

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN121918\
 Data File : VN053040.D
 Acq On : 20 Dec 2018 5:03
 Operator : MD\SY
 Sample : J6411-08MSD 10X
 Misc : 5.77µL/5.00mL/100µL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 47 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 EP1-MW-K(12-13FT)1218MSD

Manual Integrations
 APPROVED

MMDadoda
 12/20/2018 12:13:11 PM

Quant Time: Dec 20 08:03:32 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N121818W.M
 Quant Title : SW846 8260
 QLast Update : Tue Dec 18 13:03:37 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	1086603	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	1672987	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1463253	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	678815	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	586567	53.19	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.38%	
35) Dibromofluoromethane	7.59	113	466332	61.02	ug/l	0.00
Spiked Amount	50.000		Recovery	=	122.04%	
50) Toluene-d8	10.09	98	2112795	51.50	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.00%	
62) 4-Bromofluorobenzene	12.40	95	900562	62.53	ug/l	0.00
Spiked Amount	50.000		Recovery	=	125.06%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	489357	44.498	ug/l	99
3) Chloromethane	2.06	50	621111	46.608	ug/l	100
4) Vinyl Chloride	2.19	62	641632	47.541	ug/l	100
5) Bromomethane	2.56	94	412761	44.142	ug/l	100
6) Chloroethane	2.71	64	372337	46.581	ug/l	99
7) Trichlorofluoromethane	3.02	101	781615	46.488	ug/l	100
8) Diethyl Ether	3.41	74	330748	52.145	ug/l	95
9) 1,1,2-Trichlorotrifluoroet	3.76	101	489249	45.639	ug/l	97
10) Methyl Iodide	3.96	142	746453	49.584	ug/l	99
11) Tert butyl alcohol	4.78	59	170200	252.964	ug/l	99
12) 1,1-Dichloroethene	3.74	96	490887	47.398	ug/l	99
13) Acrolein	3.61	56	185652	304.310	ug/l	99
14) Allyl chloride	4.33	41	819730	51.098	ug/l	94
15) Acrylonitrile	4.99	53	957556	256.178	ug/l	99
16) Acetone	3.81	43	591382	273.530	ug/l	95
17) Carbon Disulfide	4.06	76	1392362	41.224	ug/l	100
18) Methyl Acetate	4.32	43	512084	52.141	ug/l	98
19) Methyl tert-butyl Ether	5.05	73	1463943	52.820	ug/l	100
20) Methylene Chloride	4.55	84	583853	49.506	ug/l	97
21) trans-1,2-Dichloroethene	5.04	96	538910	48.431	ug/l	98
22) Diisopropyl ether	5.95	45	1814732	52.996	ug/l	96
23) Vinyl Acetate	5.90	43	5142953	261.190	ug/l	98
24) 1,1-Dichloroethane	5.85	63	1029613	50.601	ug/l	100
25) 2-Butanone	6.83	43	985591	271.630	ug/l	98
26) 2,2-Dichloropropane	6.83	77	579400	37.302	ug/l	98
27) cis-1,2-Dichloroethene	6.83	96	637316	50.591	ug/l	96
28) Bromochloromethane	7.20	49	471794	53.509	ug/l	94
29) Tetrahydrofuran	7.21	42	697315	257.315	ug/l	97
30) Chloroform	7.37	83	1002644	50.161	ug/l	99
31) Cyclohexane	7.65	56	894272	46.793	ug/l	99
32) 1,1,1-Trichloroethane	7.57	97	817930	48.035	ug/l	99
36) 1,1-Dichloropropene	7.79	75	754835	47.007	ug/l	100
37) Ethyl Acetate	6.93	43	479294	53.467	ug/l	99
38) Carbon Tetrachloride	7.78	117	689143	46.822	ug/l	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	927996	47.573	ug/l	98
40) Benzene	8.04	78	2371694	49.655	ug/l	99
41) Methacrylonitrile	7.17	41	261710	50.528	ug/l	98
42) 1,2-Dichloroethane	8.12	62	705267	49.983	ug/l	98
43) Isopropyl Acetate	8.16	43	891890	51.444	ug/l	98
44) Trichloroethene	8.83	130	658078	47.635	ug/l	97
45) 1,2-Dichloropropane	9.12	63	635657	51.094	ug/l	100
46) Dibromomethane	9.21	93	365439	50.423	ug/l	98
47) Bromodichloromethane	9.40	83	764945	49.653	ug/l	100
48) Methyl methacrylate	9.20	41	448745	51.588	ug/l	99
49) 1,4-Dioxane	9.20	88	98591	896.006	ug/l #	92
51) 4-Methyl-2-Pentanone	9.98	43	2286392	263.374	ug/l	99
52) Toluene	10.16	92	1445941	48.841	ug/l	100
53) t-1,3-Dichloropropene	10.38	75	767755	47.393	ug/l	98
54) cis-1,3-Dichloropropene	9.84	75	895837	48.177	ug/l	98
55) 1,1,2-Trichloroethane	10.56	97	657786	63.688	ug/l	98
56) Ethyl methacrylate	10.43	69	828935	60.637	ug/l	96
57) 1,3-Dichloropropane	10.71	76	912934	51.546	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.69	63	2000984	266.618	ug/l	98
59) 2-Hexanone	10.75	43	1408946	239.881	ug/l	91
60) Dibromochloromethane	10.90	129	576088	48.728	ug/l	99
61) 1,2-Dibromoethane	11.01	107	531997	50.717	ug/l	99
64) Tetrachloroethene	10.63	164	784191	49.475	ug/l	98
65) Chlorobenzene	11.43	112	1587626	48.946	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.51	131	565713	50.154	ug/l	100
67) Ethyl Benzene	11.51	91	2685625	48.145	ug/l	99
68) m/p-Xylenes	11.62	106	2062233	97.248	ug/l	100
69) o-Xylene	11.95	106	969726	47.655	ug/l	98
70) Styrene	11.97	104	1610782	48.546	ug/l	99
71) Bromoform	12.13	173	366963	45.034	ug/l #	99
73) Isopropylbenzene	12.25	105	4559672	85.851	ug/l	99
74) N-amyl acetate	12.05	43	3805019	258.044	ug/l #	53
75) 1,1,2,2-Tetrachloroethane	12.50	83	852057	81.774	ug/l	89
76) 1,2,3-Trichloropropane	12.55	75	522938m	45.763	ug/l	
77) Bromobenzene	12.53	156	646683	46.841	ug/l	98
78) n-propylbenzene	12.59	91	5475799	90.525	ug/l	99
79) 2-Chlorotoluene	12.68	91	1844442	49.193	ug/l	93
80) 1,3,5-Trimethylbenzene	12.73	105	1875095	43.314	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.30	75	146524	41.328	ug/l #	69
82) 4-Chlorotoluene	12.77	91	1652007	45.010	ug/l	93
83) tert-Butylbenzene	12.99	119	2011615	52.541	ug/l	99
84) 1,2,4-Trimethylbenzene	13.04	105	13055143	299.987	ug/l	99
85) sec-Butylbenzene	13.17	105	5342828	103.171	ug/l	85
86) p-Isopropyltoluene	13.29	119	3195882	71.420	ug/l	100
87) 1,3-Dichlorobenzene	13.28	146	1021092	41.788	ug/l #	75
88) 1,4-Dichlorobenzene	13.36	146	1033329	41.759	ug/l #	80
89) n-Butylbenzene	13.62	91	3835780	99.639	ug/l #	86
90) Hexachloroethane	13.89	117	655748	95.495	ug/l #	40
91) 1,2-Dichlorobenzene	13.65	146	982853	42.739	ug/l #	74
92) 1,2-Dibromo-3-Chloropropan	14.27	75	90413	50.184	ug/l	83

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EP1-MW-K(12-13FT)1218MSD

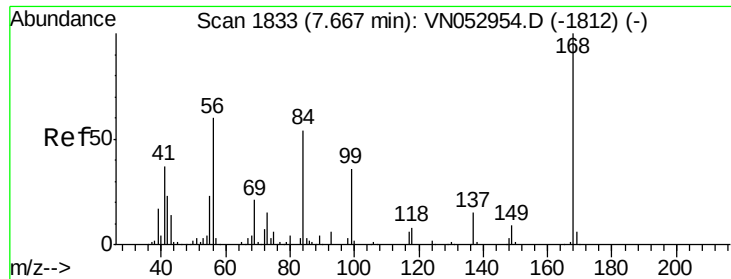
Manual Integrations
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	620633	50.928	ug/l #	88
94) Hexachlorobutadiene	15.01	225	401832	64.532	ug/l	99
95) Naphthalene	15.13	128	1343237	50.321	ug/l	100
96) 1,2,3-Trichlorobenzene	15.32	180	566121	51.582	ug/l	95

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN053040.D

Acq: 20 Dec 2018 5:03

Instrument :

MSVOA_N

ClientSampleId :

EP1-MW-K(12-13FT)1218MSD

Tot Ion:168 Resp: 1086603

Ion Ratio Lower Upper

168 100

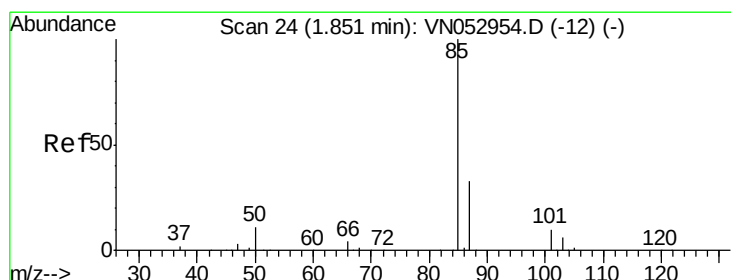
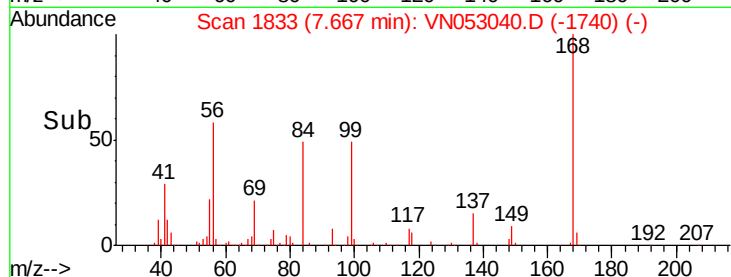
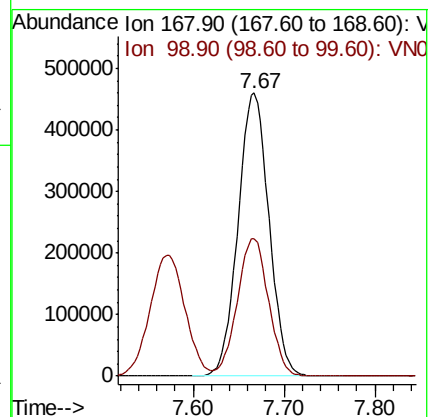
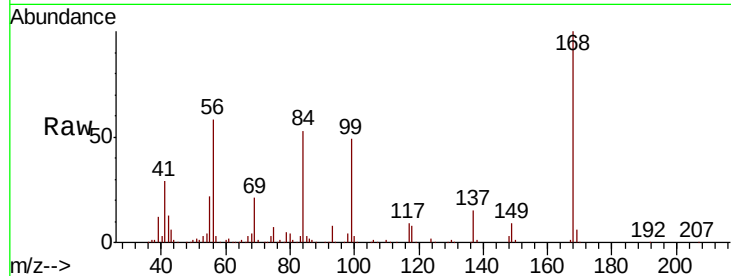
99 48.6 40.2 60.2

Manual Integrations

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#2

Dichlorodifluoromethane

Concen: 44.498 ug/l

RT: 1.85 min Scan# 24

Delta R.T. 0.00 min

Lab File: VN053040.D

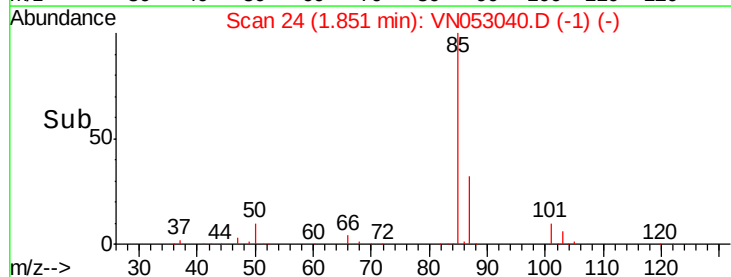
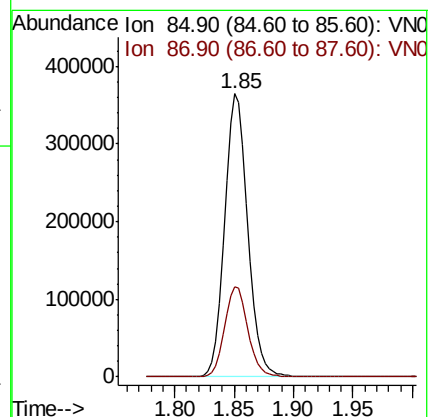
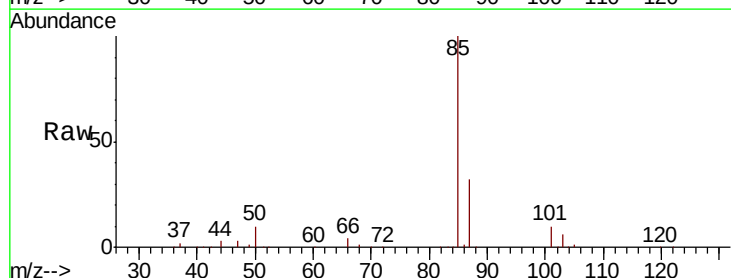
Acq: 20 Dec 2018 5:03

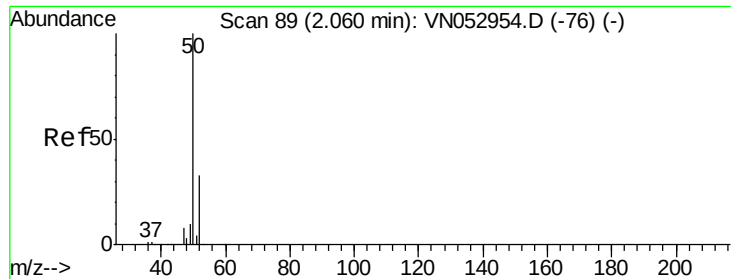
Tgt Ion: 85 Resp: 489357

Ion Ratio Lower Upper

85 100

87 32.0 16.3 48.8





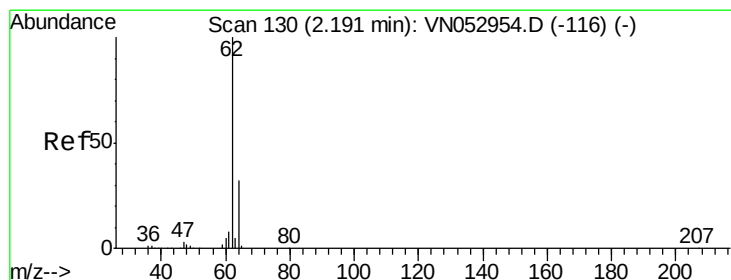
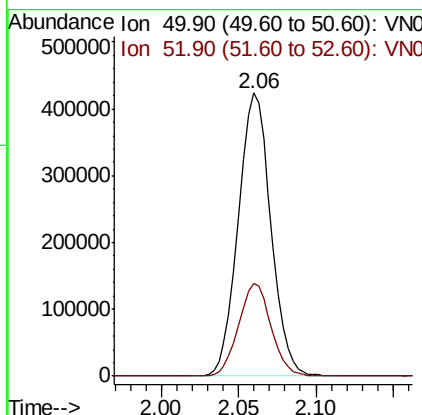
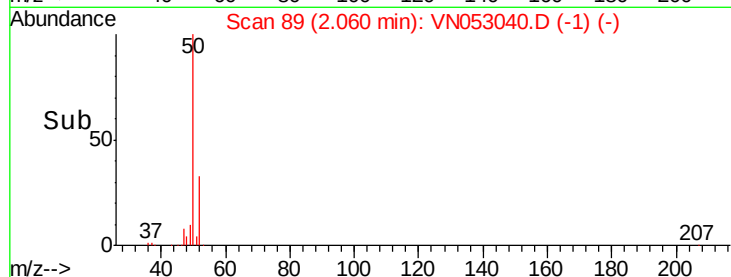
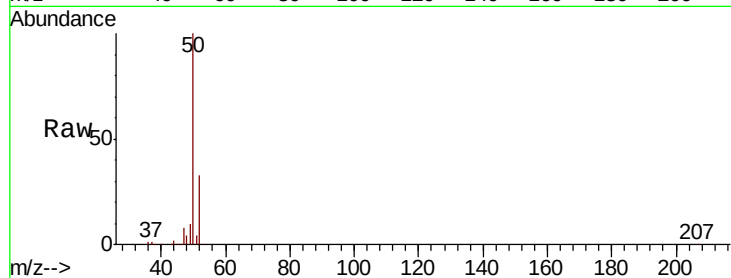
#3
 Chloromethane
 Concen: 46.608 ug/l
 RT: 2.06 min Scan# 89
 Delta R.T. 0.00 min
 Lab File: VN053040.D
 Acq: 20 Dec 2018 5:03

Instrument :
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Tot Ion	Ratio	Lower	Upper
50	100		
52	32.7	26.2	39.4

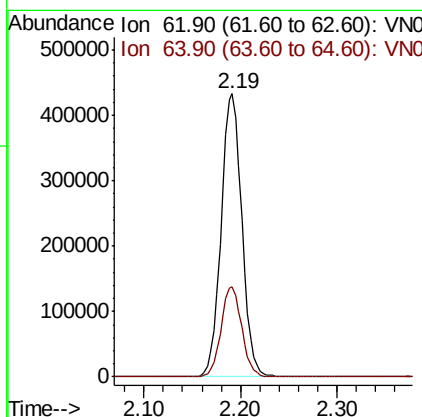
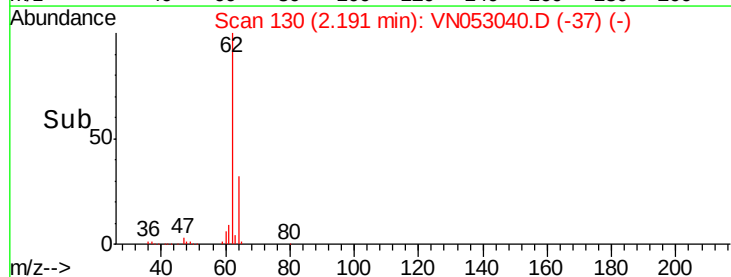
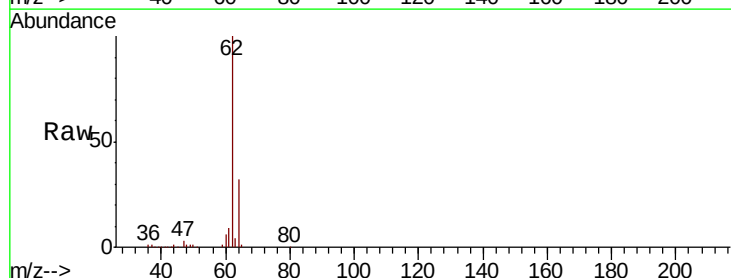
Manual Integrations
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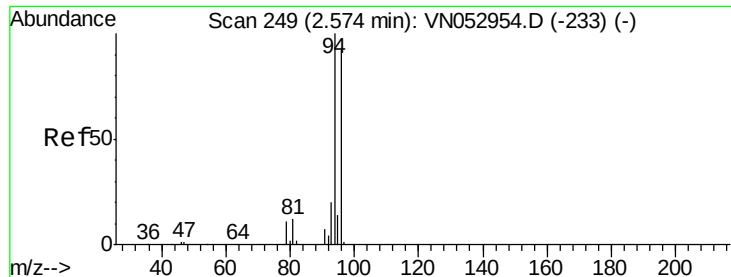
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#4
 Vinyl Chloride
 Concen: 47.541 ug/l
 RT: 2.19 min Scan# 130
 Delta R.T. 0.00 min
 Lab File: VN053040.D
 Acq: 20 Dec 2018 5:03

Tgt Ion	Ratio	Lower	Upper
62	100		
64	31.8	25.5	38.3





#5

Bromomethane

Concen: 44.142 ug/l

RT: 2.56 min Scan# 245

Delta R.T. -0.01 min

Lab File: VN053040.D

Acq: 20 Dec 2018 5:03

Instrument :

MSVOA_N

ClientSampleId :

EP1-MW-K(12-13FT)1218MSD

Tot Ion: 94 Resp: 412761

Ion Ratio Lower Upper

94 100

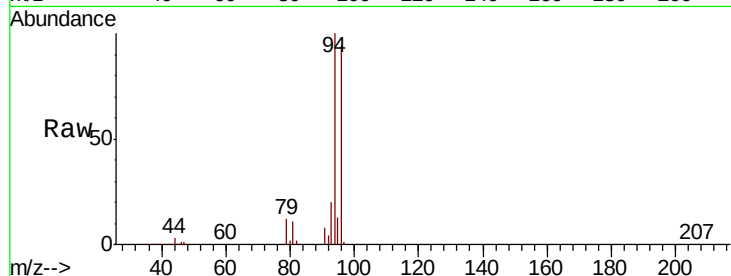
96 93.5 75.0 112.4

Manual Integrations

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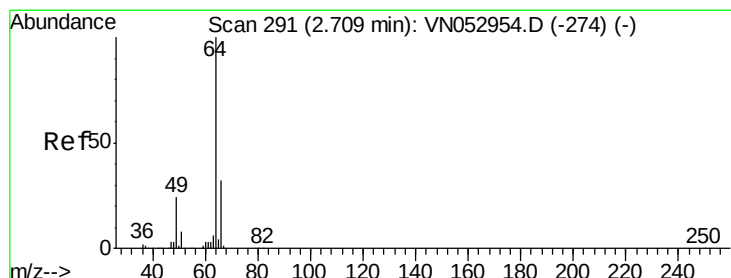
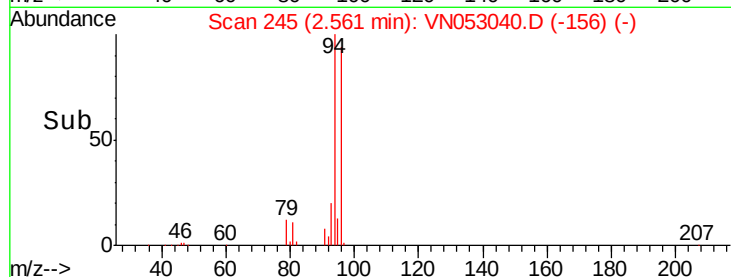
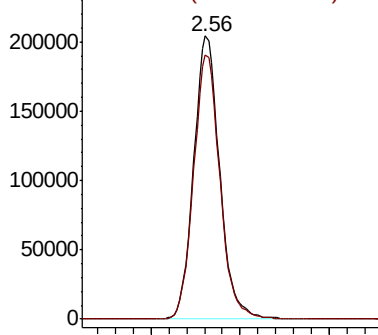
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Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO



#6

Chloroethane

Concen: 46.581 ug/l

RT: 2.71 min Scan# 290

Delta R.T. -0.00 min

Lab File: VN053040.D

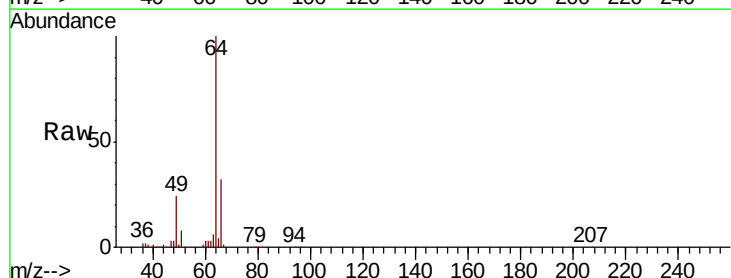
Acq: 20 Dec 2018 5:03

Tgt Ion: 64 Resp: 372337

Ion Ratio Lower Upper

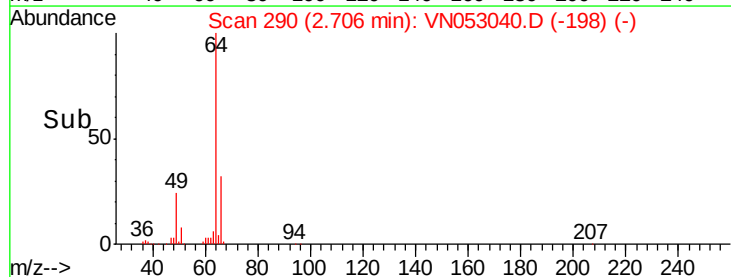
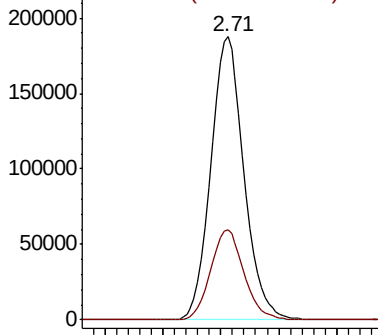
64 100

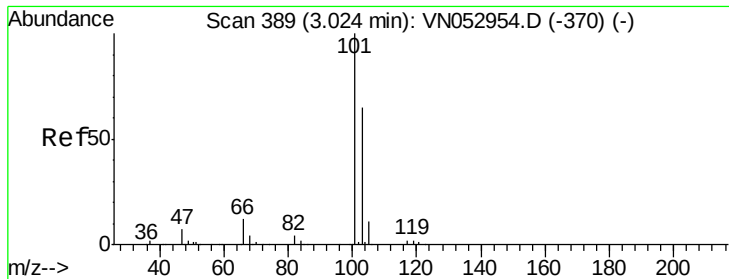
66 31.9 26.2 39.2



Abundance Ion 63.90 (63.60 to 64.60): VNO

Ion 65.90 (65.60 to 66.60): VNO





#7

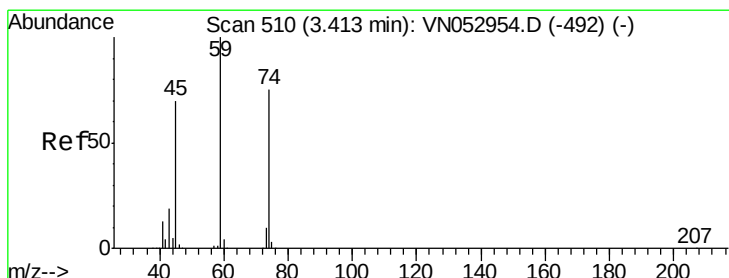
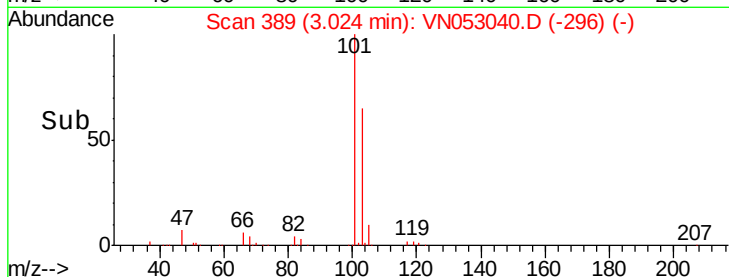
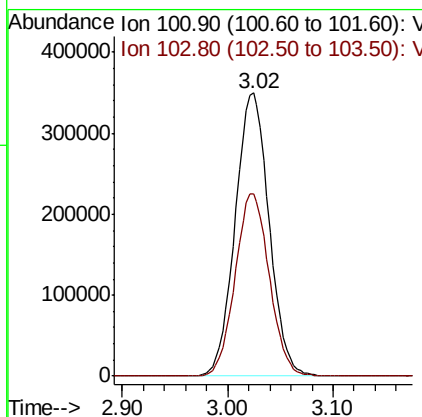
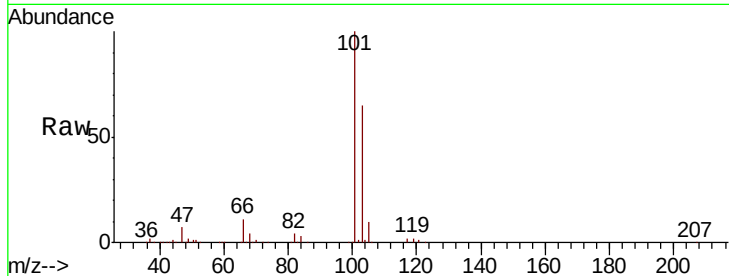
Trichlorofluoromethane
 Concen: 46.488 ug/l
 RT: 3.02 min Scan# 389
 Delta R.T. 0.00 min
 Lab File: VN053040.D
 Acq: 20 Dec 2018 5:03

Instrument :
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 ClientSampleId :
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Tot Ion	Ratio	Lower	Upper
101	100		
103	64.6	51.8	77.6

Manual Integrations
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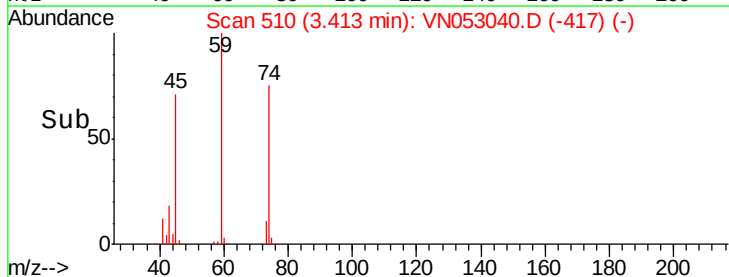
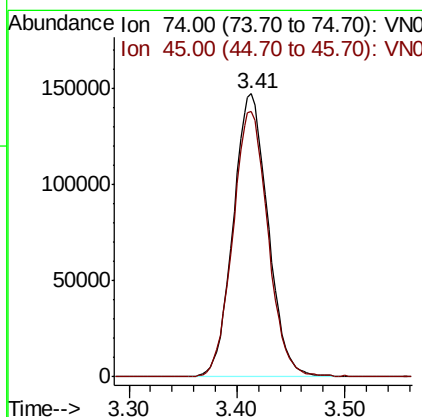
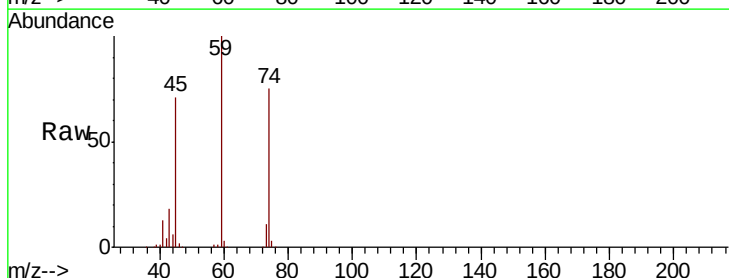
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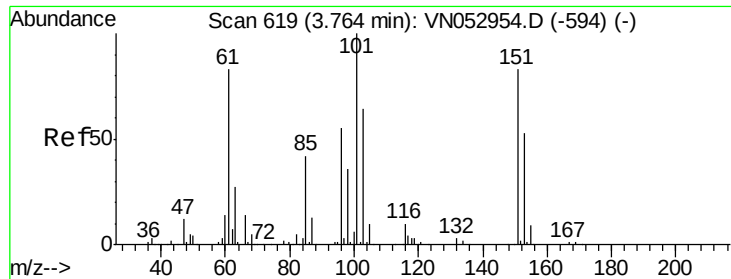


#8

Diethyl Ether
 Concen: 52.145 ug/l
 RT: 3.41 min Scan# 510
 Delta R.T. 0.00 min
 Lab File: VN053040.D
 Acq: 20 Dec 2018 5:03

Tgt Ion	Ratio	Lower	Upper
74	100		
45	94.2	49.4	148.0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 45.639 ug/l

RT: 3.76 min Scan# 619

Delta R.T. -0.00 min

Lab File: VN053040.D

Acq: 20 Dec 2018 5:03

Instrument :

MSVOA_N

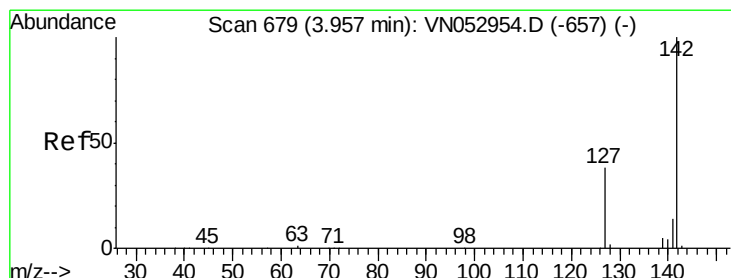
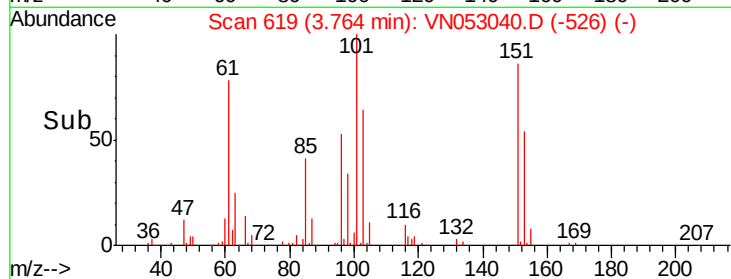
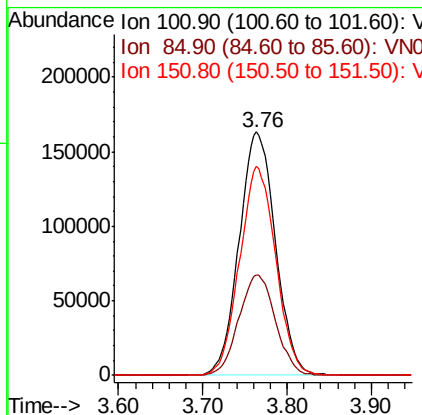
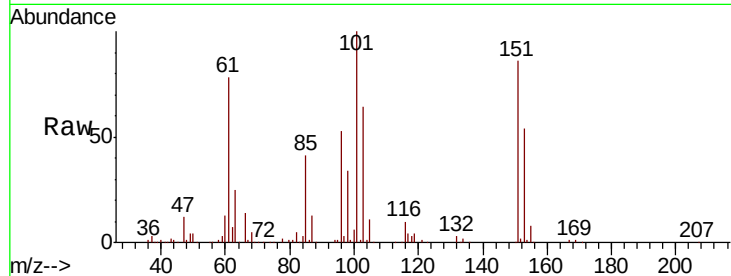
ClientSampleId :

EP1-MW-K(12-13FT)1218MSD

Tot Ion:	101	Resp:	489249
Ion Ratio	Lower	Upper	
101	100		
85	41.6	33.6	50.4
151	85.4	65.5	98.3

Manual Integrations
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#10

Methyl Iodide

Concen: 49.584 ug/l

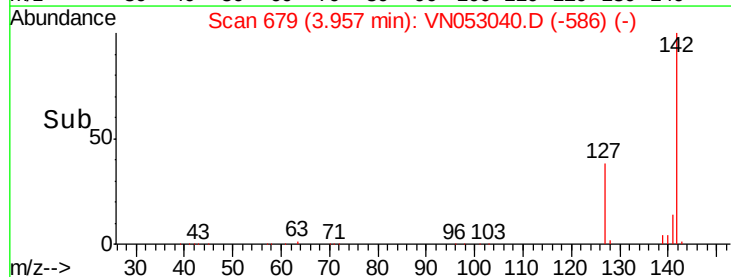
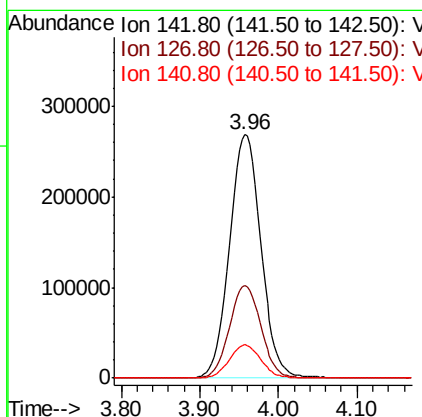
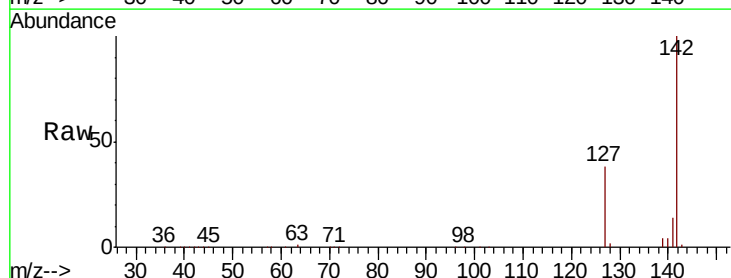
RT: 3.96 min Scan# 679

