

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN121918\
 Data File : VN053022.D
 Acq On : 19 Dec 2018 20:10
 Operator : MD\SY
 Sample : VSTDCCC050
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 27 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Manual Integrations
 APPROVED

MMDadoda
 12/20/2018 9:35:16 AM

Quant Time: Dec 20 06:45:19 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	1076051	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1644754	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1476455	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	695512	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	563507	51.60	ug/l	0.00
Spiked Amount 50.000			Recovery	=	103.20%	
35) Dibromofluoromethane	7.59	113	451738	60.13	ug/l	0.00
Spiked Amount 50.000			Recovery	=	120.26%	
50) Toluene-d8	10.09	98	2093710	51.91	ug/l	0.00
Spiked Amount 50.000			Recovery	=	103.82%	
62) 4-Bromofluorobenzene	12.40	95	735405	51.94	ug/l	0.00
Spiked Amount 50.000			Recovery	=	103.88%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.85	85	507740	46.622	ug/l	100
3) Chloromethane	2.06	50	637892	48.336	ug/l	100
4) Vinyl Chloride	2.19	62	640895	47.952	ug/l	100
5) Bromomethane	2.57	94	421551	45.524	ug/l	100
6) Chloroethane	2.71	64	376945	47.620	ug/l	100
7) Trichlorofluoromethane	3.02	101	813560	48.863	ug/l	100
8) Diethyl Ether	3.41	74	316695	50.419	ug/l	96
9) 1,1,2-Trichlorotrifluoroet	3.77	101	507431	47.799	ug/l	99
10) Methyl Iodide	3.96	142	746044	50.043	ug/l	99
11) Tert butyl alcohol	4.77	59	165797	248.837	ug/l	99
12) 1,1-Dichloroethene	3.74	96	497746	48.531	ug/l	99
13) Acrolein	3.61	56	193721	320.650	ug/l	100
14) Allyl chloride	4.33	41	831034	52.311	ug/l	94
15) Acrylonitrile	4.98	53	919644	248.448	ug/l	99
16) Acetone	3.81	43	552428	258.018	ug/l	96
17) Carbon Disulfide	4.06	76	1421687	42.505	ug/l	100
18) Methyl Acetate	4.32	43	475376	48.940	ug/l	98
19) Methyl tert-butyl Ether	5.04	73	1405016	51.191	ug/l	99
20) Methylene Chloride	4.55	84	569123	48.730	ug/l	97
21) trans-1,2-Dichloroethene	5.05	96	532642	48.337	ug/l	97
22) Diisopropyl ether	5.95	45	1740137	51.316	ug/l	98
23) Vinyl Acetate	5.90	43	5030003	257.959	ug/l	98
24) 1,1-Dichloroethane	5.85	63	999722	49.613	ug/l	99
25) 2-Butanone	6.83	43	950823	264.617	ug/l	98
26) 2,2-Dichloropropane	6.83	77	715855	46.539	ug/l	99
27) cis-1,2-Dichloroethene	6.83	96	620567	49.744	ug/l	99
28) Bromochloromethane	7.19	49	437968	50.160	ug/l	95
29) Tetrahydrofuran	7.21	42	677413	252.422	ug/l	98
30) Chloroform	7.37	83	978618	49.439	ug/l	100
31) Cyclohexane	7.65	56	915906	48.432	ug/l	98
32) 1,1,1-Trichloroethane	7.57	97	817741	48.495	ug/l	99
36) 1,1-Dichloropropene	7.79	75	765696	48.502	ug/l	100
37) Ethyl Acetate	6.93	43	454945	51.622	ug/l	98
38) Carbon Tetrachloride	7.77	117	700257	48.394	ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	877201	45.741	ug/l	98
40) Benzene	8.04	78	2314379	49.287	ug/l	100
41) Methacrylonitrile	7.17	41	277185	54.435	ug/l	93
42) 1,2-Dichloroethane	8.12	62	674957	48.656	ug/l	98
43) Isopropyl Acetate	8.16	43	861098	50.501	ug/l	99
44) Trichloroethene	8.84	130	652111	48.013	ug/l	97
45) 1,2-Dichloropropane	9.12	63	616019	50.365	ug/l	99
46) Dibromomethane	9.21	93	348289	48.882	ug/l	98
47) Bromodichloromethane	9.40	83	737513	48.695	ug/l	100
48) Methyl methacrylate	9.20	41	433702	50.715	ug/l	99
49) 1,4-Dioxane	9.20	88	103527	957.015	ug/l	95
51) 4-Methyl-2-Pentanone	9.98	43	2211106	259.074	ug/l	99
52) Toluene	10.16	92	1429698	49.121	ug/l	99
53) t-1,3-Dichloropropene	10.38	75	769503	48.316	ug/l	100
54) cis-1,3-Dichloropropene	9.84	75	910398	49.801	ug/l	97
55) 1,1,2-Trichloroethane	10.56	97	504706	49.705	ug/l	99
56) Ethyl methacrylate	10.43	69	686956	51.113	ug/l	98
57) 1,3-Dichloropropane	10.71	76	870204	49.976	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.69	63	1872875	253.832	ug/l	98
59) 2-Hexanone	10.75	43	1493846	258.702	ug/l	99
60) Dibromochloromethane	10.90	129	563490	48.480	ug/l	100
61) 1,2-Dibromoethane	11.01	107	512074	49.656	ug/l	99
64) Tetrachloroethene	10.63	164	742142	46.403	ug/l	99
65) Chlorobenzene	11.43	112	1603619	48.997	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.51	131	559907	49.195	ug/l	99
67) Ethyl Benzene	11.51	91	2778246	49.360	ug/l	100
68) m/p-Xylenes	11.62	106	2119061	99.035	ug/l	99
69) o-Xylene	11.95	106	1025381	49.940	ug/l	100
70) Styrene	11.96	104	1702844	50.861	ug/l	99
71) Bromoform	12.13	173	390353	47.476	ug/l #	100
73) Isopropylbenzene	12.25	105	2705427	49.716	ug/l	99
74) N-amyl acetate	12.07	43	793837	52.543	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.50	83	562740	52.711	ug/l	99
76) 1,2,3-Trichloropropane	12.55	75	509950m	43.555	ug/l	
77) Bromobenzene	12.53	156	729482	51.570	ug/l	93
78) n-propylbenzene	12.59	91	3069141	49.521	ug/l	99
79) 2-Chlorotoluene	12.67	91	1814093	47.222	ug/l	99
80) 1,3,5-Trimethylbenzene	12.73	105	2159341	48.683	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.30	75	174036	47.910	ug/l	97
82) 4-Chlorotoluene	12.77	91	1854543	49.315	ug/l	99
83) tert-Butylbenzene	12.99	119	1899743	48.428	ug/l	99
84) 1,2,4-Trimethylbenzene	13.04	105	2200753	49.356	ug/l	100
85) sec-Butylbenzene	13.17	105	2501426	47.144	ug/l	99
86) p-Isopropyltoluene	13.29	119	2181920	47.590	ug/l	100
87) 1,3-Dichlorobenzene	13.28	146	1218207	48.658	ug/l	99
88) 1,4-Dichlorobenzene	13.36	146	1199537	47.312	ug/l	100
89) n-Butylbenzene	13.62	91	1807788	45.832	ug/l	100
90) Hexachloroethane	13.88	117	328232	46.652	ug/l	99
91) 1,2-Dichlorobenzene	13.65	146	1145524	48.617	ug/l	100
92) 1,2-Dibromo-3-Chloropropan	14.27	75	86983	47.121	ug/l	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	591853	47.442	ug/l	100
94) Hexachlorobutadiene	15.01	225	322923	49.958	ug/l	99
95) Naphthalene	15.13	128	1316087	48.170	ug/l	100
96) 1,2,3-Trichlorobenzene	15.31	180	532884	47.430	ug/l	99

