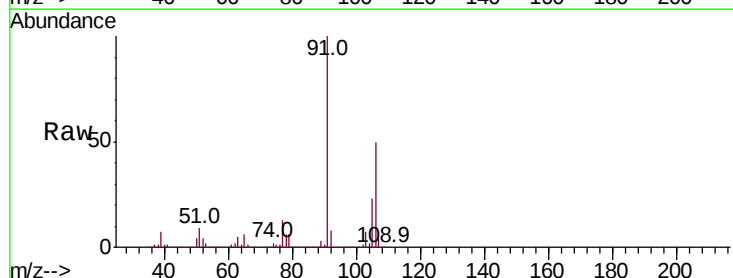
Manual Integrations
APPROVED

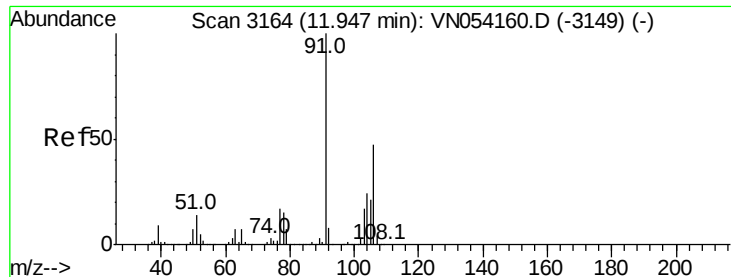
MMDadoda
3/23/2019 1:18:33 AM



#68
m/p-Xylenes
Concen: 99.769 ug/l
RT: 11.62 min Scan# 3063
Delta R.T. 0.00 min
Lab File: VN054251.D
Acq: 14 Mar 2019 9:14

Tgt Ion: 106 Resp: 2850451
Ion Ratio Lower Upper
106 100
91 199.0 159.4 239.2





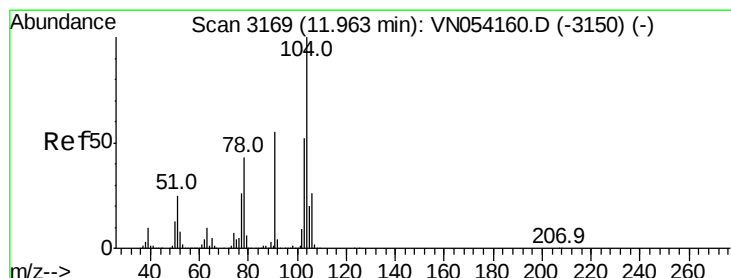
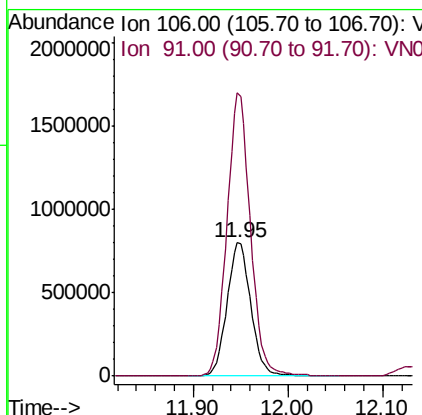
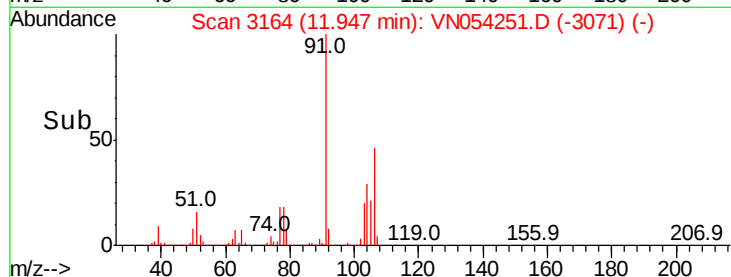
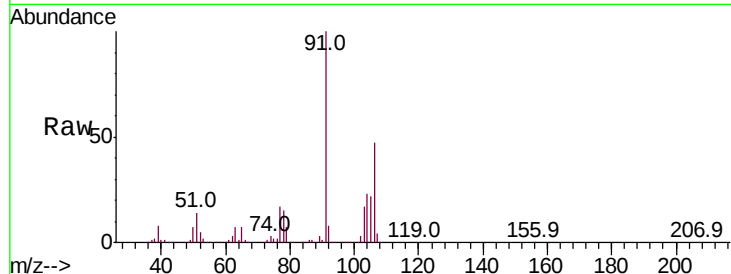
#69
o-Xylene
Concen: 50.398 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. 0.00 min
Lab File: VN054251.D
Acq: 14 Mar 2019 9:14

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion:106 Resp: 1403663
Ion Ratio Lower Upper
106 100
91 208.7 105.7 317.1

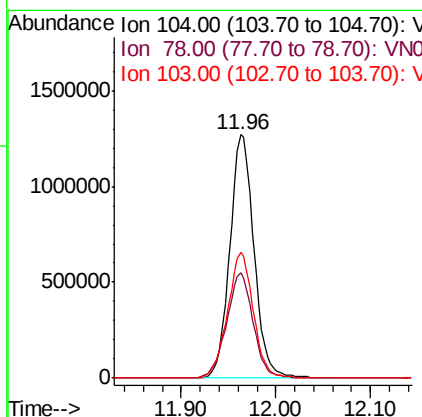
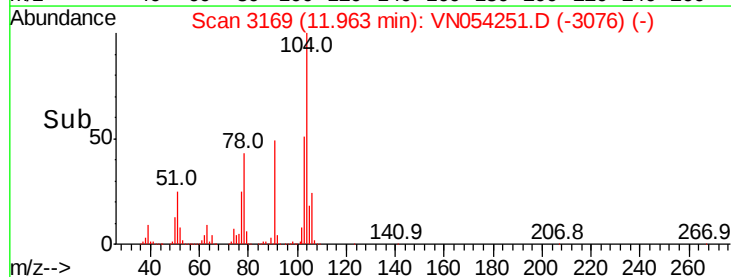
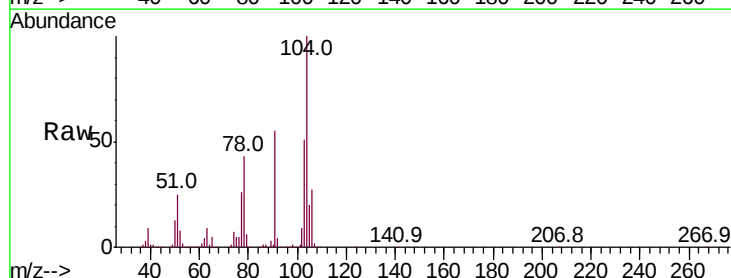
Manual Integrations
APPROVED

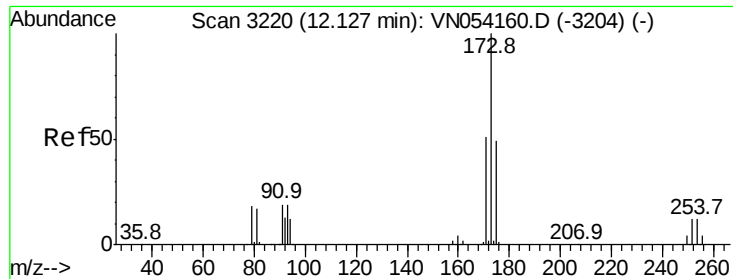
MMDadoda
3/23/2019 1:18:33 AM



#70
Styrene
Concen: 51.655 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. 0.00 min
Lab File: VN054251.D
Acq: 14 Mar 2019 9:14

Tgt Ion:104 Resp: 2256313
Ion Ratio Lower Upper
104 100
78 47.6 38.2 57.2
103 55.4 44.4 66.6





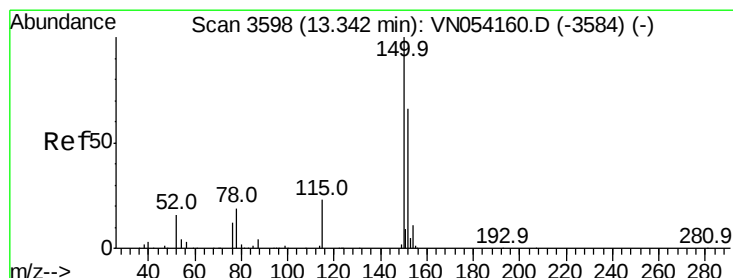
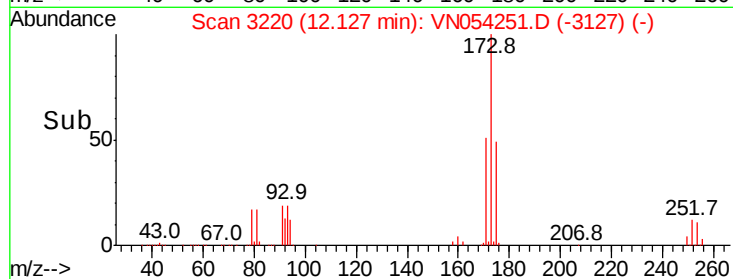
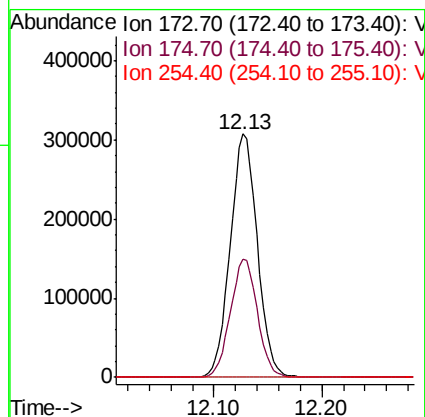
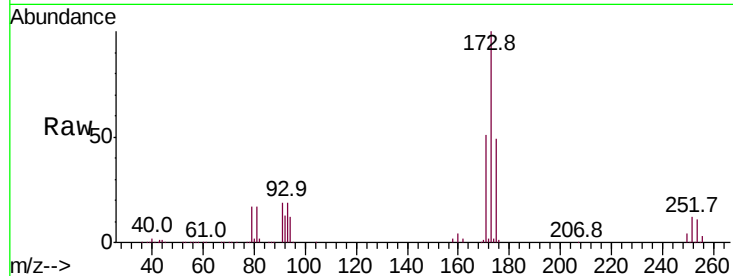
#71
Bromoform
Concen: 44.452 ug/l
RT: 12.13 min Scan# 3220
Delta R.T. 0.00 min
Lab File: VN054251.D
Acq: 14 Mar 2019 9:14