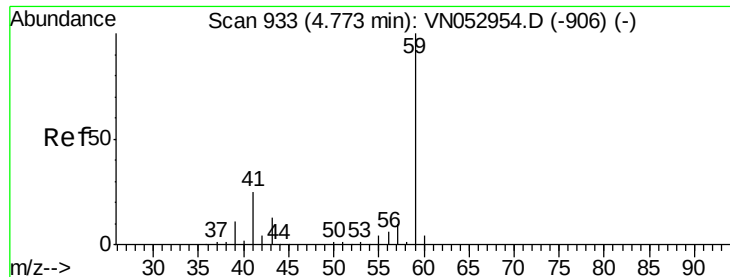
Delta R.T. -0.00 min

Lab File: VN053040.D

Acq: 20 Dec 2018 5:03

Tgt Ion:	142	Resp:	746453
Ion Ratio	Lower	Upper	
142	100		
127	38.2	31.0	46.6
141	13.8	11.2	16.8





#11

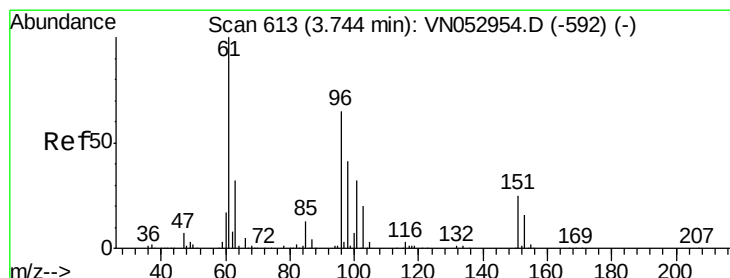
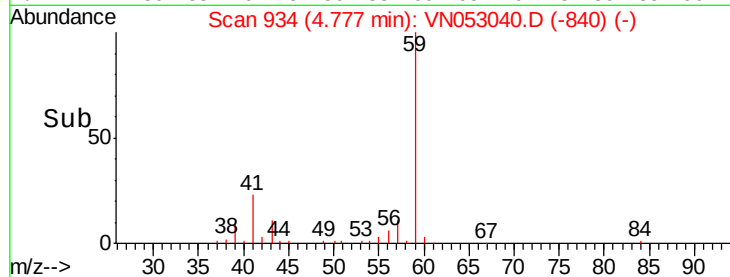
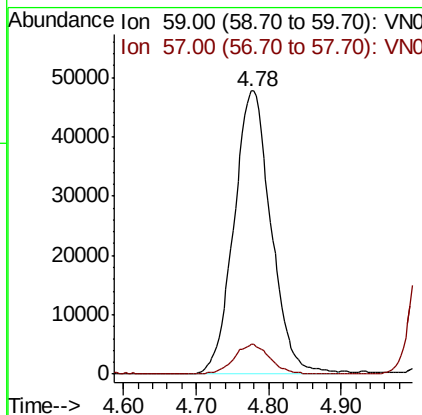
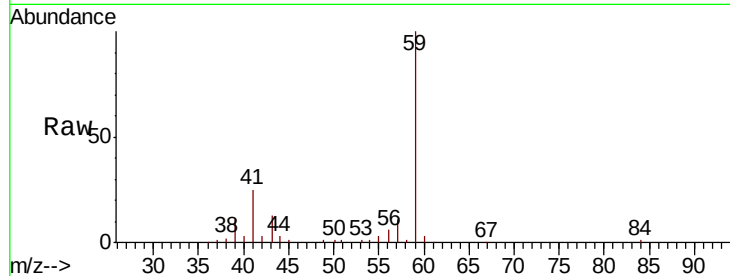
Tert butyl alcohol
Concen: 252.964 ug/l
RT: 4.78 min Scan# 934
Delta R.T. 0.00 min
Lab File: VN053040.D
Acq: 20 Dec 2018 5:03

Instrument :
MSVOA_N
ClientSampleId :
EP1-MW-K(12-13FT)1218MSD

Tot Ion	Ratio	Lower	Upper
59	100		
57	10.1	7.7	11.5

Manual Integrations
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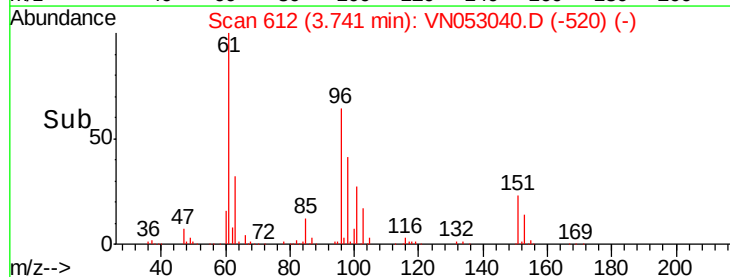
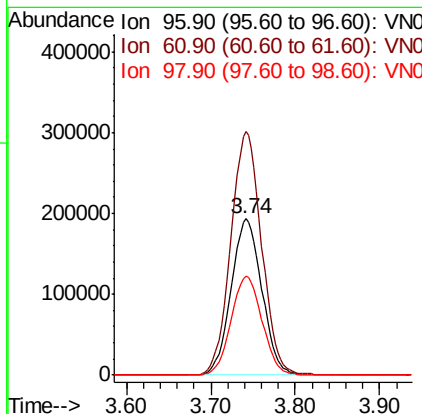
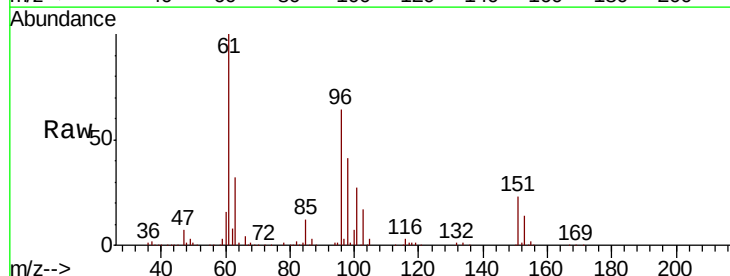
MMDadoda
12/20/2018 12:13:11 PM

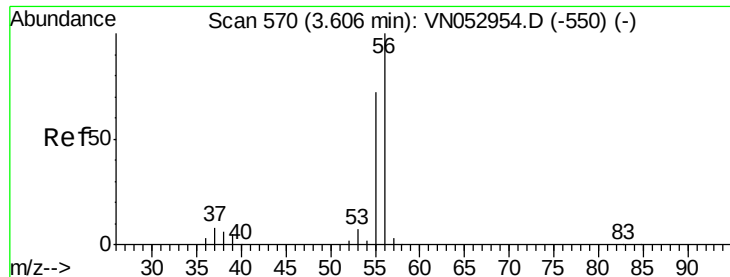


#12

1,1-Dichloroethene
Concen: 47.398 ug/l
RT: 3.74 min Scan# 612
Delta R.T. -0.00 min
Lab File: VN053040.D
Acq: 20 Dec 2018 5:03

Tgt Ion	Ratio	Lower	Upper
96	100		
61	156.0	125.6	188.4
98	63.6	50.6	75.8





#13

Acrolein

Concen: 304.310 ug/l

RT: 3.61 min Scan# 570

Delta R.T. -0.00 min

Lab File: VN053040.D

Acq: 20 Dec 2018 5:03

Instrument :

MSVOA_N

ClientSampleId :

EP1-MW-K(12-13FT)1218MSD

Tot Ion: 56 Resp: 185652

Ion Ratio Lower Upper

56 100

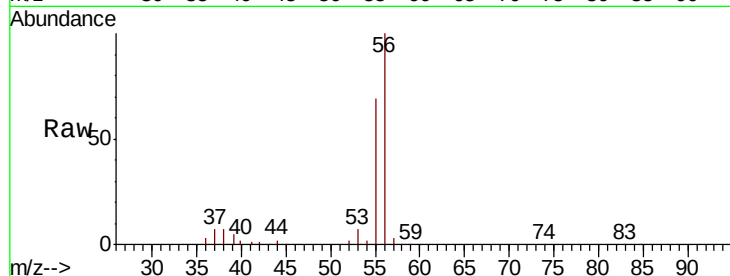
55 72.0 56.6 85.0

Manual Integrations

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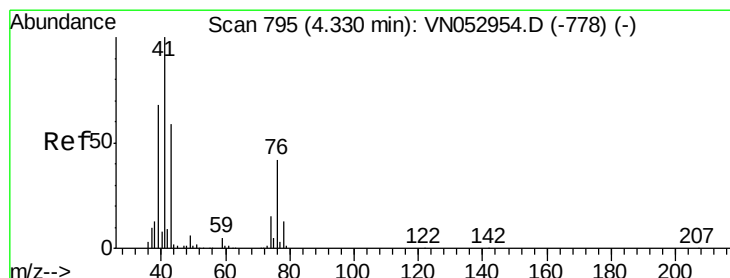
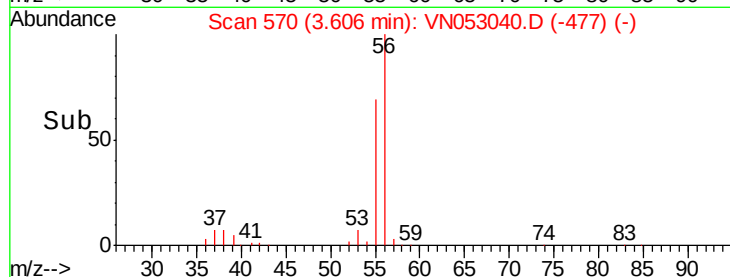
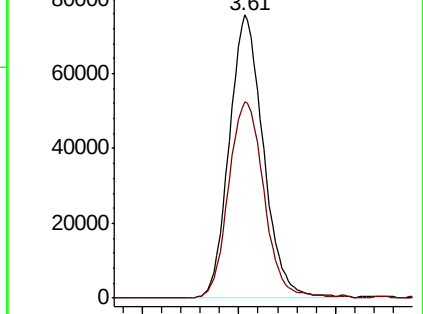
MMDadoda

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Abundance Ion 56.00 (55.70 to 56.70): VN053040.D (-477) (-)

Ion 55.00 (54.70 to 55.70): VN053040.D (-477) (-)



#14

Allyl chloride

Concen: 51.098 ug/l

RT: 4.33 min Scan# 794

Delta R.T. -0.00 min

Lab File: VN053040.D

Acq: 20 Dec 2018 5:03

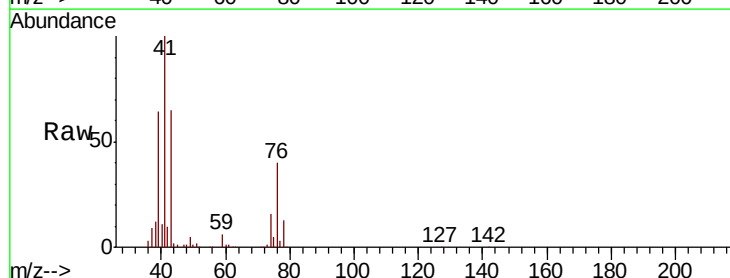
Tgt Ion: 41 Resp: 819730

Ion Ratio Lower Upper

41 100

39 61.1 54.1 81.1

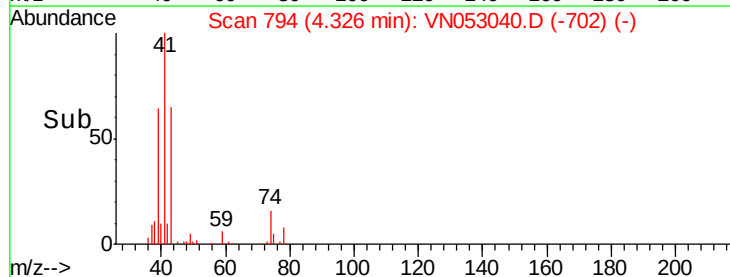
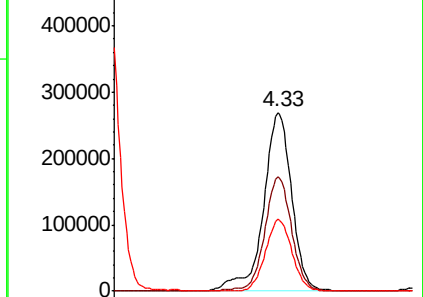
76 37.3 30.3 45.5

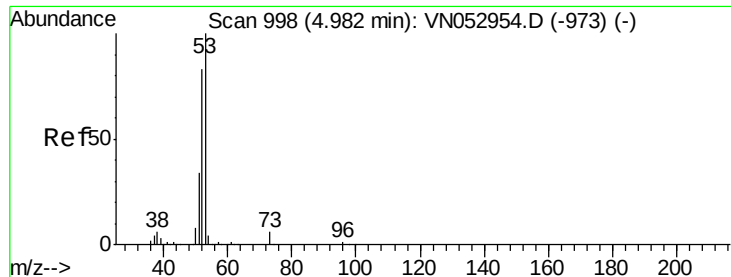


Abundance Ion 41.00 (40.70 to 41.70): VN053040.D (-702) (-)

Ion 39.00 (38.70 to 39.70): VN053040.D (-702) (-)

Ion 75.90 (75.60 to 76.60): VN053040.D (-702) (-)





#15

Acrylonitrile

Concen: 256.178 ug/l

RT: 4.99 min Scan# 999

Delta R.T. 0.00 min

Lab File: VN053040.D

Acq: 20 Dec 2018 5:03

Instrument :

MSVOA_N

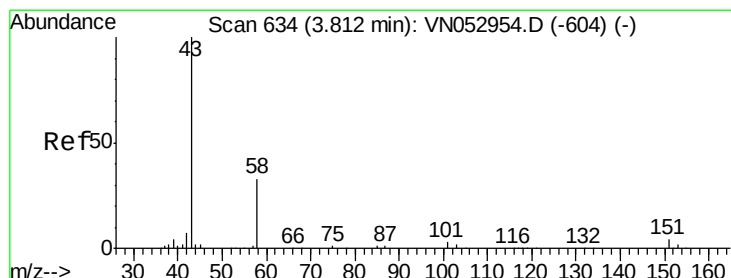
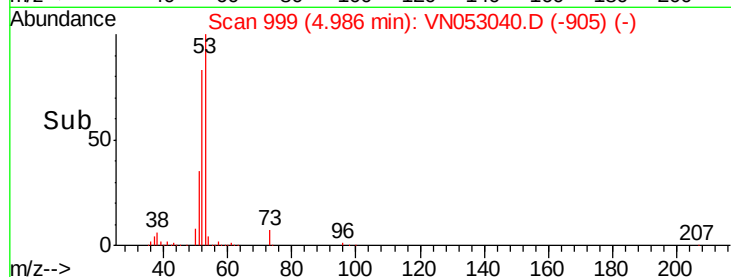
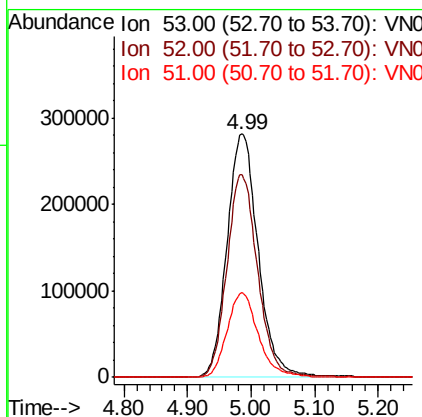
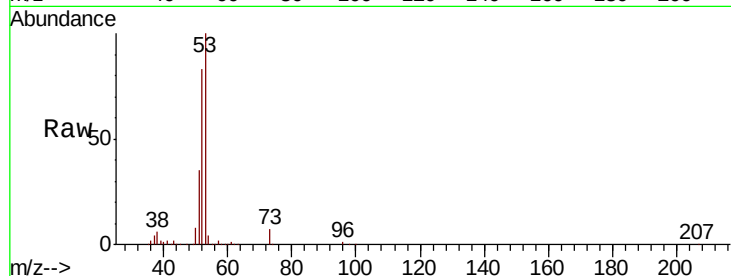
ClientSampleId :

EP1-MW-K(12-13FT)1218MSD

Tot Ion:	53	Resp:	957556
Ion Ratio		Lower	Upper
53	100		
52	82.4	65.1	97.7
51	35.1	28.1	42.1

Manual Integrations
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#16

Acetone

Concen: 273.530 ug/l

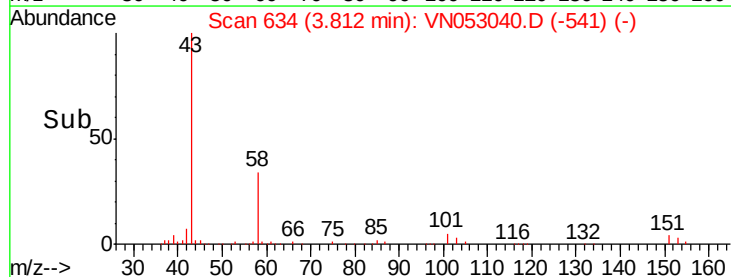
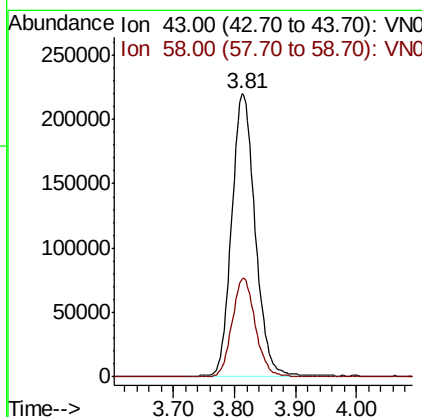
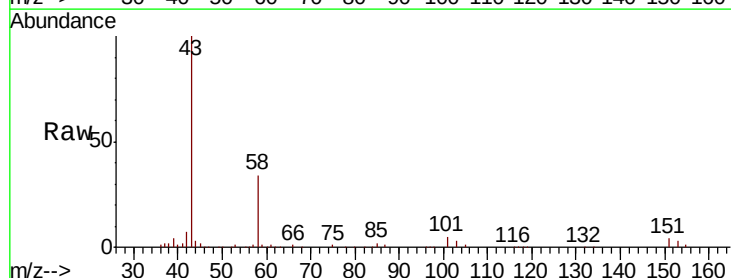
RT: 3.81 min Scan# 634

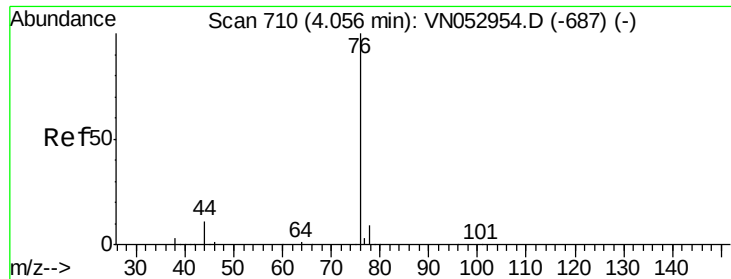
Delta R.T. 0.00 min

Lab File: VN053040.D

Acq: 20 Dec 2018 5:03

Tgt Ion:	43	Resp:	591382
Ion Ratio		Lower	Upper
43	100		
58	34.5	25.4	38.0





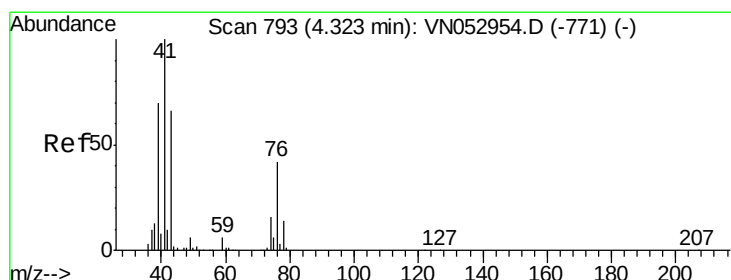
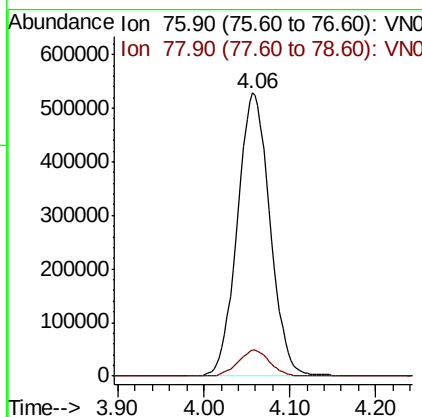
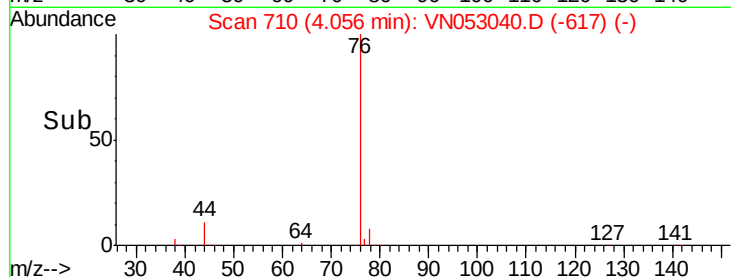
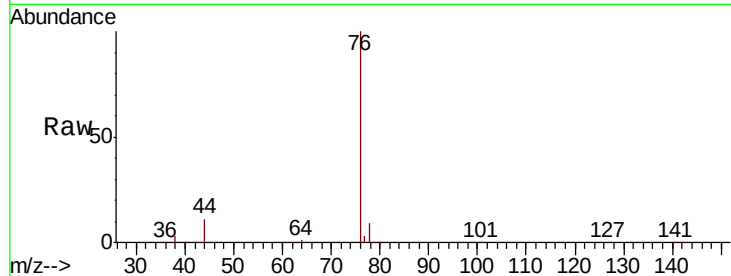
#17
Carbon Disulfide
Concen: 41.224 ug/l
RT: 4.06 min Scan# 710
Delta R.T. 0.00 min
Lab File: VN053040.D
Acq: 20 Dec 2018 5:03

Instrument :
MSVOA_N
ClientSampleId :
EP1-MW-K(12-13FT)1218MSD

Tot Ion: 76 Resp: 1392362
Ion Ratio Lower Upper
76 100
78 9.1 7.1 10.7

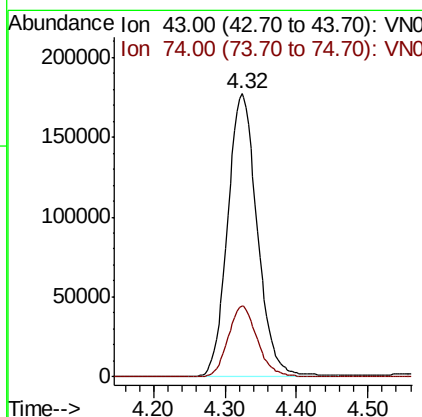
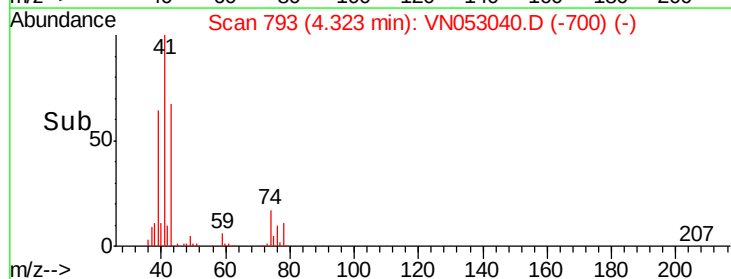
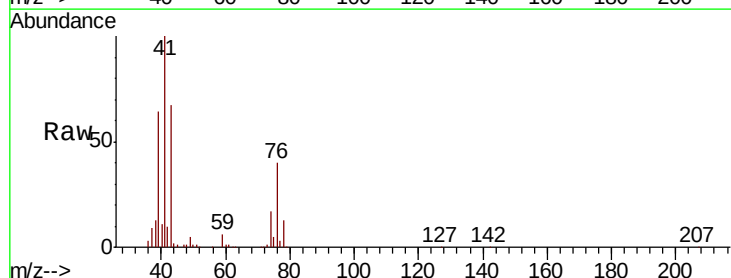
Manual Integrations
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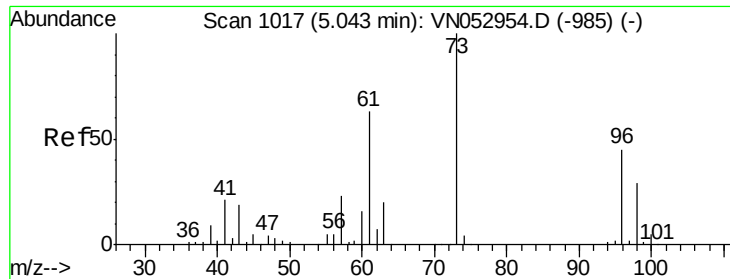
MMDadoda
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#18
Methyl Acetate
Concen: 52.141 ug/l
RT: 4.32 min Scan# 793
Delta R.T. 0.00 min
Lab File: VN053040.D
Acq: 20 Dec 2018 5:03

Tgt Ion: 43 Resp: 512084
Ion Ratio Lower Upper
43 100
74 24.9 19.2 28.8





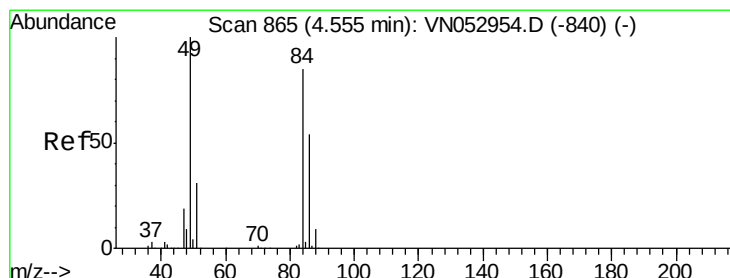
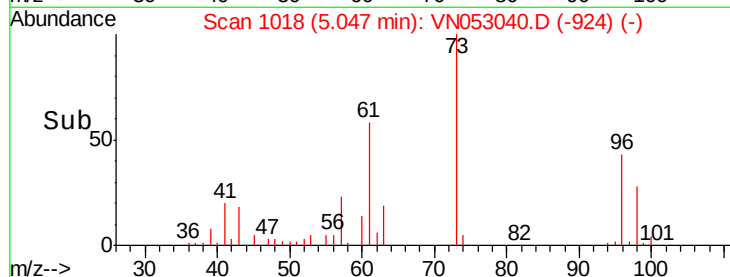
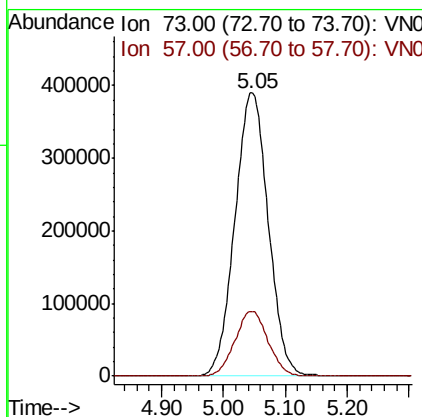
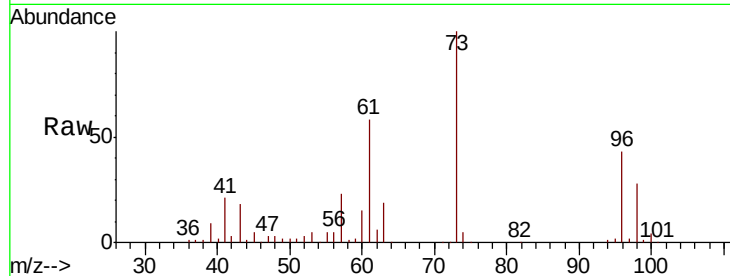
#19
Methyl tert-butyl Ether
Concen: 52.820 ug/l
RT: 5.05 min Scan# 1018
Delta R.T. 0.00 min
Lab File: VN053040.D
Acq: 20 Dec 2018 5:03

Instrument :
MSVOA_N
ClientSampleId :
EP1-MW-K(12-13FT)1218MSD

Tot Ion: 73 Resp: 1463943
Ion Ratio Lower Upper
73 100
57 22.9 18.4 27.6

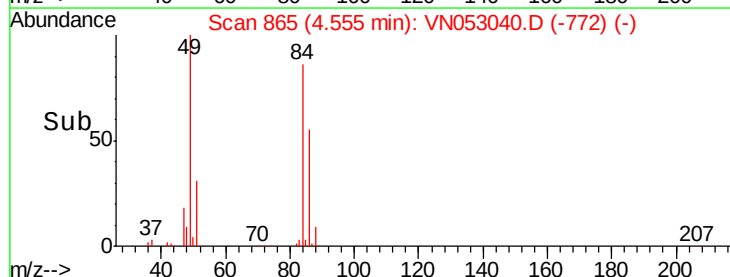
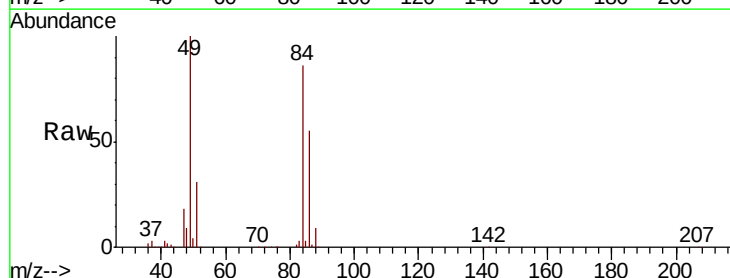
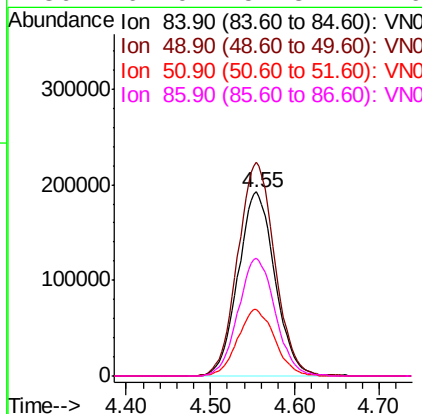
Manual Integrations
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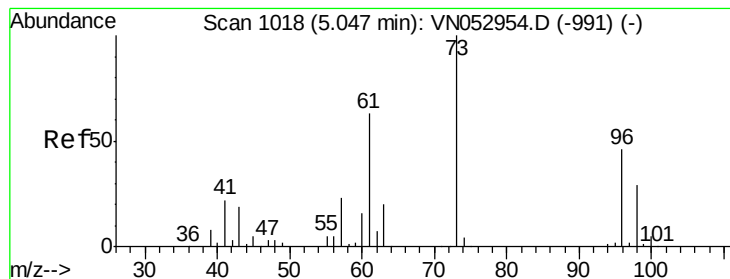
MMDadoda
12/20/2018 12:13:11 PM



#20
Methylene Chloride
Concen: 49.506 ug/l
RT: 4.55 min Scan# 865
Delta R.T. 0.00 min
Lab File: VN053040.D
Acq: 20 Dec 2018 5:03

Tgt Ion: 84 Resp: 583853
Ion Ratio Lower Upper
84 100
49 116.1 96.8 145.2
51 36.2 29.9 44.9
86 64.0 51.8 77.6





#21

trans-1,2-Dichloroethene

Concen: 48.431 ug/l

RT: 5.04 min Scan# 1017

Delta R.T. -0.00 min

Lab File: VN053040.D

Acq: 20 Dec 2018 5:03

Instrument :

MSVOA_N

ClientSampleId :

EP1-MW-K(12-13FT)1218MSD

Tot Ion: 96 Resp: 538910

Ion Ratio Lower Upper

96 100

61 136.2 110.8 166.2

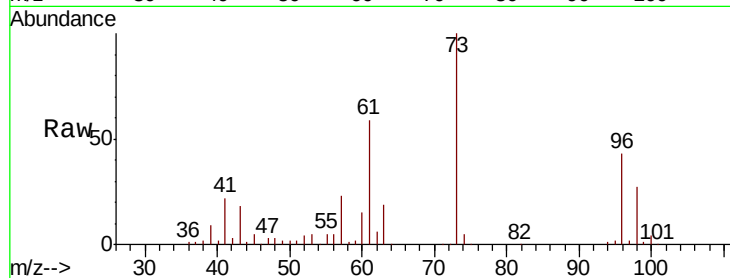
98 63.6 51.4 77.2

Manual Integrations

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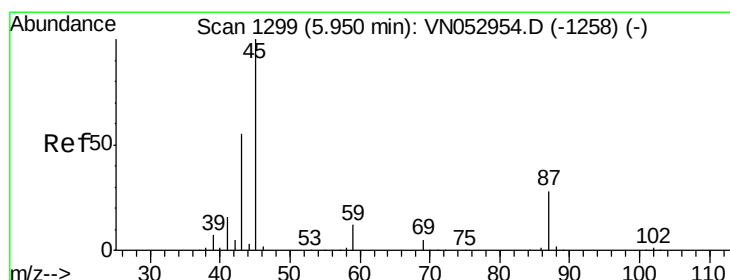
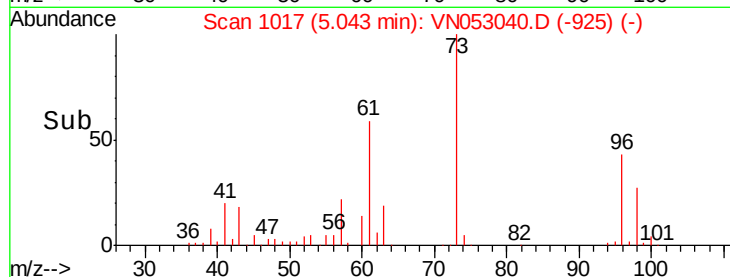
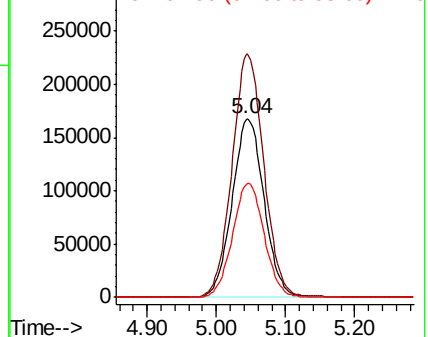


Abundance

Ion 95.90 (95.60 to 96.60): VN0

Ion 60.90 (60.60 to 61.60): VN0

Ion 97.90 (97.60 to 98.60): VN0



#22

Diisopropyl ether

Concen: 52.996 ug/l

RT: 5.95 min Scan# 1300

Delta R.T. 0.00 min

Lab File: VN053040.D

Acq: 20 Dec 2018 5:03

Tgt Ion: 45 Resp: 1814732

Ion Ratio Lower Upper

45 100

43 52.6 45.5 68.3

87 28.5 22.0 33.0

59 12.1 9.4 14.0

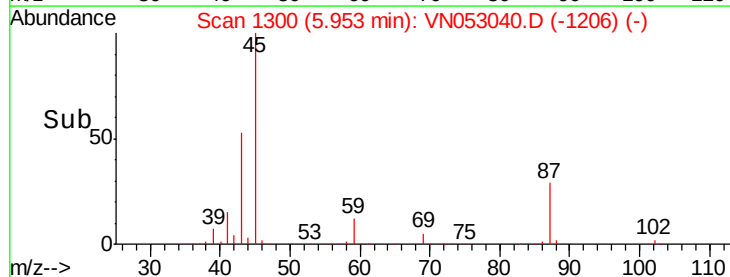
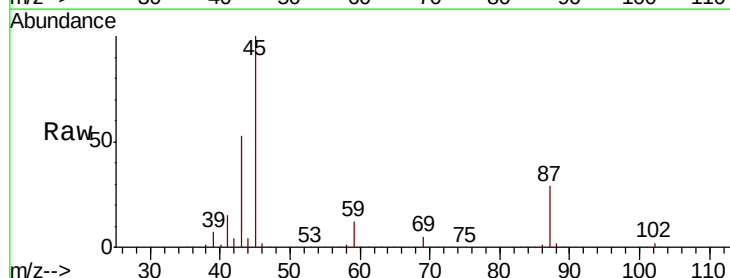
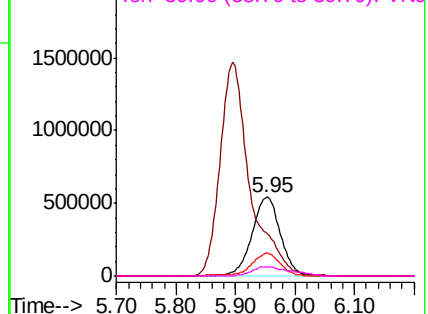
Abundance