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

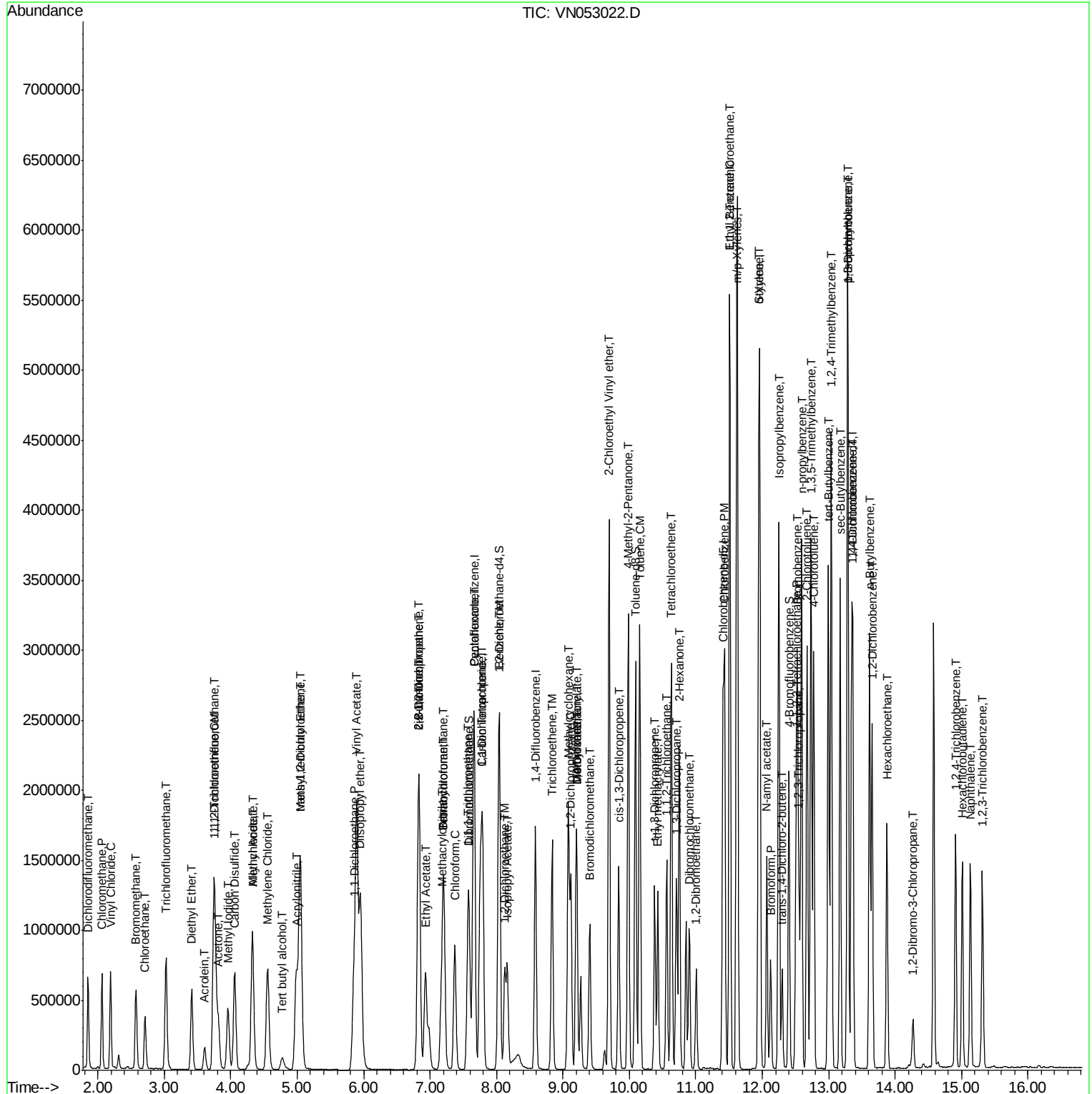
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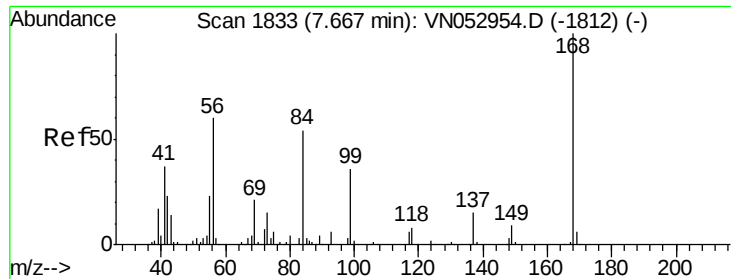
Instrument :
MSVOA_N
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN053022.D

Acq: 19 Dec 2018 20:10

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion:168 Resp: 1076051

Ion Ratio Lower Upper

168 100

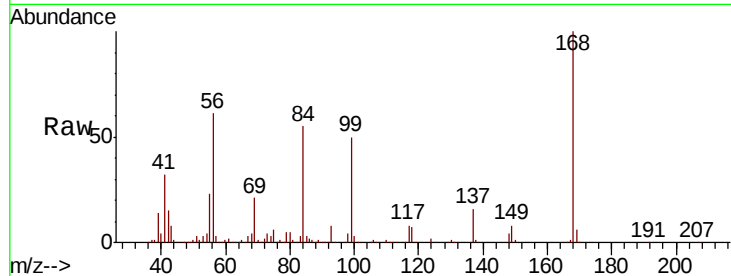
99 49.7 40.2 60.2

Manual Integrations

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12/20/2018 9:35:16 AM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

400000

300000

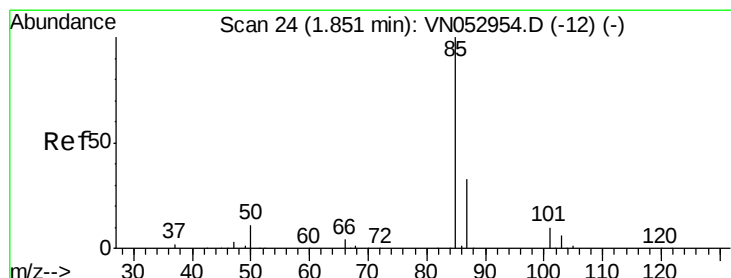
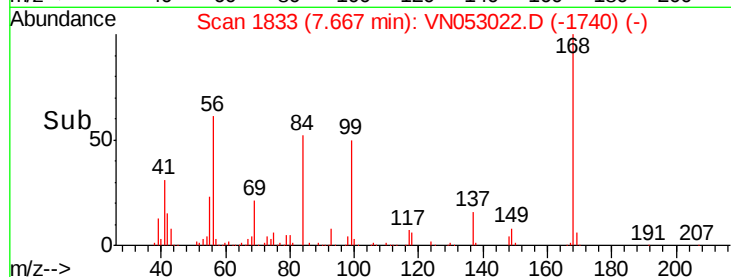
200000