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
173	100		
175	48.6	24.4	73.2
254	0.1	0.1	0.1#

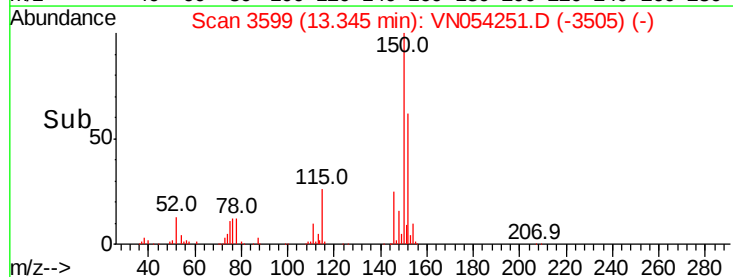
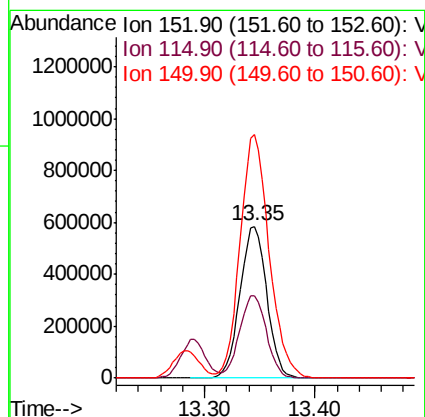
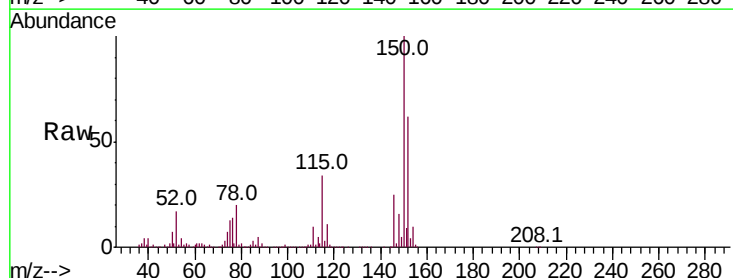
Manual Integrations
APPROVED

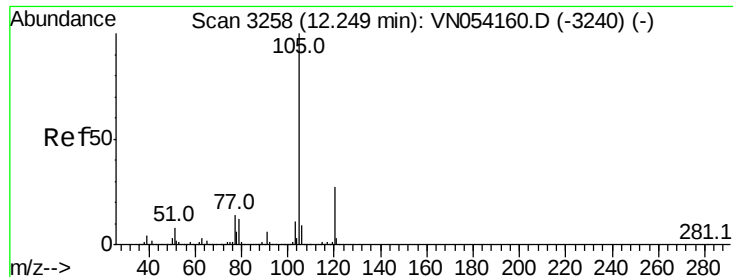
MMDadoda
3/23/2019 1:18:33 AM



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3599
Delta R.T. 0.00 min
Lab File: VN054251.D
Acq: 14 Mar 2019 9:14

Tgt Ion	Ratio	Lower	Upper
152	100		
115	54.5	27.2	81.6
150	173.4	0.0	349.2





#73

Isopropylbenzene

Concen: 46.863 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. 0.00 min

Lab File: VN054251.D

Acq: 14 Mar 2019 9:14

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion:105 Resp: 3689748

Ion Ratio Lower Upper

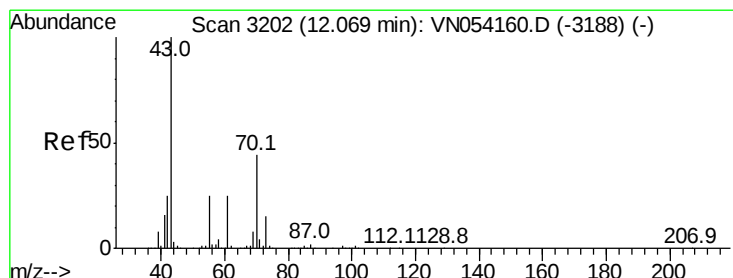
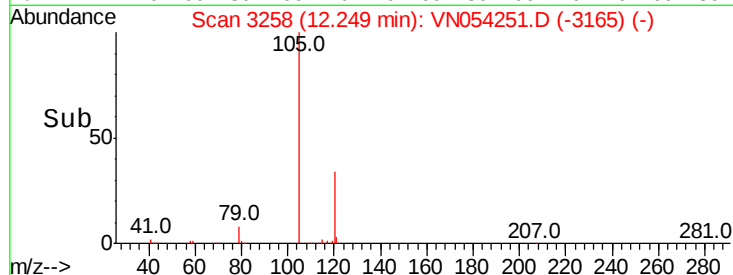
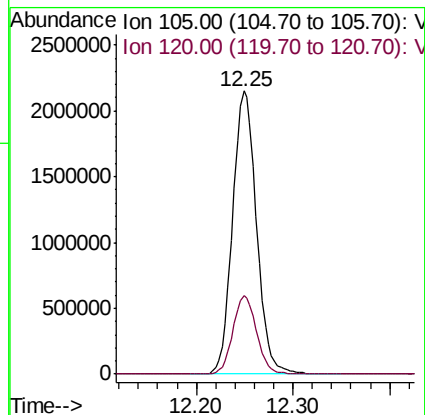
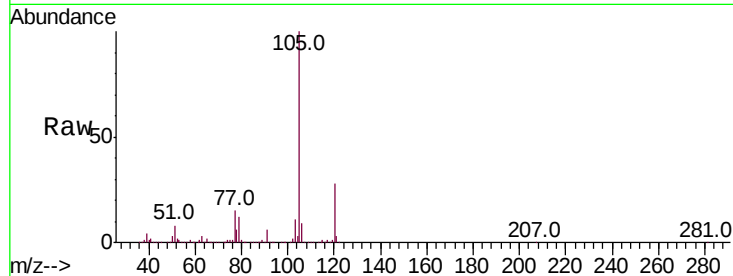
105 100

120 27.5 13.8 41.3

Manual Integrations
APPROVED

MMDadoda

3/23/2019 1:18:33 AM



#74

N-ethyl acetate

Concen: 51.673 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. 0.00 min

Lab File: VN054251.D

Acq: 14 Mar 2019 9:14

Tgt Ion: 43 Resp: 903066

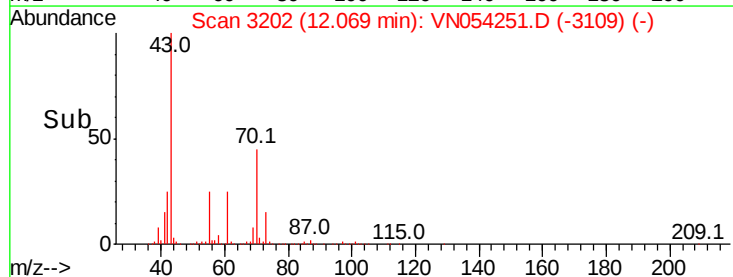
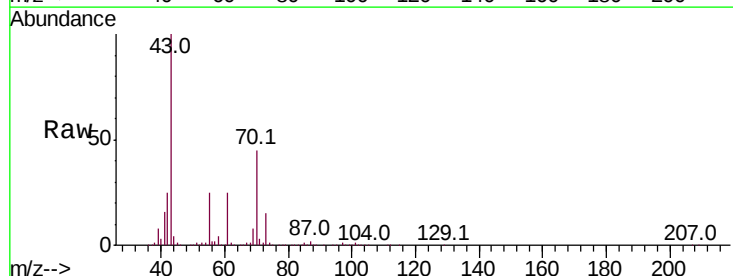
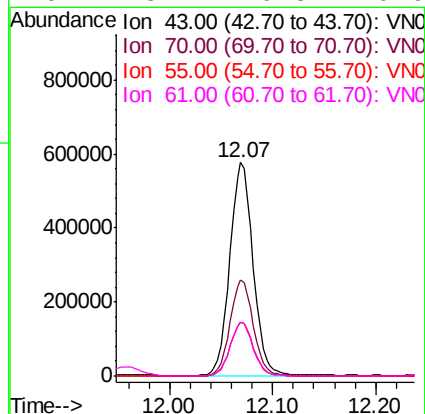
Ion Ratio Lower Upper

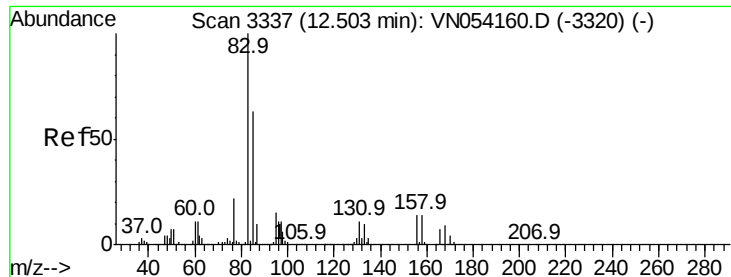
43 100

70 45.4 35.4 53.0

55 25.7 19.8 29.6

61 25.2 19.8 29.6





#75

1,1,2,2-Tetrachloroethane

Concen: 49.974 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. 0.00 min

Lab File: VN054251.D

Acq: 14 Mar 2019 9:14

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 83 Resp: 838318
Ion Ratio Lower Upper