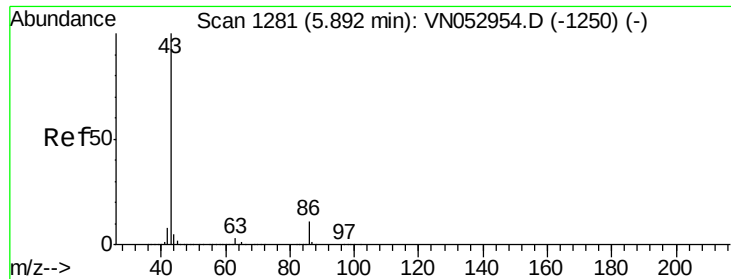
Ion 45.00 (44.70 to 45.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 87.00 (86.70 to 87.70): VN0

Ion 59.00 (58.70 to 59.70): VN0





#23

Vinyl Acetate

Concen: 261.190 ug/l

RT: 5.90 min Scan# 1282

Delta R.T. 0.00 min

Lab File: VN053040.D

Acq: 20 Dec 2018 5:03

Instrument :

MSVOA_N

ClientSampleId :

EP1-MW-K(12-13FT)1218MSD

Tot Ion: 43 Resp: 5142953

Ion Ratio Lower Upper

43 100

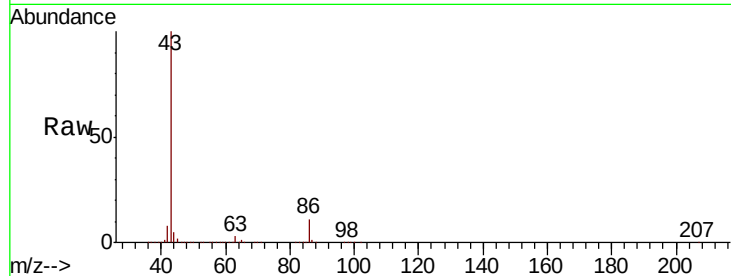
86 10.8 8.1 12.1

Manual Integrations

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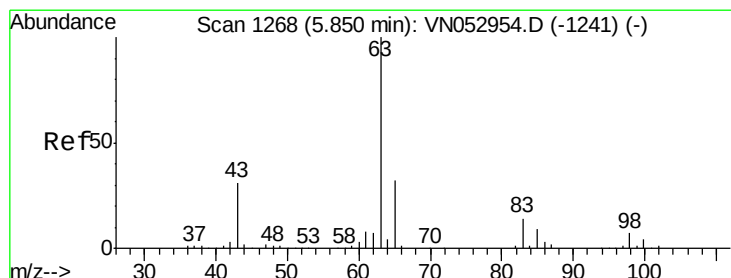
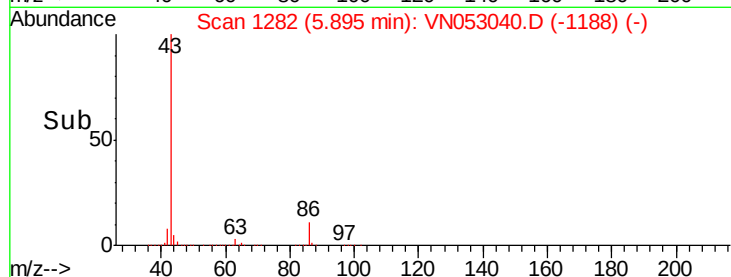
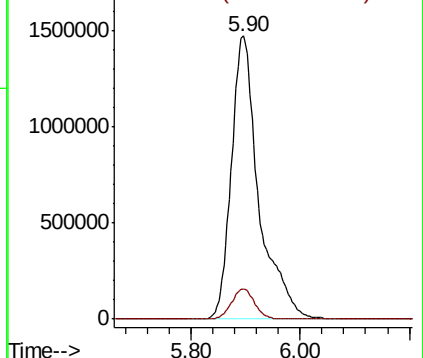
MMDadoda

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Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 86.00 (85.70 to 86.70): VN0



#24

1,1-Dichloroethane

Concen: 50.601 ug/l

RT: 5.85 min Scan# 1268

Delta R.T. -0.00 min

Lab File: VN053040.D

Acq: 20 Dec 2018 5:03

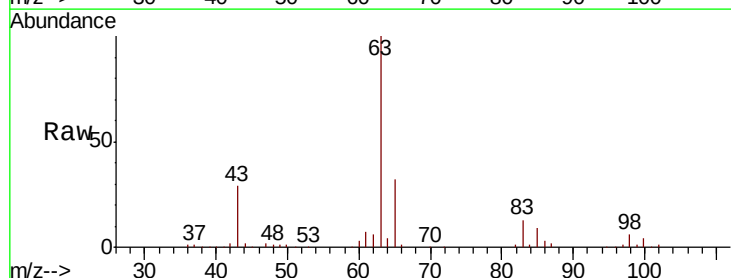
Tgt Ion: 63 Resp: 1029613

Ion Ratio Lower Upper

63 100

98 6.3 3.1 9.4

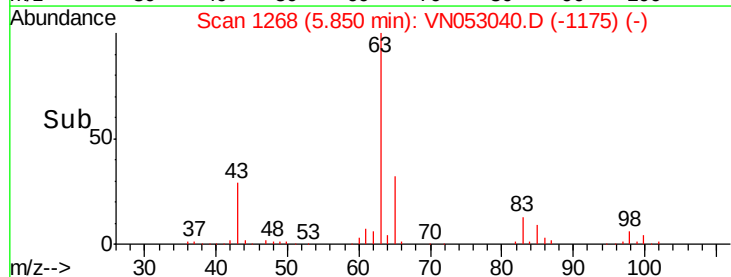
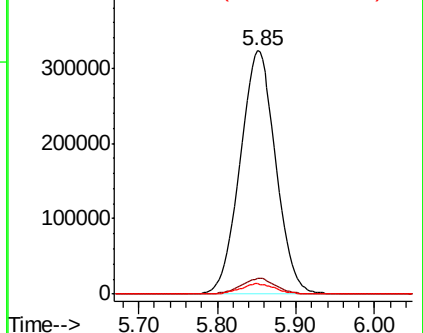
100 4.2 2.0 5.8

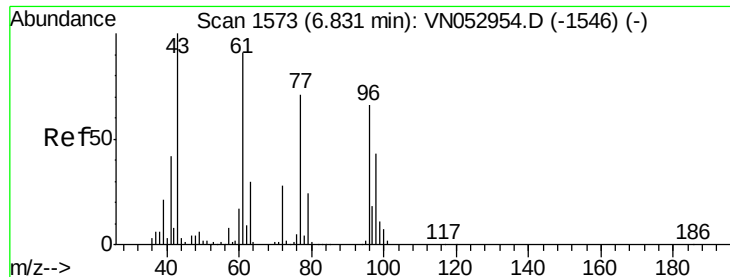


Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 97.90 (97.60 to 98.60): VN0

Ion 99.90 (99.60 to 100.60): VN0





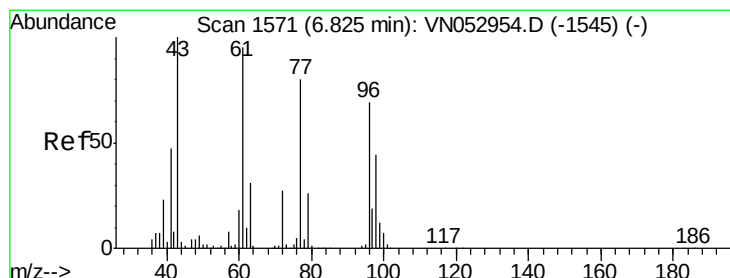
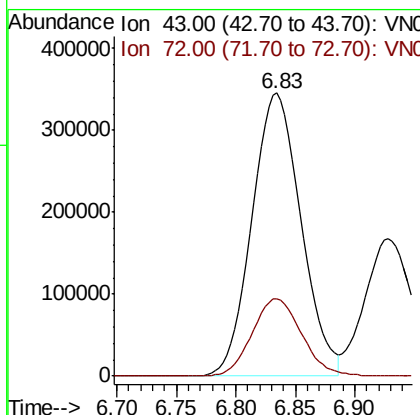
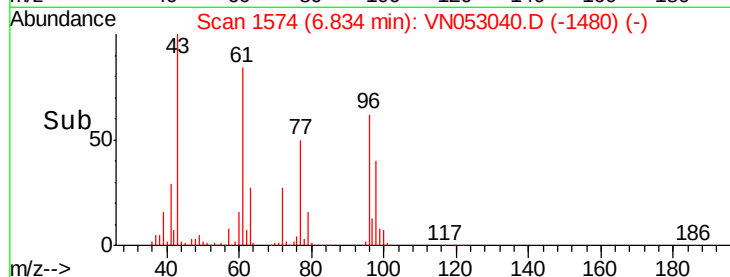
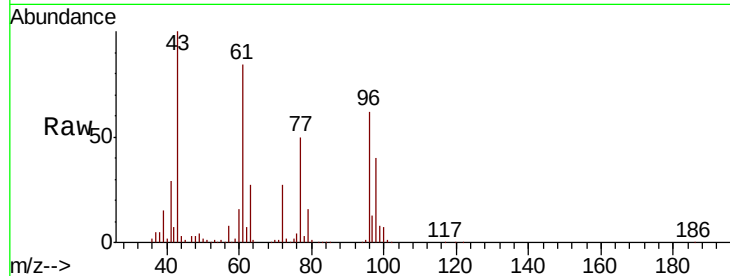
#25
2-Butanone
Concen: 271.630 ug/l
RT: 6.83 min Scan# 1574
Delta R.T. 0.00 min
Lab File: VN053040.D
Acq: 20 Dec 2018 5:03

Instrument :
MSVOA_N
ClientSampleId :
EP1-MW-K(12-13FT)1218MSD

Tot Ion: 43 Resp: 985591
Ion Ratio Lower Upper
43 100
72 27.4 21.0 31.6

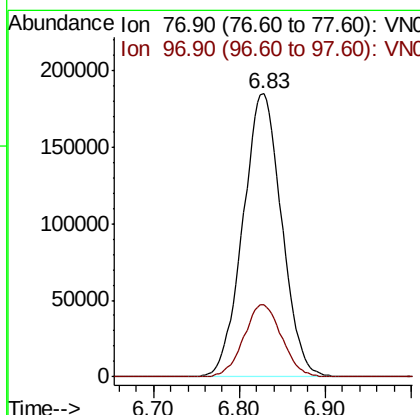
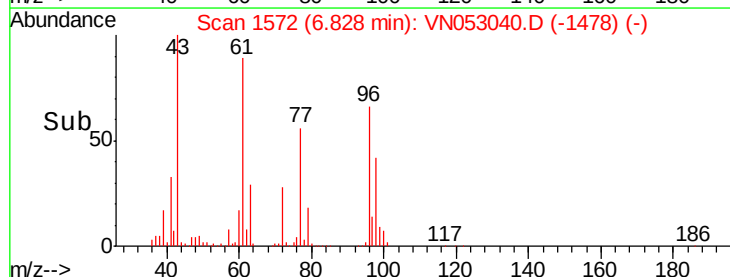
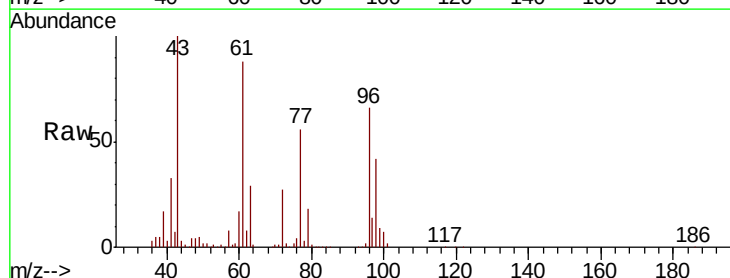
Manual Integrations
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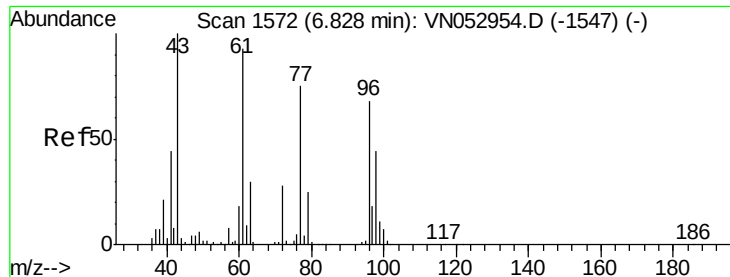
MMDadoda
12/20/2018 12:13:11 PM



#26
2,2-Dichloropropane
Concen: 37.302 ug/l
RT: 6.83 min Scan# 1572
Delta R.T. 0.00 min
Lab File: VN053040.D
Acq: 20 Dec 2018 5:03

Tgt Ion: 77 Resp: 579400
Ion Ratio Lower Upper
77 100
97 25.1 11.9 35.9





#27

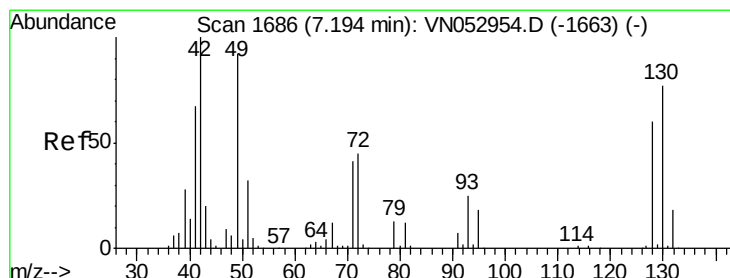
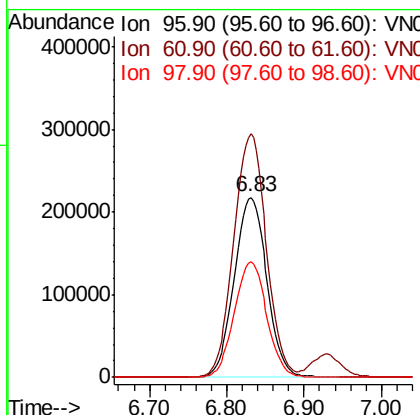
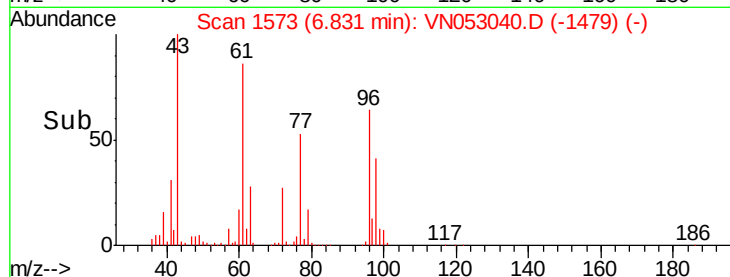
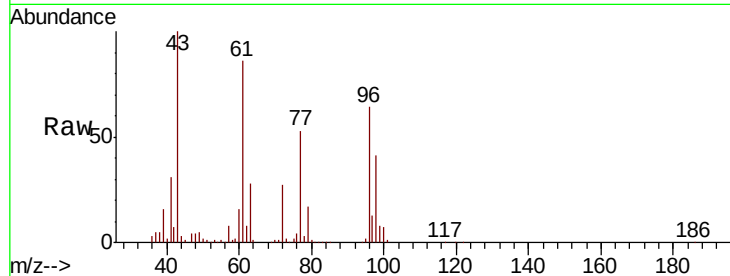
cis-1,2-Dichloroethene
 Concen: 50.591 ug/l
 RT: 6.83 min Scan# 1573
 Delta R.T. 0.00 min
 Lab File: VN053040.D
 Acq: 20 Dec 2018 5:03

Instrument :
 MSVOA_N
 ClientSampleId :
 EP1-MW-K(12-13FT)1218MSD

Tot Ion	Ratio	Resp	Lower	Upper
96	100	637316		
61	135.4	0.0	284.2	
98	64.0	0.0	129.2	

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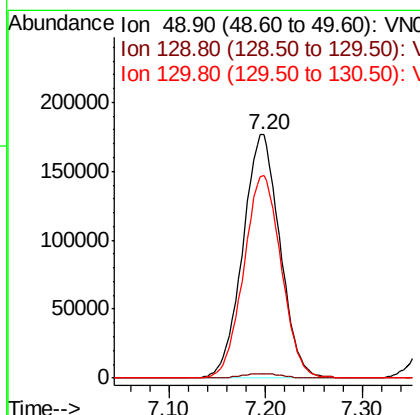
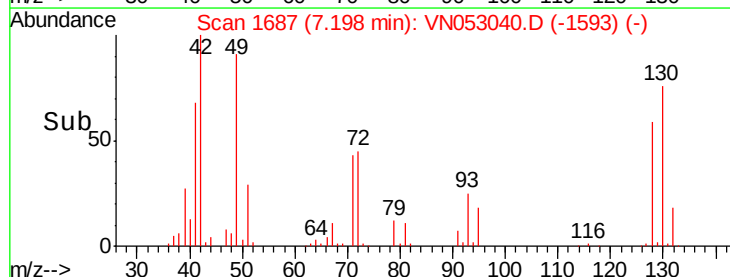
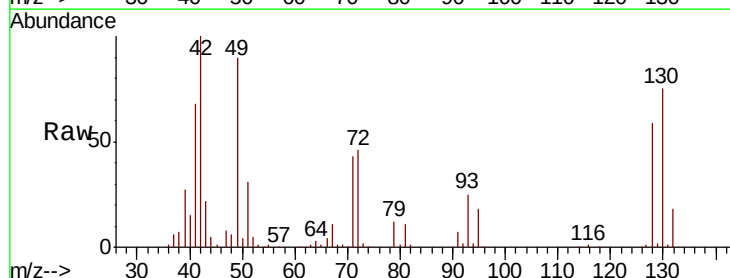
MMDadoda
 12/20/2018 12:13:11 PM

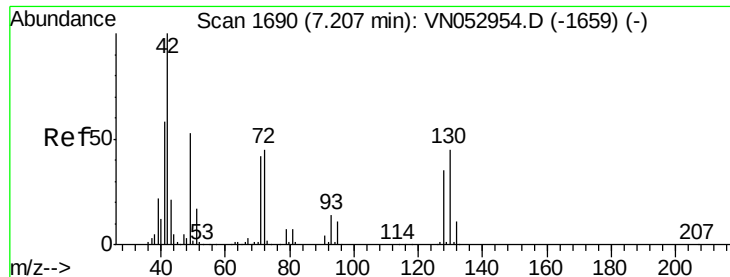


#28

Bromochloromethane
 Concen: 53.509 ug/l
 RT: 7.20 min Scan# 1687
 Delta R.T. 0.00 min
 Lab File: VN053040.D
 Acq: 20 Dec 2018 5:03

Tgt Ion	Ratio	Resp	Lower	Upper
49	100	471794		
129	2.0	0.0	4.0	
130	84.3	63.3	94.9	





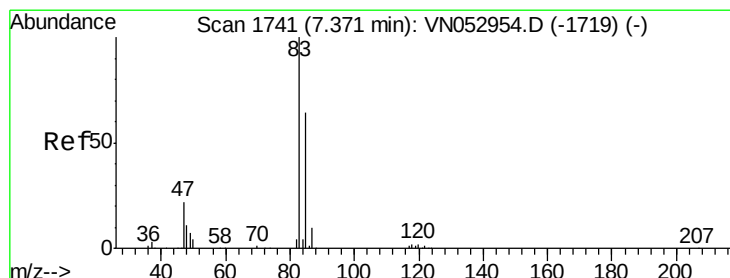
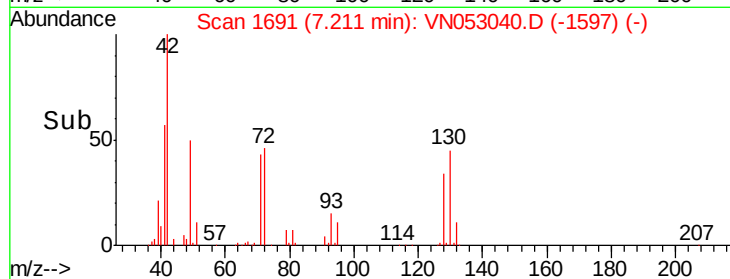
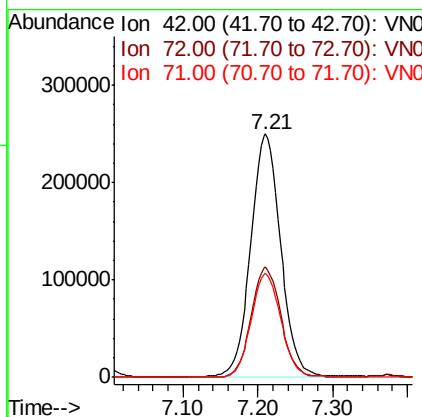
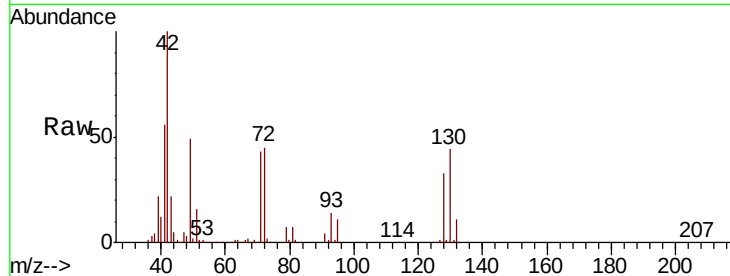
#29
Tetrahydrofuran
Concen: 257.315 ug/l
RT: 7.21 min Scan# 1691
Delta R.T. 0.00 min
Lab File: VN053040.D
Acq: 20 Dec 2018 5:03

Instrument :
MSVOA_N
ClientSampleId :
EP1-MW-K(12-13FT)1218MSD

Tot Ion	Ratio	Lower	Upper
42	100		
72	45.1	34.7	52.1
71	42.6	32.3	48.5

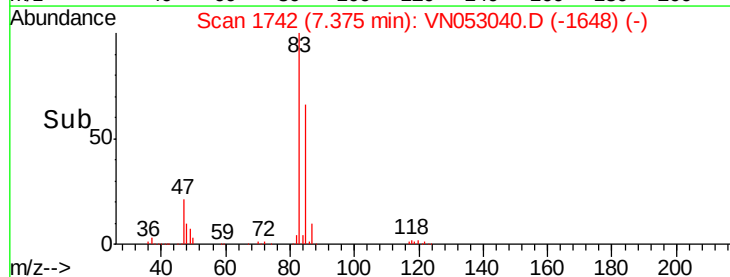
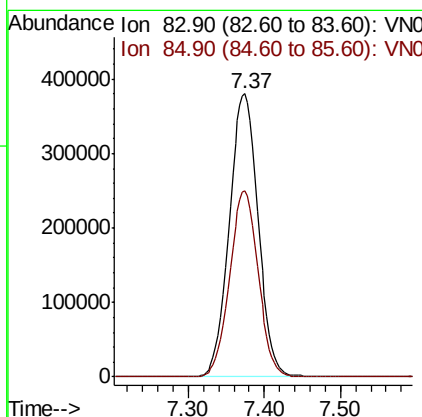
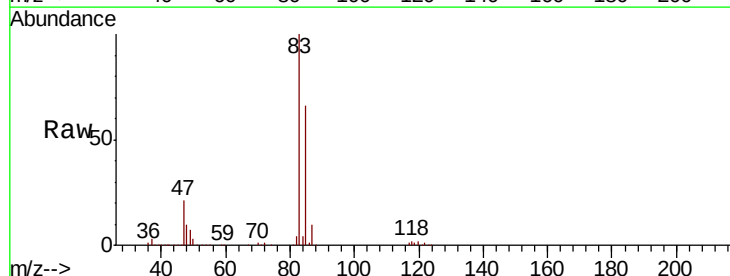
Manual Integrations
APPROVED

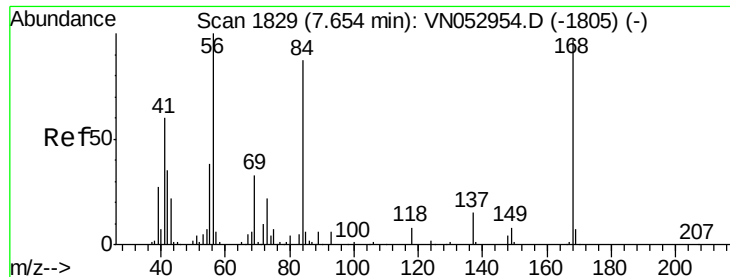
MMDadoda
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#30
Chloroform
Concen: 50.161 ug/l
RT: 7.37 min Scan# 1742
Delta R.T. 0.00 min
Lab File: VN053040.D
Acq: 20 Dec 2018 5:03

Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.8	52.1	78.1





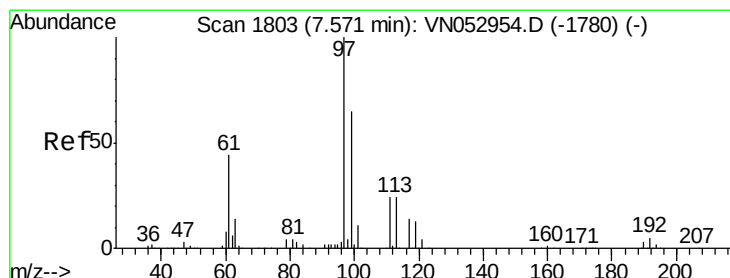
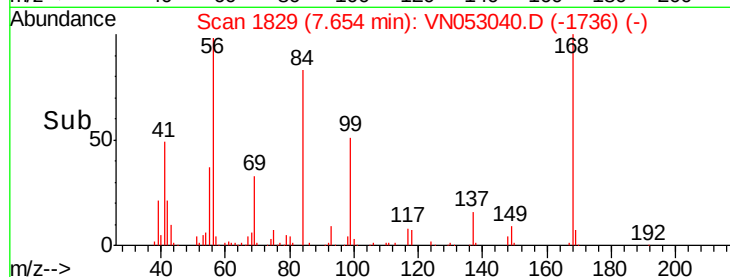
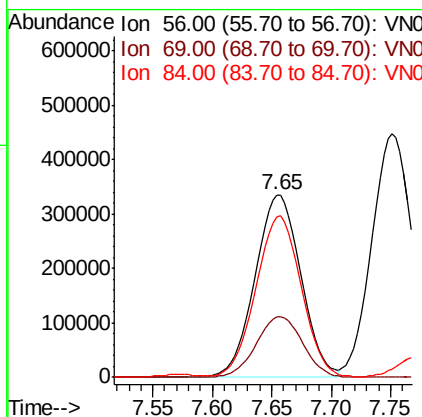
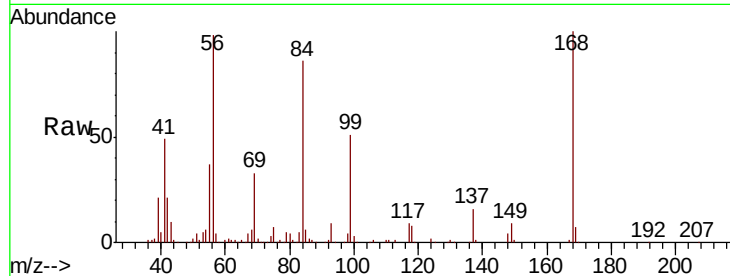
#31
Cyclohexane
Concen: 46.793 ug/l
RT: 7.65 min Scan# 1829
Delta R.T. 0.00 min
Lab File: VN053040.D
Acq: 20 Dec 2018 5:03

Instrument :
MSVOA_N
ClientSampleId :
EP1-MW-K(12-13FT)1218MSD

Tot Ion	Ratio	Lower	Upper
56	100		
69	33.2	26.6	39.8
84	86.6	68.4	102.6

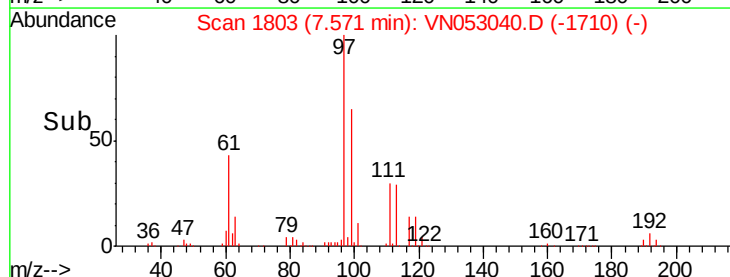
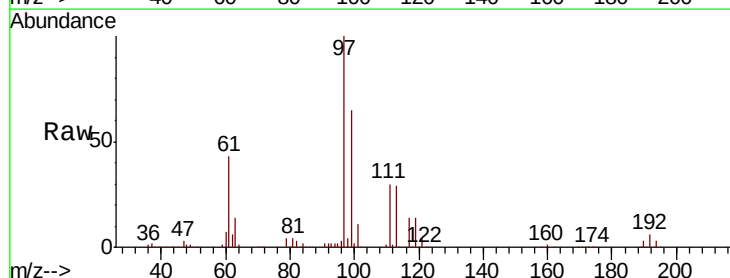
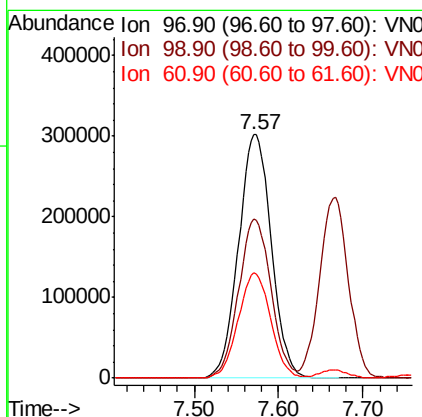
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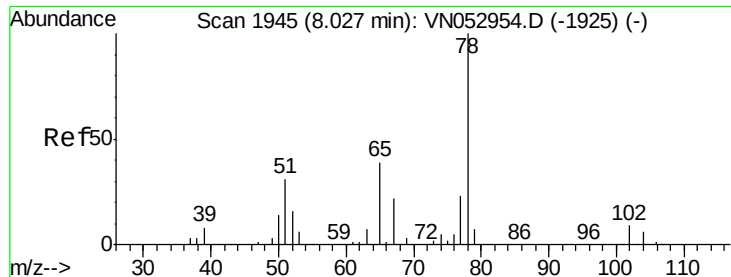
MMDadoda
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#32
1,1,1-Trichloroethane
Concen: 48.035 ug/l
RT: 7.57 min Scan# 1803
Delta R.T. 0.00 min
Lab File: VN053040.D
Acq: 20 Dec 2018 5:03

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.7	51.1	76.7
61	42.8	35.0	52.6





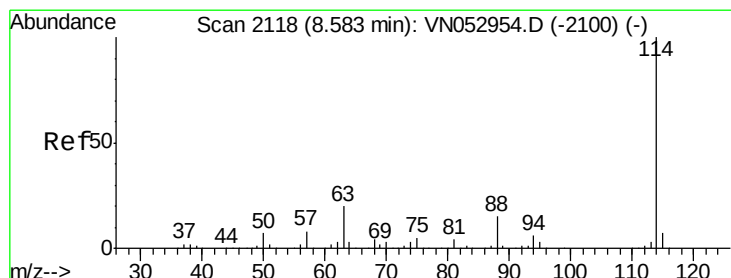
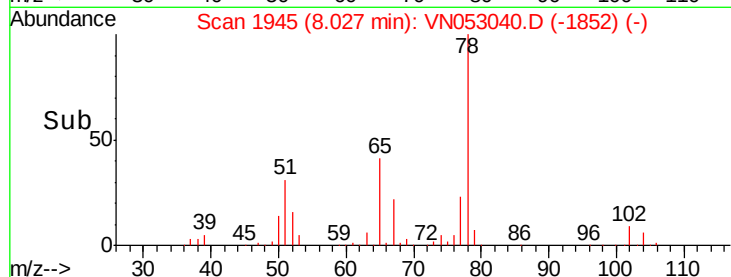
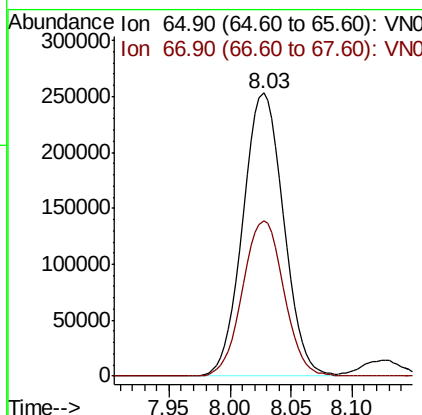
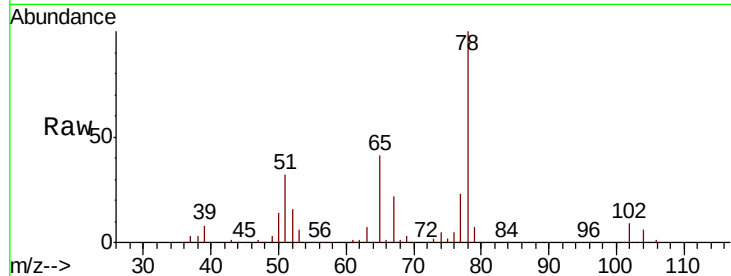
#33
 1,2-Dichloroethane-d4
 Concen: 48.035 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN053040.D
 Acq: 20 Dec 2018 5:03

Instrument :
 MSVOA_N
 ClientSampleId :
 EP1-MW-K(12-13FT)1218MSD

Tot Ion	Ratio	Resp	Lower	Upper
65	100	586567		
67	55.6	0.0	110.4	

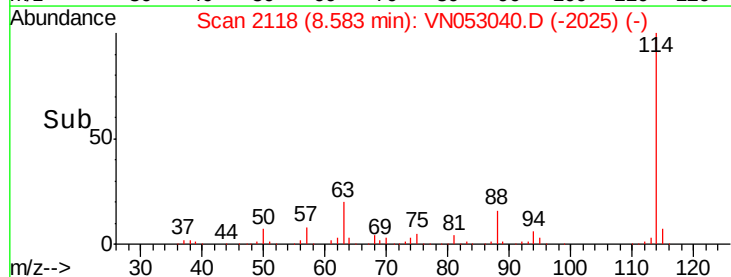
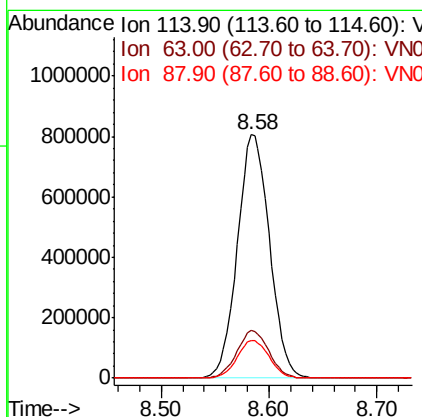
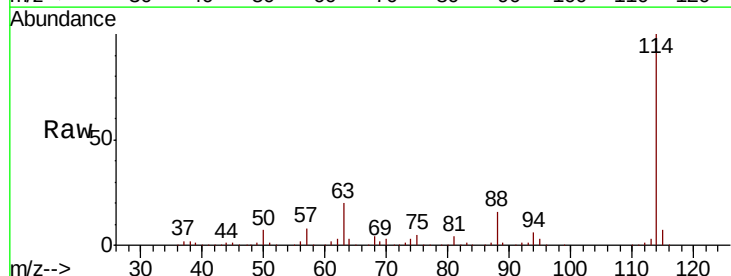
Manual Integrations
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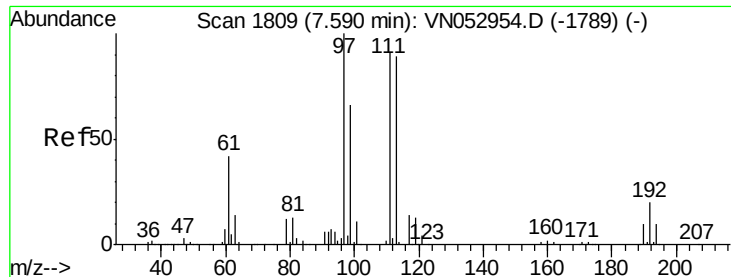
MMDadoda
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#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2118
 Delta R.T. 0.00 min
 Lab File: VN053040.D
 Acq: 20 Dec 2018 5:03

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	1672987		
63	19.5	0.0	39.8	
88	15.6	0.0	31.0	