100000

0

7.60 7.70 7.80

Time-->



#2

Dichlorodifluoromethane

Concen: 46.622 ug/l

RT: 1.85 min Scan# 24

Delta R.T. 0.00 min

Lab File: VN053022.D

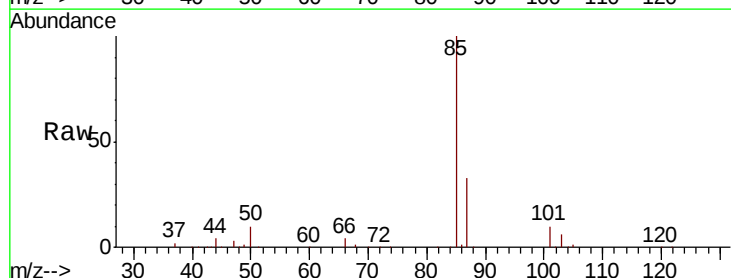
Acq: 19 Dec 2018 20:10

Tgt Ion: 85 Resp: 507740

Ion Ratio Lower Upper

85 100

87 32.7 16.3 48.8



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO

1.85

400000

300000

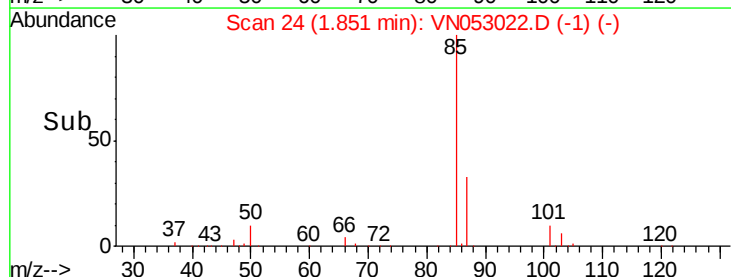
200000

100000

0

1.80 1.85 1.90 1.95

Time-->





#3

Chloromethane

Concen: 48.336 ug/l

RT: 2.06 min Scan# 89

Delta R.T. 0.00 min

Lab File: VN053022.D

Acq: 19 Dec 2018 20:10

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 50 Resp: 637892

Ion Ratio Lower Upper

50 100

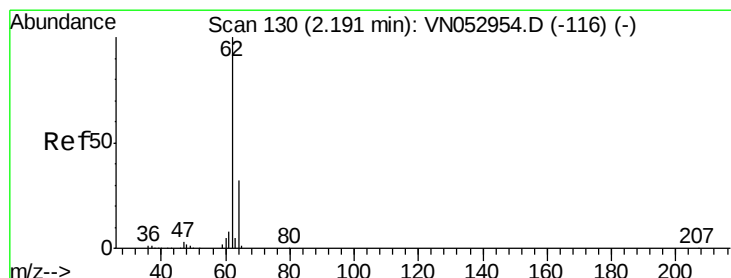
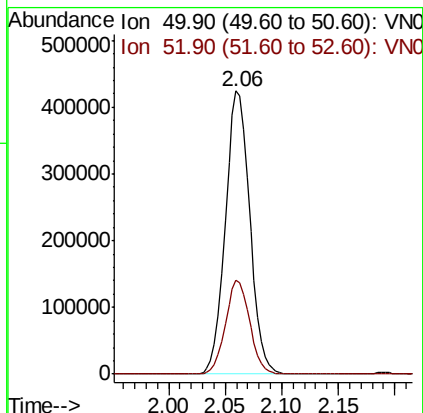
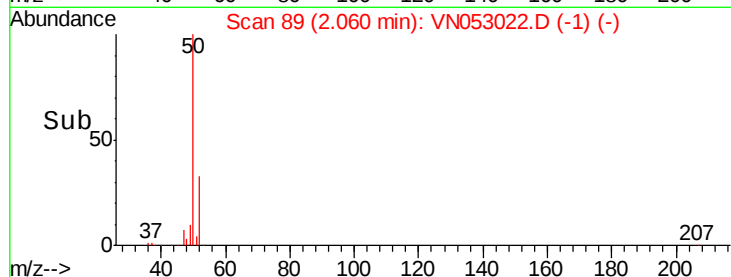
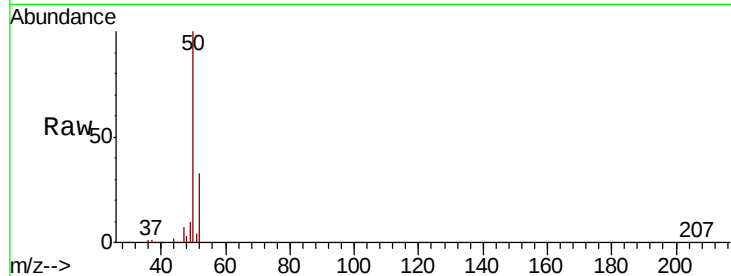
52 33.0 26.2 39.4

Manual Integrations

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#4

Vinyl Chloride

Concen: 47.952 ug/l

RT: 2.19 min Scan# 130

Delta R.T. 0.00 min

Lab File: VN053022.D

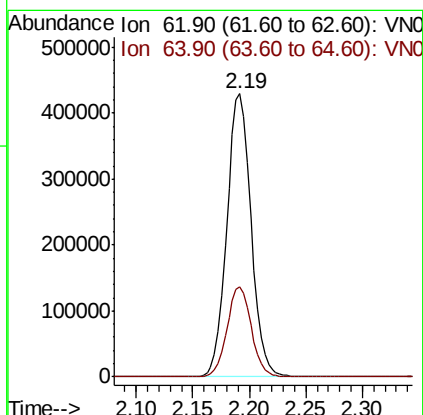
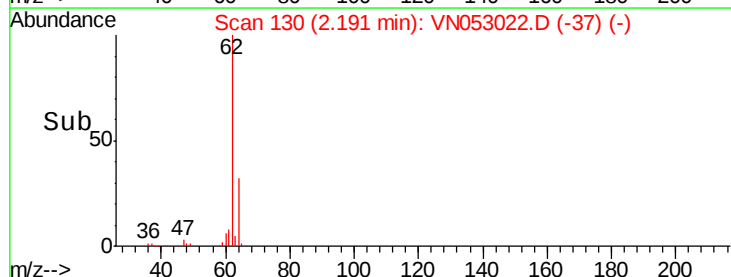
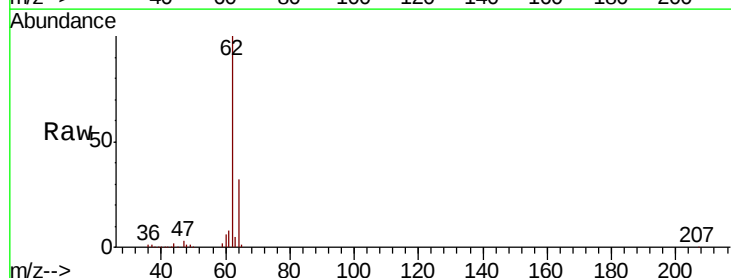
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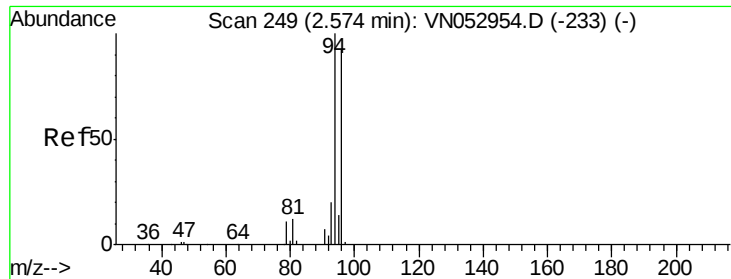
Tgt Ion: 62 Resp: 640895

Ion Ratio Lower Upper

62 100

64 31.7 25.5 38.3





#5

Bromomethane

Concen: 45.524 ug/l

RT: 2.57 min Scan# 249

Delta R.T. 0.00 min

Lab File: VN053022.D

Acq: 19 Dec 2018 20:10

Instrument :

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ClientSampleId :

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Tot Ion: 94 Resp: 421551

Ion Ratio Lower Upper

94 100

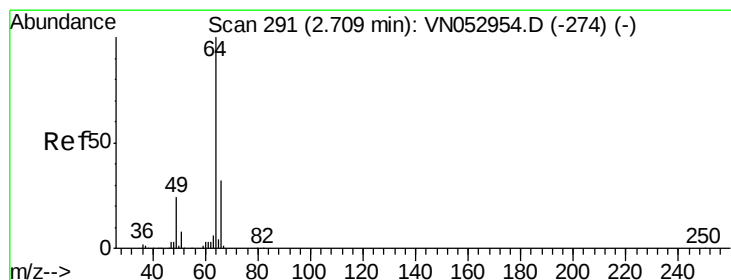
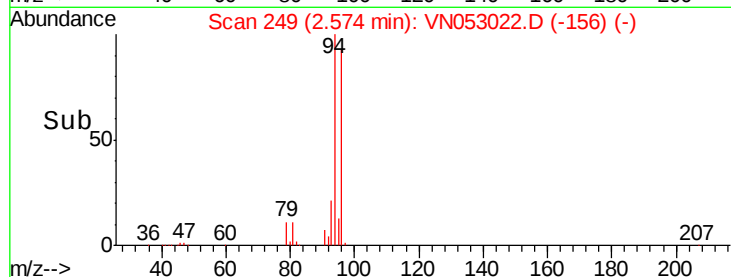
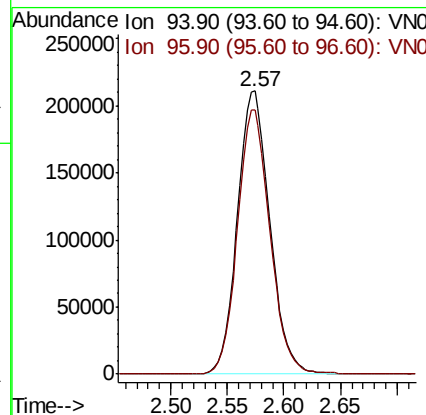
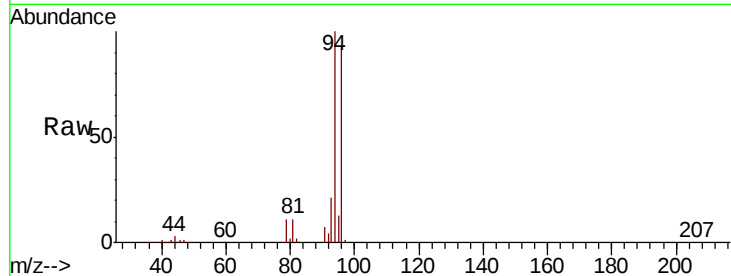
96 93.3 75.0 112.4