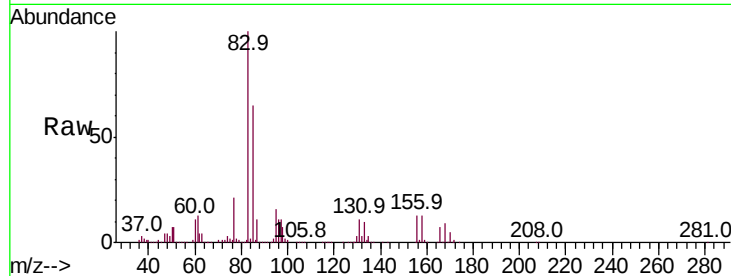
83 100

131 11.5 5.8 17.4

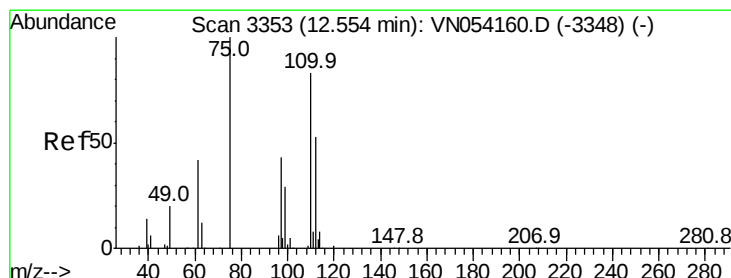
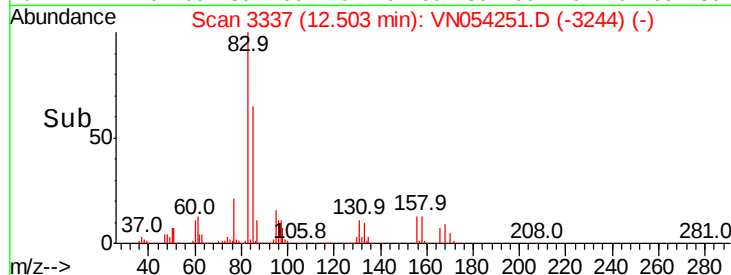
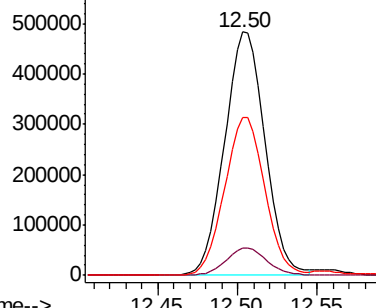
85 64.8 32.2 96.6

Manual Integrations
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MMDadoda
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Abundance Ion 82.90 (82.60 to 83.60): VNO
Ion 130.80 (130.50 to 131.50): VNO
Ion 84.90 (84.60 to 85.60): VNO



#76

1,2,3-Trichloropropane

Concen: 47.818 ug/l m

RT: 12.55 min Scan# 3353

Delta R.T. 0.00 min

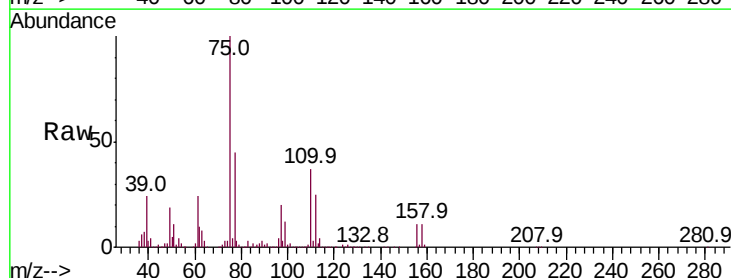
Lab File: VN054251.D

Acq: 14 Mar 2019 9:14

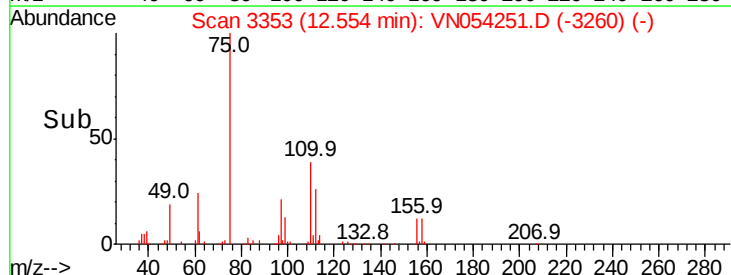
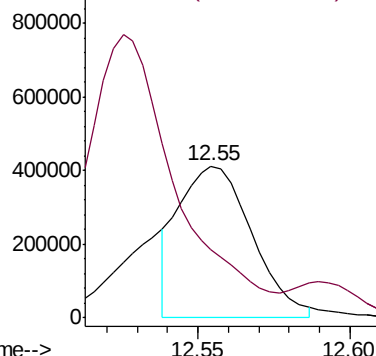
Tgt Ion: 75 Resp: 692010
Ion Ratio Lower Upper

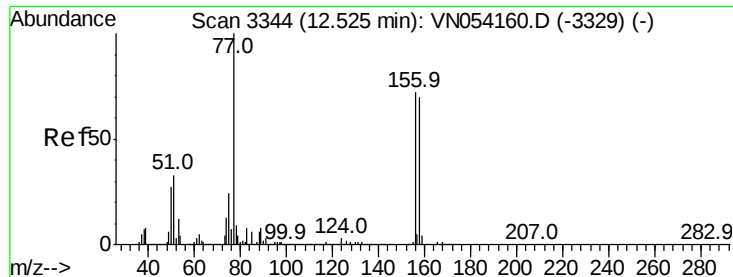
75 100

77 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VNO
Ion 77.00 (76.70 to 77.70): VNO





#77

Bromobenzene

Concen: 48.516 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. 0.00 min

Lab File: VN054251.D

Acq: 14 Mar 2019 9:14

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion:156 Resp: 1010825

Ion Ratio Lower Upper

156 100

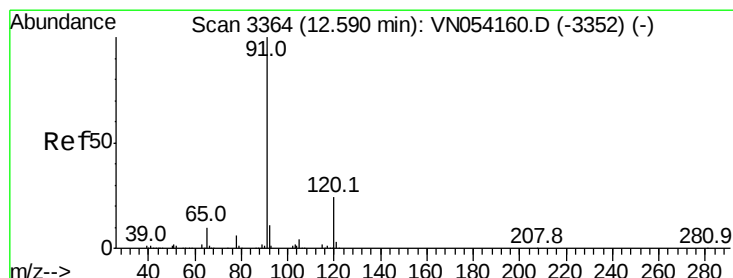
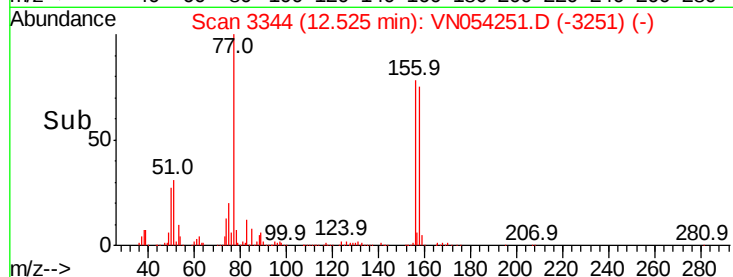
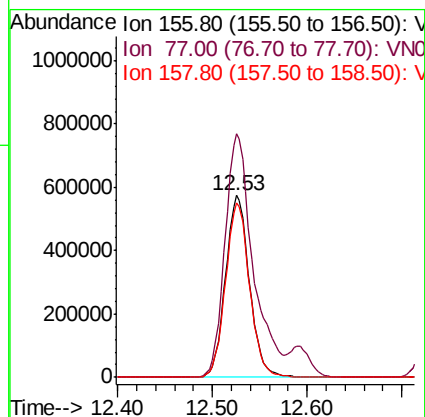
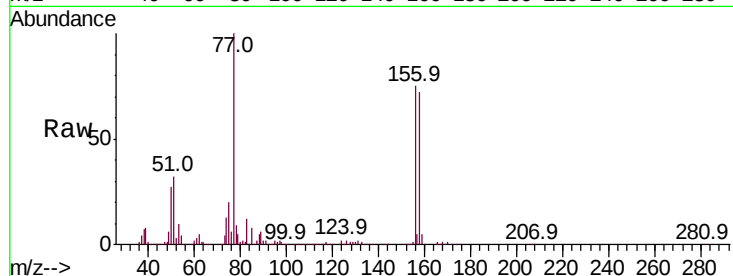
77 158.0 81.5 244.4

158 96.3 49.0 147.2

Manual Integrations
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#78

n-propylbenzene

Concen: 47.366 ug/l

RT: 12.59 min Scan# 3365

Delta R.T. 0.00 min

Lab File: VN054251.D

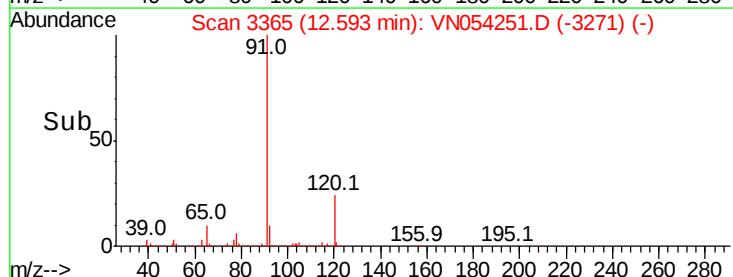
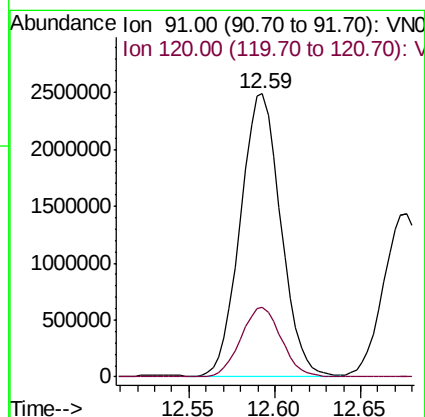
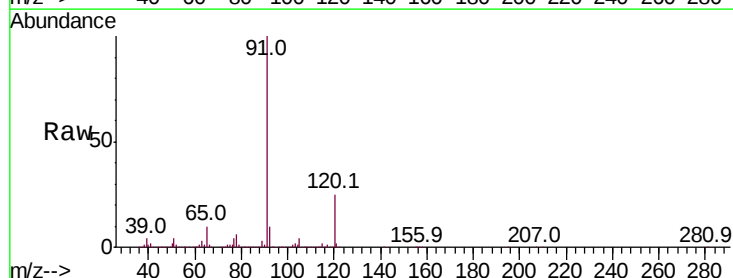
Acq: 14 Mar 2019 9:14