#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 7.59 min Scan# 1809

Delta R.T. 0.00 min

Lab File: VN053040.D

Acq: 20 Dec 2018 5:03

Instrument :

MSVOA_N

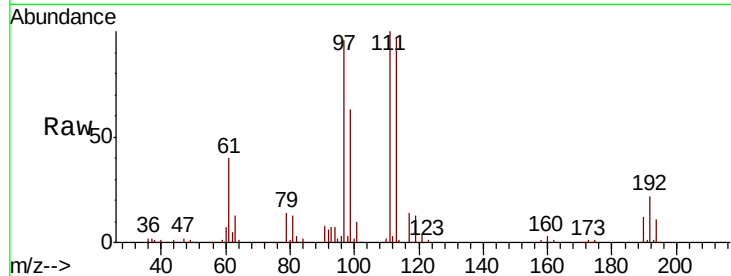
ClientSampleId :

EP1-MW-K(12-13FT)1218MSD

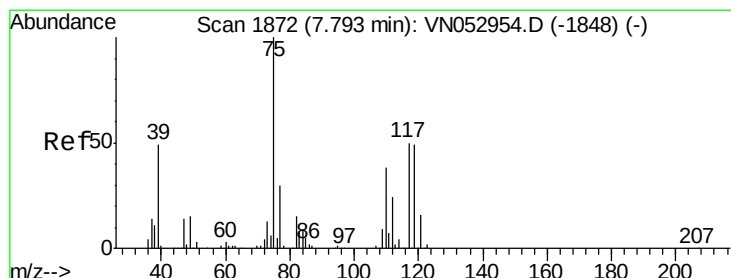
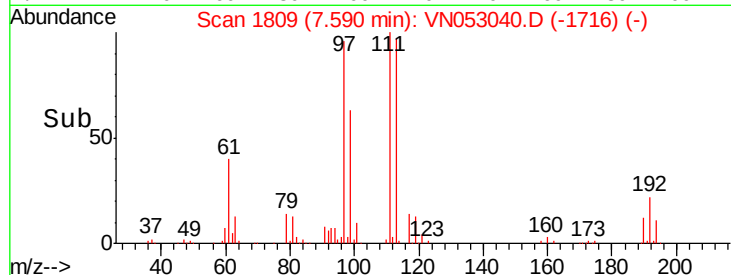
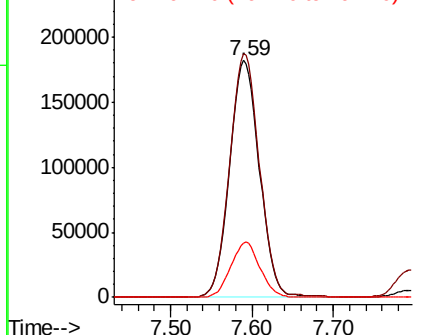
Tot Ion:	113	Resp:	466332
Ion Ratio	Lower	Upper	
113	100		
111	101.9	83.0	124.4
192	22.7	17.5	26.3

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



#36

1,1-Dichloropropene

Concen: 47.007 ug/l

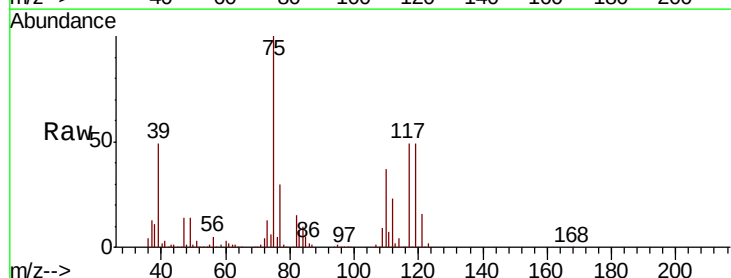
RT: 7.79 min Scan# 1872

Delta R.T. 0.00 min

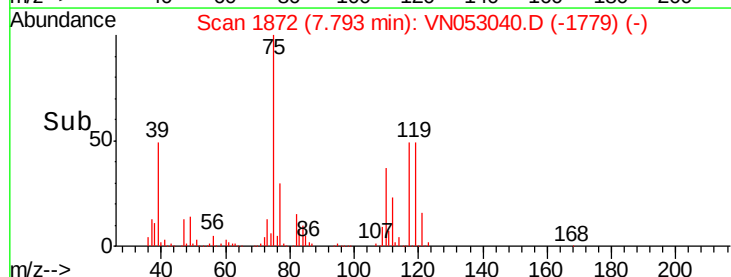
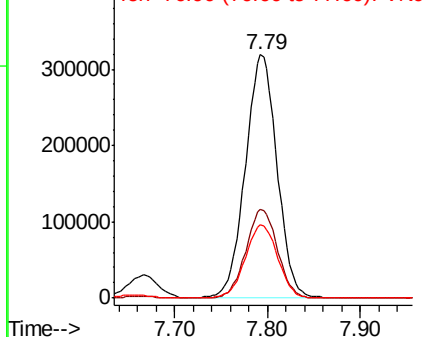
Lab File: VN053040.D

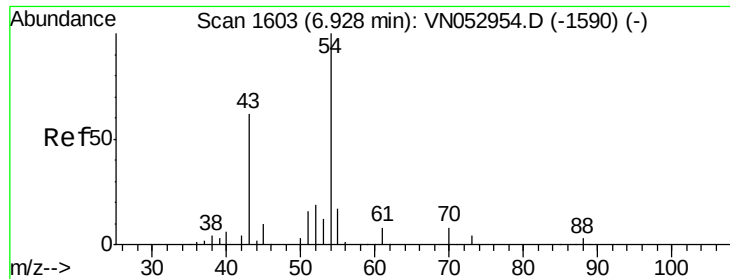
Acq: 20 Dec 2018 5:03

Tgt Ion:	75	Resp:	754835
Ion Ratio	Lower	Upper	
75	100		
110	36.4	18.2	54.6
77	31.0	24.9	37.3



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





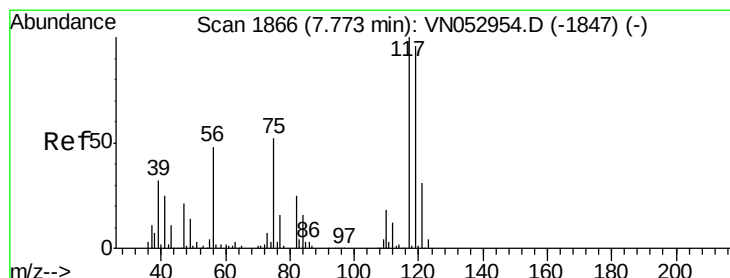
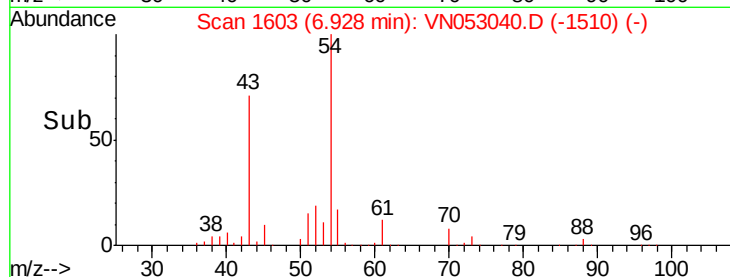
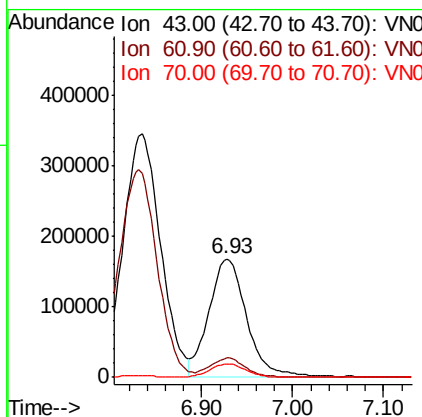
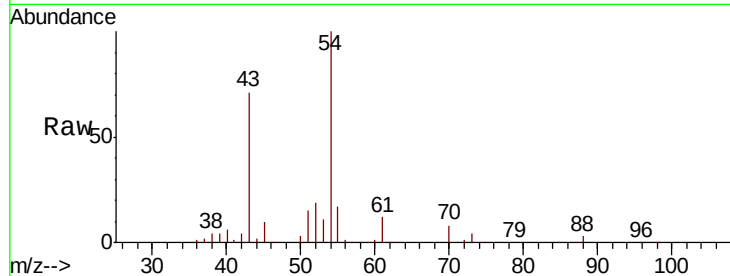
#37
Ethyl Acetate
Concen: 53.467 ug/l
RT: 6.93 min Scan# 1603
Delta R.T. 0.00 min
Lab File: VN053040.D
Acq: 20 Dec 2018 5:03

Instrument :
MSVOA_N
ClientSampleId :
EP1-MW-K(12-13FT)1218MSD

Tot Ion	Ratio	Lower	Upper
43	100		
61	15.1	11.8	17.6
70	10.8	8.4	12.6

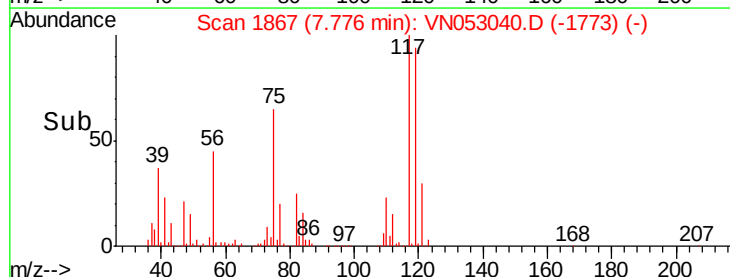
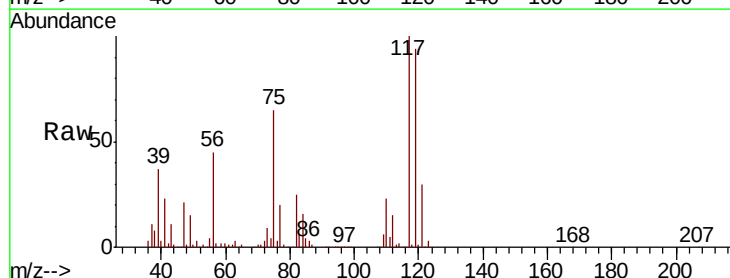
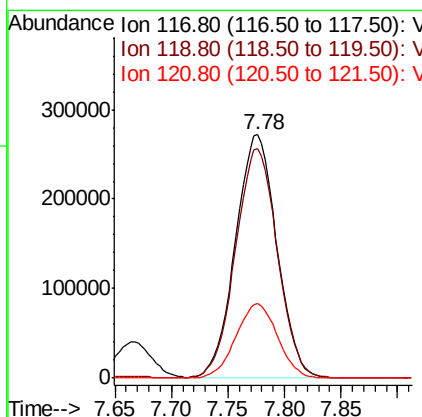
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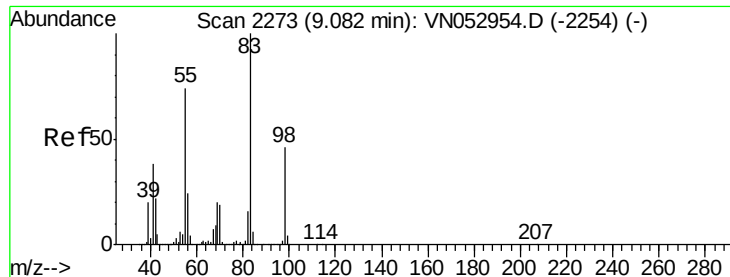
MMDadoda
12/20/2018 12:13:11 PM



#38
Carbon Tetrachloride
Concen: 46.822 ug/l
RT: 7.78 min Scan# 1867
Delta R.T. 0.00 min
Lab File: VN053040.D
Acq: 20 Dec 2018 5:03

Tgt Ion	Ratio	Lower	Upper
117	100		
119	94.2	77.1	115.7
121	30.4	24.9	37.3





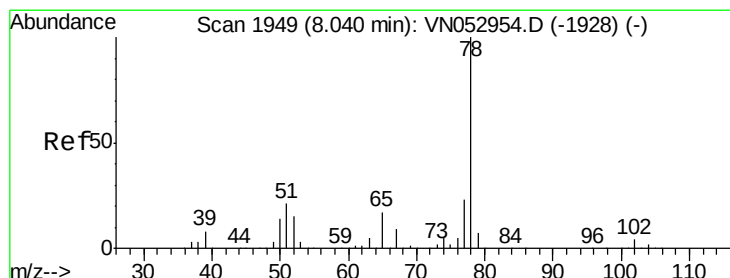
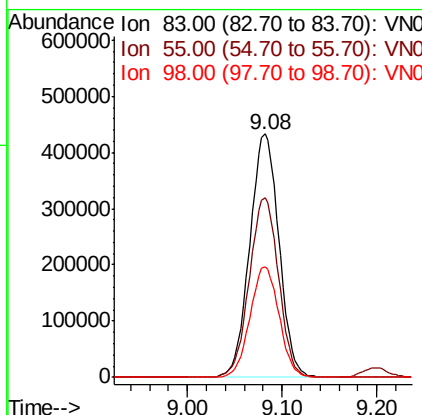
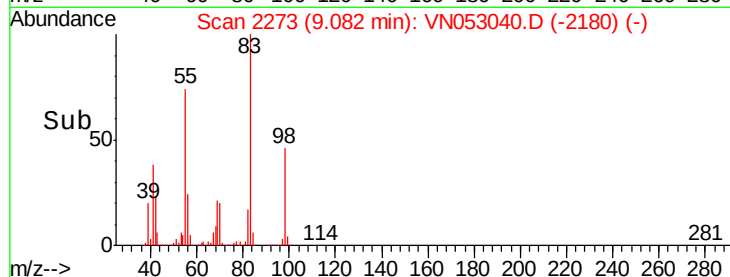
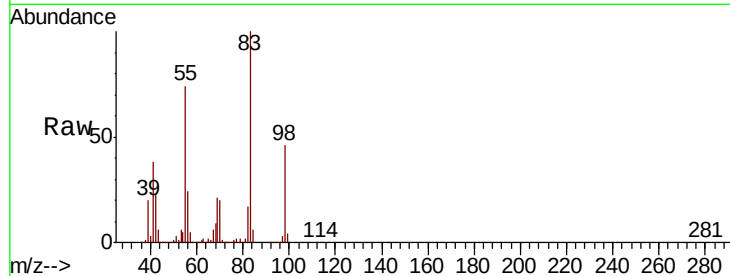
#39
Methylvlcyclohexane
Concen: 47.573 ug/l
RT: 9.08 min Scan# 2273
Delta R.T. 0.00 min
Lab File: VN053040.D
Acq: 20 Dec 2018 5:03

Instrument :
MSVOA_N
ClientSampleId :
EP1-MW-K(12-13FT)1218MSD

Tot Ion	Ratio	Lower	Upper
83	100		
55	73.8	61.3	91.9
98	45.5	37.0	55.4

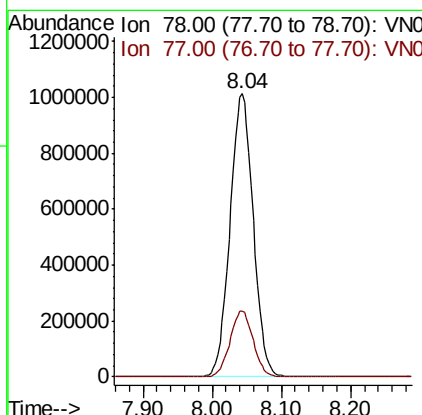
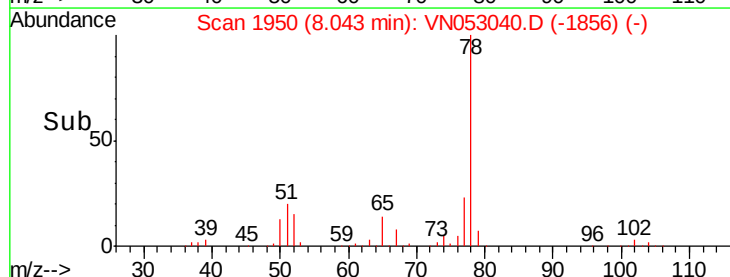
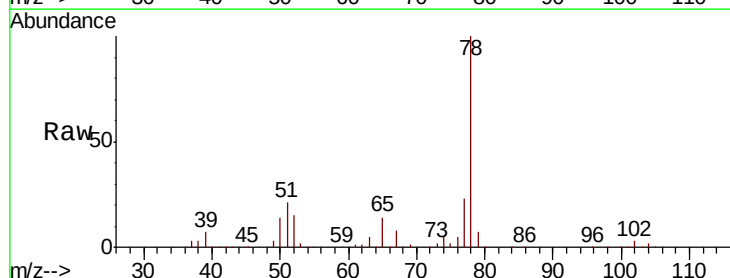
Manual Integrations
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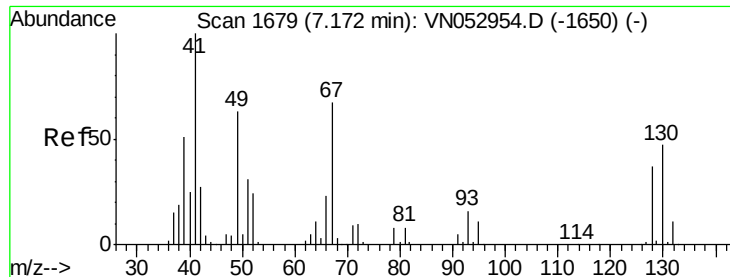
MMDadoda
12/20/2018 12:13:11 PM



#40
Benzene
Concen: 49.655 ug/l
RT: 8.04 min Scan# 1950
Delta R.T. 0.00 min
Lab File: VN053040.D
Acq: 20 Dec 2018 5:03

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.4	18.5	27.7





#41

Methacrylonitrile

Concen: 50.528 ug/l

RT: 7.17 min Scan# 1679

Delta R.T. 0.00 min

Lab File: VN053040.D

Acq: 20 Dec 2018 5:03

Instrument :

MSVOA_N

ClientSampleId :

EP1-MW-K(12-13FT)1218MSD

Tot Ion: 41 Resp: 261710

Ion Ratio Lower Upper

41 100

39 59.2 48.0 72.0

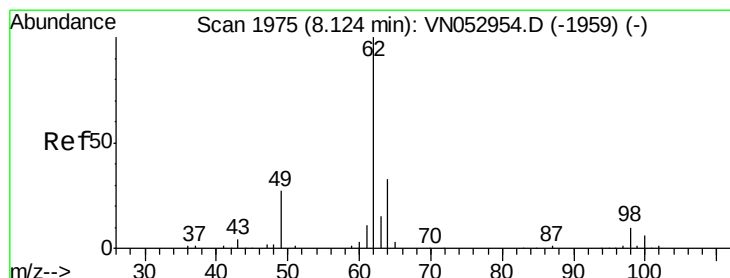
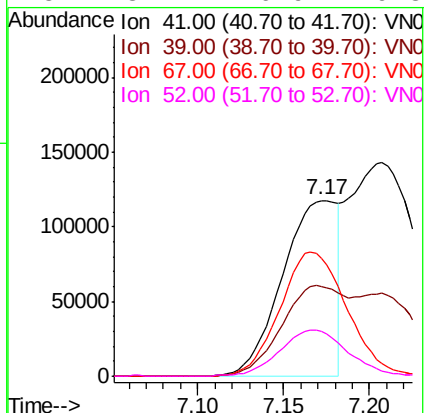
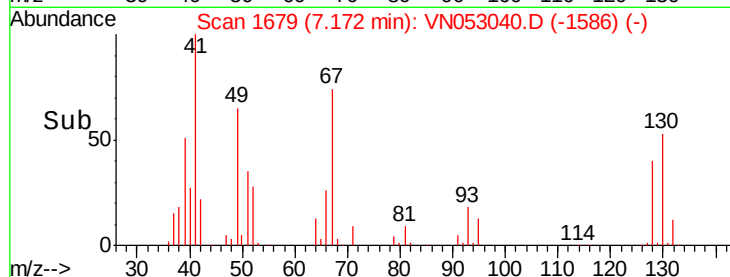
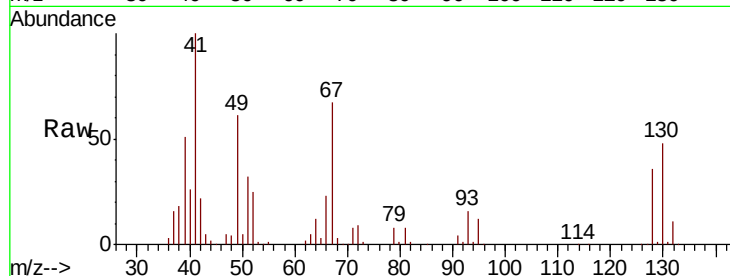
67 86.2 70.3 105.5

52 32.4 26.9 40.3

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#42

1,2-Dichloroethane

Concen: 49.983 ug/l

RT: 8.12 min Scan# 1975

Delta R.T. 0.00 min

Lab File: VN053040.D

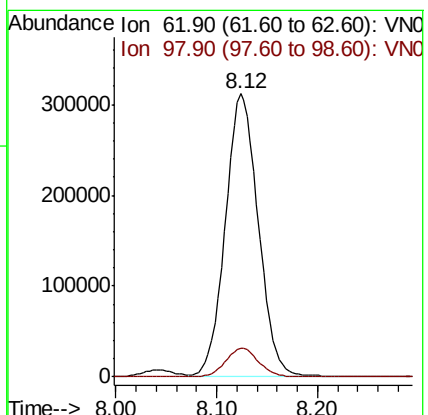
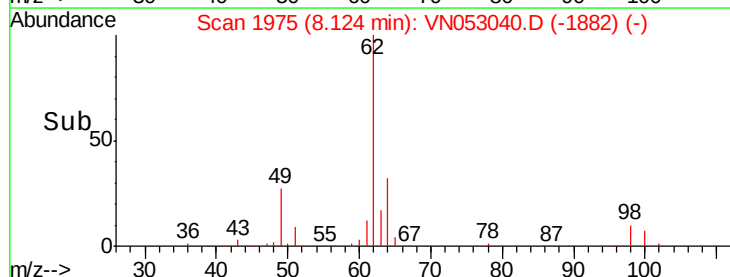
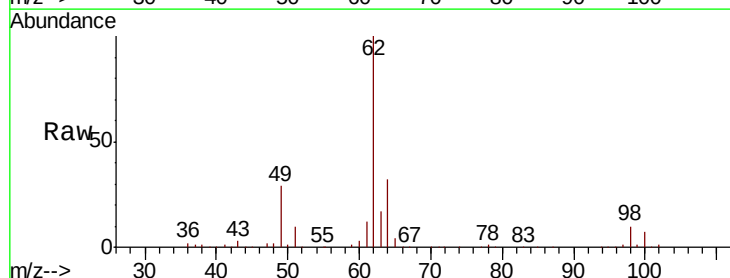
Acq: 20 Dec 2018 5:03

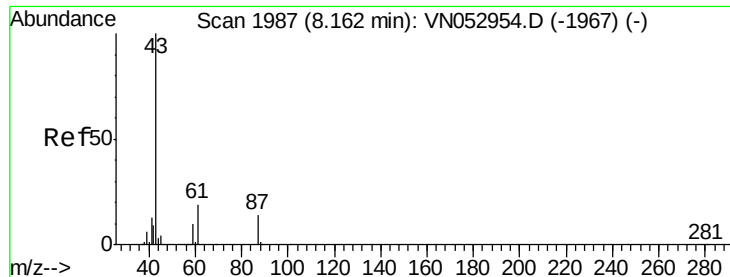
Tgt Ion: 62 Resp: 705267

Ion Ratio Lower Upper

62 100

98 10.2 0.0 19.0





#43

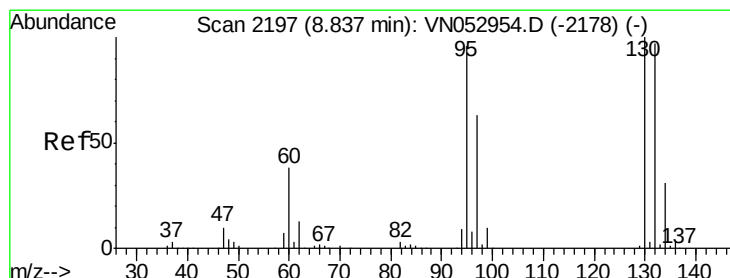
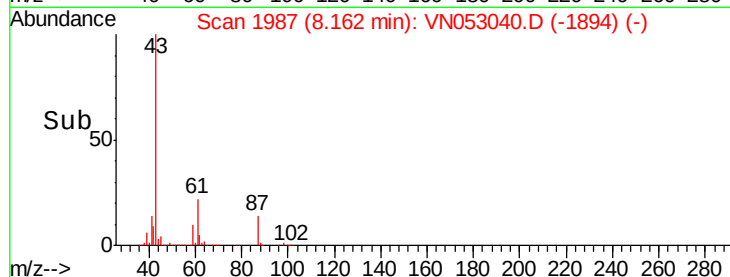
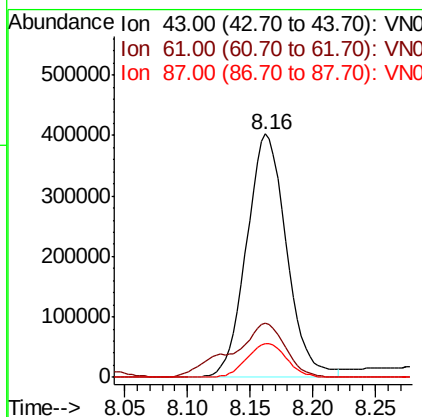
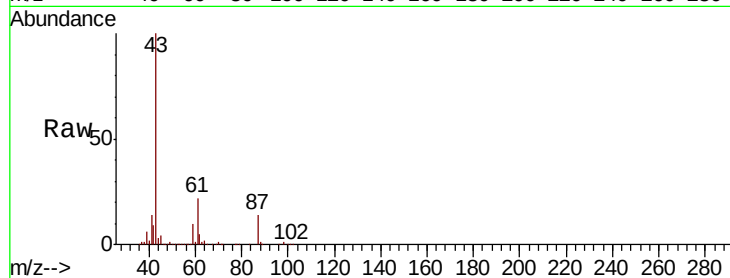
Isopropyl Acetate
 Concen: 51.444 ug/l
 RT: 8.16 min Scan# 1987
 Delta R.T. 0.00 min
 Lab File: VN053040.D
 Acq: 20 Dec 2018 5:03

Instrument :
 MSVOA_N
 ClientSampleId :
 EP1-MW-K(12-13FT)1218MSD

Tot Ion	Ratio	Lower	Upper
43	100		
61	29.5	22.9	34.3
87	13.9	10.6	15.8

Manual Integrations
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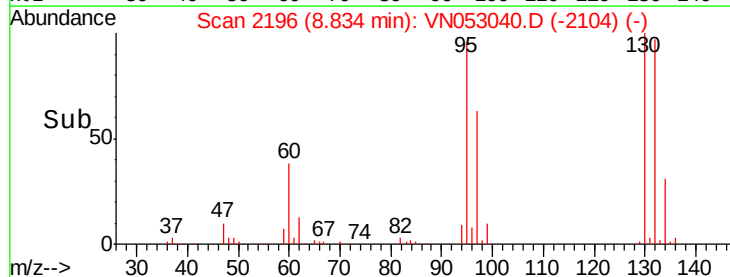
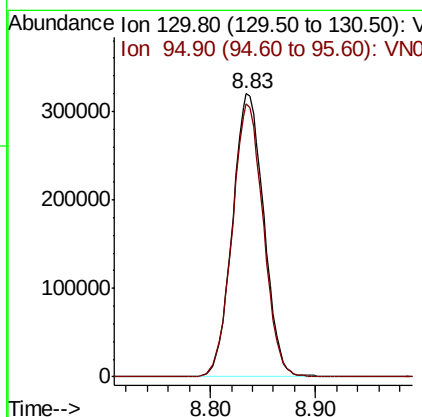
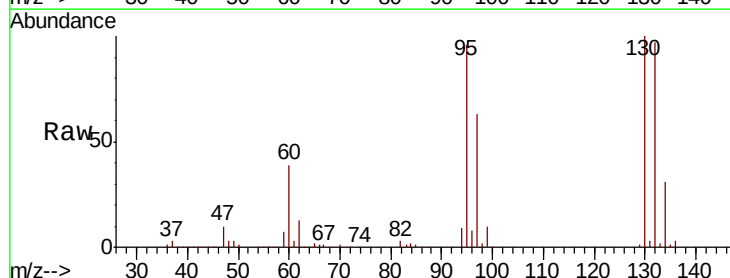
MMDadoda
 12/20/2018 12:13:11 PM

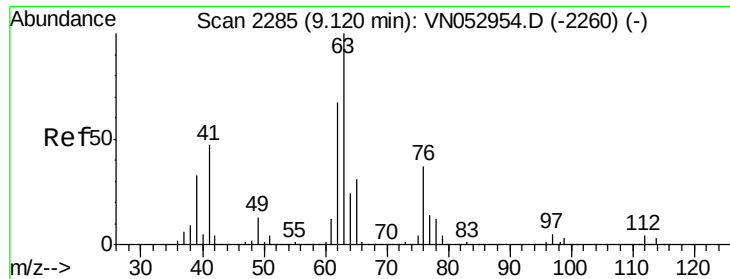


#44

Trichloroethene
 Concen: 47.635 ug/l
 RT: 8.83 min Scan# 2196
 Delta R.T. -0.00 min
 Lab File: VN053040.D
 Acq: 20 Dec 2018 5:03

Tgt Ion	Ratio	Lower	Upper
130	100		
95	96.3	0.0	197.8





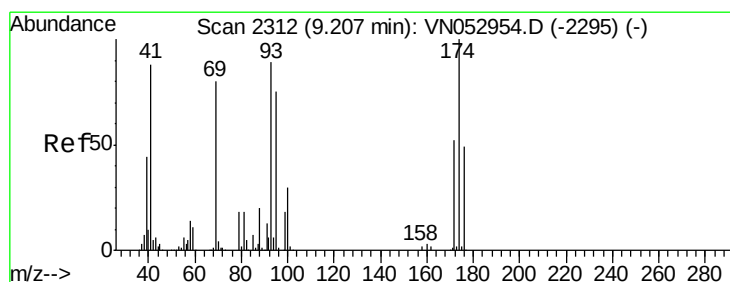
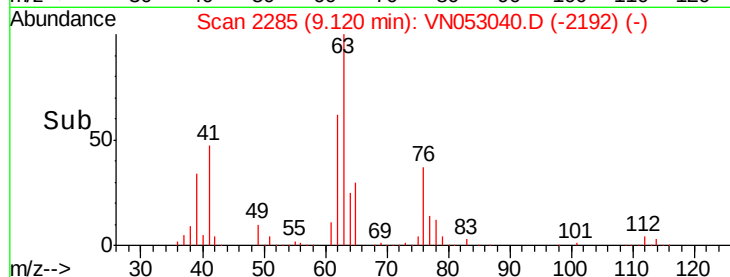
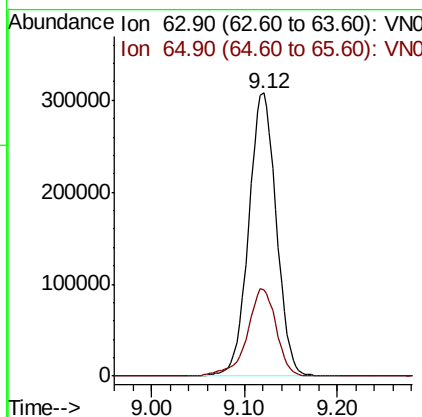
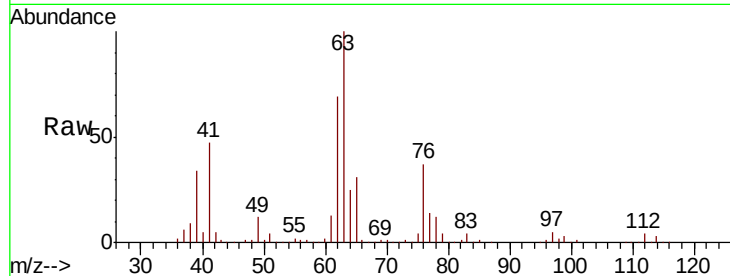
#45
 1,2-Dichloropropane
 Concen: 51.094 ug/l
 RT: 9.12 min Scan# 2285
 Delta R.T. 0.00 min
 Lab File: VN053040.D
 Acq: 20 Dec 2018 5:03

Instrument :
 MSVOA_N
 ClientSampleId :
 EP1-MW-K(12-13FT)1218MSD

Tot Ion	Ratio	Lower	Upper
63	100		
65	30.6	24.6	37.0

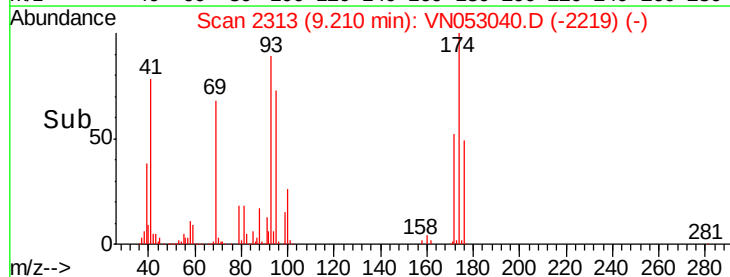
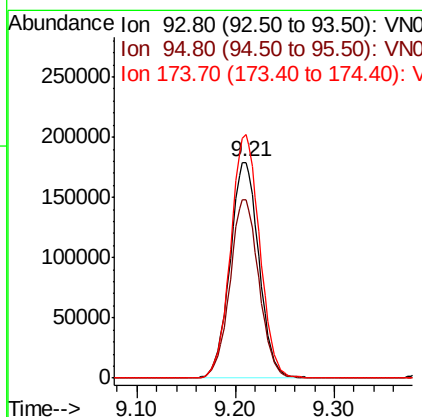
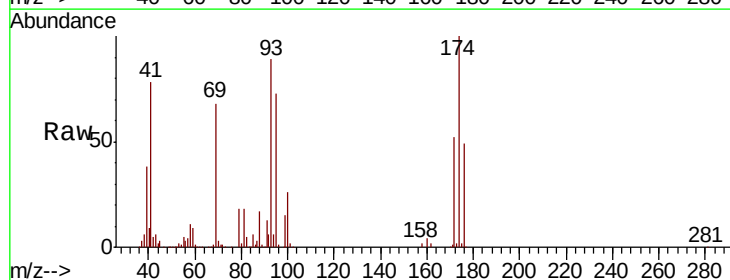
Manual Integrations
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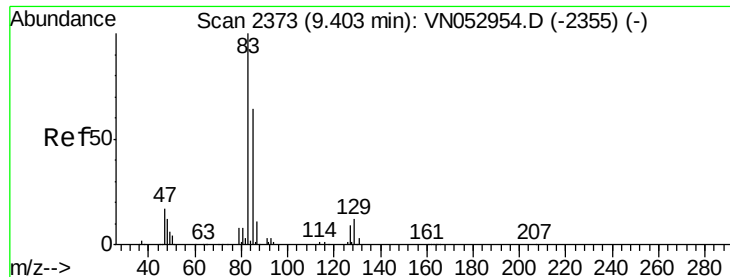
MMDadoda
 12/20/2018 12:13:11 PM



#46
 Dibromomethane
 Concen: 50.423 ug/l
 RT: 9.21 min Scan# 2313
 Delta R.T. 0.00 min
 Lab File: VN053040.D
 Acq: 20 Dec 2018 5:03

Tgt Ion	Ratio	Lower	Upper
93	100		
95	83.0	67.8	101.6
174	113.4	89.0	133.4





#47

Bromodichloromethane

Concen: 49.653 ug/l

RT: 9.40 min Scan# 2373

Delta R.T. 0.00 min

Lab File: VN053040.D

Acq: 20 Dec 2018 5:03

Instrument :

MSVOA_N

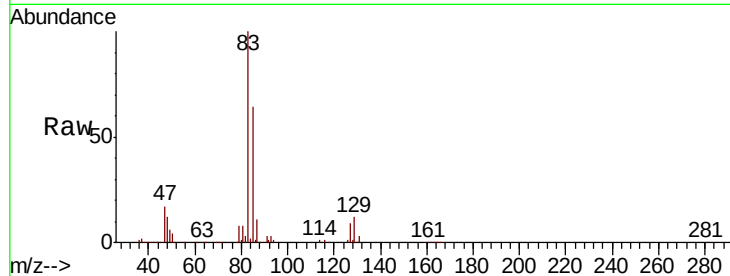
ClientSampleId :