Manual Integrations

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#6

Chloroethane

Concen: 47.620 ug/l

RT: 2.71 min Scan# 291

Delta R.T. 0.00 min

Lab File: VN053022.D

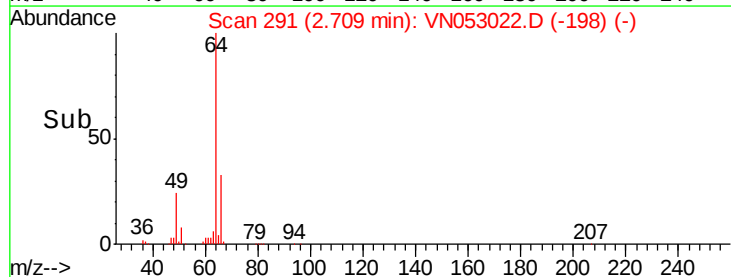
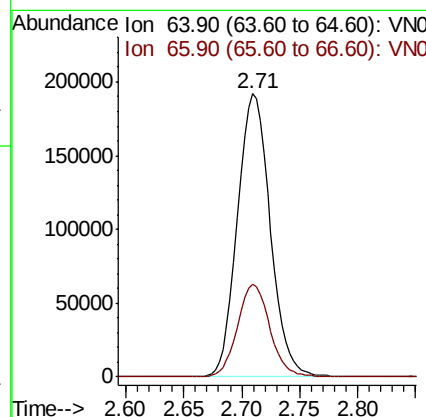
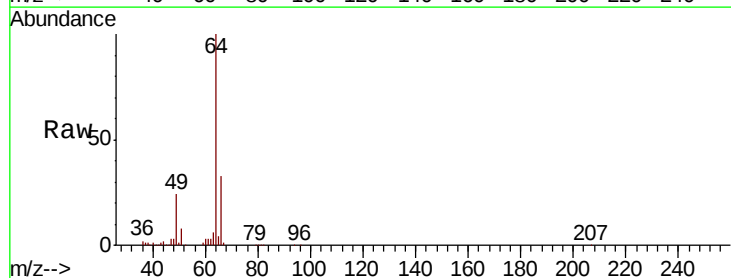
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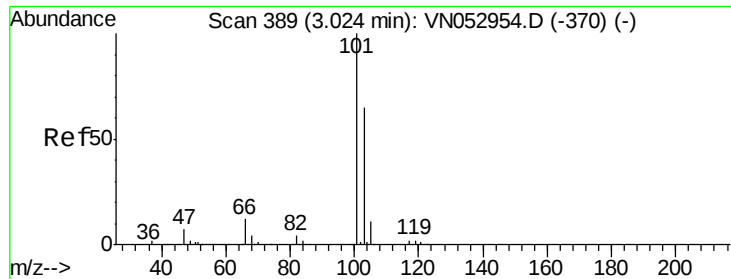
Tgt Ion: 64 Resp: 376945

Ion Ratio Lower Upper

64 100

66 32.5 26.2 39.2





#7

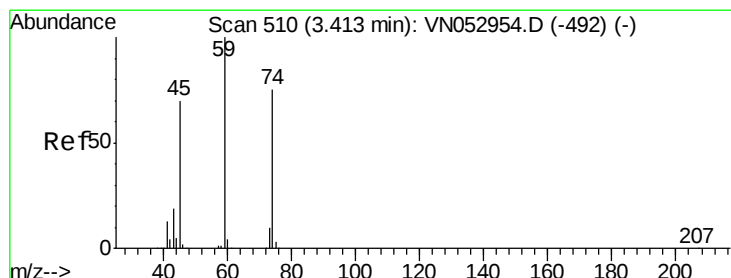
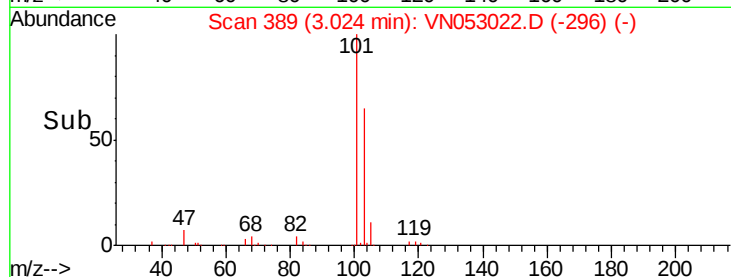
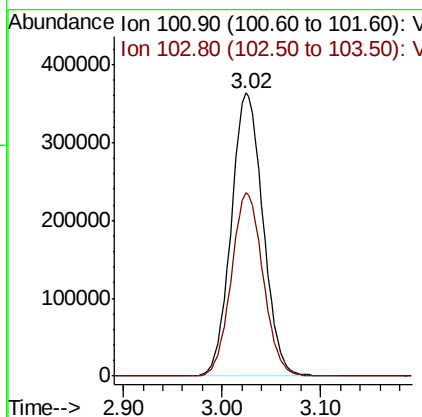
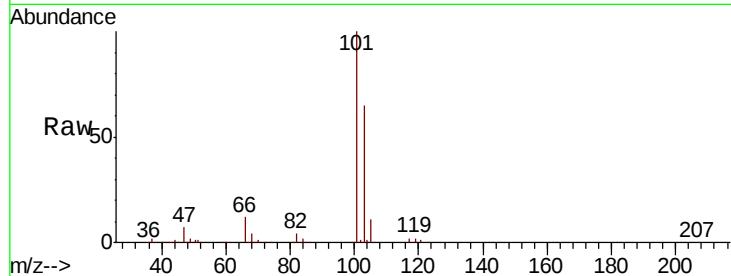
Trichlorofluoromethane
 Concen: 48.863 ug/l
 RT: 3.02 min Scan# 389
 Delta R.T. 0.00 min
 Lab File: VN053022.D
 Acq: 19 Dec 2018 20:10

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Tot Ion	Ratio	Lower	Upper
101	100		
103	64.8	51.8	77.6

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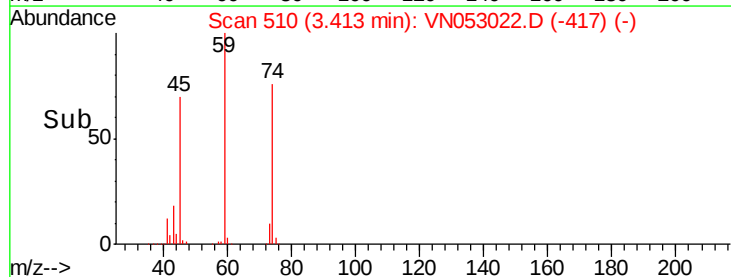
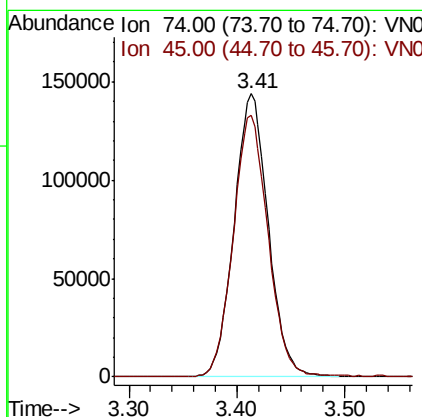
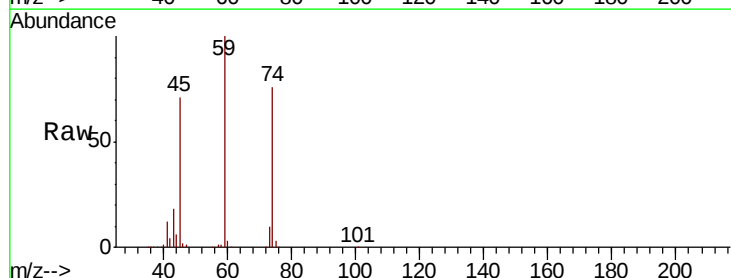
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 12/20/2018 9:35:16 AM