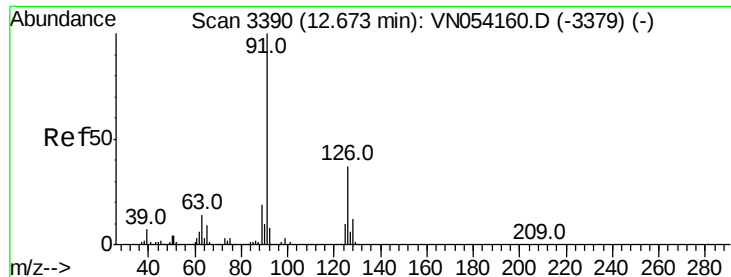
Tgt Ion: 91 Resp: 4046625

Ion Ratio Lower Upper

91 100

120 24.8 12.3 36.9





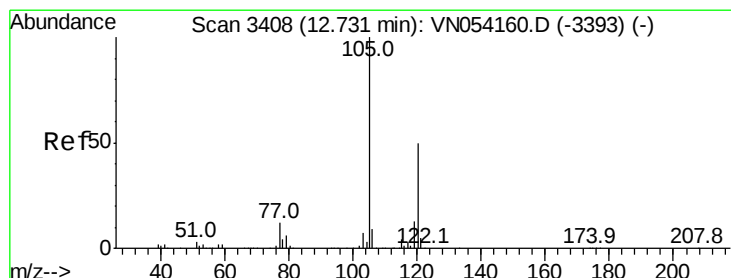
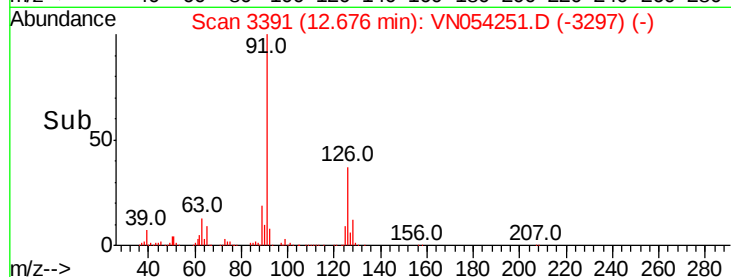
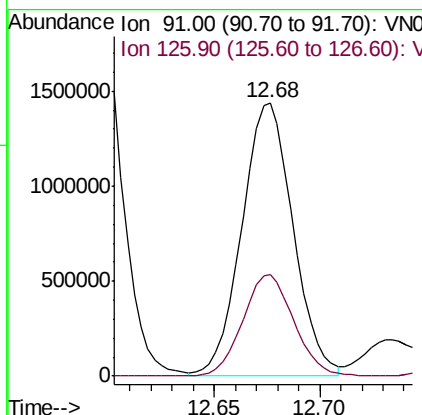
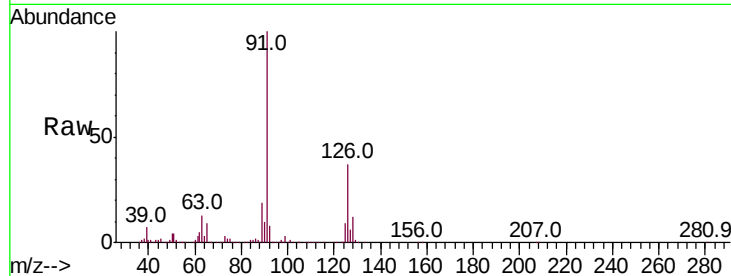
#79
 2-Chlorotoluene
 Concen: 46.913 ug/l
 RT: 12.68 min Scan# 3391
 Delta R.T. 0.00 min
 Lab File: VN054251.D
 Acq: 14 Mar 2019 9:14

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tot Ion: 91 Resp: 2409867
 Ion Ratio Lower Upper
 91 100
 126 37.7 18.7 56.1

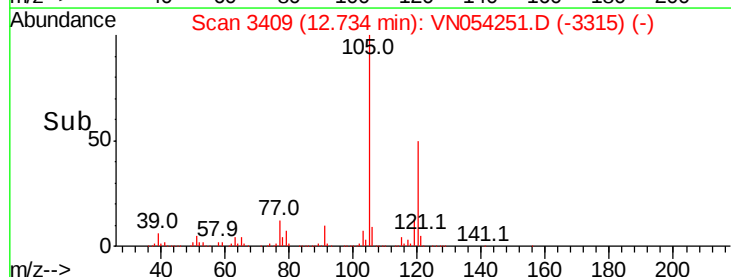
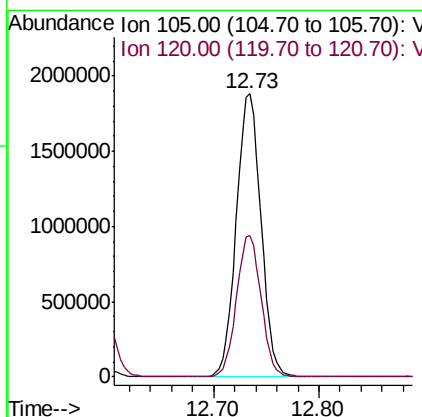
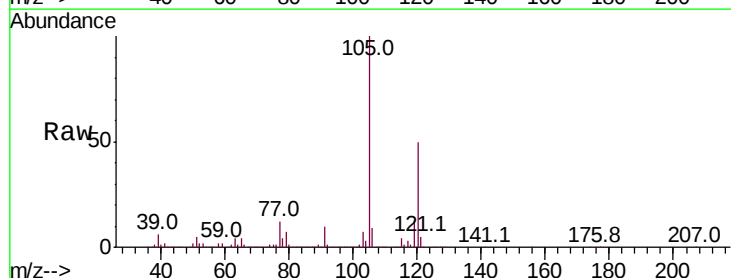
Manual Integrations
 APPROVED

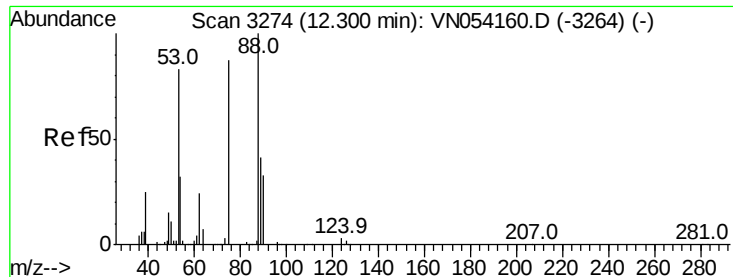
MMDadoda
 3/23/2019 1:18:33 AM



#80
 1,3,5-Trimethylbenzene
 Concen: 46.439 ug/l
 RT: 12.73 min Scan# 3409
 Delta R.T. 0.00 min
 Lab File: VN054251.D
 Acq: 14 Mar 2019 9:14

Tgt Ion:105 Resp: 3041367
 Ion Ratio Lower Upper
 105 100
 120 49.9 25.0 75.0





#81

trans-1,4-Dichloro-2-butene

Concen: 37.583 ug/l

RT: 12.30 min Scan# 3274

Delta R.T. 0.00 min

Lab File: VN054251.D

Acq: 14 Mar 2019 9:14

Instrument :

MSVOA_N

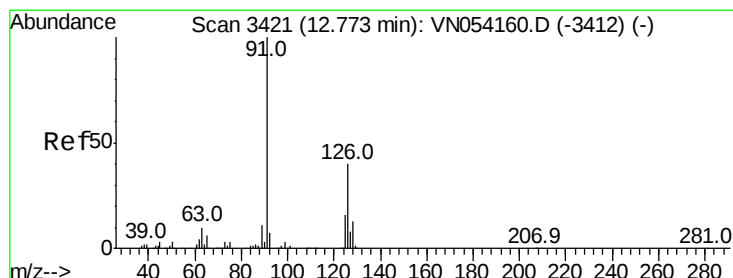
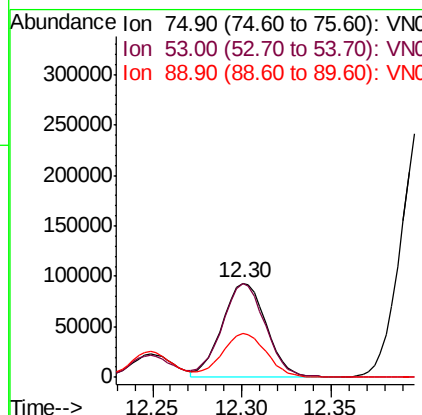
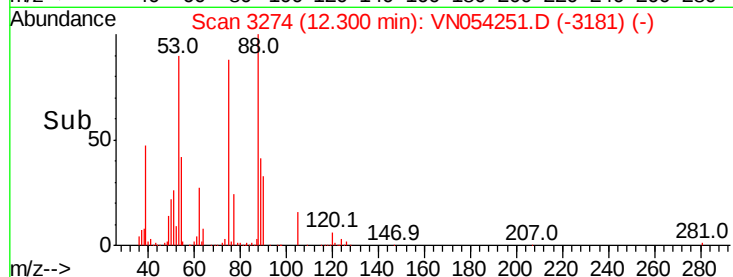
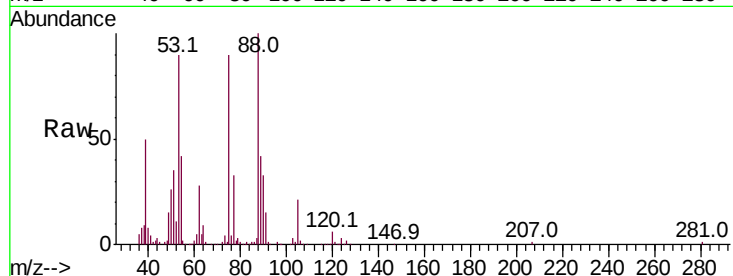
ClientSampleId :

VSTDCCC050EC

Tot Ion:	75	Resp:	159108
Ion	Ratio	Lower	Upper
75	100		
53	99.0	76.2	114.2
89	47.4	39.2	58.8

Manual Integrations
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#82

4-Chlorotoluene

Concen: 47.777 ug/l

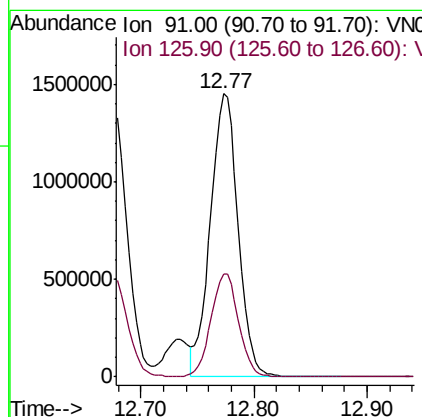
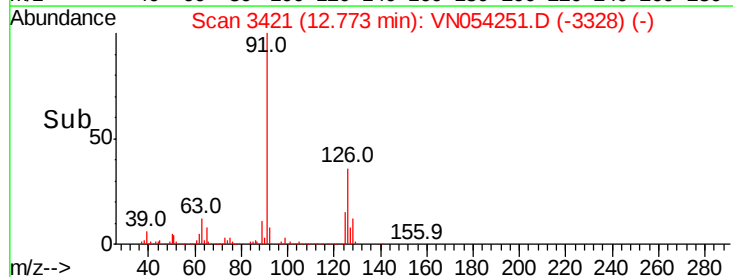
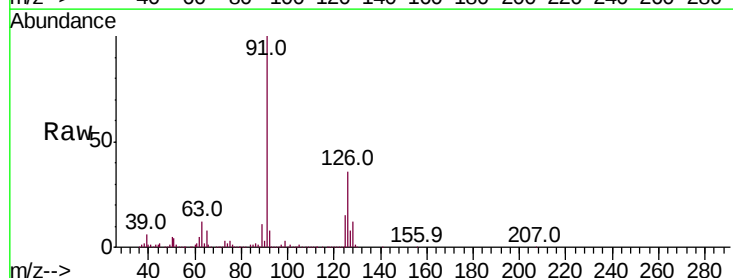
RT: 12.77 min Scan# 3421