EP1-MW-K(12-13FT)1218MSD

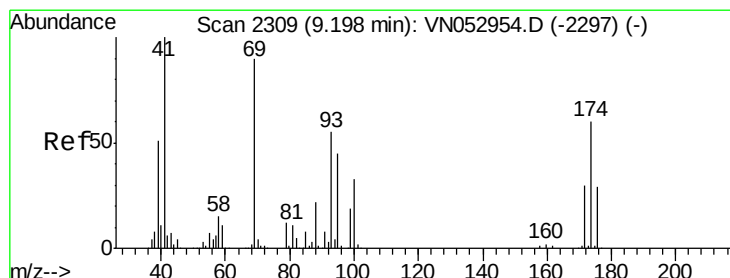
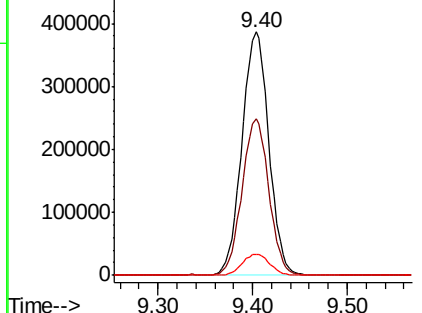
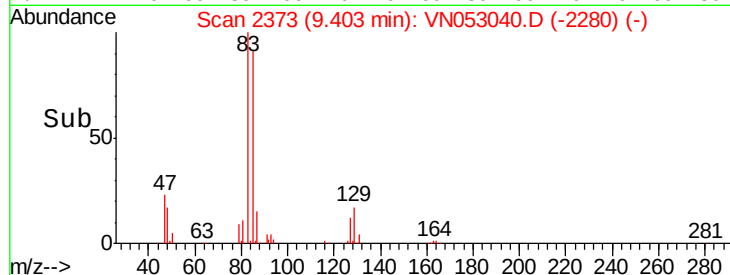
Tot Ion:	83	Resp:	764945
Ion Ratio	Lower	Upper	
83	100		
85	64.3	51.6	77.4
127	8.7	7.1	10.7

Manual Integrations
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Abundance Ion 82.90 (82.60 to 83.60): VN053040.D (-2280) (-)



#48

Methyl methacrylate

Concen: 51.588 ug/l

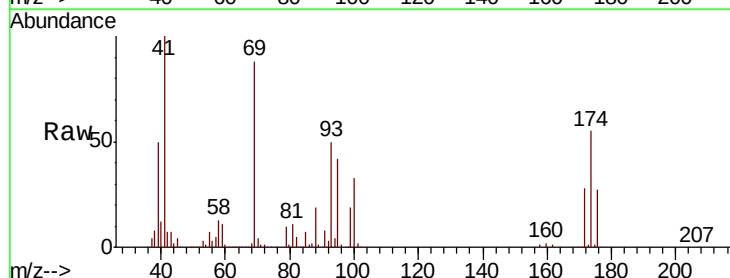
RT: 9.20 min Scan# 2309

Delta R.T. 0.00 min

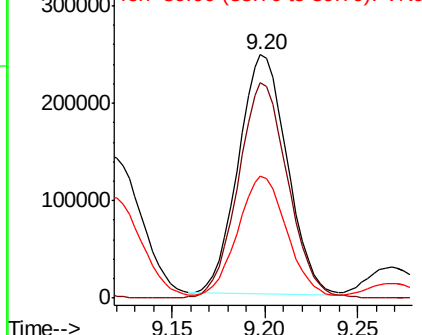
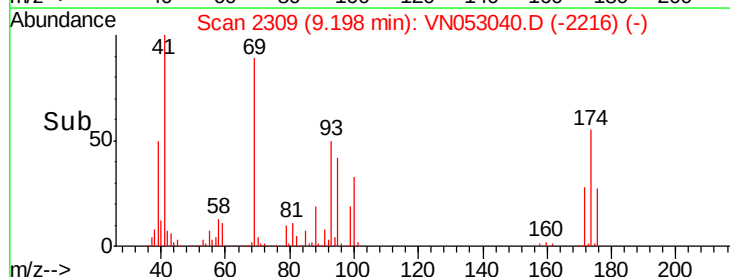
Lab File: VN053040.D

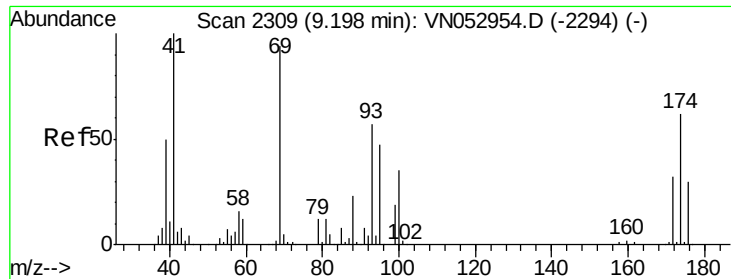
Acq: 20 Dec 2018 5:03

Tgt Ion:	41	Resp:	448745
Ion Ratio	Lower	Upper	
41	100		
69	91.0	72.2	108.2
39	51.7	41.9	62.9



Abundance Ion 41.00 (40.70 to 41.70): VN053040.D (-2216) (-)





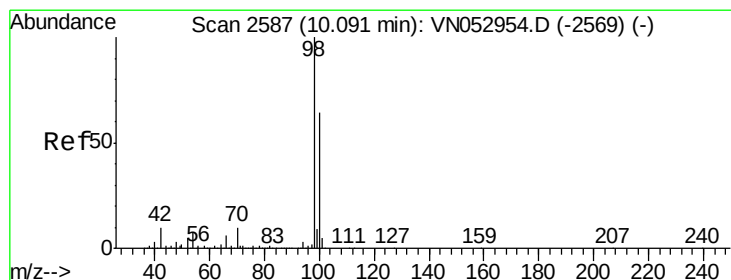
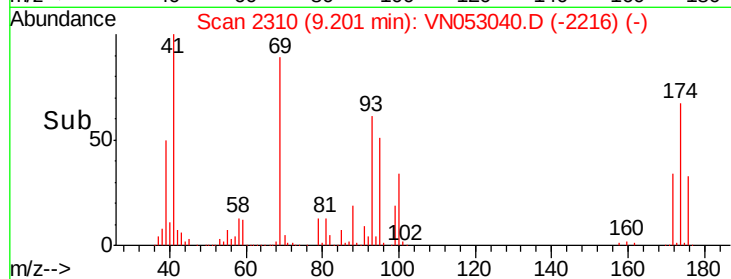
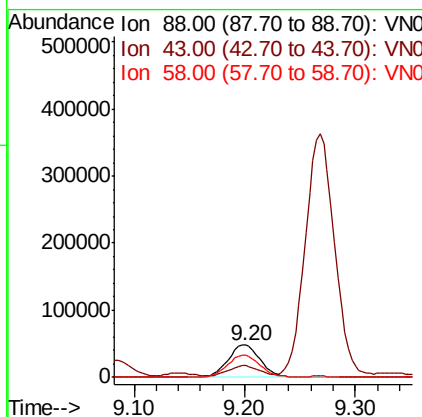
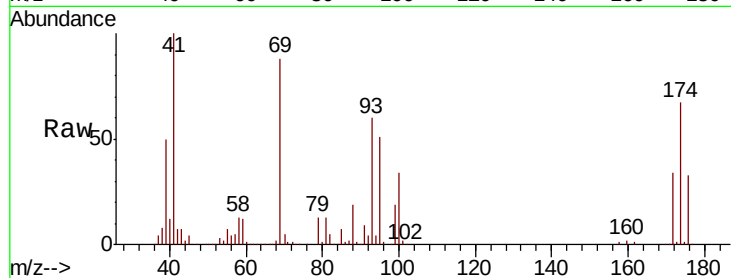
#49
1,4-Dioxane
Concen: 896.006 ug/l
RT: 9.20 min Scan# 2310
Delta R.T. 0.00 min
Lab File: VN053040.D
Acq: 20 Dec 2018 5:03

Instrument :
MSVOA_N
ClientSampleId :
EP1-MW-K(12-13FT)1218MSD

Tot Ion	Ratio	Lower	Upper
88	100		
43	26.0	26.6	40.0#
58	68.3	58.4	87.6

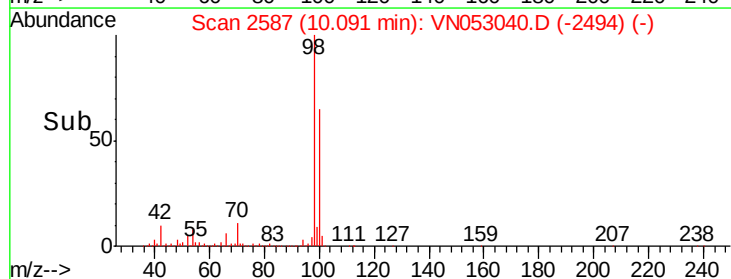
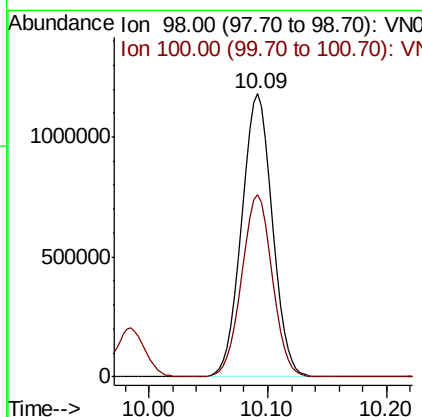
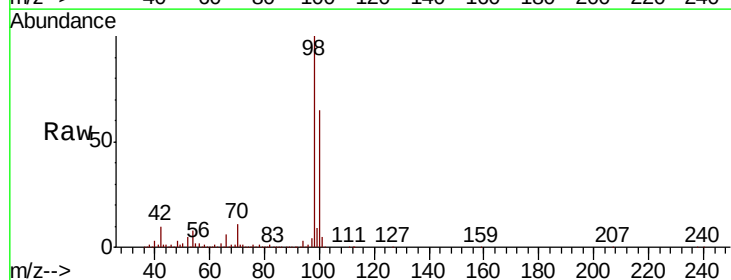
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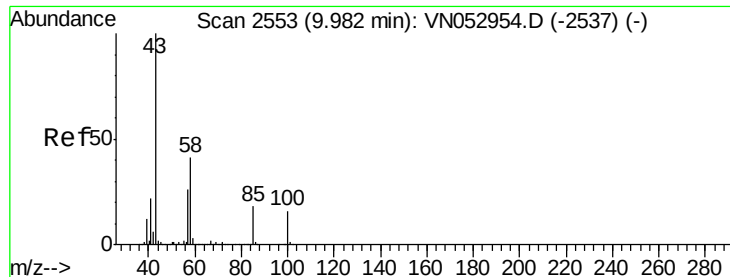
MMDadoda
12/20/2018 12:13:11 PM



#50
Toluene-d8
Concen: 896.006 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN053040.D
Acq: 20 Dec 2018 5:03

Tgt Ion	Ratio	Lower	Upper
98	100		
100	64.3	51.6	77.4





#51

4-Methyl-2-Pentanone

Concen: 263.374 ug/l

RT: 9.98 min Scan# 2553

Delta R.T. -0.00 min

Lab File: VN053040.D

Acq: 20 Dec 2018 5:03

Instrument :

MSVOA_N

ClientSampleId :

EP1-MW-K(12-13FT)1218MSD

Tot Ion: 43 Resp: 2286392

Ion Ratio Lower Upper

43 100

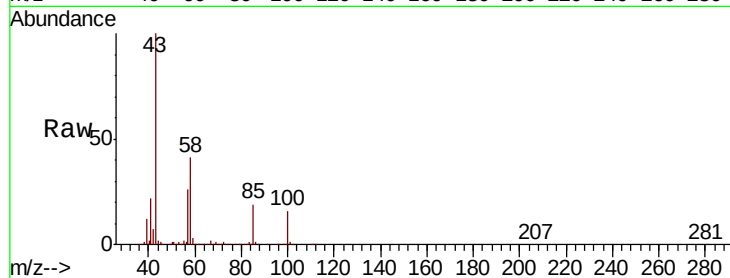
58 41.1 32.2 48.4

Manual Integrations

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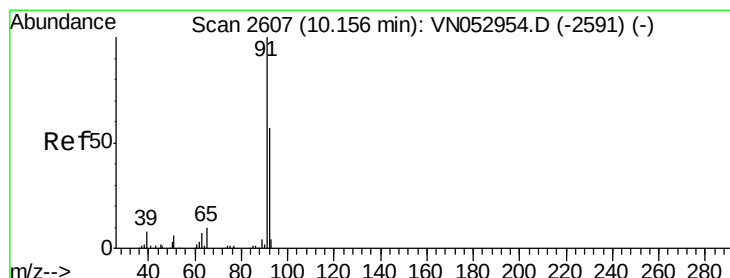
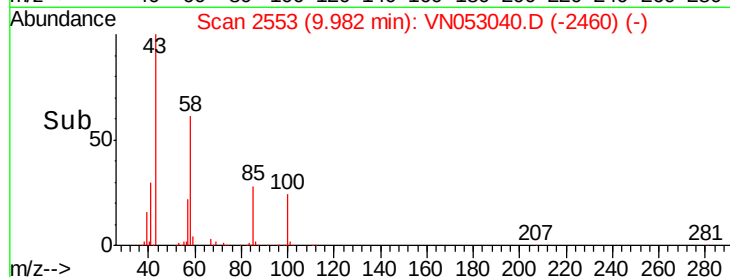
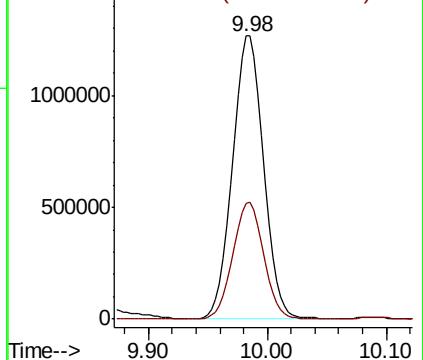
MMDadoda

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Abundance Ion 43.00 (42.70 to 43.70): VN052954.D (-2537) (-)

Ion 58.00 (57.70 to 58.70): VN052954.D (-2537) (-)



#52

Toluene

Concen: 48.841 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VN053040.D

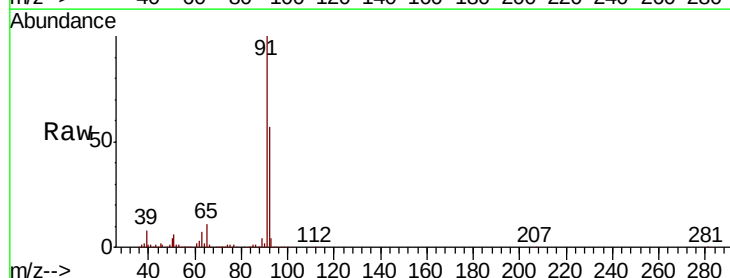
Acq: 20 Dec 2018 5:03

Tgt Ion: 92 Resp: 1445941

Ion Ratio Lower Upper

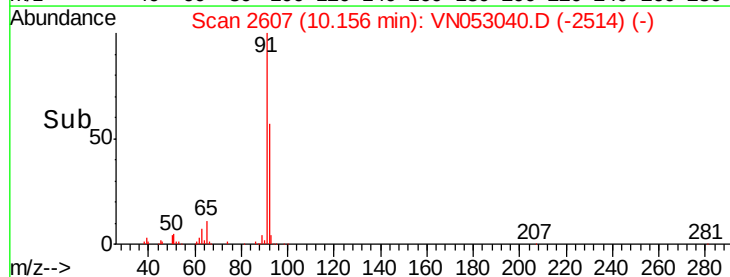
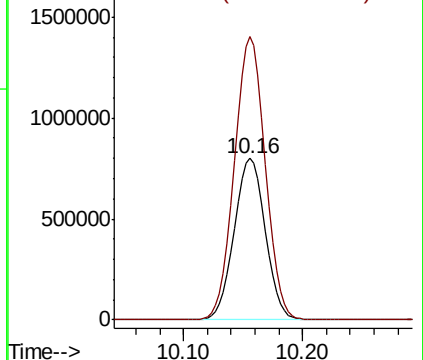
92 100

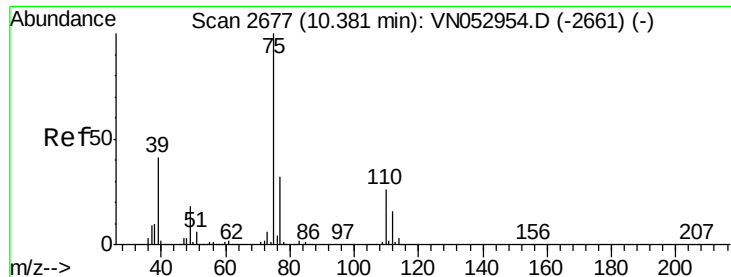
91 174.2 139.8 209.6



Abundance Ion 92.00 (91.70 to 92.70): VN052954.D (-2591) (-)

Ion 91.00 (90.70 to 91.70): VN052954.D (-2591) (-)





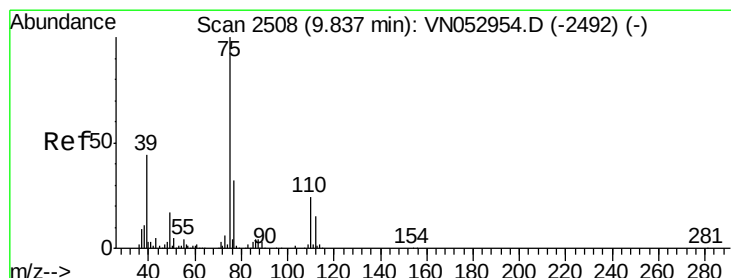
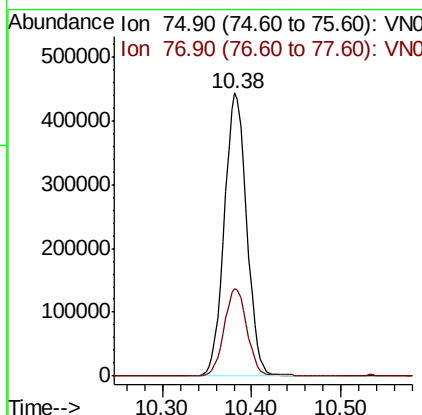
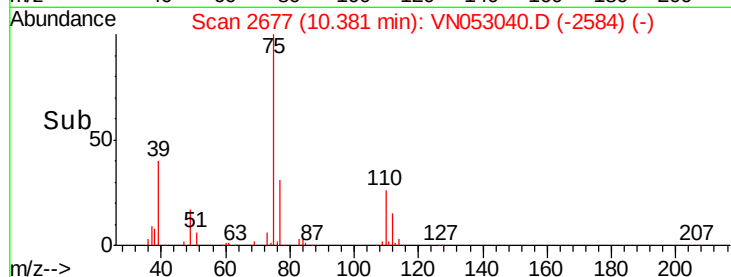
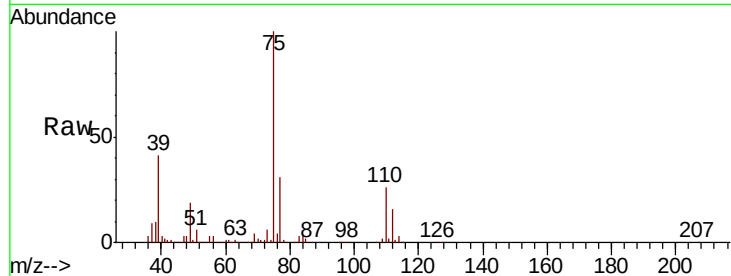
#53
t-1,3-Dichloropropene
Concen: 47.393 ug/l
RT: 10.38 min Scan# 2677
Delta R.T. 0.00 min
Lab File: VN053040.D
Acq: 20 Dec 2018 5:03

Instrument :
MSVOA_N
ClientSampleId :
EP1-MW-K(12-13FT)1218MSD

Tot Ion	Ratio	Lower	Upper
75	100		
77	31.0	25.6	38.4

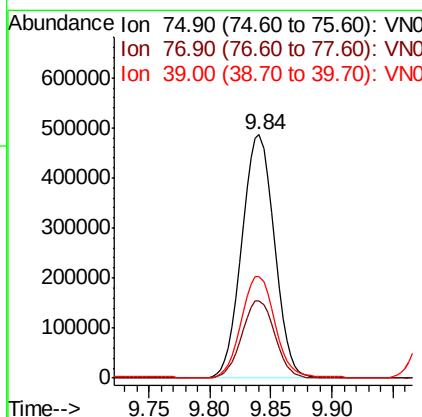
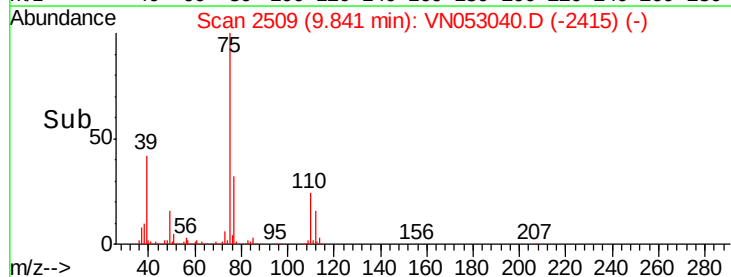
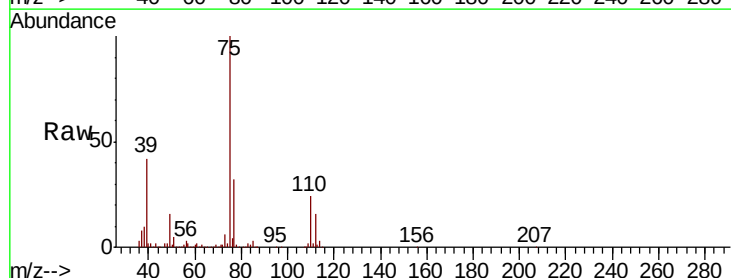
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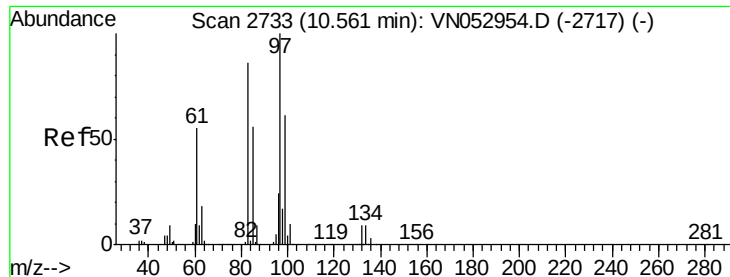
MMDadoda
12/20/2018 12:13:11 PM



#54
cis-1,3-Dichloropropene
Concen: 48.177 ug/l
RT: 9.84 min Scan# 2509
Delta R.T. 0.00 min
Lab File: VN053040.D
Acq: 20 Dec 2018 5:03

Tgt Ion	Ratio	Lower	Upper
75	100		
77	31.8	25.8	38.8
39	41.8	34.8	52.2





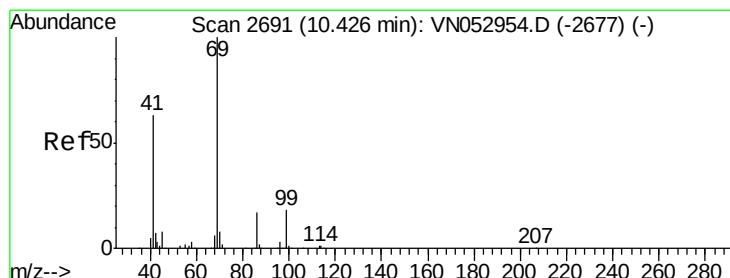
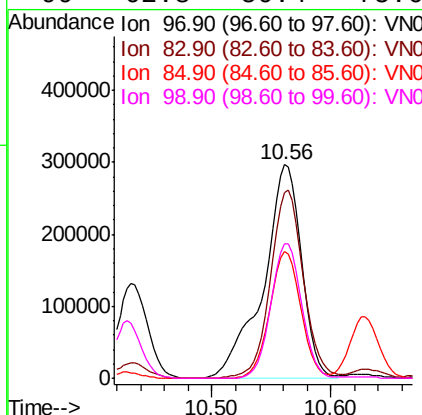
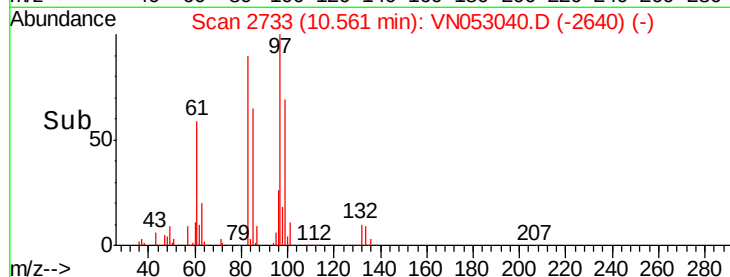
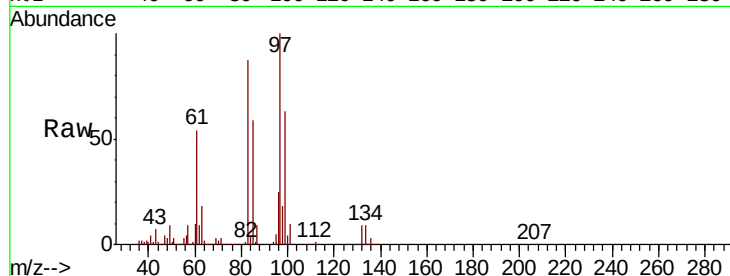
#55
 1,1,2-Trichloroethane
 Concen: 63.688 ug/l
 RT: 10.56 min Scan# 2733
 Delta R.T. 0.00 min
 Lab File: VN053040.D
 Acq: 20 Dec 2018 5:03

Instrument :
 MSVOA_N
 ClientSampleId :
 EP1-MW-K(12-13FT)1218MSD

Tot Ion:	97	Resp:	657786
Ion	Ratio	Lower	Upper
97	100		
83	87.0	70.9	106.3
85	59.5	45.4	68.2
99	62.8	50.4	75.6

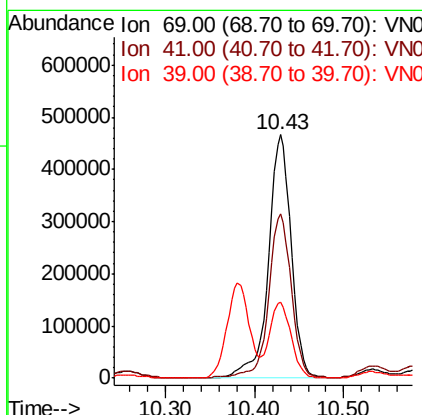
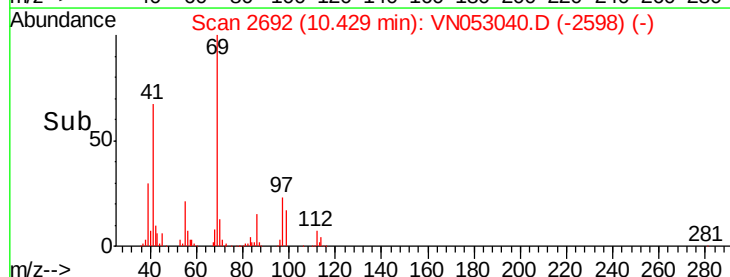
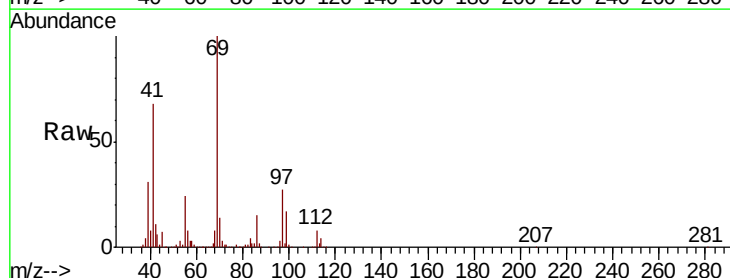
Manual Integrations
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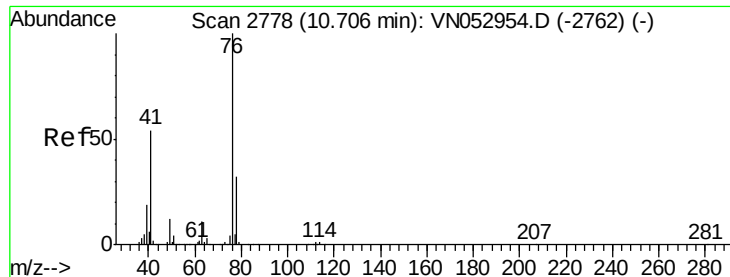
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#56
 Ethyl methacrylate
 Concen: 60.637 ug/l
 RT: 10.43 min Scan# 2692
 Delta R.T. 0.00 min
 Lab File: VN053040.D
 Acq: 20 Dec 2018 5:03

Tgt Ion:	69	Resp:	828935
Ion	Ratio	Lower	Upper
69	100		
41	67.6	51.7	77.5
39	29.3	24.6	37.0





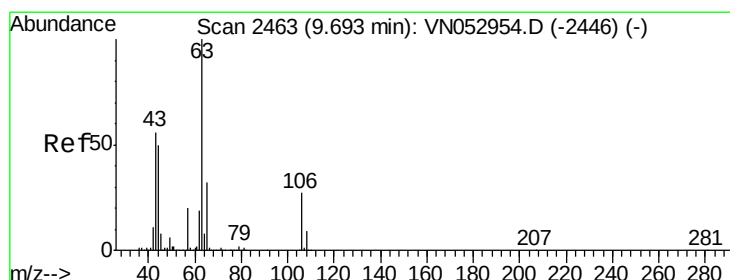
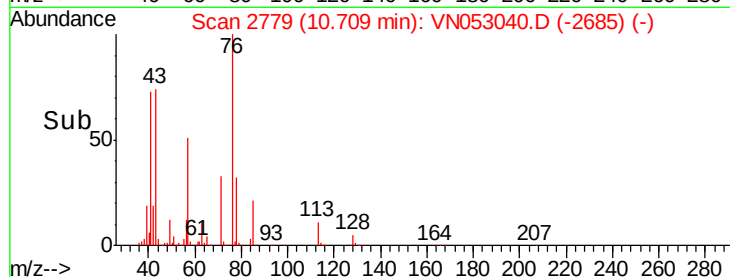
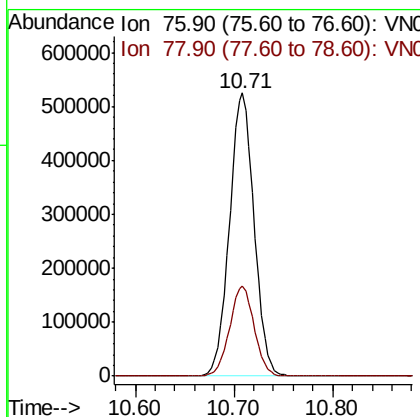
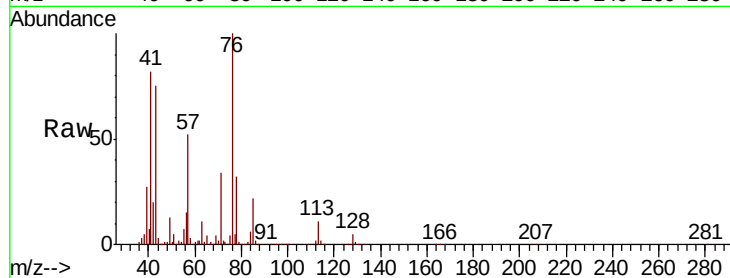
#57
 1,3-Dichloropropane
 Concen: 51.546 ug/l
 RT: 10.71 min Scan# 2779
 Delta R.T. 0.00 min
 Lab File: VN053040.D
 Acq: 20 Dec 2018 5:03

Instrument :
 MSVOA_N
 ClientSampleId :
 EP1-MW-K(12-13FT)1218MSD

Tot Ion	Ratio	Lower	Upper
76	100		
78	31.9	25.8	38.8

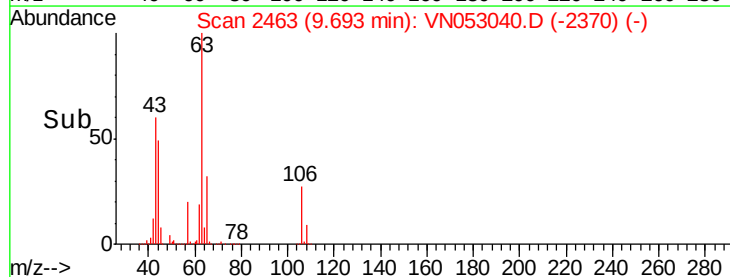
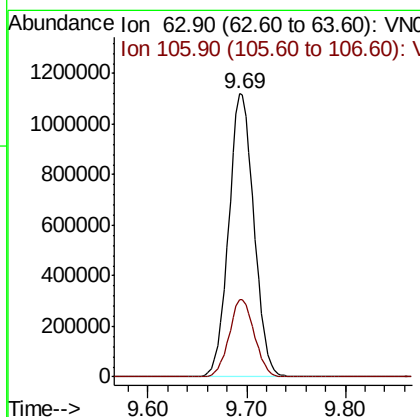
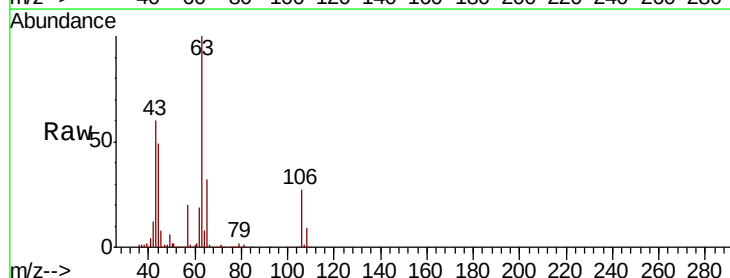
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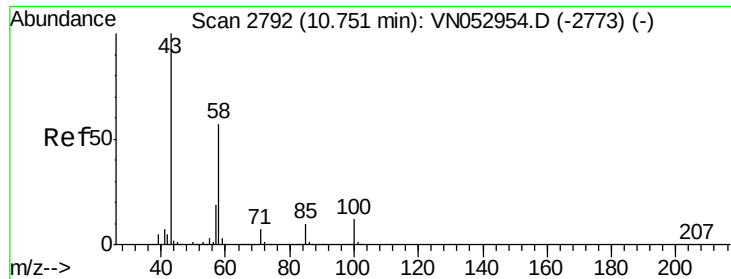
MMDadoda
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#58
 2-Chloroethyl Vinyl ether
 Concen: 266.618 ug/l
 RT: 9.69 min Scan# 2463
 Delta R.T. 0.00 min
 Lab File: VN053040.D
 Acq: 20 Dec 2018 5:03

Tgt Ion	Ratio	Lower	Upper
63	100		
106	27.4	21.0	31.6





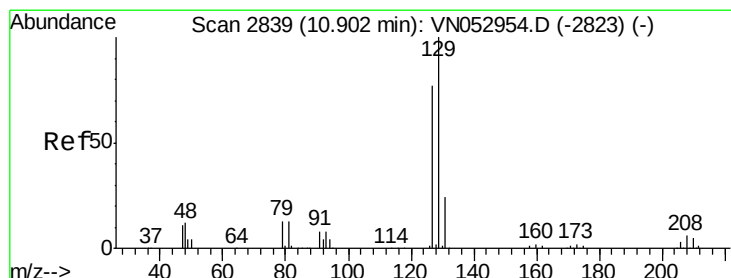
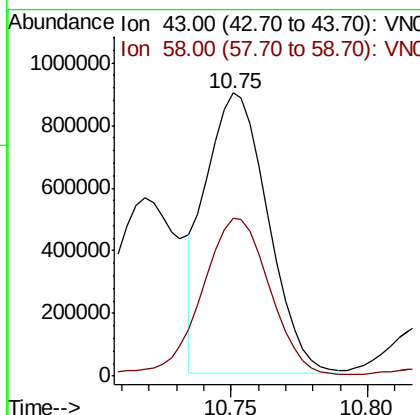
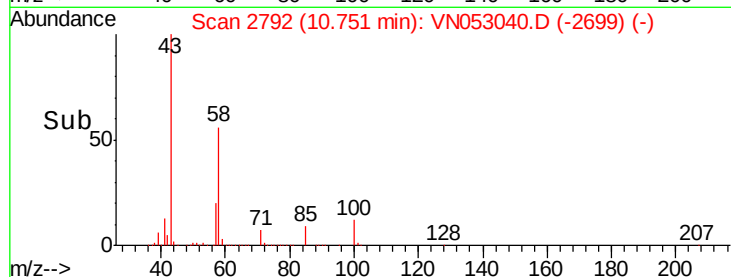
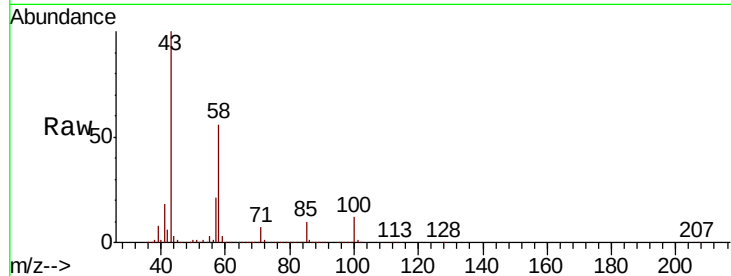
#59
2-Hexanone
Concen: 239.881 ug/l
RT: 10.75 min Scan# 2792
Delta R.T. 0.00 min
Lab File: VN053040.D
Acq: 20 Dec 2018 5:03