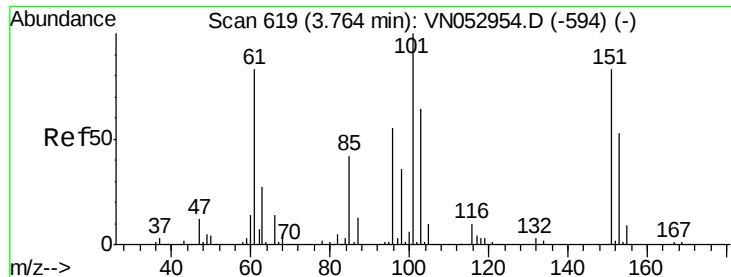


#8

Diethyl Ether
 Concen: 50.419 ug/l
 RT: 3.41 min Scan# 510
 Delta R.T. 0.00 min
 Lab File: VN053022.D
 Acq: 19 Dec 2018 20:10

Tgt Ion	Ratio	Lower	Upper
74	100		
45	94.4	49.4	148.0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 47.799 ug/l

RT: 3.77 min Scan# 620

Delta R.T. 0.00 min

Lab File: VN053022.D

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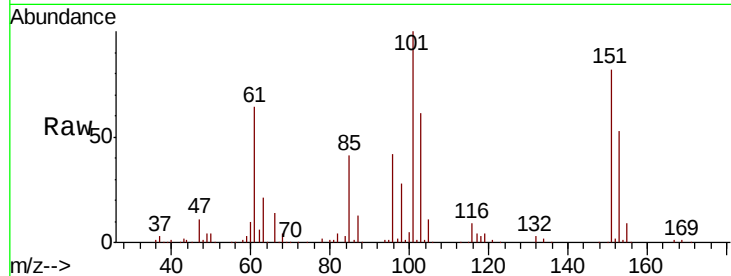
ClientSampleId :

VSTDCCC050EC

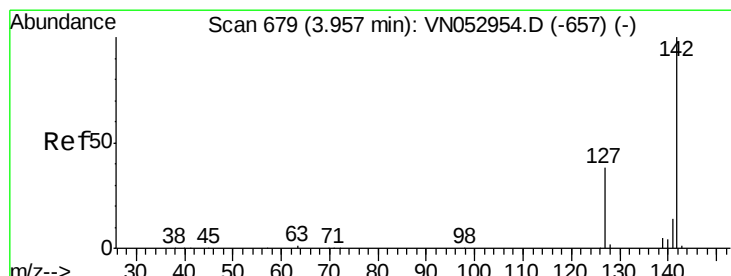
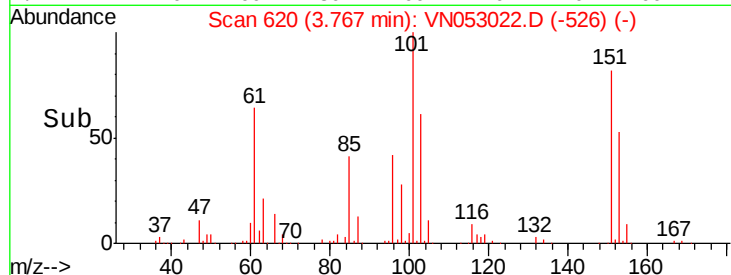
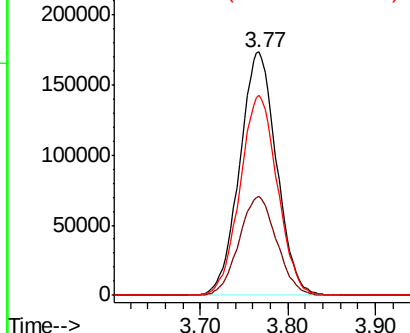
Tot Ion:	101	Resp:	507431
Ion Ratio	Lower	Upper	
101	100		
85	41.5	33.6	50.4
151	83.4	65.5	98.3

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Abundance Ion 100.90 (100.60 to 101.60): V
Ion 84.90 (84.60 to 85.60): V
Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 50.043 ug/l

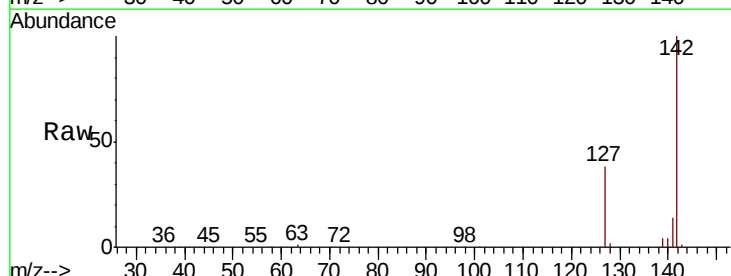
RT: 3.96 min Scan# 679

Delta R.T. 0.00 min

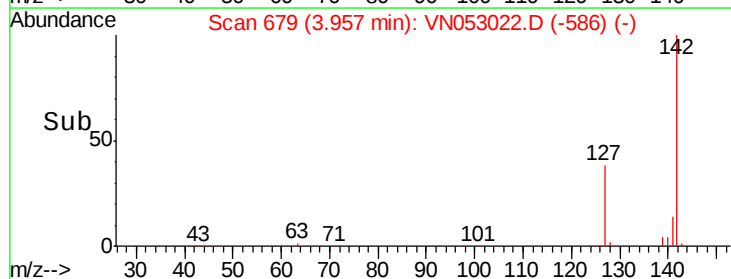
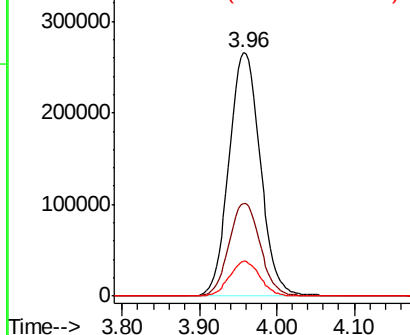
Lab File: VN053022.D

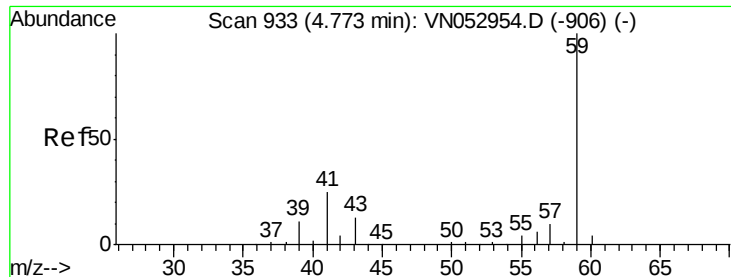
Acq: 19 Dec 2018 20:10

Tgt Ion:	142	Resp:	746044
Ion Ratio	Lower	Upper	
142	100		
127	38.2	31.0	46.6
141	14.0	11.2	16.8



Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V





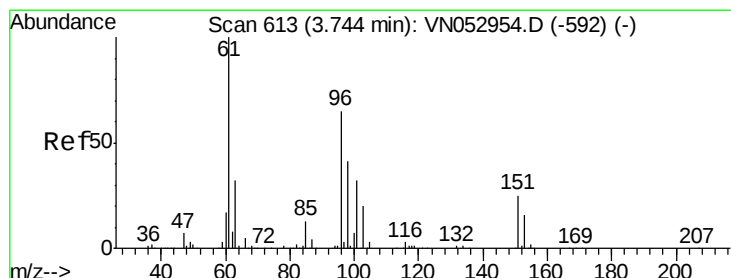
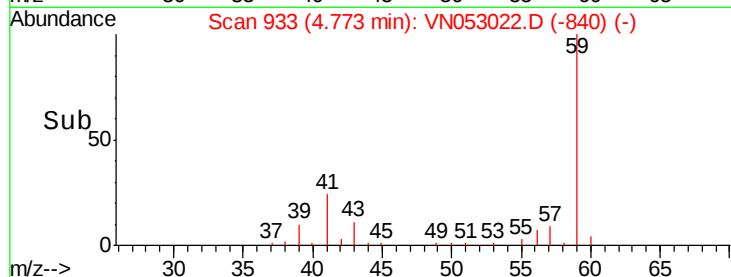
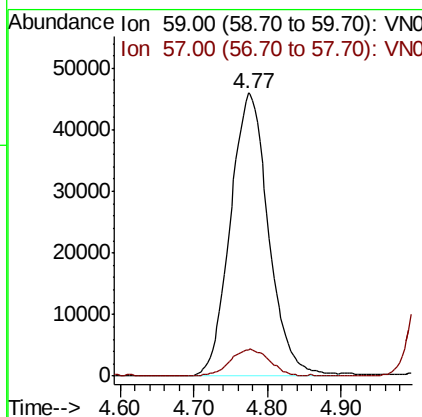
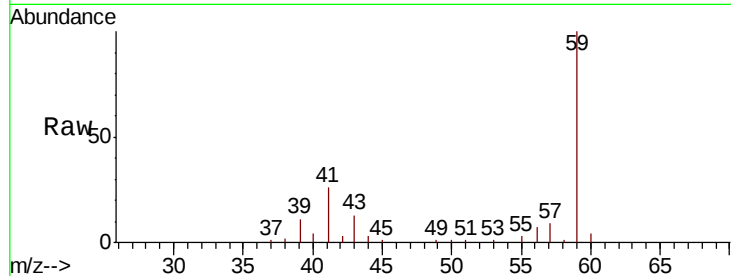
#11
Tert butyl alcohol
Concen: 248.837 ug/l
RT: 4.77 min Scan# 933
Delta R.T. 0.00 min
Lab File: VN053022.D
Acq: 19 Dec 2018 20:10