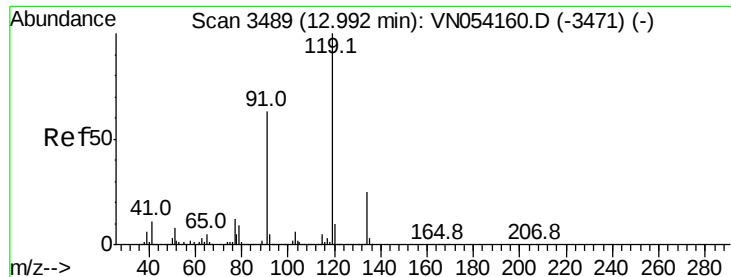
Delta R.T. 0.00 min

Lab File: VN054251.D

Acq: 14 Mar 2019 9:14

Tgt Ion:	91	Resp:	2450650
Ion	Ratio	Lower	Upper
91	100		
126	36.4	18.1	54.1





#83

tert-Butylbenzene

Concen: 46.319 ug/l

RT: 12.99 min Scan# 3490

Delta R.T. 0.00 min

Lab File: VN054251.D

Acq: 14 Mar 2019 9:14

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion:119 Resp: 2792186

Ion Ratio Lower Upper

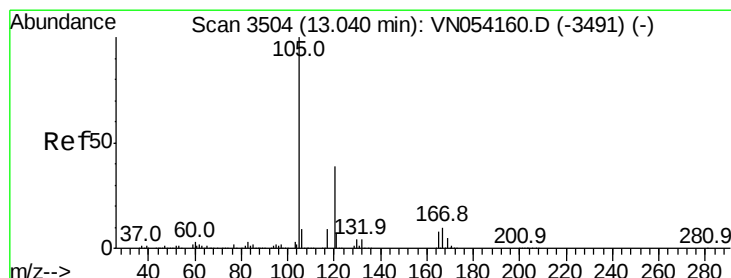
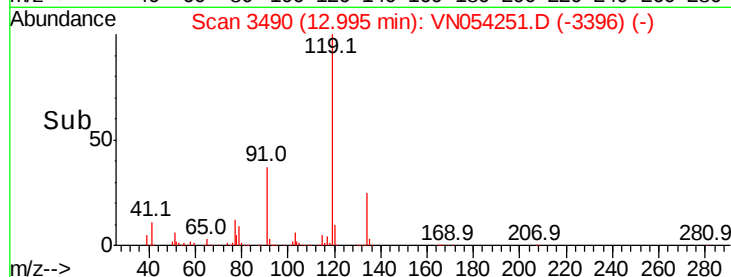
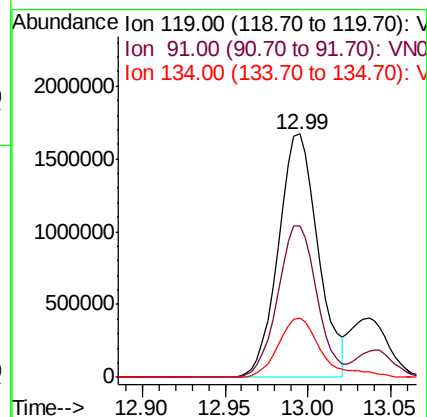
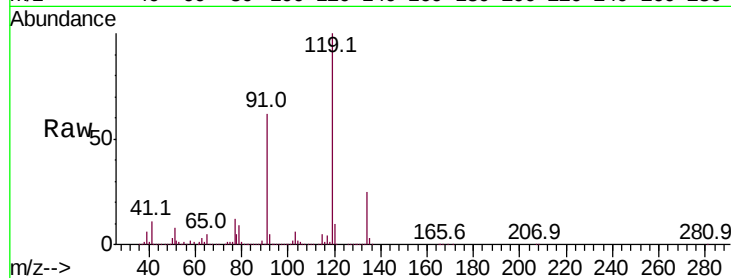
119 100

91 61.9 30.9 92.8

134 26.6 13.2 39.6

Manual Integrations
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#84

1,2,4-Trimethylbenzene

Concen: 47.831 ug/l

RT: 13.04 min Scan# 3504

Delta R.T. 0.00 min

Lab File: VN054251.D

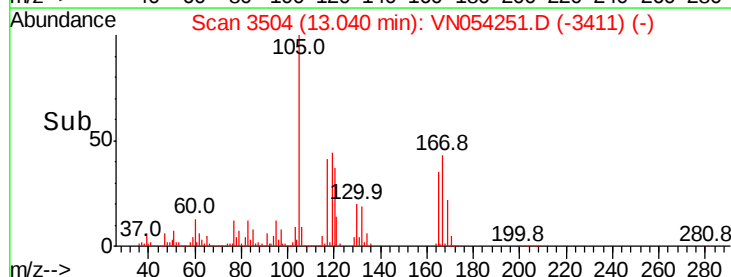
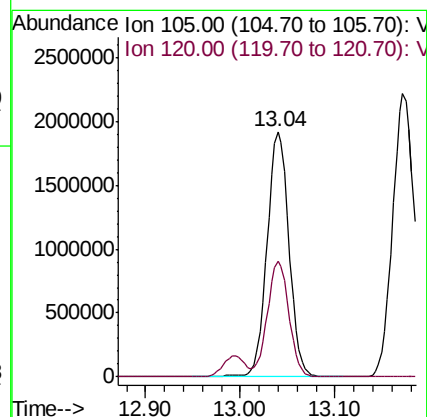
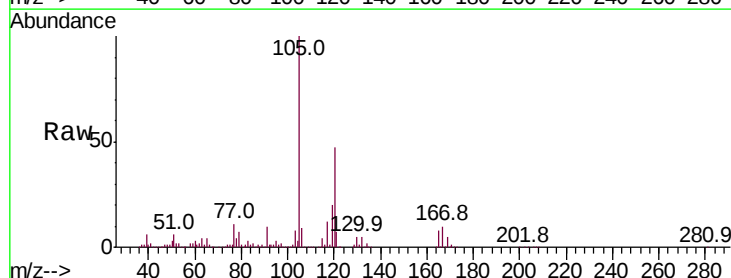
Acq: 14 Mar 2019 9:14

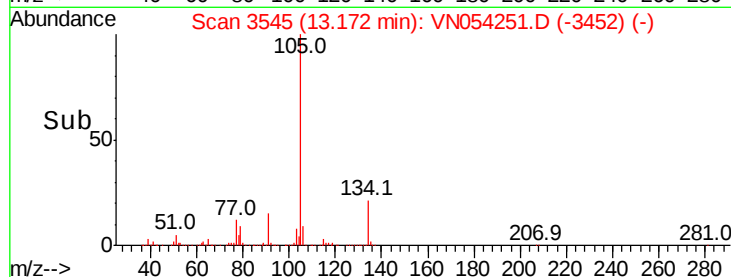
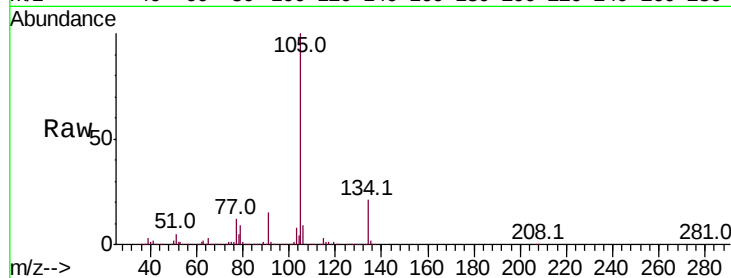
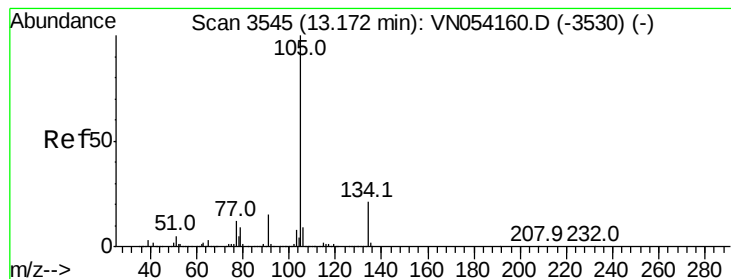
Tgt Ion:105 Resp: 3073123

Ion Ratio Lower Upper

105 100

120 46.7 23.4 70.3





#85

sec-Butylbenzene

Concen: 46.133 ug/l

RT: 13.17 min Scan# 3545

Delta R.T. 0.00 min

Lab File: VN054251.D

Acq: 14 Mar 2019 9:14

Tot Ion:105 Resp: 3606503

Ion Ratio Lower Upper

105 100

134 21.1 10.7 32.1

Instrument :

MSVOA_N

ClientSampleId :