Instrument :
MSVOA_N
ClientSampleId :
EP1-MW-K(12-13FT)1218MSD

Tot Ion: 43 Resp: 1408946
Ion Ratio Lower Upper
43 100
58 62.8 28.1 84.3

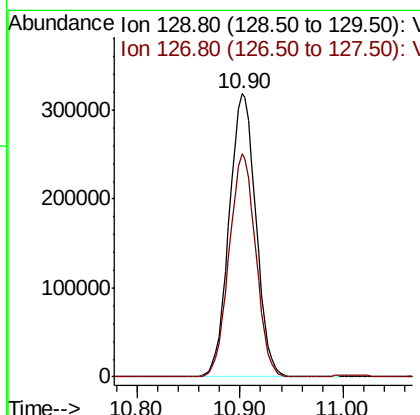
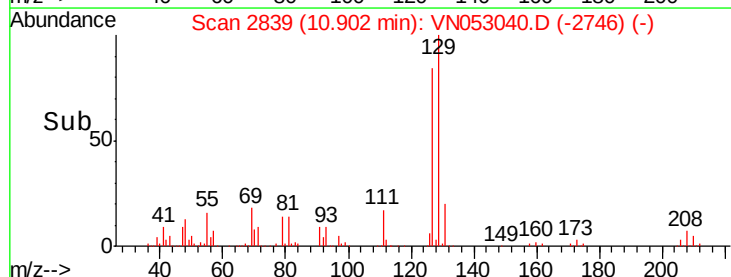
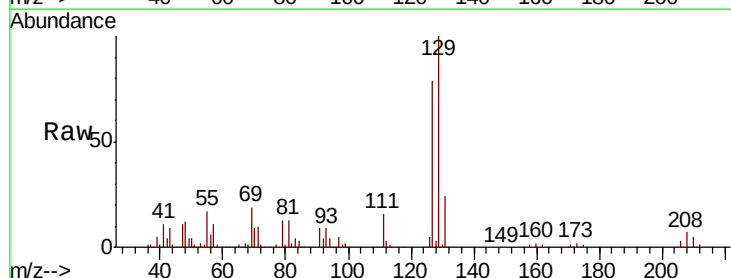
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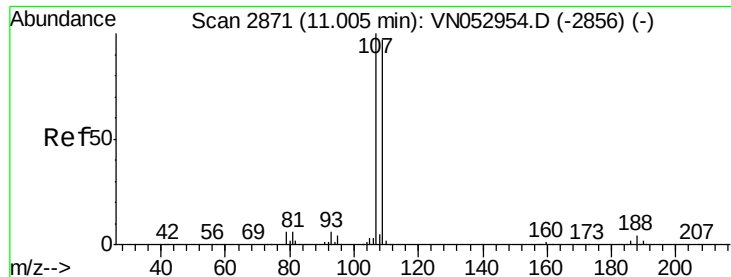
MMDadoda
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#60
Dibromochloromethane
Concen: 48.728 ug/l
RT: 10.90 min Scan# 2839
Delta R.T. 0.00 min
Lab File: VN053040.D
Acq: 20 Dec 2018 5:03

Tgt Ion: 129 Resp: 576088
Ion Ratio Lower Upper
129 100
127 78.4 38.6 116.0





#61

1,2-Dibromoethane

Concen: 50.717 ug/l

RT: 11.01 min Scan# 2872

Delta R.T. 0.00 min

Lab File: VN053040.D

Acq: 20 Dec 2018 5:03

Instrument :

MSVOA_N

ClientSampleId :

EP1-MW-K(12-13FT)1218MSD

Tot Ion: 107 Resp: 531997

Ion Ratio Lower Upper

107 100

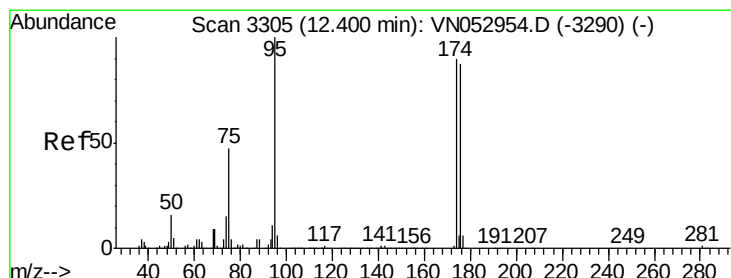
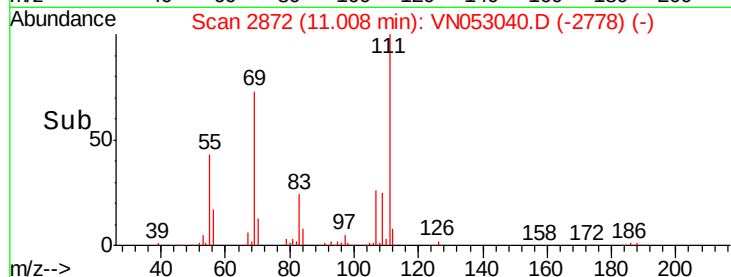
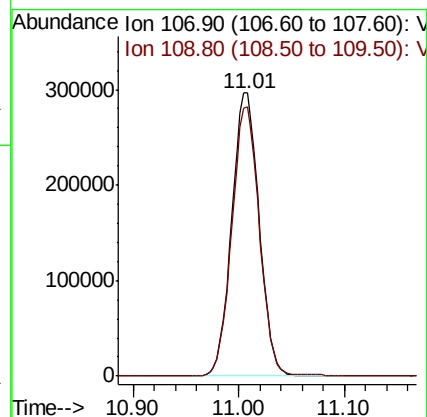
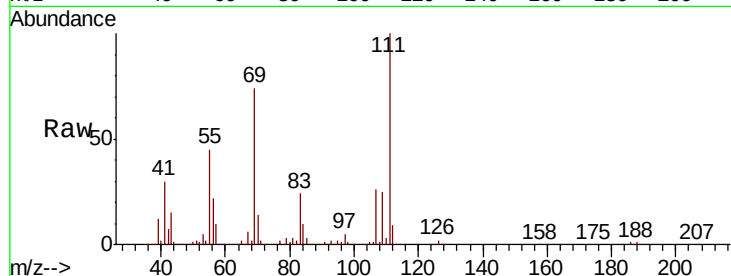
109 95.5 75.4 113.0

Manual Integrations

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#62

4-Bromofluorobenzene

Concen: 50.717 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN053040.D

Acq: 20 Dec 2018 5:03

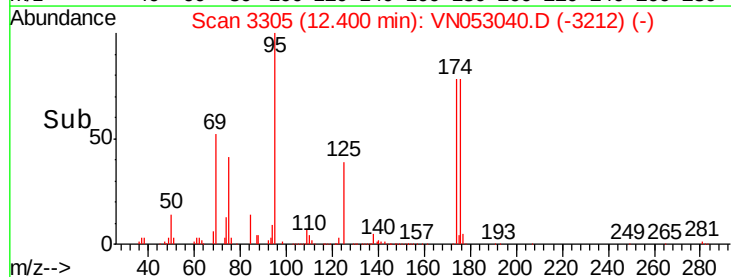
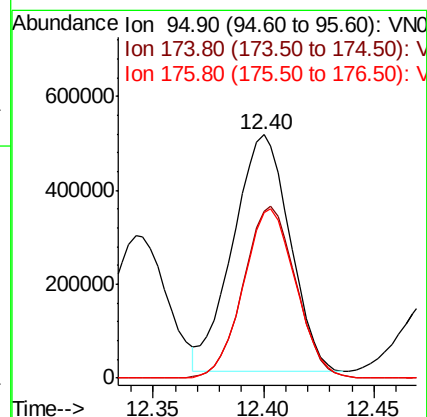
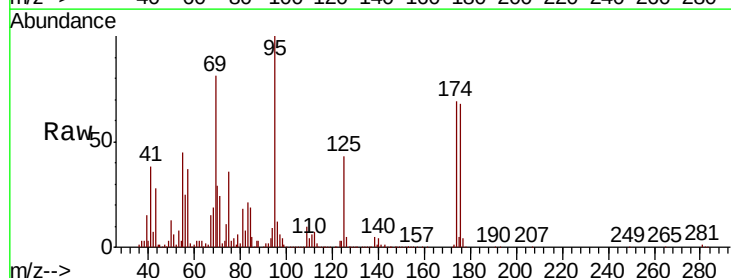
Tgt Ion: 95 Resp: 900562

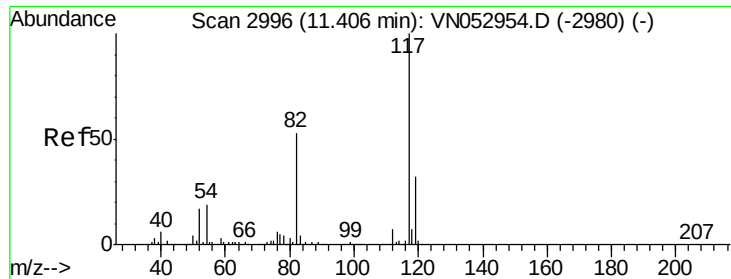
Ion Ratio Lower Upper

95 100

174 67.1 0.0 178.8

176 65.9 0.0 173.8





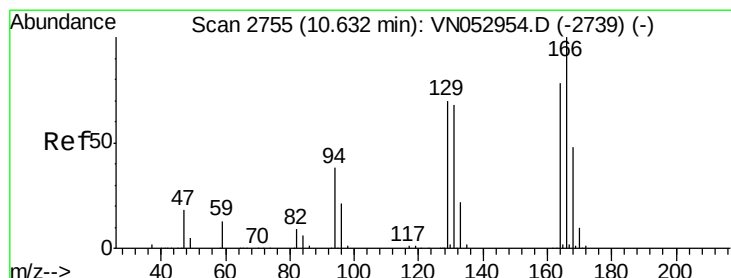
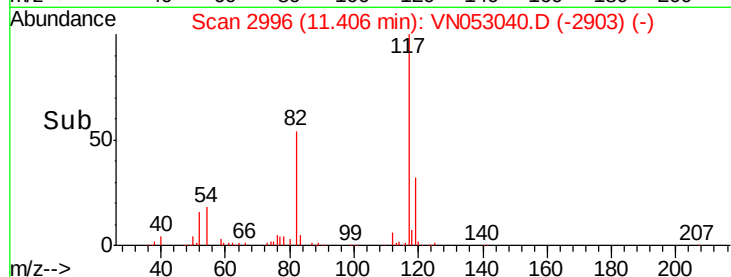
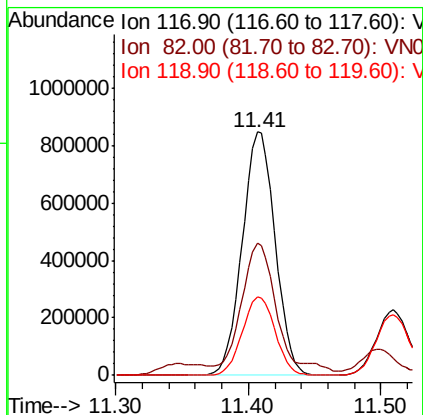
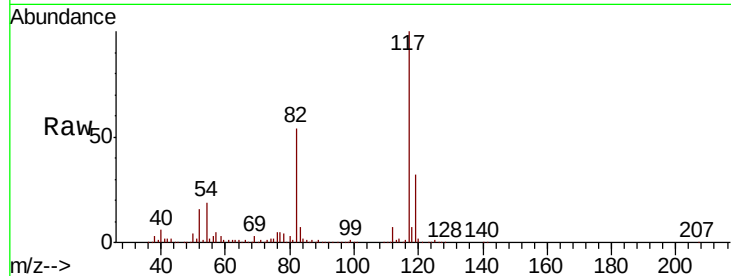
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN053040.D
Acq: 20 Dec 2018 5:03

Instrument :
MSVOA_N
ClientSampleId :
EP1-MW-K(12-13FT)1218MSD

Tot Ion:117 Resp: 1463253
Ion Ratio Lower Upper
117 100
82 52.5 42.8 64.2
119 32.0 25.5 38.3

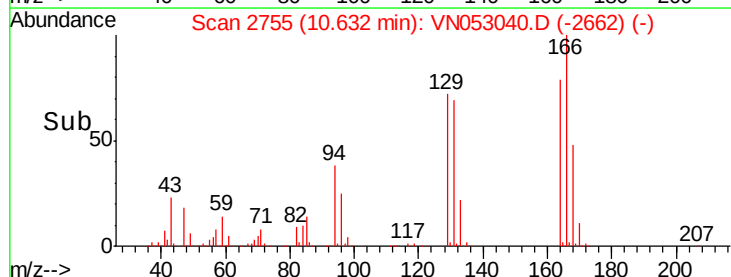
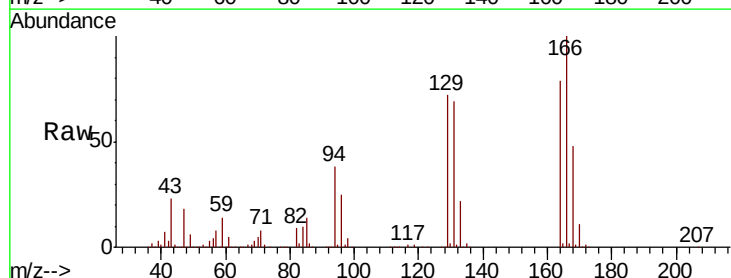
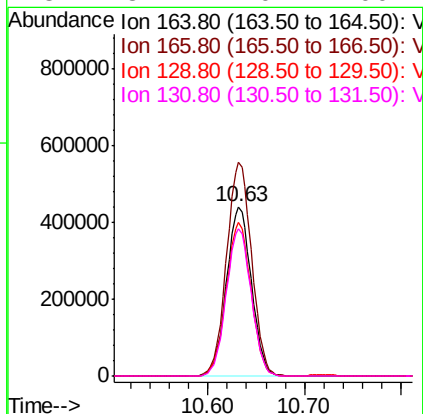
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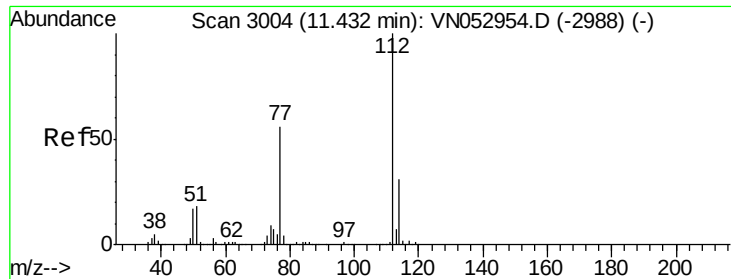
MMDadoda
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#64
Tetrachloroethene
Concen: 49.475 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. 0.00 min
Lab File: VN053040.D
Acq: 20 Dec 2018 5:03

Tgt Ion:164 Resp: 784191
Ion Ratio Lower Upper
164 100
166 126.2 102.9 154.3
129 90.6 73.7 110.5
131 87.1 70.7 106.1





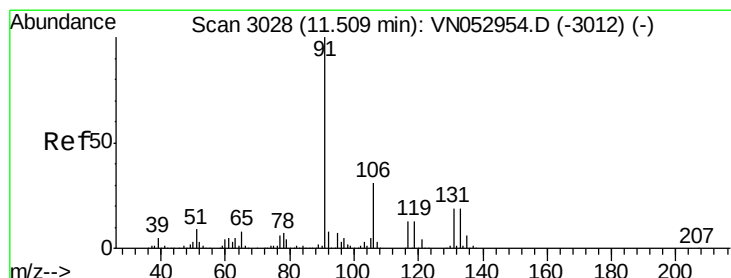
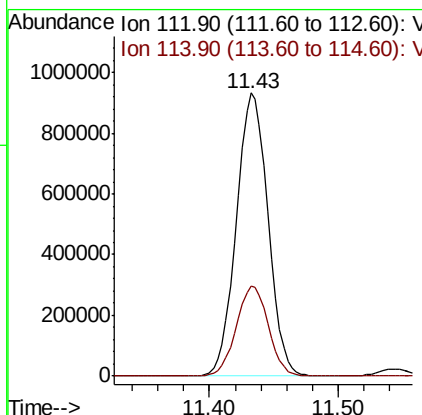
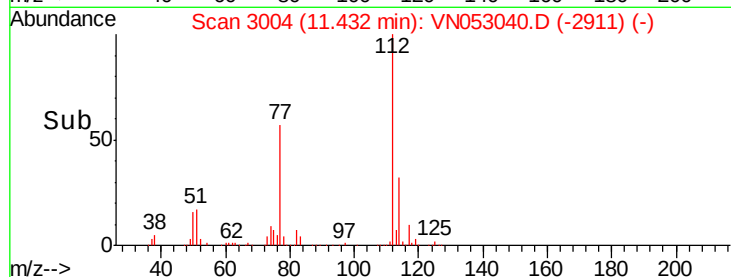
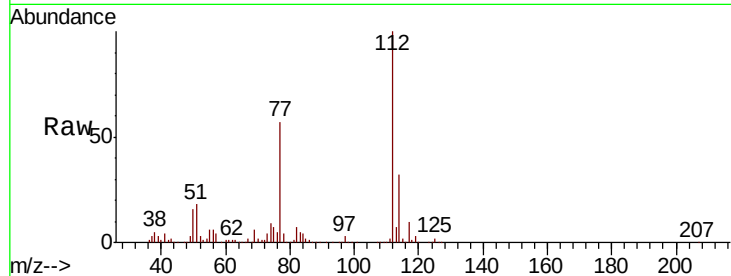
#65
Chlorobenzene
Concen: 48.946 ug/l
RT: 11.43 min Scan# 3004
Delta R.T. 0.00 min
Lab File: VN053040.D
Acq: 20 Dec 2018 5:03

Instrument :
MSVOA_N
ClientSampleId :
EP1-MW-K(12-13FT)1218MSD

Tot Ion:112 Resp: 1587626
Ion Ratio Lower Upper
112 100
114 31.7 25.5 38.3

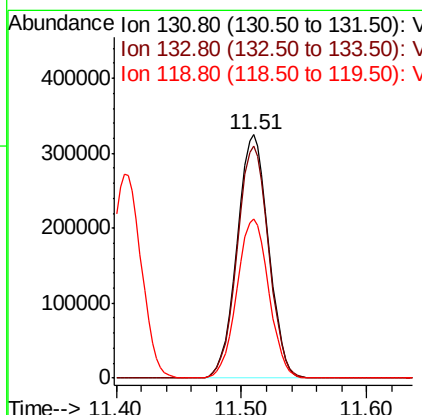
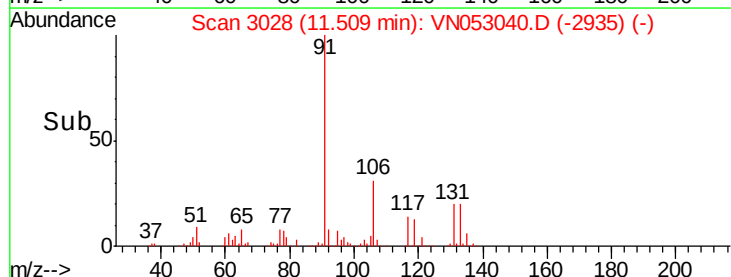
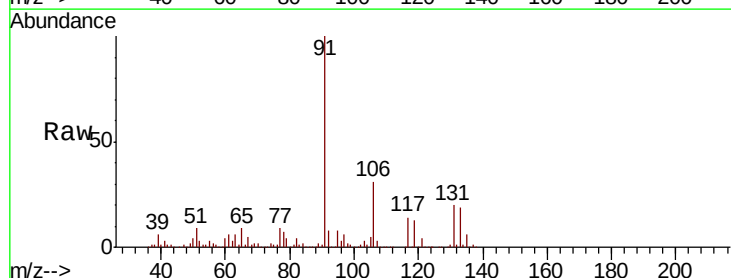
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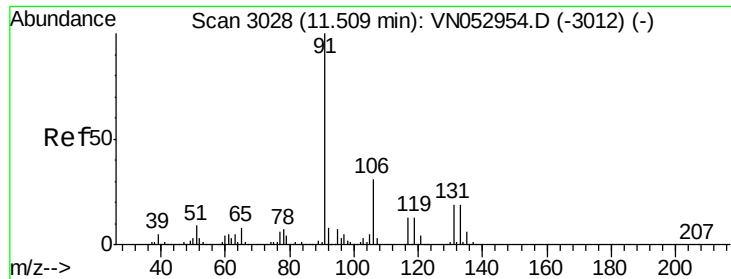
MMDadoda
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#66
1,1,1,2-Tetrachloroethane
Concen: 50.154 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. 0.00 min
Lab File: VN053040.D
Acq: 20 Dec 2018 5:03

Tgt Ion:131 Resp: 565713
Ion Ratio Lower Upper
131 100
133 95.8 47.6 142.9
119 66.3 33.3 99.8





#67

Ethyl Benzene

Concen: 48.145 ug/l

RT: 11.51 min Scan# 3029

Delta R.T. 0.00 min

Lab File: VN053040.D

Acq: 20 Dec 2018 5:03

Instrument :

MSVOA_N

ClientSampleId :

EP1-MW-K(12-13FT)1218MSD

Tot Ion: 91 Resp: 2685625

Ion Ratio Lower Upper

91 100

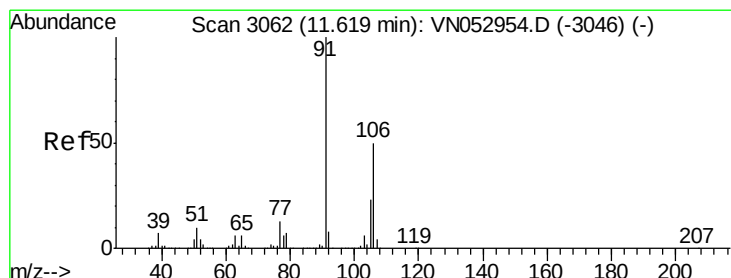
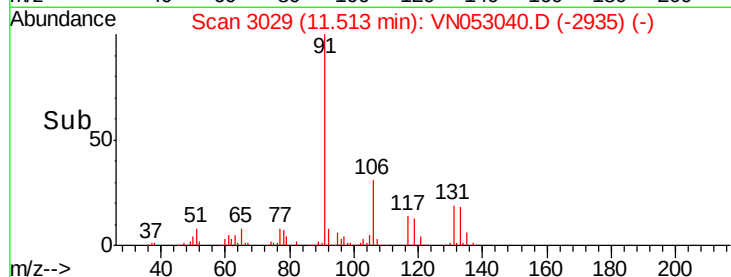
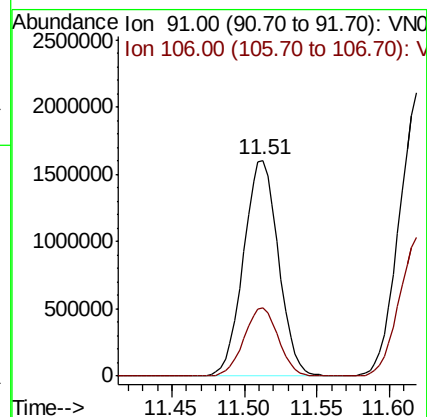
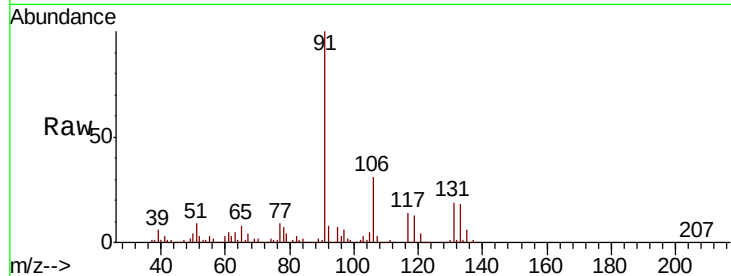
106 31.4 24.9 37.3

Manual Integrations

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#68

m/p-Xylenes

Concen: 97.248 ug/l

RT: 11.62 min Scan# 3063

Delta R.T. 0.00 min

Lab File: VN053040.D

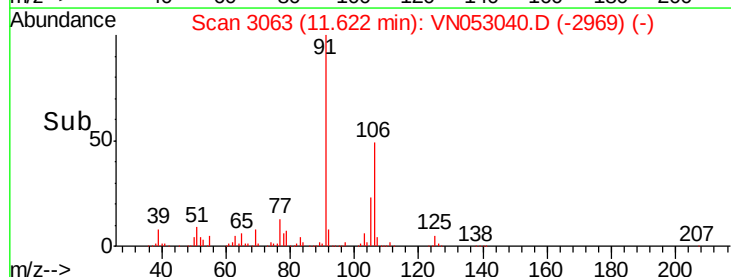
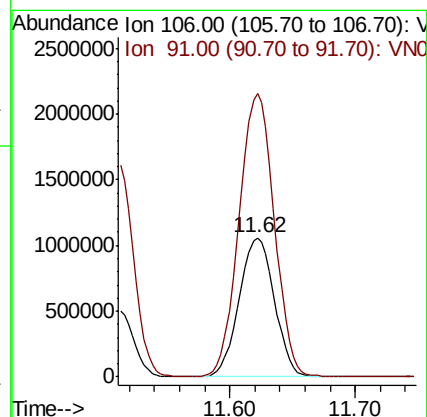
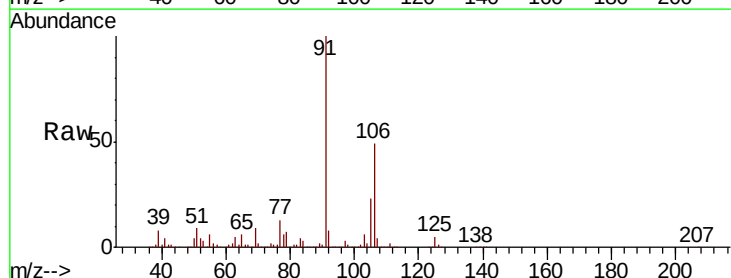
Acq: 20 Dec 2018 5:03

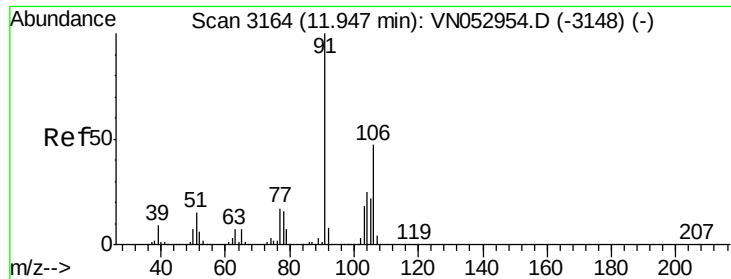
Tgt Ion: 106 Resp: 2062233

Ion Ratio Lower Upper

106 100

91 203.5 162.2 243.4





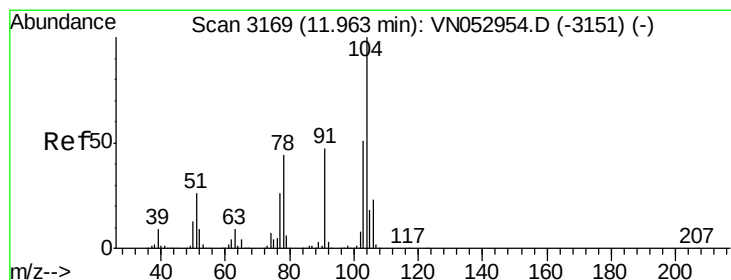
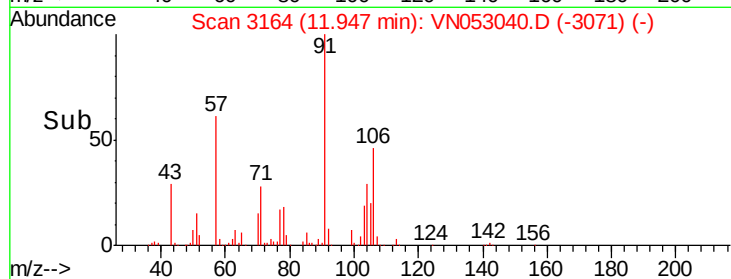
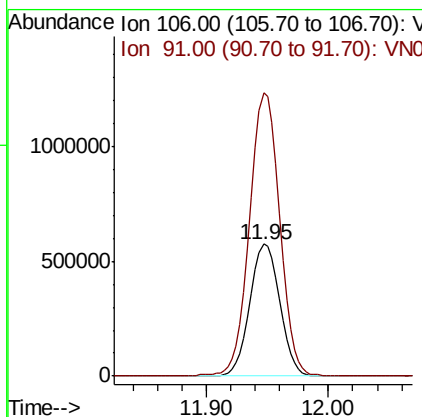
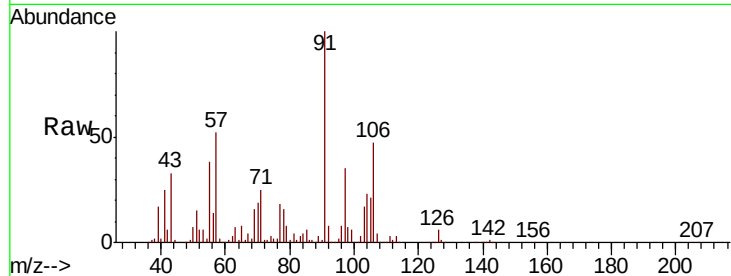
#69
o-Xylene
Concen: 47.655 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. -0.00 min
Lab File: VN053040.D
Acq: 20 Dec 2018 5:03

Instrument :
MSVOA_N
ClientSampleId :
EP1-MW-K(12-13FT)1218MSD

Tot Ion:106 Resp: 969726
Ion Ratio Lower Upper
106 100
91 216.5 106.6 319.8

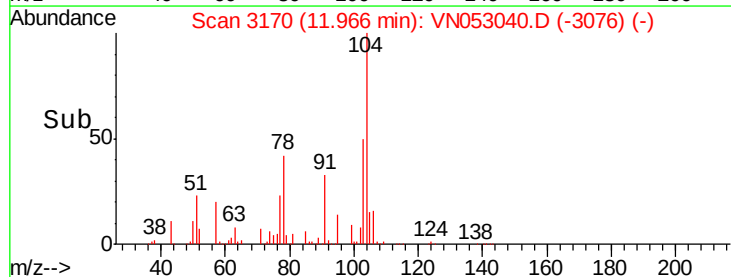
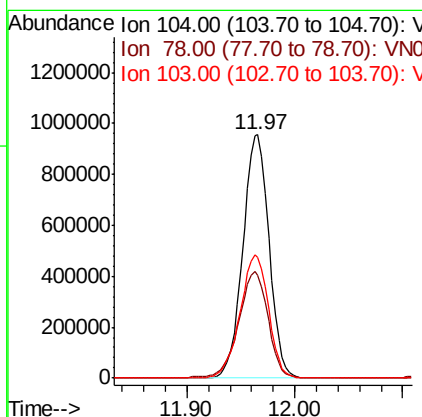
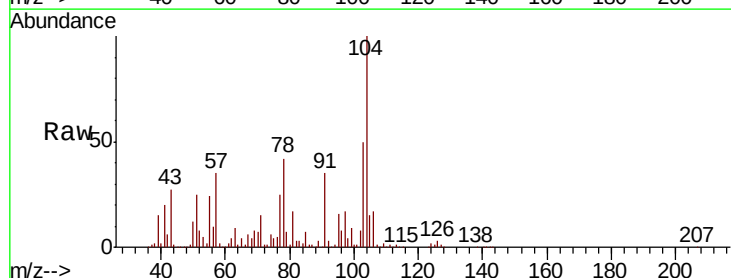
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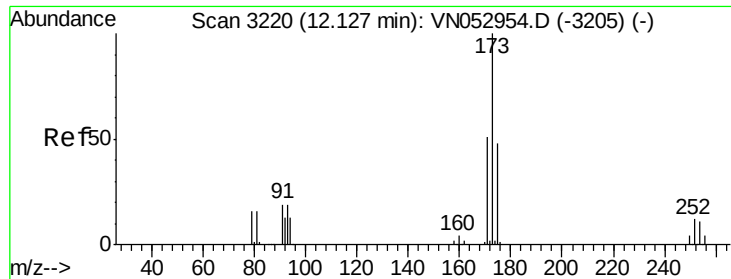
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#70
Styrene
Concen: 48.546 ug/l
RT: 11.97 min Scan# 3170
Delta R.T. 0.00 min
Lab File: VN053040.D
Acq: 20 Dec 2018 5:03

Tgt Ion:104 Resp: 1610782
Ion Ratio Lower Upper
104 100
78 49.6 38.9 58.3
103 55.1 44.3 66.5





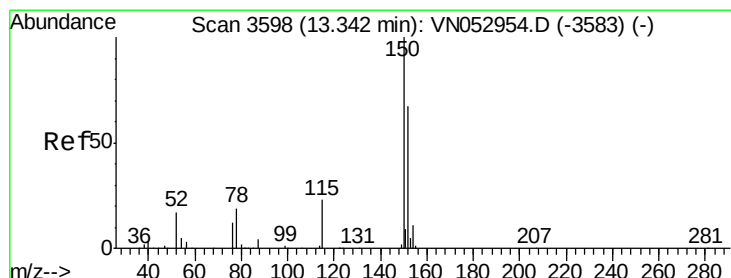
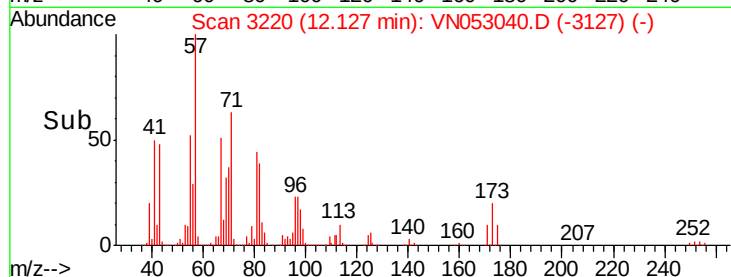
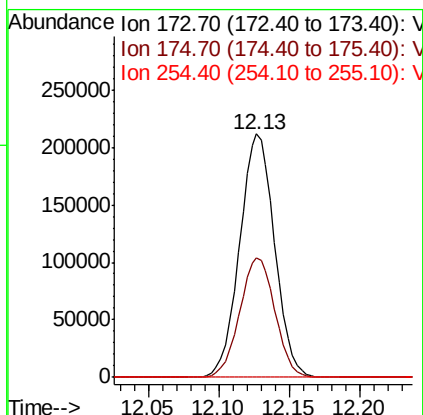
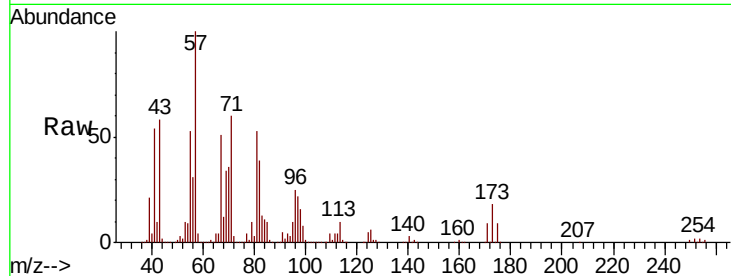
#71
Bromoform
Concen: 45.034 ug/l
RT: 12.13 min Scan# 3220
Delta R.T. 0.00 min
Lab File: VN053040.D
Acq: 20 Dec 2018 5:03