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
59	100		
57	9.9	7.7	11.5

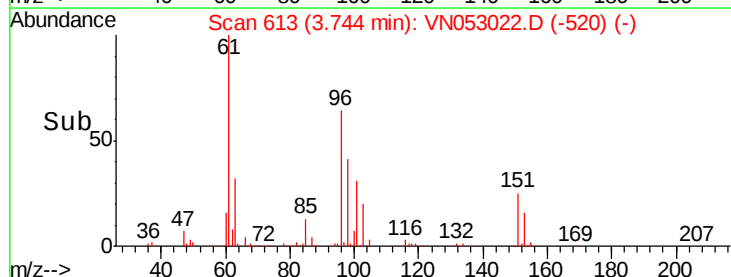
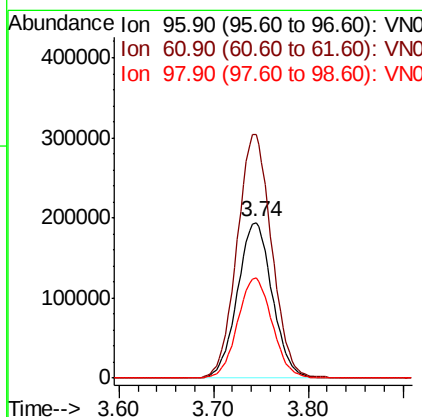
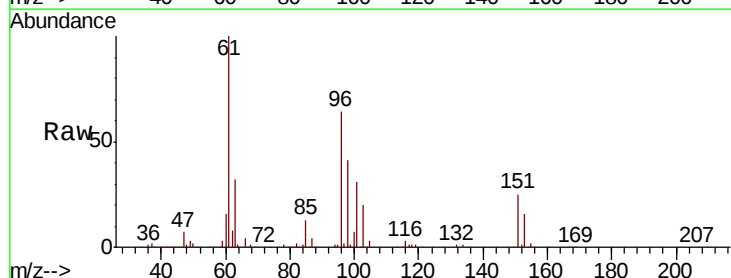
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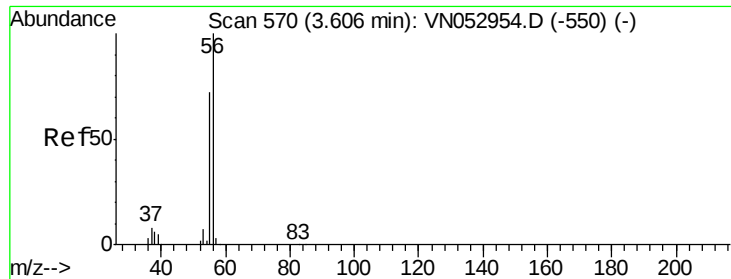
MMDadoda
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#12
1,1-Dichloroethene
Concen: 48.531 ug/l
RT: 3.74 min Scan# 613
Delta R.T. 0.00 min
Lab File: VN053022.D
Acq: 19 Dec 2018 20:10

Tgt Ion	Ratio	Lower	Upper
96	100		
61	156.3	125.6	188.4
98	64.2	50.6	75.8





#13

Acrolein

Concen: 320.650 ug/l

RT: 3.61 min Scan# 570

Delta R.T. 0.00 min

Lab File: VN053022.D

Acq: 19 Dec 2018 20:10

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 56 Resp: 193721

Ion Ratio Lower Upper

56 100

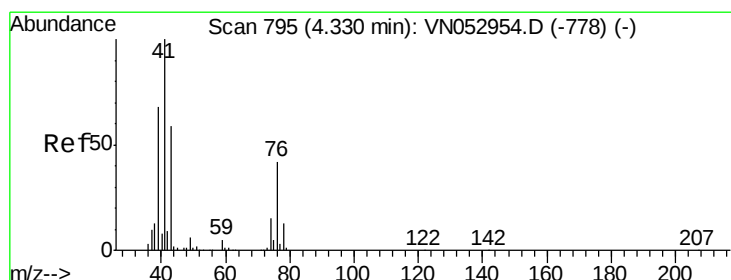
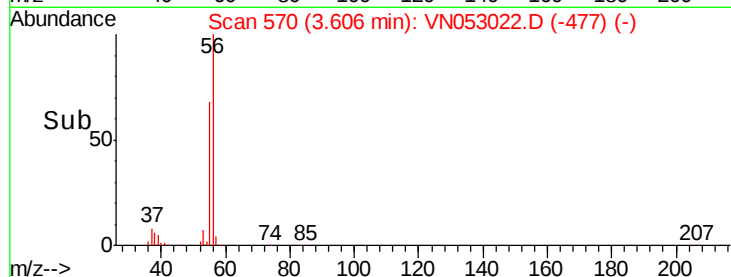
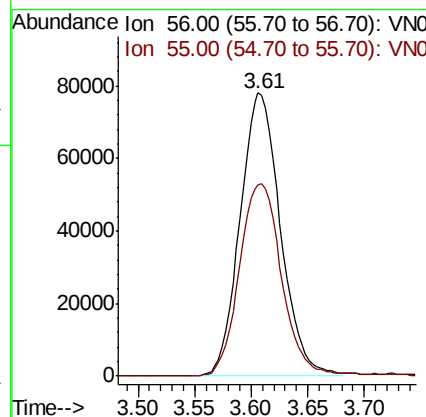
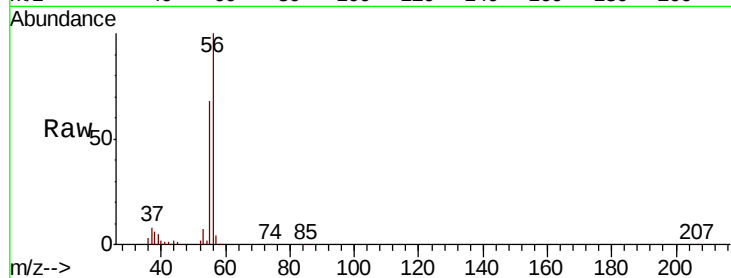
55 71.0 56.6 85.0

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#14

Allyl chloride

Concen: 52.311 ug/l

RT: 4.33 min Scan# 794

Delta R.T. -0.00 min

Lab File: VN053022.D

Acq: 19 Dec 2018 20:10

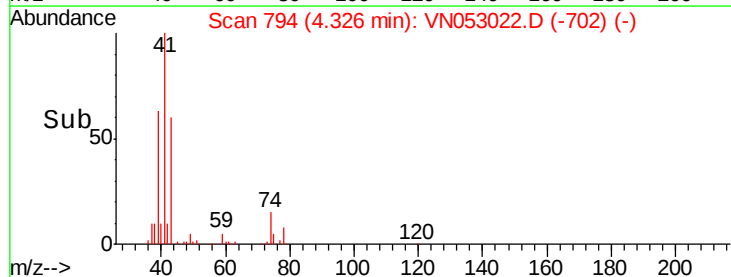
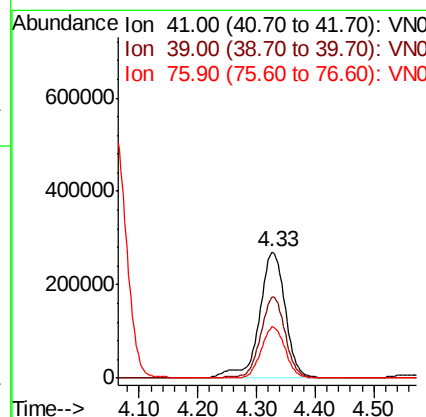
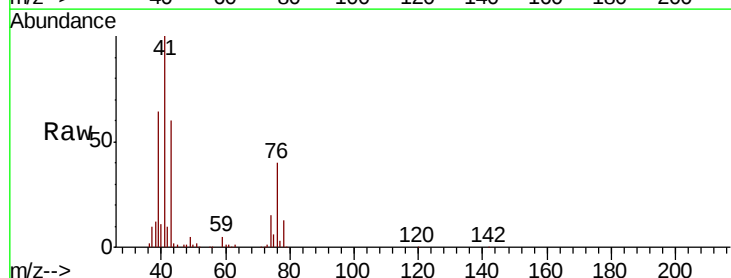
Tgt Ion: 41 Resp: 831034