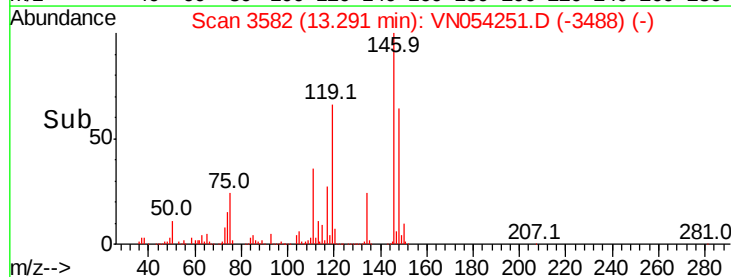
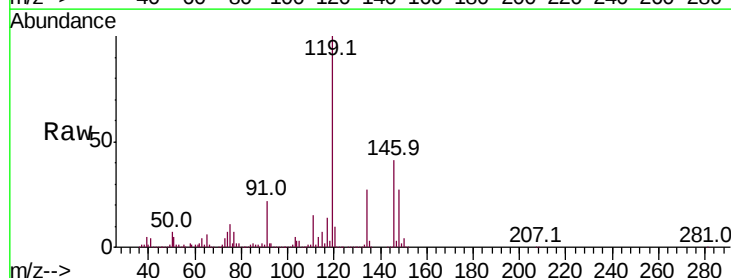
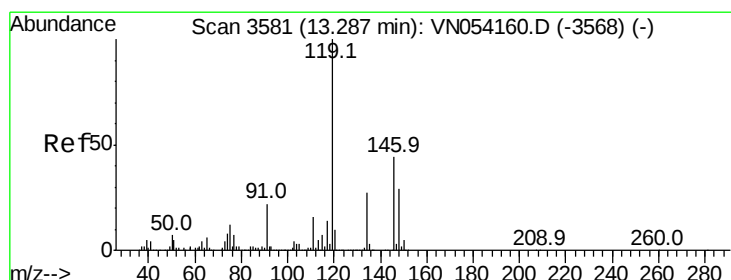
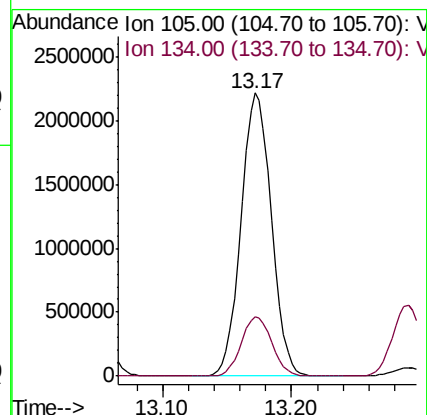
VSTDCCC050EC

Manual Integrations

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3/23/2019 1:18:33 AM



#86

p-Isopropyltoluene

Concen: 46.256 ug/l

RT: 13.29 min Scan# 3582

Delta R.T. 0.00 min

Lab File: VN054251.D

Acq: 14 Mar 2019 9:14

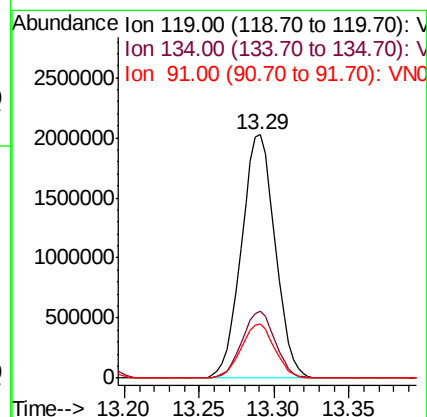
Tgt Ion:119 Resp: 3172410

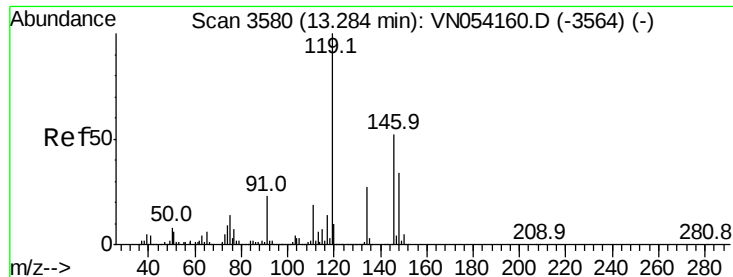
Ion Ratio Lower Upper

119 100

134 27.2 13.6 40.8

91 22.2 11.1 33.3





#87

1,3-Dichlorobenzene

Concen: 49.300 ug/l

RT: 13.28 min Scan# 3580

Delta R.T. 0.00 min

Lab File: VN054251.D

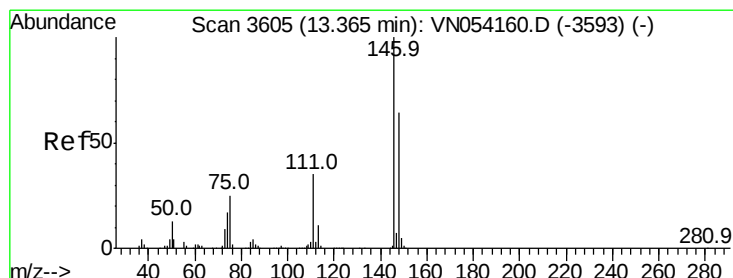
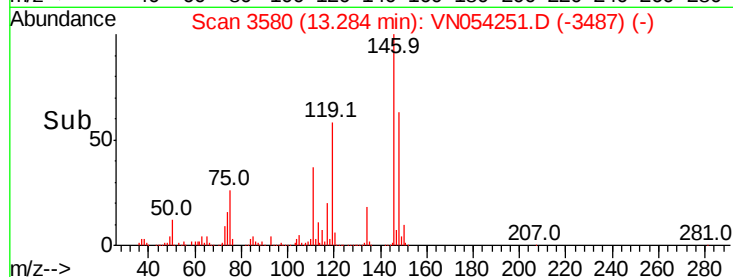
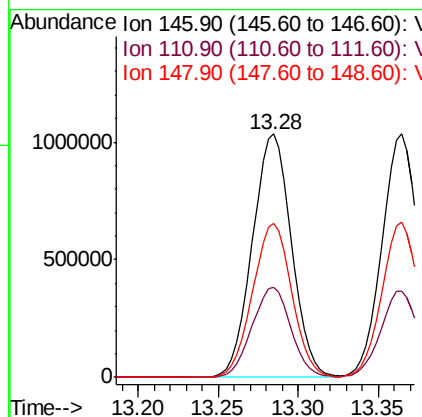
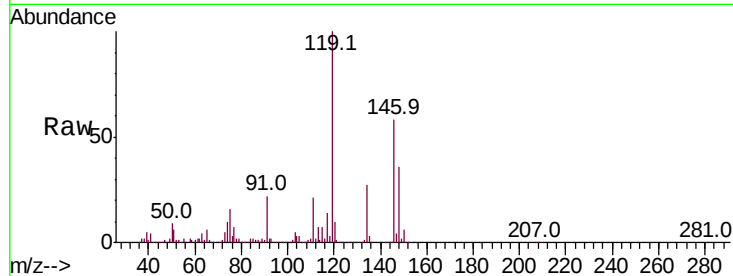
Acq: 14 Mar 2019 9:14

Instrument :
MSVOA_N
ClientSampled :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
146	100		
111	36.8	18.8	56.3
148	63.5	32.2	96.6

Manual Integrations
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3/23/2019 1:18:33 AM



#88

1,4-Dichlorobenzene

Concen: 48.888 ug/l

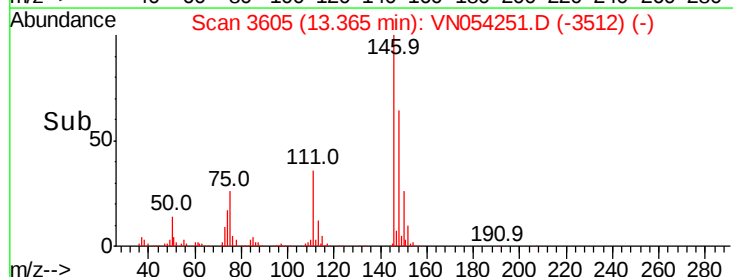
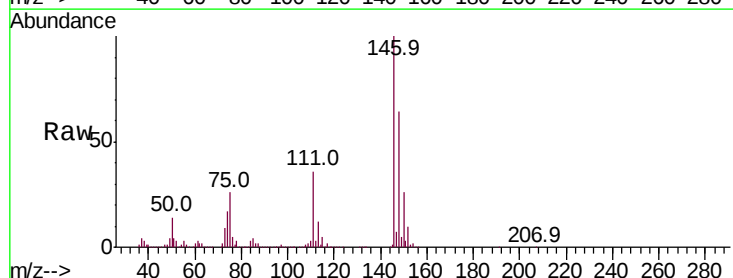
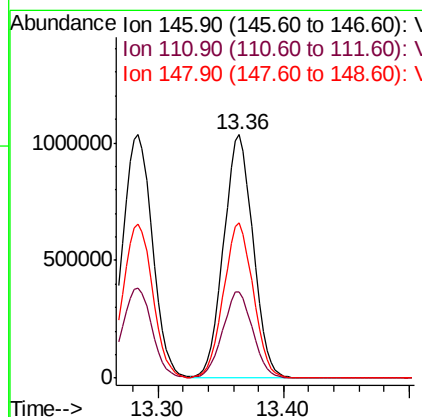
RT: 13.36 min Scan# 3605