Instrument :
MSVOA_N
ClientSampleId :
EP1-MW-K(12-13FT)1218MSD

Tot Ion	Ratio	Lower	Upper
173	100		
175	49.5	24.3	72.9
254	0.1	0.1	0.1#

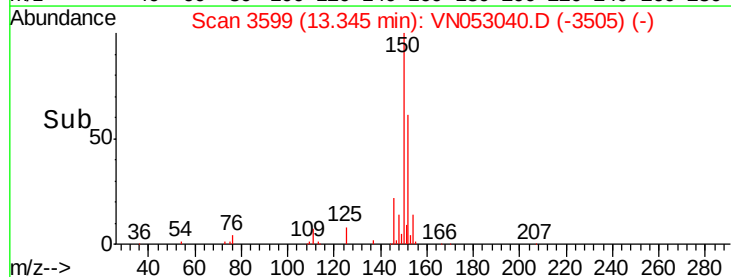
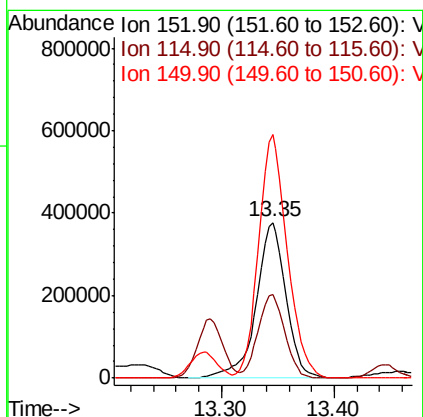
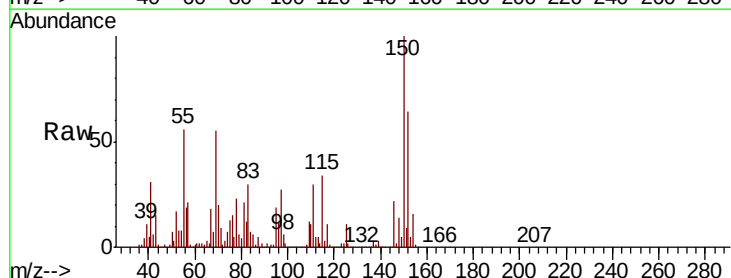
Manual Integrations
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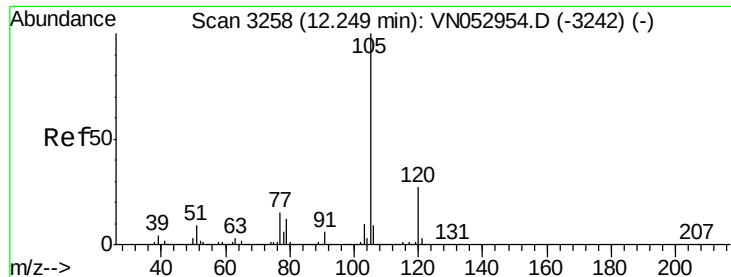
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#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3599
Delta R.T. 0.00 min
Lab File: VN053040.D
Acq: 20 Dec 2018 5:03

Tgt Ion	Ratio	Lower	Upper
152	100		
115	48.7	28.3	85.0
150	152.3	0.0	347.8





#73

Isopropylbenzene

Concen: 85.851 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. 0.00 min

Lab File: VN053040.D

Acq: 20 Dec 2018 5:03

Instrument :

MSVOA_N

ClientSampleId :

EP1-MW-K(12-13FT)1218MSD

Tot Ion:105 Resp: 4559672

Ion Ratio Lower Upper

105 100

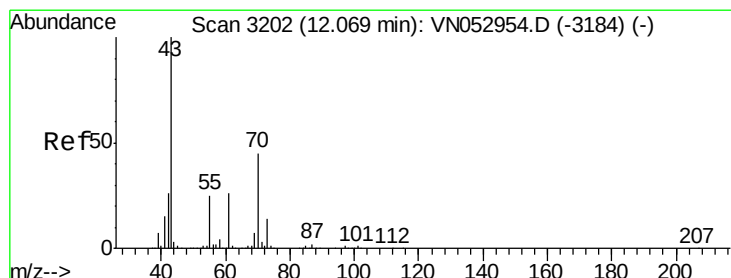
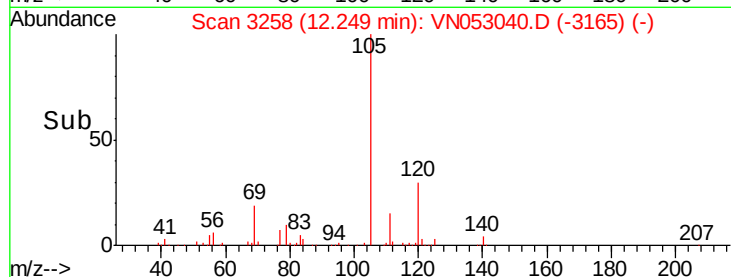
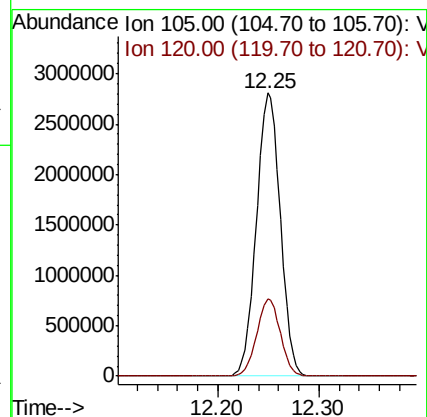
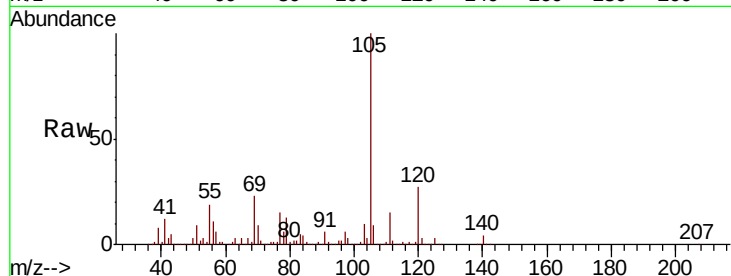
120 27.0 13.3 39.9

Manual Integrations

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#74

N-ethyl acetate

Concen: 258.044 ug/l

RT: 12.05 min Scan# 3195

Delta R.T. -0.02 min

Lab File: VN053040.D

Acq: 20 Dec 2018 5:03

Tgt Ion: 43 Resp: 3805019

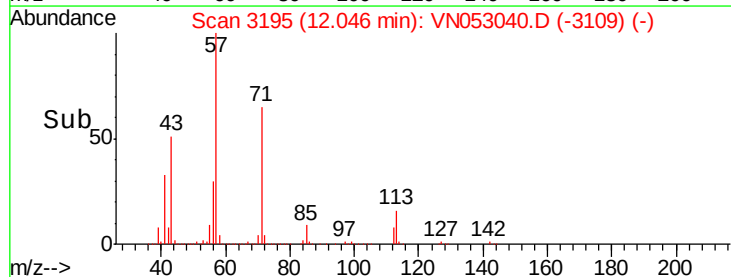
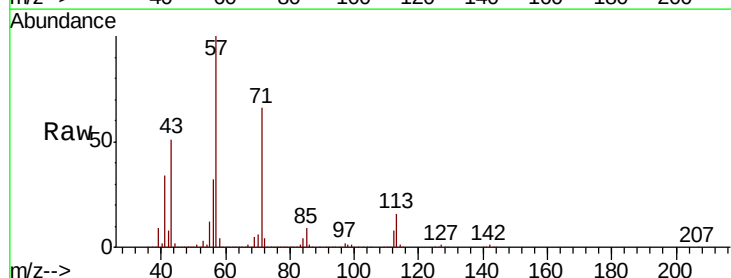
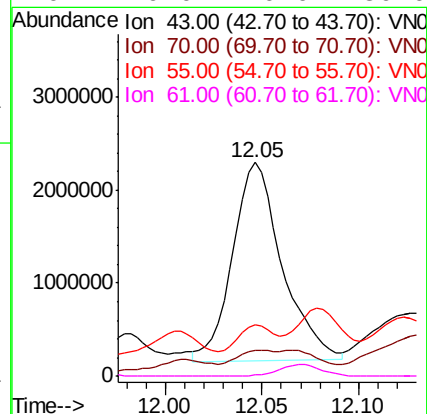
Ion Ratio Lower Upper

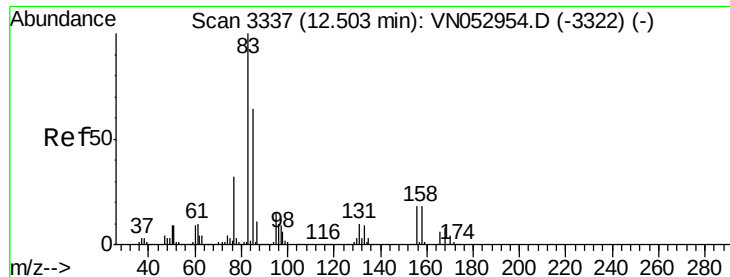
43 100

70 5.3 34.2 51.4#

55 12.4 20.3 30.5#

61 0.0 20.0 30.0#





#75

1,1,2,2-Tetrachloroethane

Concen: 81.774 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. 0.00 min

Lab File: VN053040.D

Acq: 20 Dec 2018 5:03

Instrument :

MSVOA_N

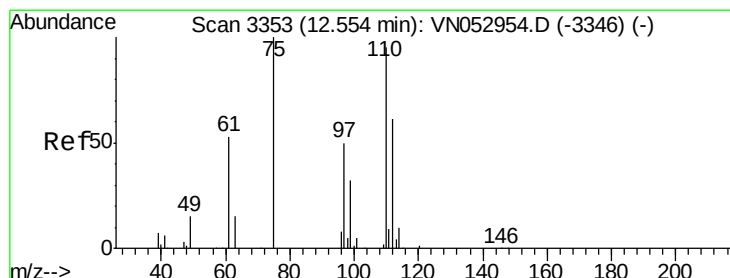
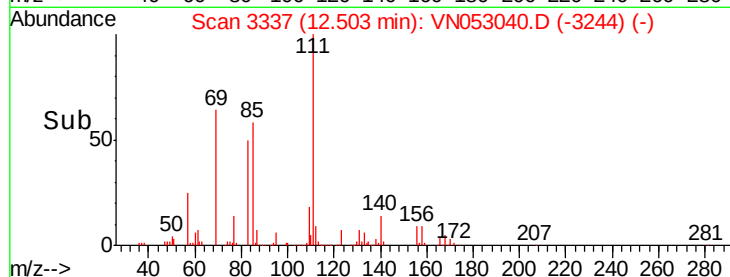
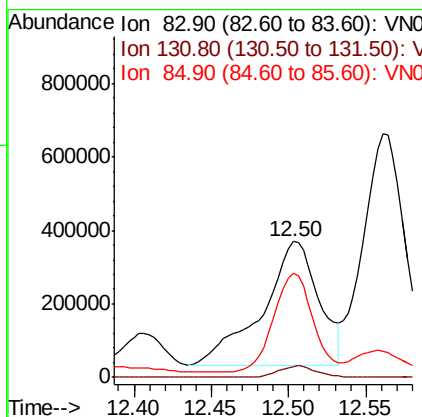
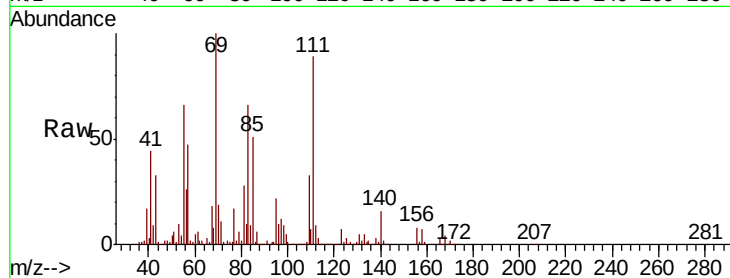
ClientSampleId :

EP1-MW-K(12-13FT)1218MSD

Tot Ion:	83	Resp:	852057
Ion Ratio	Lower	Upper	
83	100		
131	6.3	5.2	15.6
85	55.9	32.4	97.0

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#76

1,2,3-Trichloropropane

Concen: 45.763 ug/l m

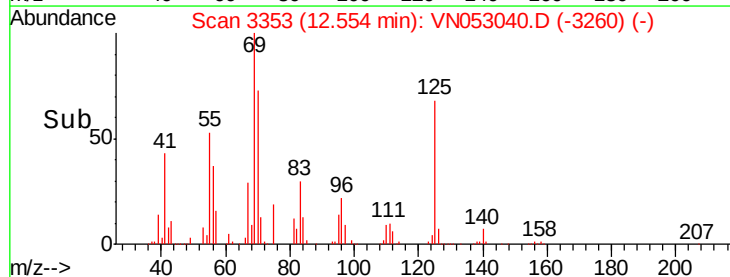
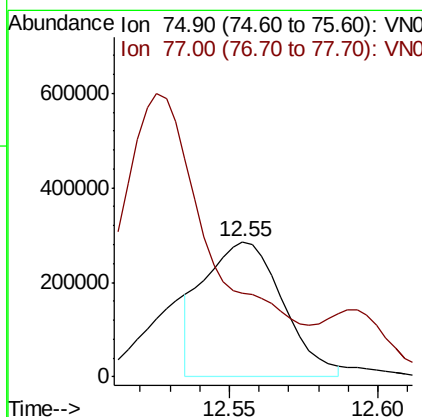
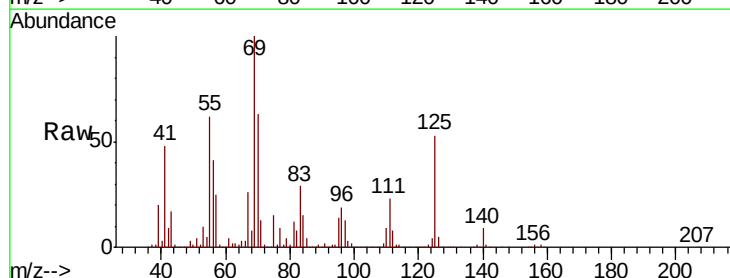
RT: 12.55 min Scan# 3353

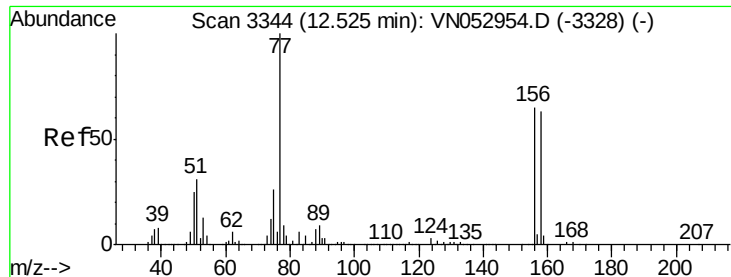
Delta R.T. 0.00 min

Lab File: VN053040.D

Acq: 20 Dec 2018 5:03

Tgt Ion:	75	Resp:	522938
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





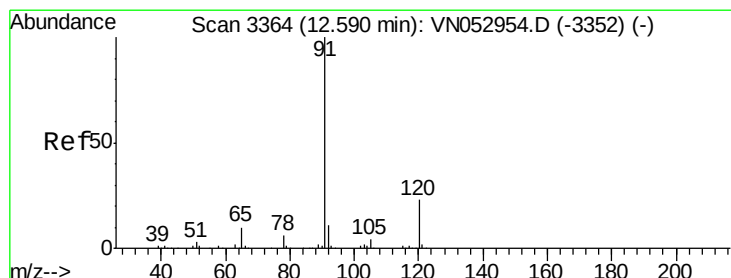
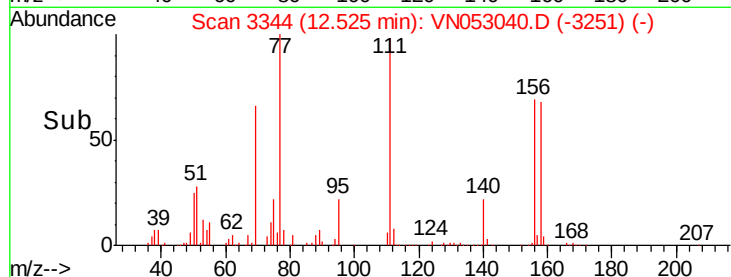
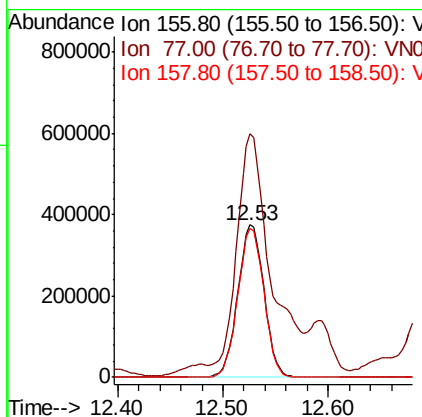
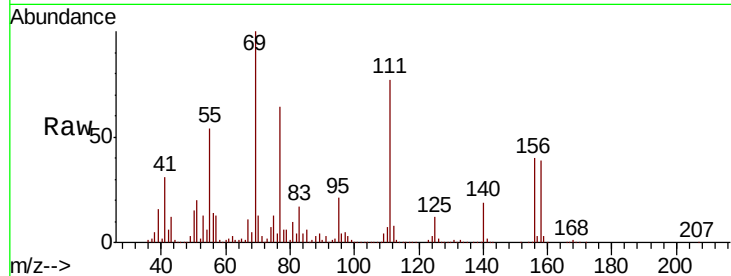
#77
Bromobenzene
Concen: 46.841 ug/l
RT: 12.53 min Scan# 3344
Delta R.T. 0.00 min
Lab File: VN053040.D
Acq: 20 Dec 2018 5:03

Instrument :
MSVOA_N
ClientSampleId :
EP1-MW-K(12-13FT)1218MSD

Tot Ion	Ion	Ratio	Lower	Upper
156	100			
77	184.9	91.3	273.8	
158	96.8	49.0	147.2	

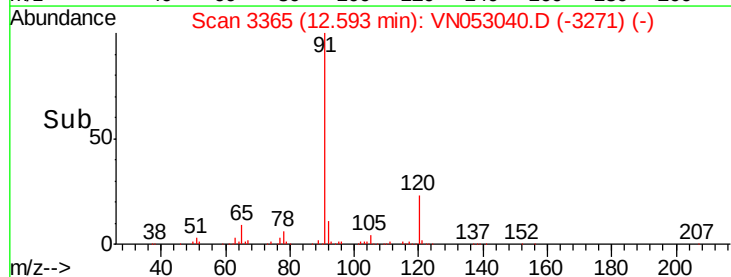
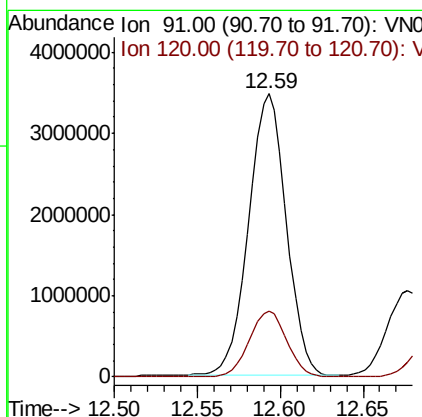
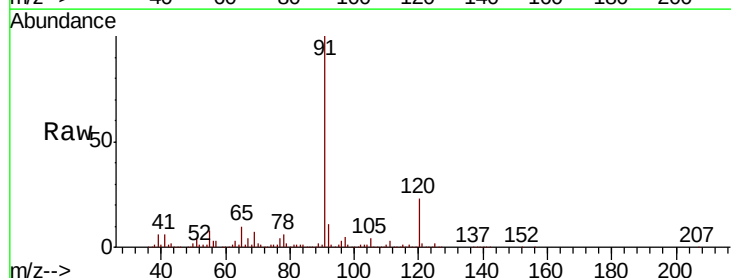
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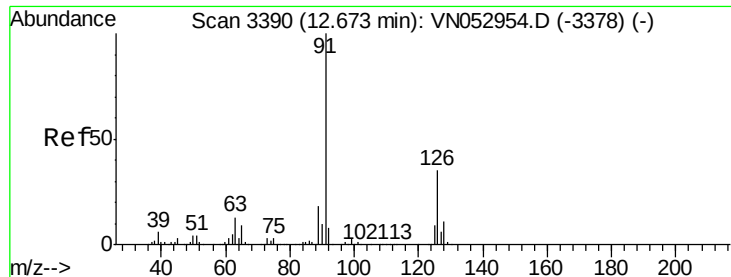
MMDadoda
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#78
n-propylbenzene
Concen: 90.525 ug/l
RT: 12.59 min Scan# 3365
Delta R.T. 0.00 min
Lab File: VN053040.D
Acq: 20 Dec 2018 5:03

Tgt Ion	Ion	Ratio	Lower	Upper
91	100			
120	23.3	11.5	34.5	





#79

2-Chlorotoluene

Concen: 49.193 ug/l

RT: 12.68 min Scan# 3391

Delta R.T. 0.00 min

Lab File: VN053040.D

Acq: 20 Dec 2018 5:03

Instrument :

MSVOA_N

ClientSampleId :

EP1-MW-K(12-13FT)1218MSD

Tot Ion: 91 Resp: 1844442

Ion Ratio Lower Upper

91 100

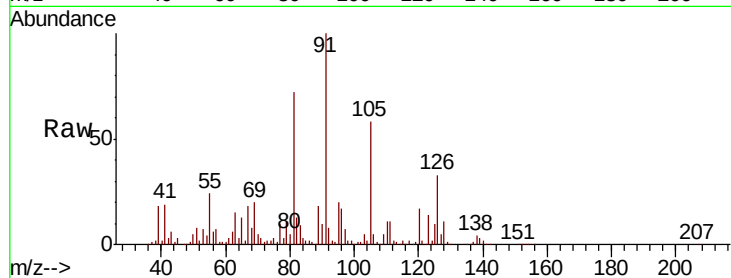
126 31.1 17.4 52.3

Manual Integrations

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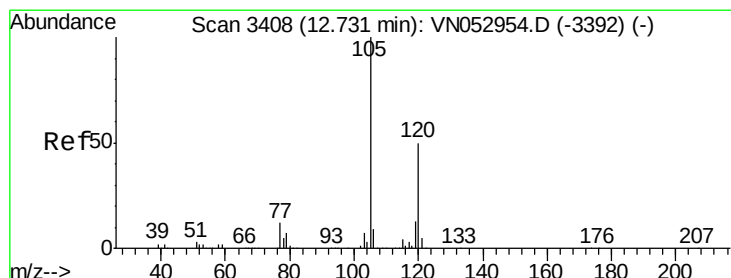
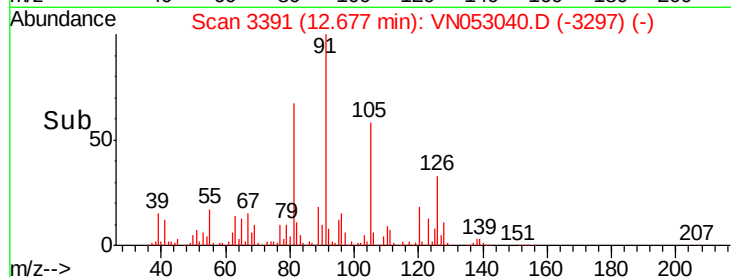
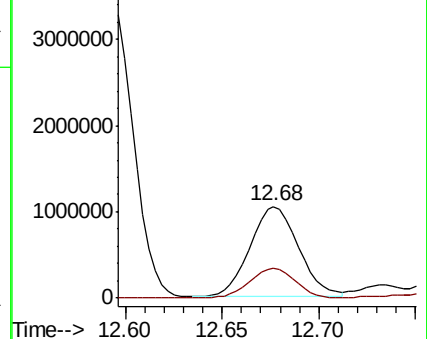
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Abundance Ion 91.00 (90.70 to 91.70): VN052954.D (-3378) (-)

Ion 125.90 (125.60 to 126.60): VN052954.D (-3378) (-)



#80

1,3,5-Trimethylbenzene

Concen: 43.314 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN053040.D

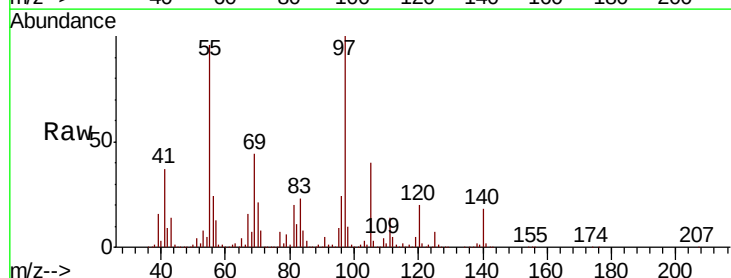
Acq: 20 Dec 2018 5:03

Tgt Ion:105 Resp: 1875095

Ion Ratio Lower Upper

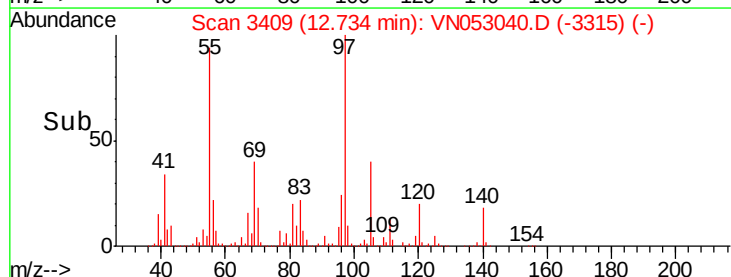
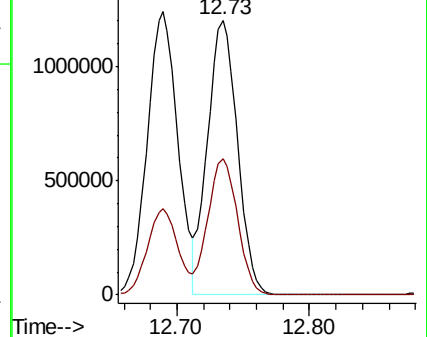
105 100

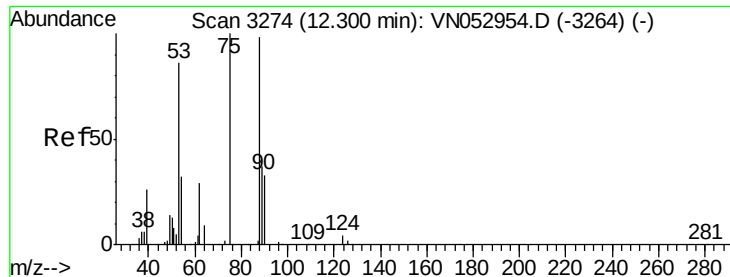
120 49.4 24.4 73.2



Abundance Ion 105.00 (104.70 to 105.70): VN052954.D (-3392) (-)

Ion 120.00 (119.70 to 120.70): VN052954.D (-3392) (-)





#81

trans-1,4-Dichloro-2-butene

Concen: 41.328 ug/l

RT: 12.30 min Scan# 3274

Delta R.T. -0.00 min

Lab File: VN053040.D

Acq: 20 Dec 2018 5:03

Instrument :

MSVOA_N

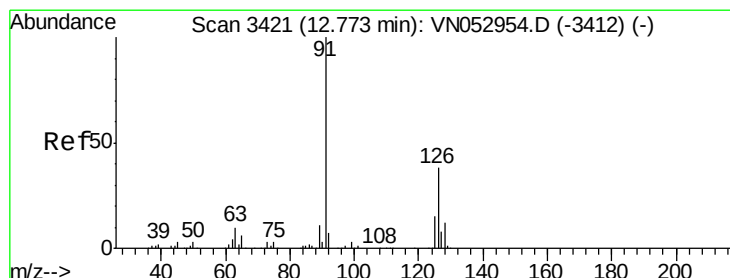
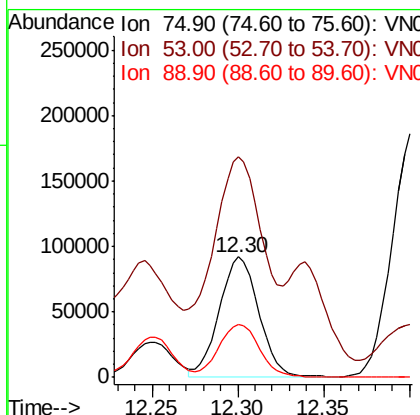
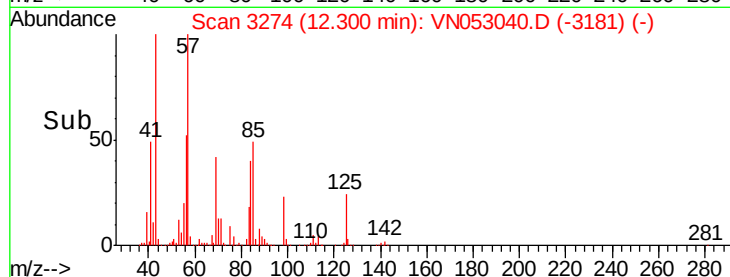
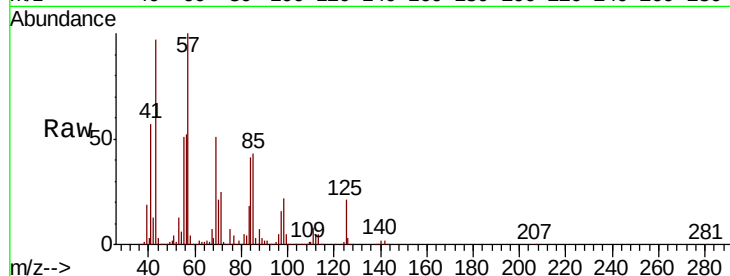
ClientSampleId :

EP1-MW-K(12-13FT)1218MSD

Tot Ion	Ratio	Lower	Upper
75	100		
53	138.2	74.7	112.1#
89	45.3	36.1	54.1

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#82

4-Chlorotoluene

Concen: 45.010 ug/l

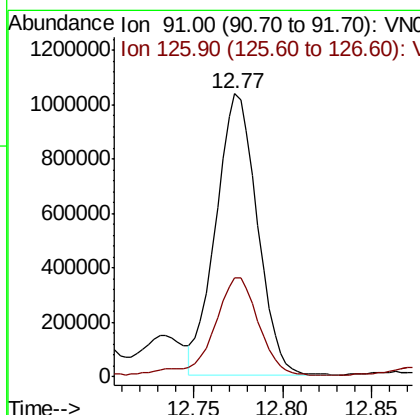
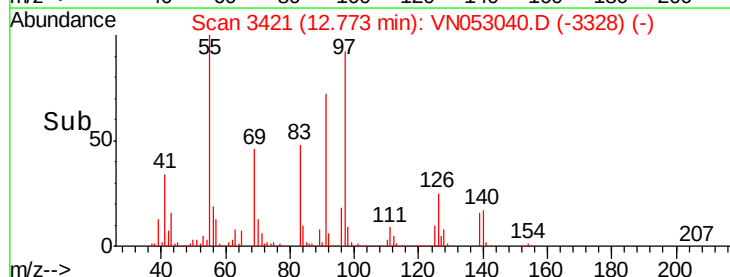
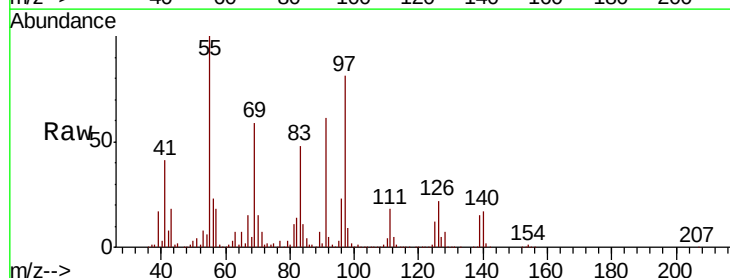
RT: 12.77 min Scan# 3421

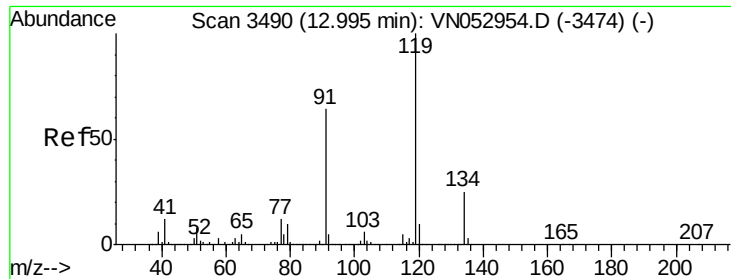
Delta R.T. -0.00 min

Lab File: VN053040.D

Acq: 20 Dec 2018 5:03

Tgt Ion	Ratio	Lower	Upper
91	100		
126	38.6	17.3	51.7





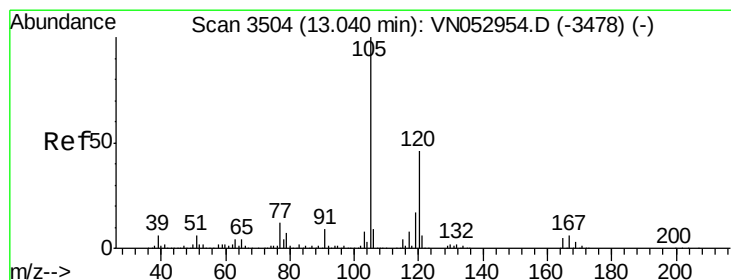
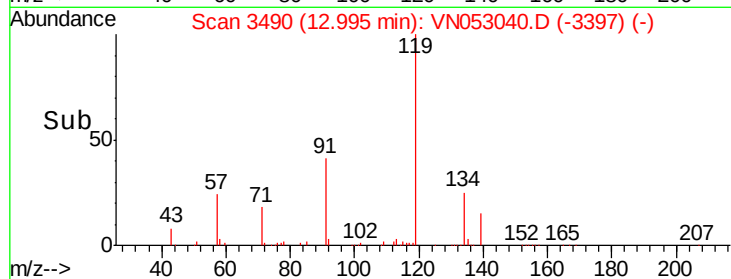
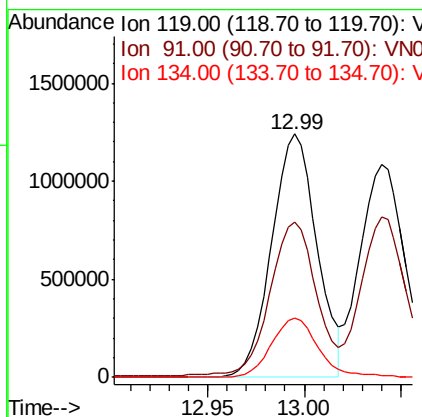
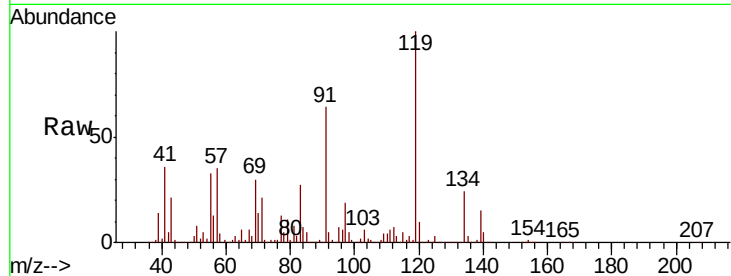
#83
 tert-Butylbenzene
 Concen: 52.541 ug/l
 RT: 12.99 min Scan# 3490
 Delta R.T. 0.00 min
 Lab File: VN053040.D
 Acq: 20 Dec 2018 5:03