Ion Ratio Lower Upper

41 100

39 60.9 54.1 81.1

76 36.9 30.3 45.5





#15

Acrylonitrile

Concen: 248.448 ug/l

RT: 4.98 min Scan# 998

Delta R.T. 0.00 min

Lab File: VN053022.D

Acq: 19 Dec 2018 20:10

Instrument :

MSVOA_N

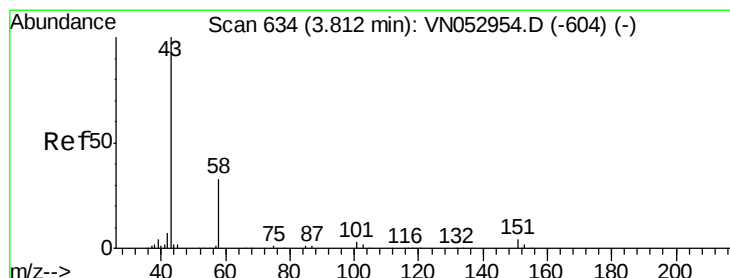
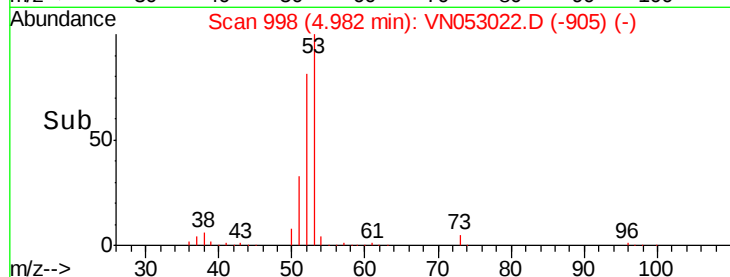
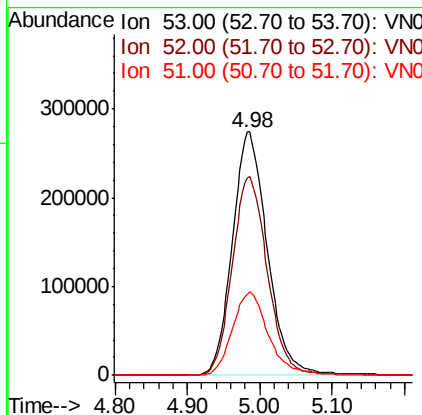
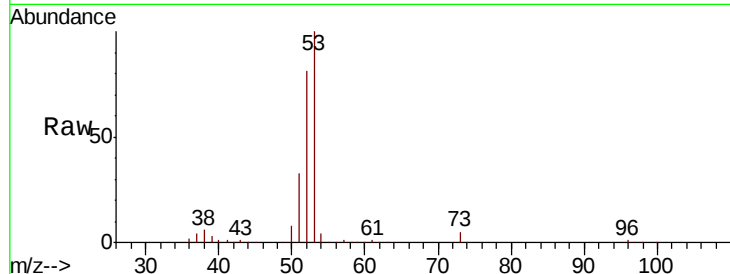
ClientSampleId :

VSTDCCC050EC

Tot Ion:	53	Resp:	919644
Ion	Ratio	Lower	Upper
53	100		
52	82.2	65.1	97.7
51	35.2	28.1	42.1

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#16

Acetone

Concen: 258.018 ug/l

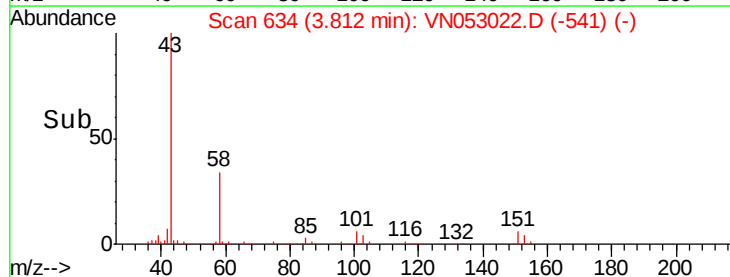
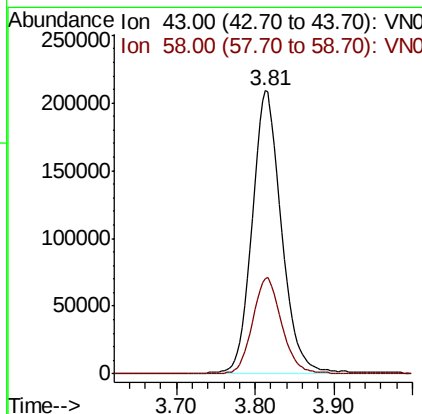
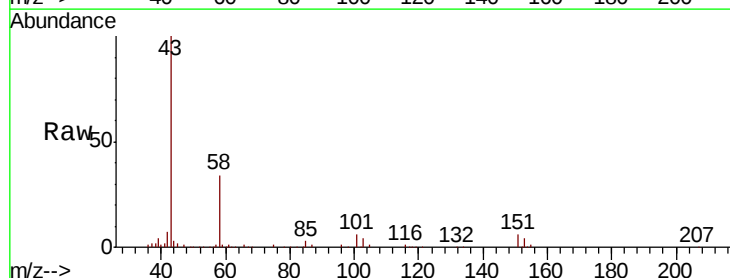
RT: 3.81 min Scan# 634

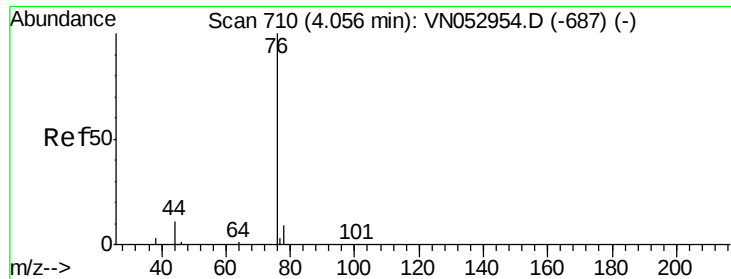
Delta R.T. 0.00 min

Lab File: VN053022.D

Acq: 19 Dec 2018 20:10

Tgt Ion:	43	Resp:	552428
Ion	Ratio	Lower	Upper
43	100		
58	33.7	25.4	38.0





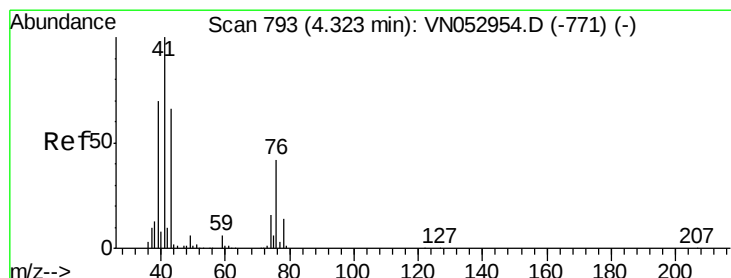
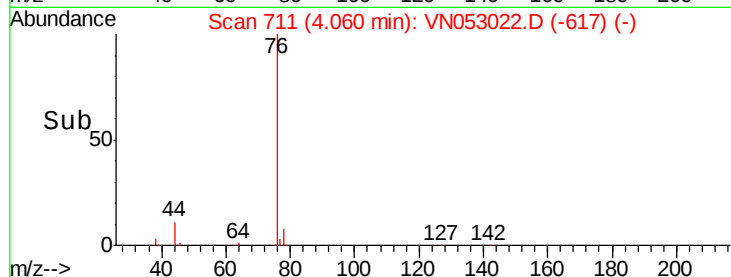
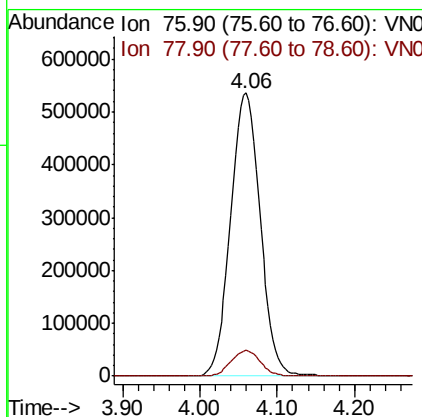
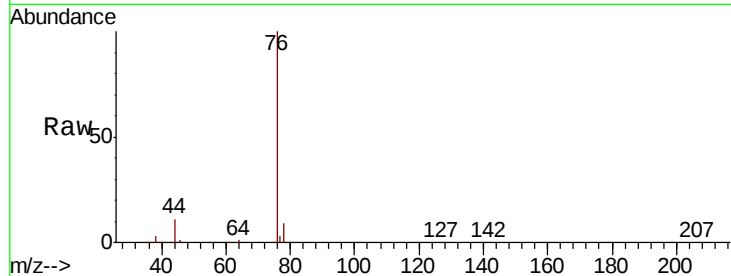
#17
Carbon Disulfide
Concen: 42.505 ug/l
RT: 4.06 min Scan# 711
Delta R.T. 0.00 min
Lab File: VN053022.D
Acq: 19 Dec 2018 20:10