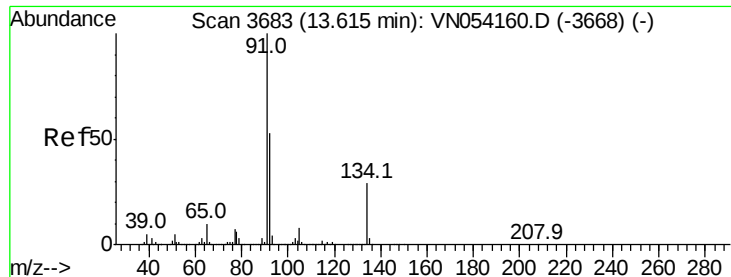
Delta R.T. 0.00 min

Lab File: VN054251.D

Acq: 14 Mar 2019 9:14

Tgt Ion	Ratio	Lower	Upper
146	100		
111	36.2	18.1	54.1
148	64.0	32.0	96.0





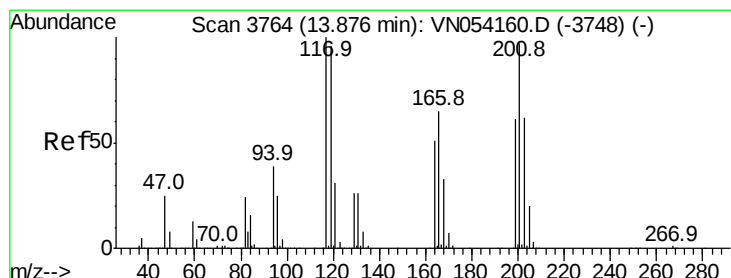
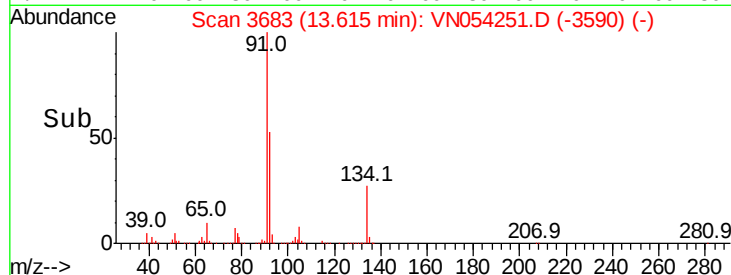
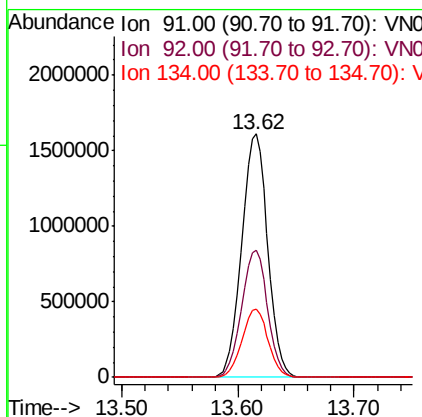
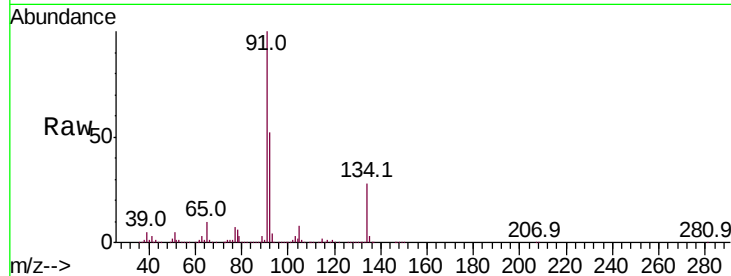
#89
n-Butylbenzene
Concen: 48.029 ug/l
RT: 13.62 min Scan# 3683
Delta R.T. 0.00 min
Lab File: VN054251.D
Acq: 14 Mar 2019 9:14

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
91	100		
92	52.3	26.2	78.6
134	28.2	14.3	42.9

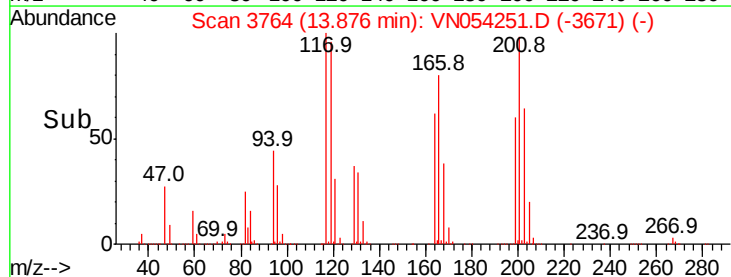
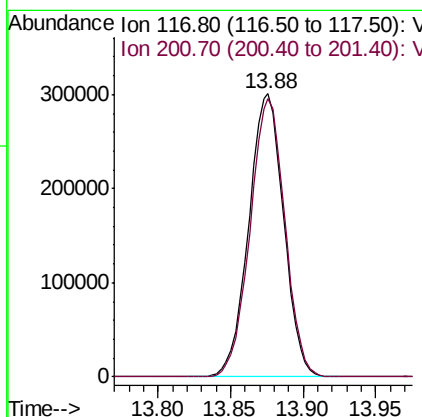
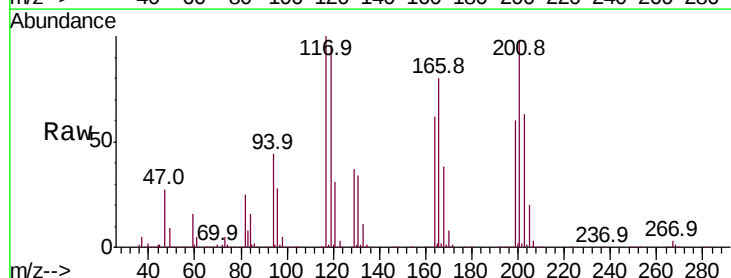
Manual Integrations
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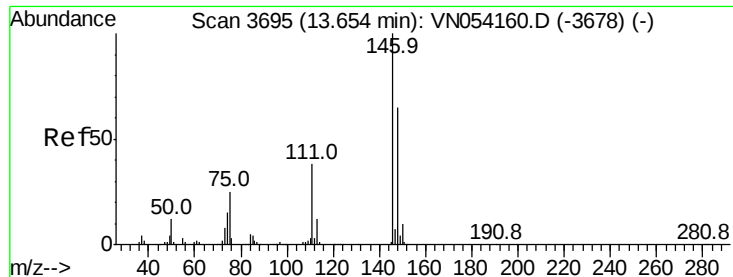
MMDadoda
3/23/2019 1:18:33 AM



#90
Hexachloroethane
Concen: 44.481 ug/l
RT: 13.88 min Scan# 3764
Delta R.T. 0.00 min
Lab File: VN054251.D
Acq: 14 Mar 2019 9:14

Tgt Ion	Ratio	Lower	Upper
117	100		
201	97.6	48.1	144.4





#91

1,2-Dichlorobenzene

Concen: 49.155 ug/l

RT: 13.65 min Scan# 3695

Delta R.T. 0.00 min

Lab File: VN054251.D

Acq: 14 Mar 2019 9:14

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion:146 Resp: 1687008

Ion Ratio Lower Upper

146 100

111 39.0 19.1 57.3

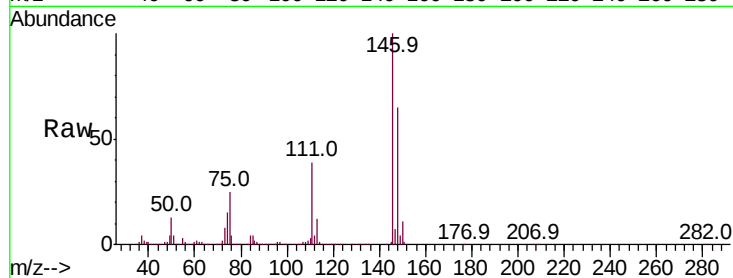
148 64.6 32.4 97.0

Manual Integrations

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MMDadoda

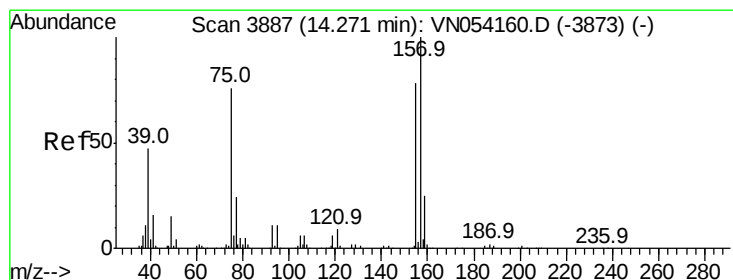
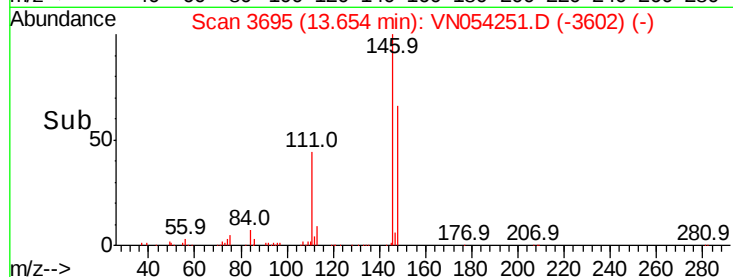
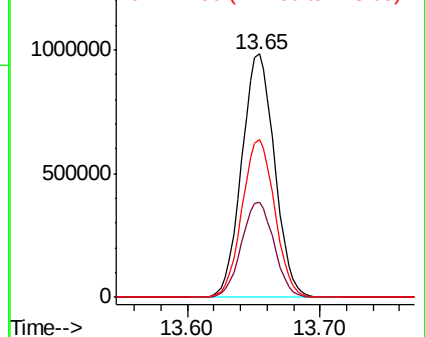
3/23/2019 1:18:33 AM



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 47.955 ug/l

RT: 14.27 min Scan# 3887

Delta R.T. 0.00 min

Lab File: VN054251.D

Acq: 14 Mar 2019 9:14

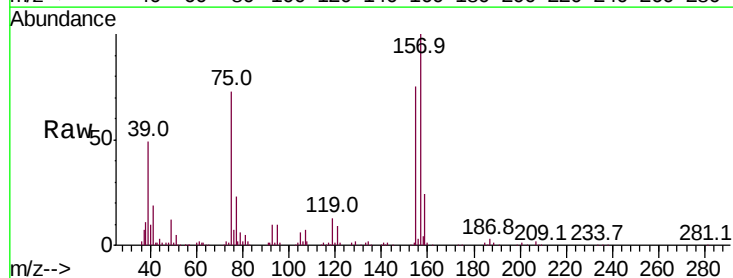
Tgt Ion: 75 Resp: 124484

Ion Ratio Lower Upper

75 100

155 100.9 50.1 150.3

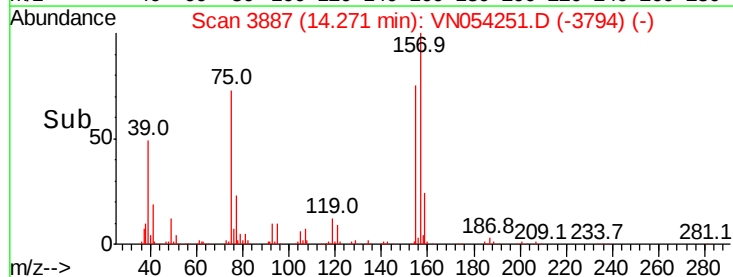
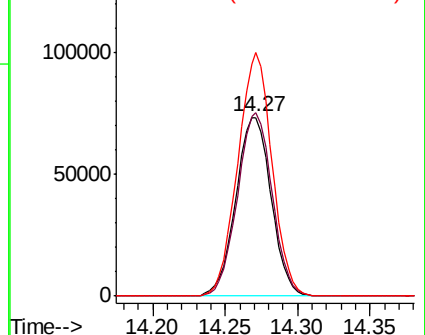
157 132.0 63.1 189.3