Instrument :
 MSVOA_N
 ClientSampleId :
 EP1-MW-K(12-13FT)1218MSD

Tot Ion	Ratio	Lower	Upper
119	100		
91	64.6	31.9	95.5
134	25.5	12.8	38.4

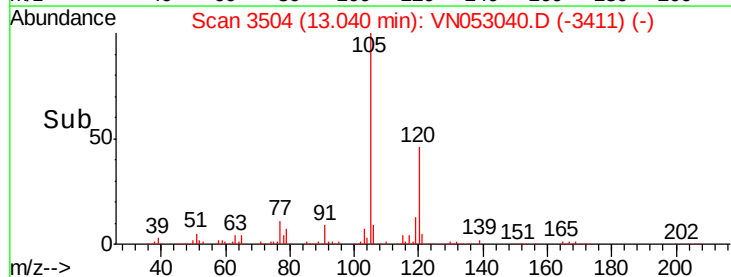
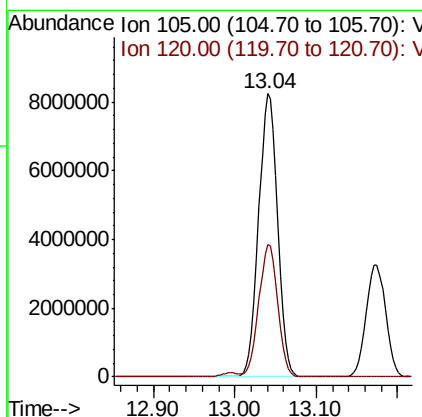
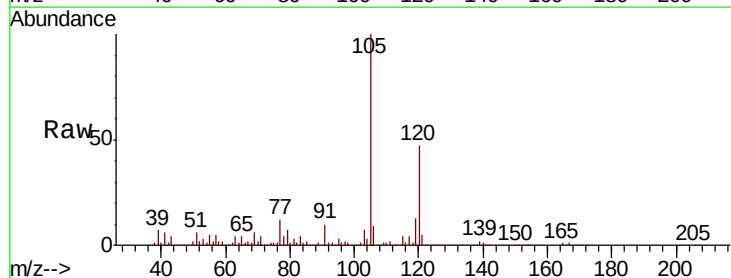
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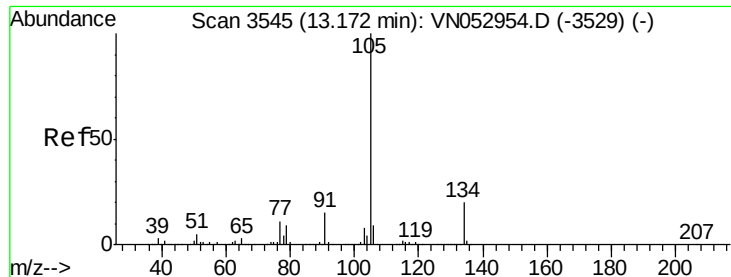
MMDadoda
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#84
 1,2,4-Trimethylbenzene
 Concen: 299.987 ug/l
 RT: 13.04 min Scan# 3504
 Delta R.T. 0.00 min
 Lab File: VN053040.D
 Acq: 20 Dec 2018 5:03

Tgt Ion	Ratio	Lower	Upper
105	100		
120	46.7	22.9	68.8





#85

sec-Butylbenzene

Concen: 103.171 ug/l

RT: 13.17 min Scan# 3546

Delta R.T. 0.00 min

Lab File: VN053040.D

Acq: 20 Dec 2018 5:03

Instrument :

MSVOA_N

ClientSampleId :

EP1-MW-K(12-13FT)1218MSD

Tot Ion:105 Resp: 5342828

Ion Ratio Lower Upper

105 100

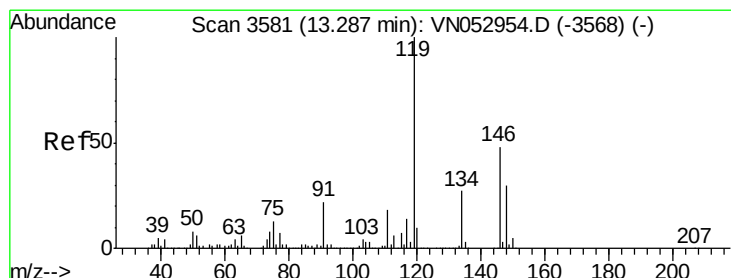
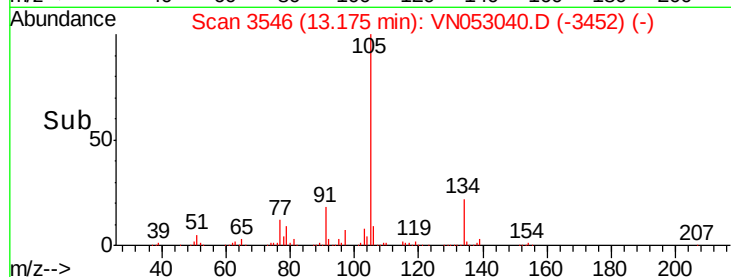
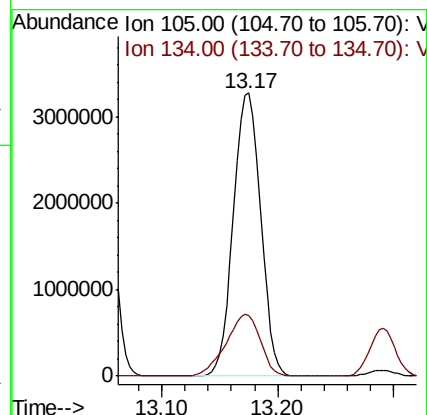
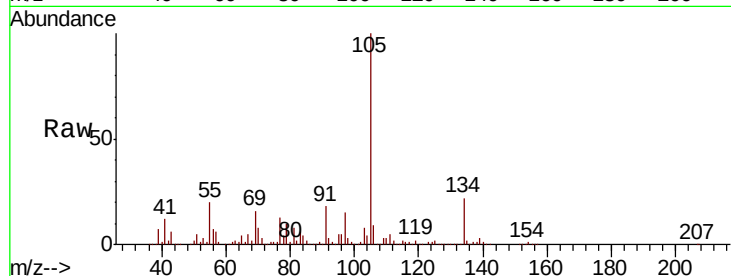
134 27.3 10.1 30.3

Manual Integrations

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#86

p-Isopropyltoluene

Concen: 71.420 ug/l

RT: 13.29 min Scan# 3582

Delta R.T. 0.00 min

Lab File: VN053040.D

Acq: 20 Dec 2018 5:03

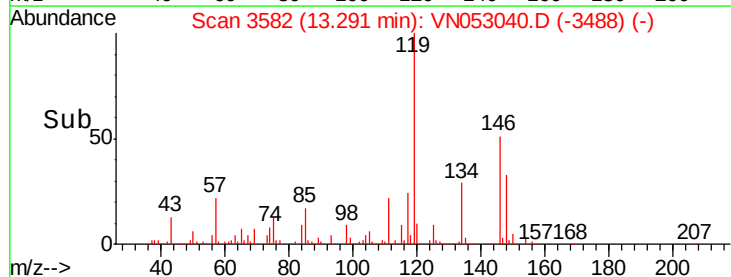
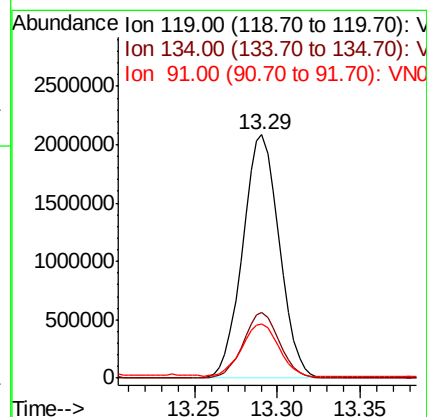
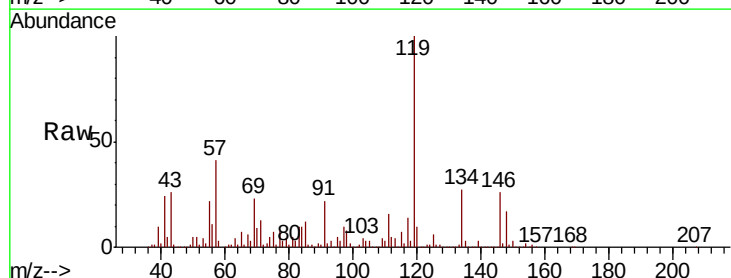
Tgt Ion:119 Resp: 3195882

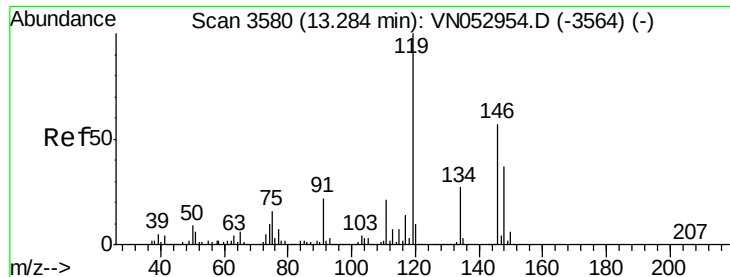
Ion Ratio Lower Upper

119 100

134 26.6 13.4 40.2

91 22.3 11.1 33.3





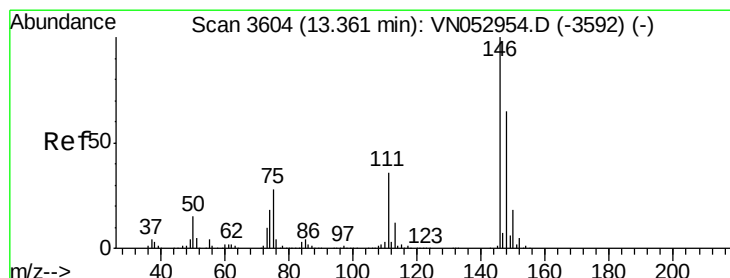
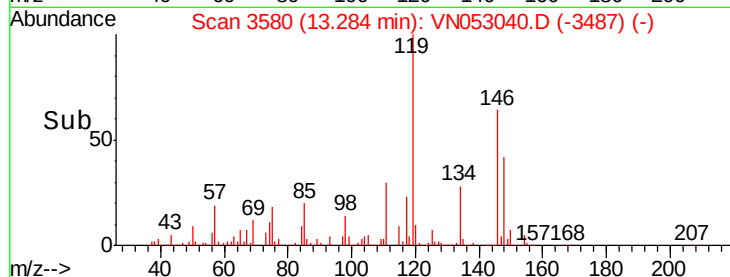
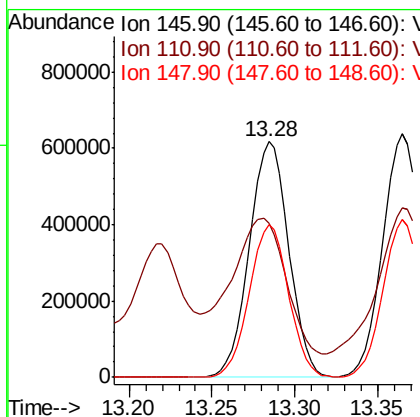
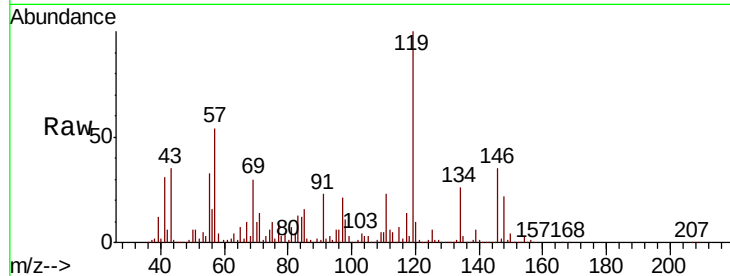
#87
 1,3-Dichlorobenzene
 Concen: 41.788 ug/l
 RT: 13.28 min Scan# 3580
 Delta R.T. -0.00 min
 Lab File: VN053040.D
 Acq: 20 Dec 2018 5:03

Instrument :
 MSVOA_N
 ClientSampleId :
 EP1-MW-K(12-13FT)1218MSD

Tot Ion:146 Resp: 1021092
 Ion Ratio Lower Upper
 146 100
 111 77.5 19.1 57.1#
 148 64.5 32.0 96.0

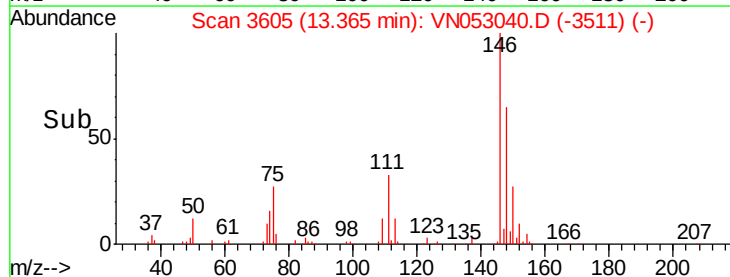
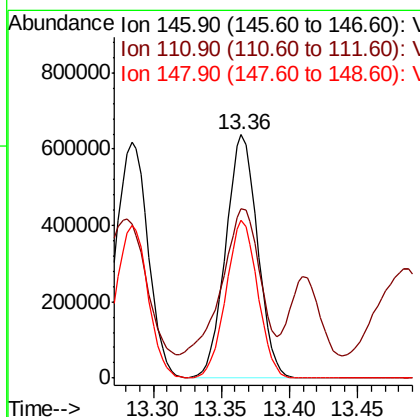
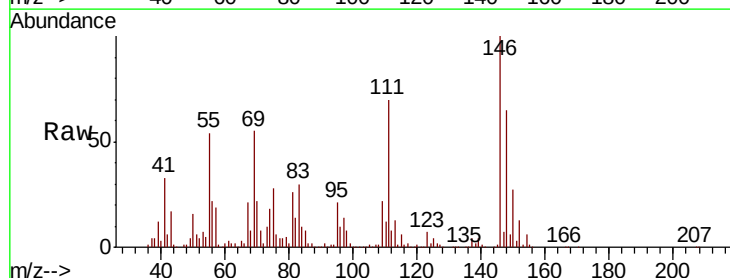
Manual Integrations
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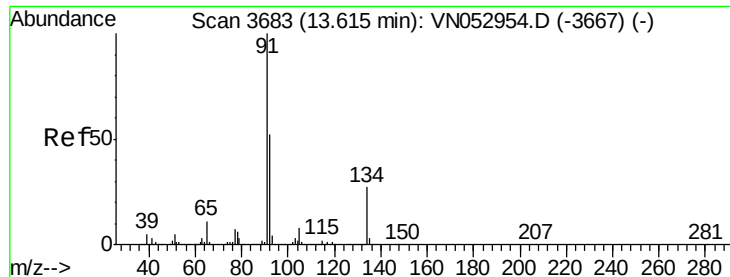
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#88
 1,4-Dichlorobenzene
 Concen: 41.759 ug/l
 RT: 13.36 min Scan# 3605
 Delta R.T. 0.00 min
 Lab File: VN053040.D
 Acq: 20 Dec 2018 5:03

Tgt Ion:146 Resp: 1033329
 Ion Ratio Lower Upper
 146 100
 111 68.8 18.6 55.8#
 148 64.5 32.1 96.5





#89

n-Butylbenzene

Concen: 99.639 ug/l

RT: 13.62 min Scan# 3683

Delta R.T. 0.00 min

Lab File: VN053040.D

Acq: 20 Dec 2018 5:03

Instrument :

MSVOA_N

ClientSampleId :

EP1-MW-K(12-13FT)1218MSD

Tot Ion: 91 Resp: 3835780

Ion Ratio Lower Upper

91 100

92 50.5 26.3 78.9

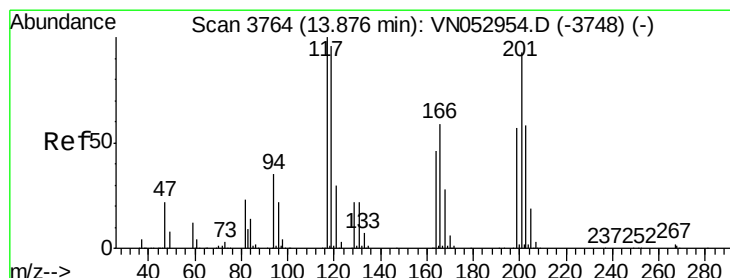
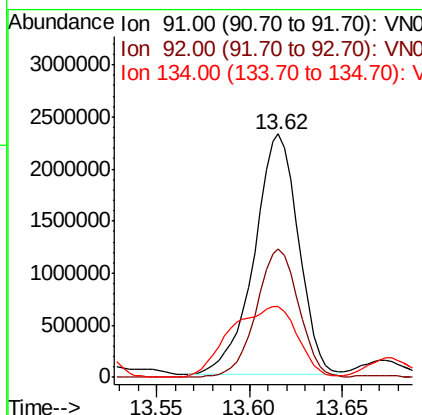
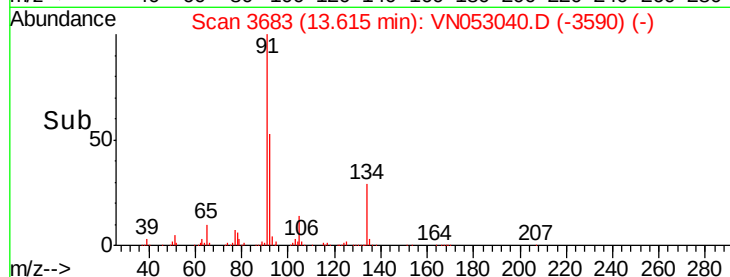
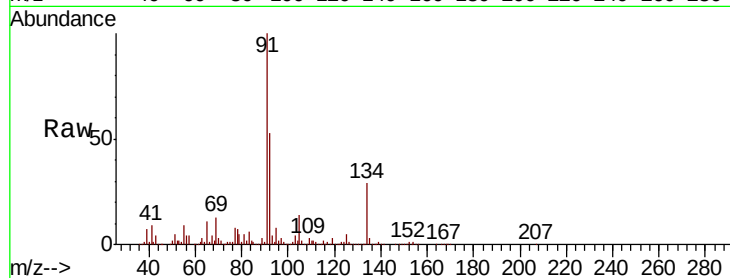
134 44.5 13.3 39.8#

Manual Integrations

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#90

Hexachloroethane

Concen: 95.495 ug/l

RT: 13.89 min Scan# 3767

Delta R.T. 0.01 min

Lab File: VN053040.D

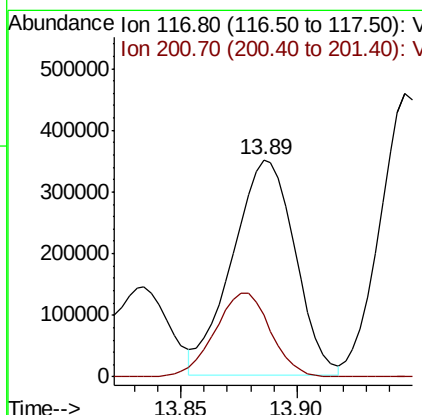
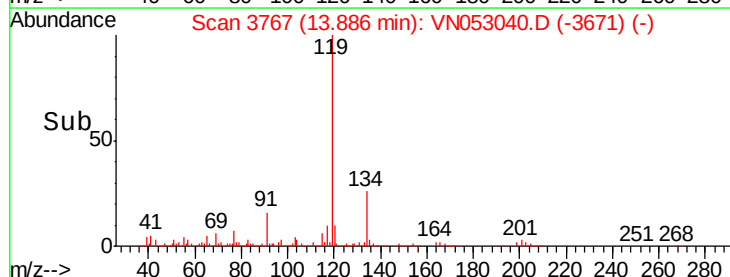
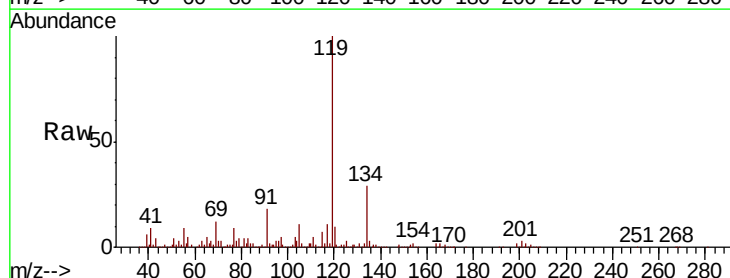
Acq: 20 Dec 2018 5:03

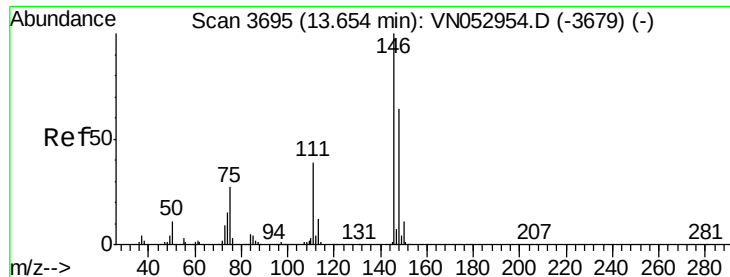
Tgt Ion: 117 Resp: 655748

Ion Ratio Lower Upper

117 100

201 34.6 45.7 137.1#





#91

1,2-Dichlorobenzene

Concen: 42.739 ug/l

RT: 13.65 min Scan# 3695

Delta R.T. 0.00 min

Lab File: VN053040.D

Acq: 20 Dec 2018 5:03

Instrument :

MSVOA_N

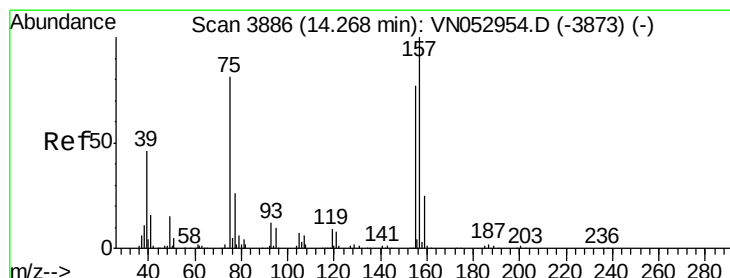
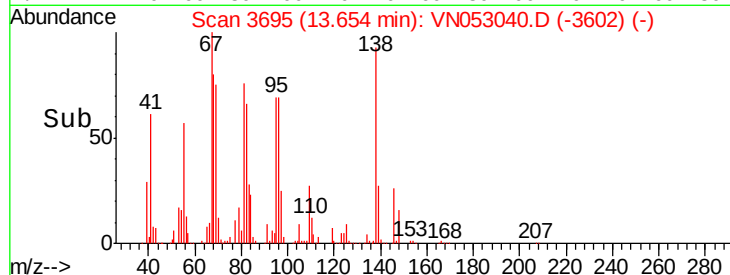
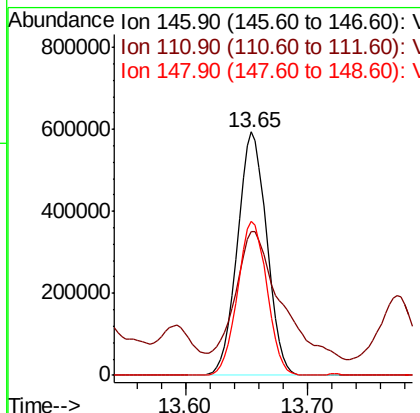
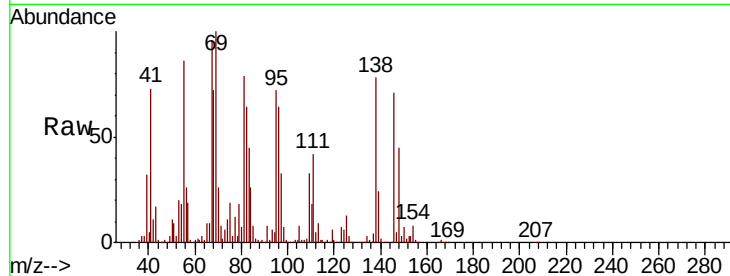
ClientSampleId :

EP1-MW-K(12-13FT)1218MSD

Tot Ion:	146	Resp:	982853
Ion Ratio	Lower	Upper	
146	100		
111	81.4	19.7	59.0#
148	63.7	32.0	96.0

Manual Integrations
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#92

1,2-Dibromo-3-Chloropropane

Concen: 50.184 ug/l

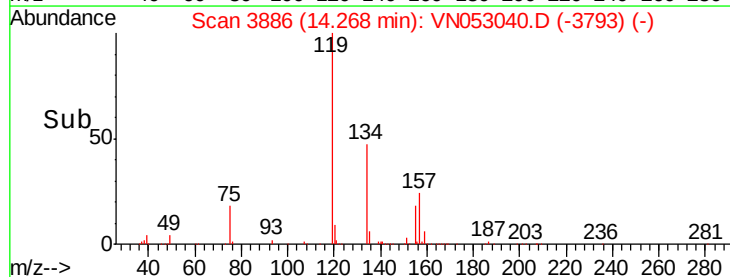
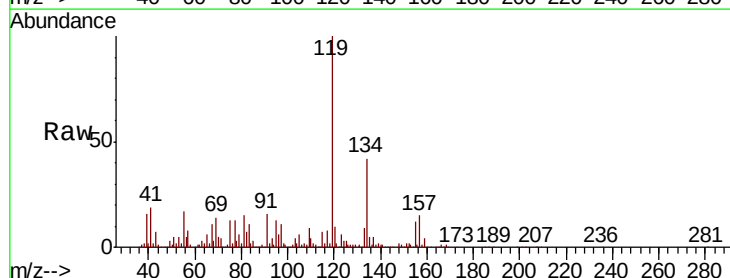
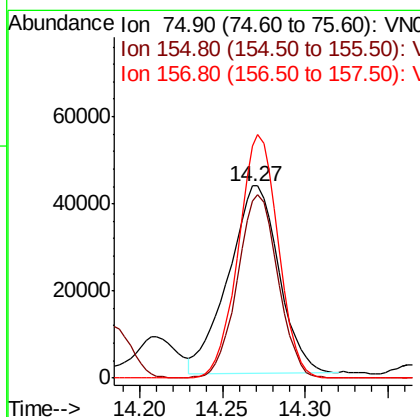
RT: 14.27 min Scan# 3886

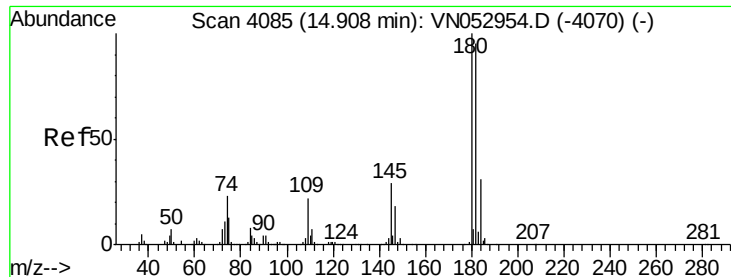
Delta R.T. -0.00 min

Lab File: VN053040.D

Acq: 20 Dec 2018 5:03

Tgt Ion:	75	Resp:	90413
Ion Ratio	Lower	Upper	
75	100		
155	78.9	48.2	144.6
157	103.0	61.2	183.5





#93

1,2,4-Trichlorobenzene

Concen: 50.928 ug/l

RT: 14.91 min Scan# 4085

Delta R.T. 0.00 min

Lab File: VN053040.D

Acq: 20 Dec 2018 5:03

Instrument :

MSVOA_N

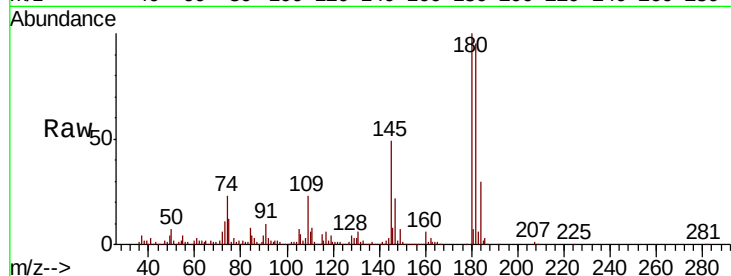
ClientSampleId :

EP1-MW-K(12-13FT)1218MSD

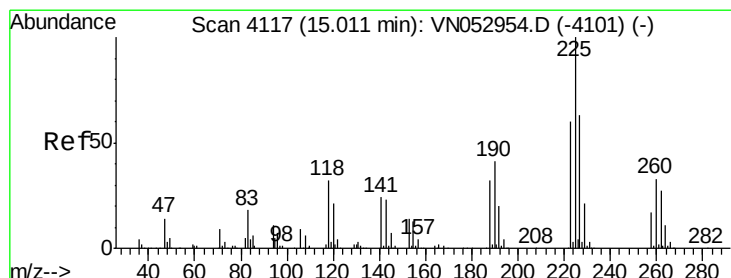
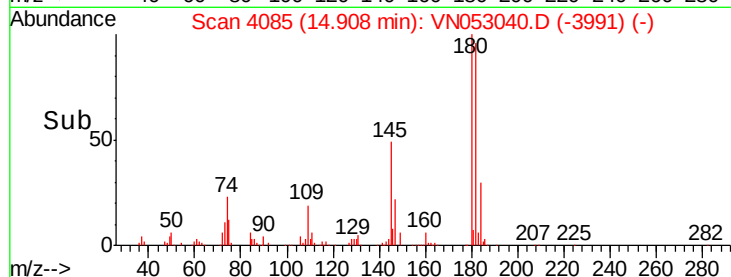
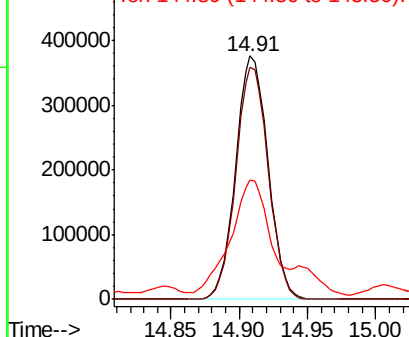
Tot Ion:	180	Resp:	620633
Ion Ratio	Lower	Upper	
180	100		
182	95.3	47.8	143.3
145	55.3	14.2	42.6#

Manual Integrations
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Abundance Ion 179.80 (179.50 to 180.50): V
Ion 181.80 (181.50 to 182.50): V
Ion 144.80 (144.50 to 145.50): V



#94

Hexachlorobutadiene

Concen: 64.532 ug/l

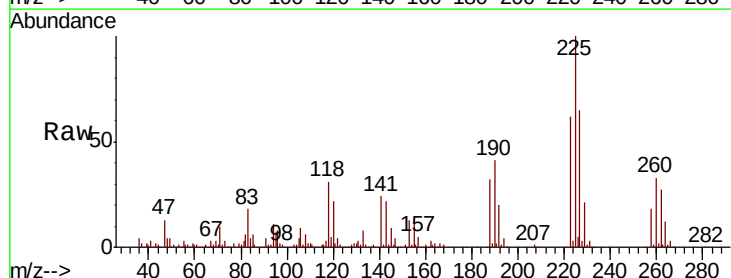
RT: 15.01 min Scan# 4117

Delta R.T. 0.00 min

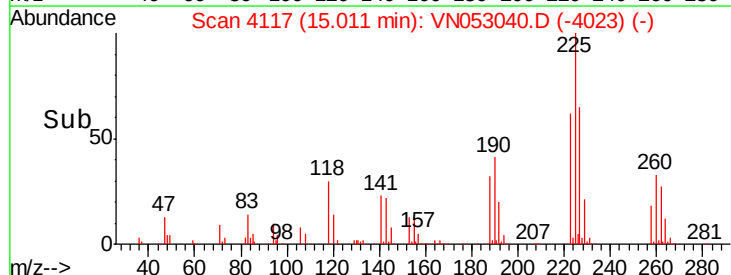
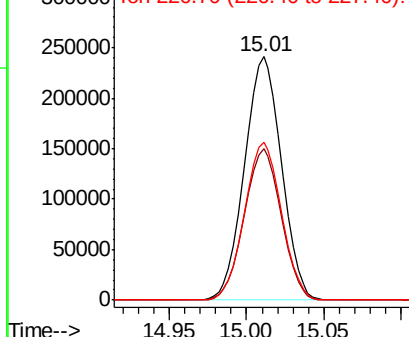
Lab File: VN053040.D

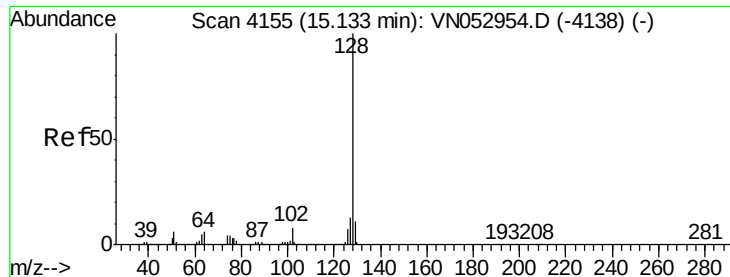
Acq: 20 Dec 2018 5:03

Tgt Ion:	225	Resp:	401832
Ion Ratio	Lower	Upper	
225	100		
223	62.3	31.5	94.5
227	64.9	31.9	95.7



Abundance Ion 224.70 (224.40 to 225.40): V
Ion 222.70 (222.40 to 223.40): V
Ion 226.70 (226.40 to 227.40): V





#95

Naphthalene

Concen: 50.321 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN053040.D

Acq: 20 Dec 2018 5:03

Instrument :

MSVOA_N

ClientSampleId :

EP1-MW-K(12-13FT)1218MSD

Tot Ion:128 Resp: 1343237

Ion Ratio Lower Upper

128 100

127 12.9 10.2 15.4

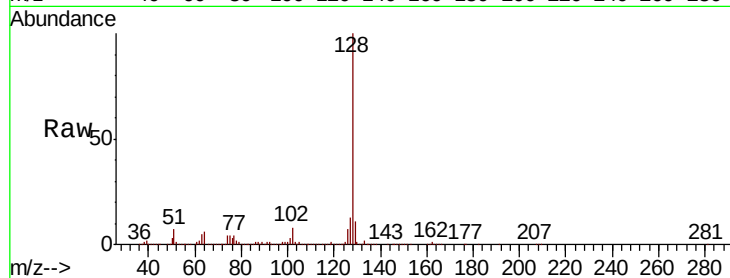
129 10.9 8.6 13.0

Manual Integrations

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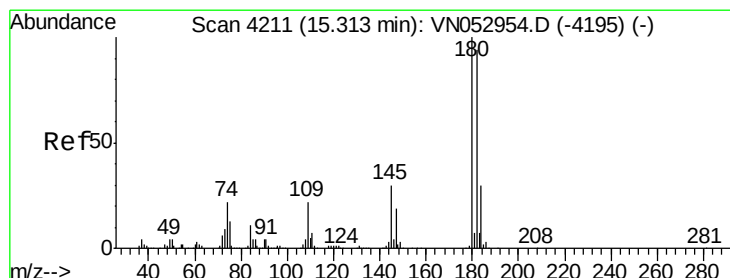
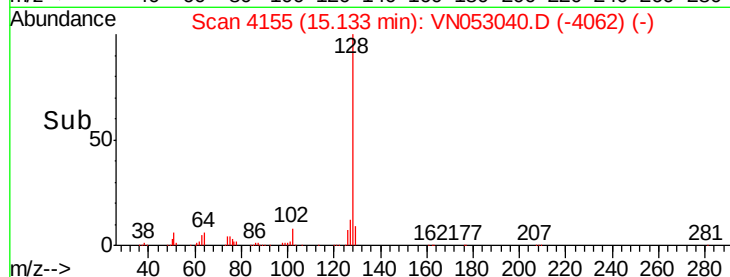
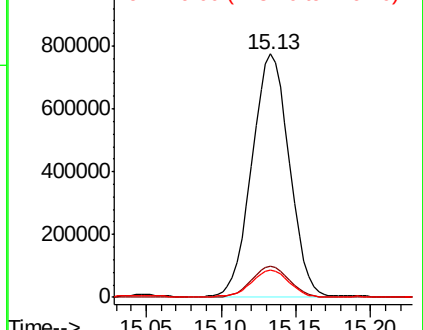


Abundance

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: 51.582 ug/l

RT: 15.32 min Scan# 4212

Delta R.T. 0.00 min

Lab File: VN053040.D

Acq: 20 Dec 2018 5:03

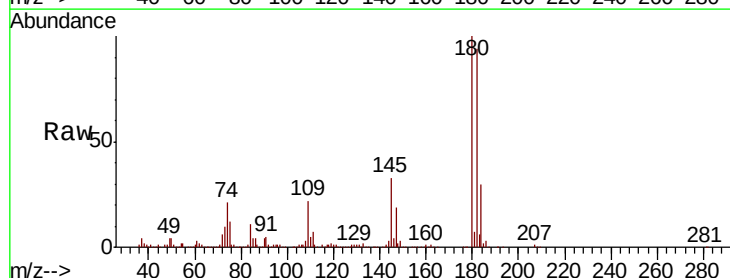
Tgt Ion:180 Resp: 566121

Ion Ratio Lower Upper

180 100

182 94.7 47.9 143.7

145 38.6 15.0 45.0



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