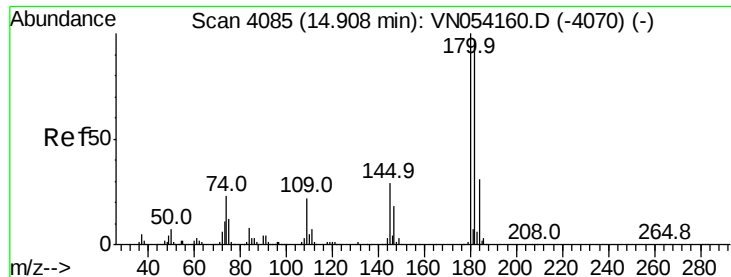


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V





#93

1,2,4-Trichlorobenzene

Concen: 46.969 ug/l

RT: 14.91 min Scan# 4085

Delta R.T. 0.00 min

Lab File: VN054251.D

Acq: 14 Mar 2019 9:14

Instrument :

MSVOA_N

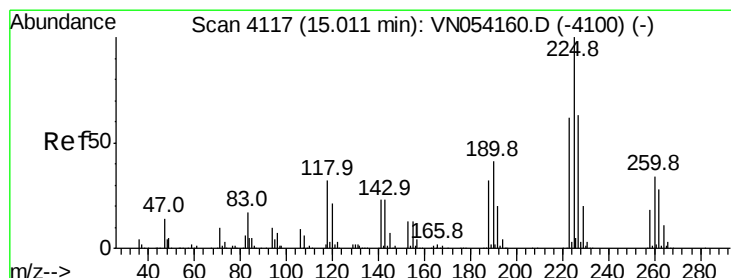
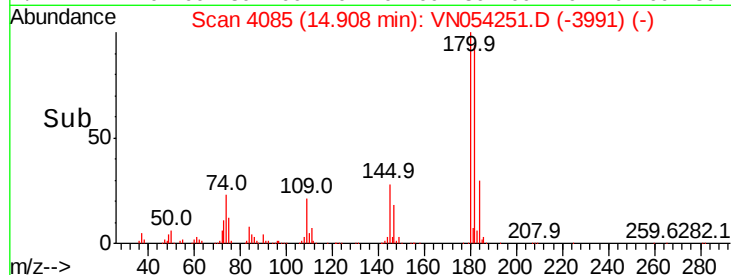
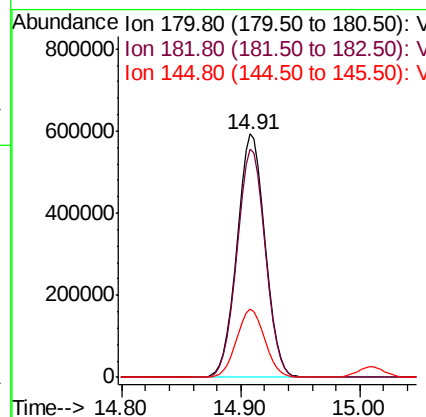
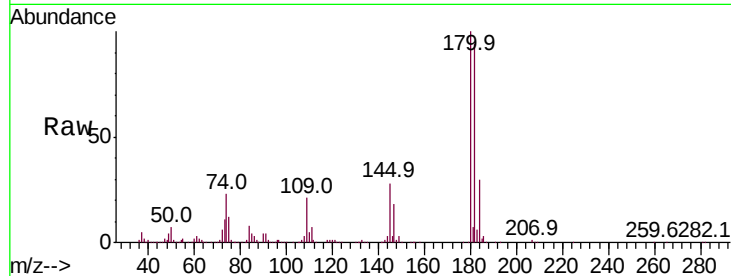
ClientSampleId :

VSTDCCC050EC

Tot Ion:	180	Resp:	969886
Ion Ratio	Lower	Upper	
180	100		
182	94.6	48.0	144.2
145	27.9	14.2	42.8

Manual Integrations
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#94

Hexachlorobutadiene

Concen: 42.069 ug/l

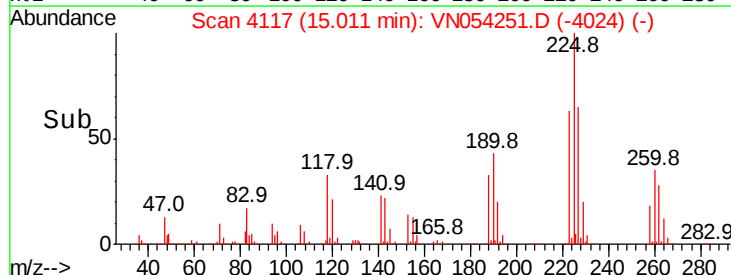
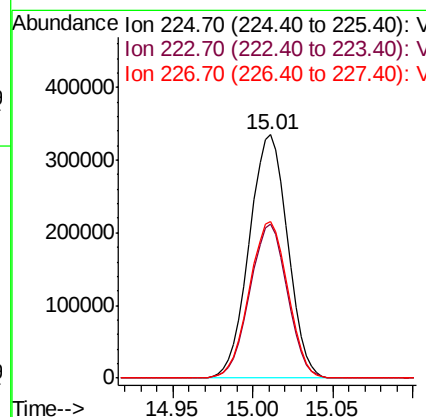
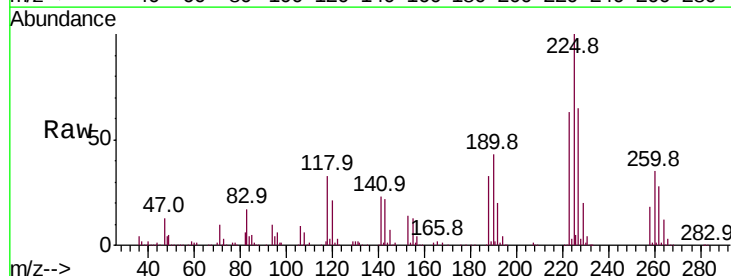
RT: 15.01 min Scan# 4117

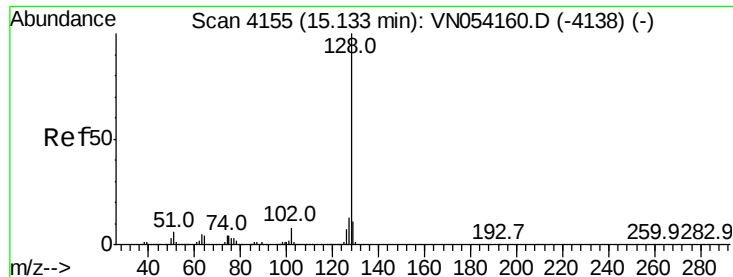
Delta R.T. 0.00 min

Lab File: VN054251.D

Acq: 14 Mar 2019 9:14

Tgt Ion:	225	Resp:	549947
Ion Ratio	Lower	Upper	
225	100		
223	62.1	31.1	93.5
227	64.4	31.9	95.9





#95

Naphthalene

Concen: 47.858 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN054251.D

Acq: 14 Mar 2019 9:14

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion:128 Resp: 2058812

Ion Ratio Lower Upper

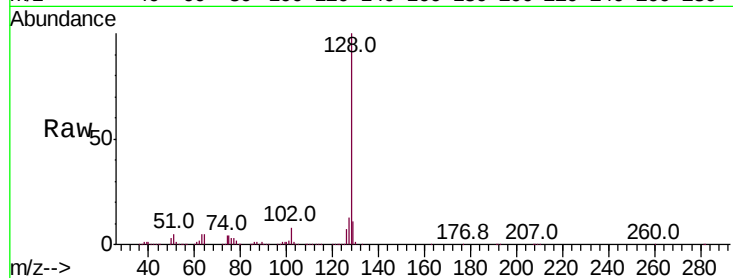
128 100

127 12.7 10.1 15.1

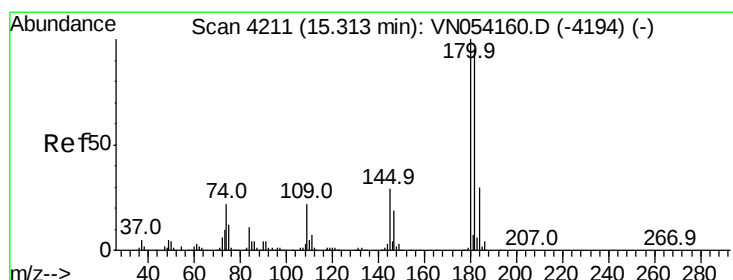
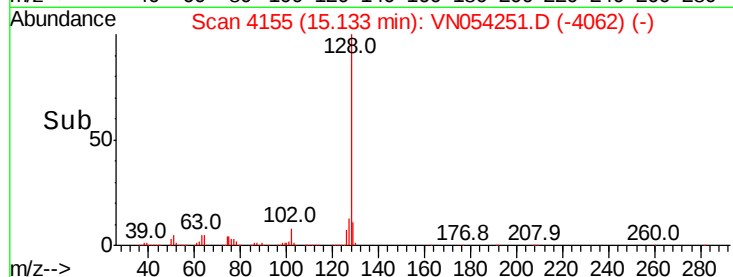
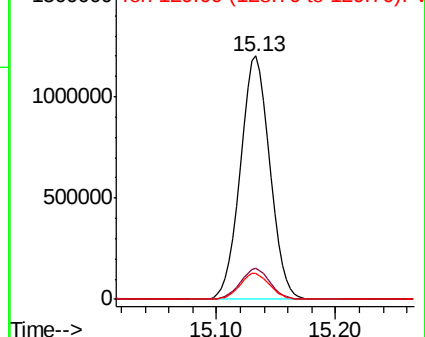
129 10.8 8.7 13.1

Manual Integrations
APPROVED

MMDadoda
3/23/2019 1:18:33 AM



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



#96

1,2,3-Trichlorobenzene

Concen: 52.288 ug/l

RT: 15.31 min Scan# 4211

Delta R.T. 0.00 min

Lab File: VN054251.D

Acq: 14 Mar 2019 9:14

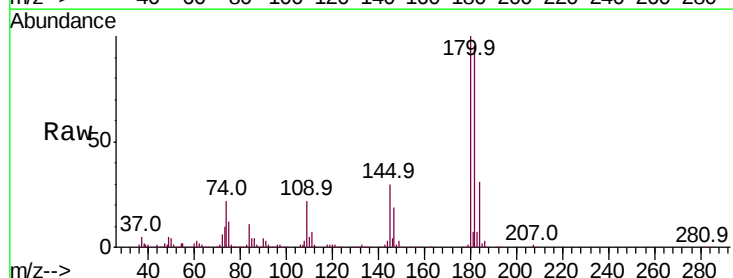
Tgt Ion:180 Resp: 953480

Ion Ratio Lower Upper

180 100

182 96.0 47.5 142.6

145 29.6 14.8 44.3



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