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion: 76 Resp: 1421687
Ion Ratio Lower Upper
76 100
78 9.1 7.1 10.7

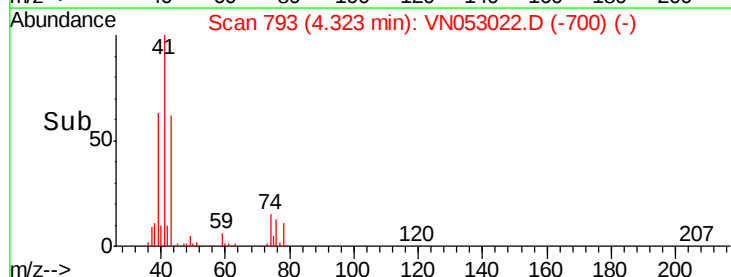
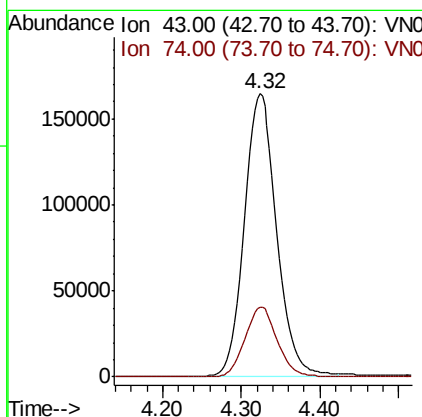
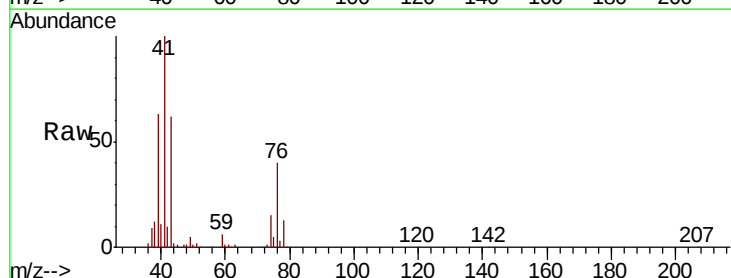
Manual Integrations
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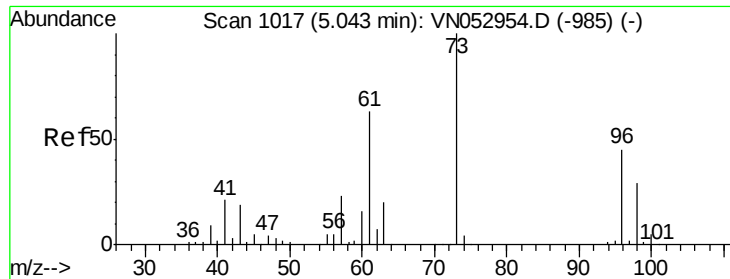
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#18
Methyl Acetate
Concen: 48.940 ug/l
RT: 4.32 min Scan# 793
Delta R.T. 0.00 min
Lab File: VN053022.D
Acq: 19 Dec 2018 20:10

Tgt Ion: 43 Resp: 475376
Ion Ratio Lower Upper
43 100
74 24.8 19.2 28.8





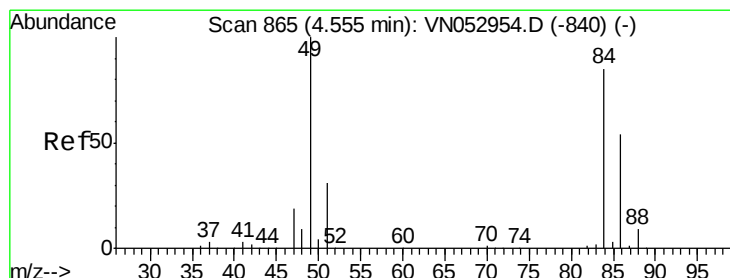
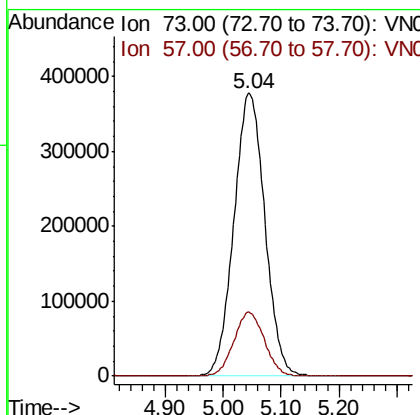
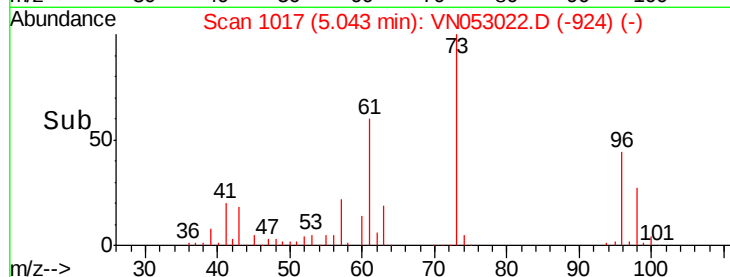
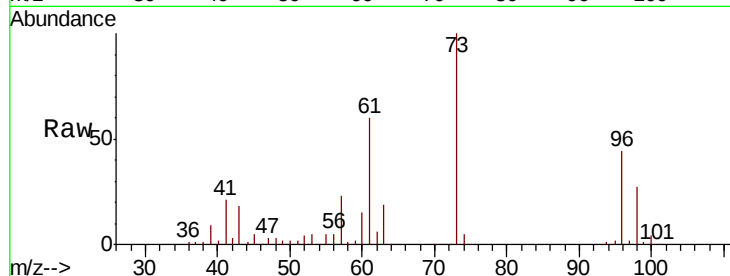
#19
Methvl tert-butvl Ether
Concen: 51.191 ug/l
RT: 5.04 min Scan# 1017
Delta R.T. 0.00 min
Lab File: VN053022.D
Acq: 19 Dec 2018 20:10

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion: 73 Resp: 1405016
Ion Ratio Lower Upper
73 100
57 22.6 18.4 27.6

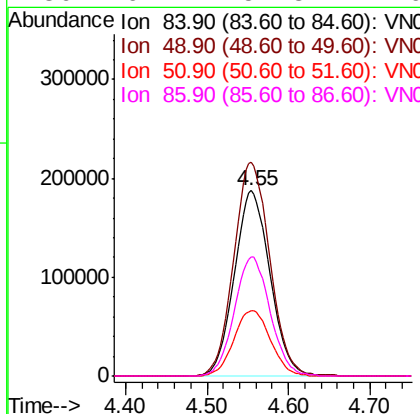
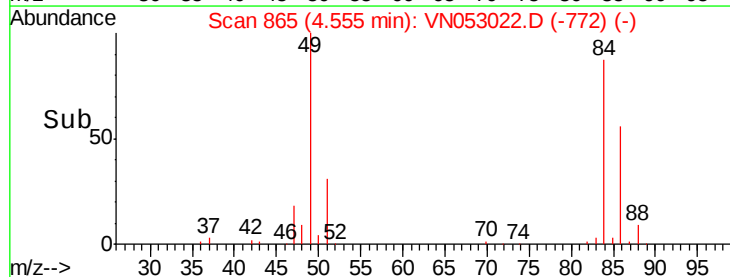
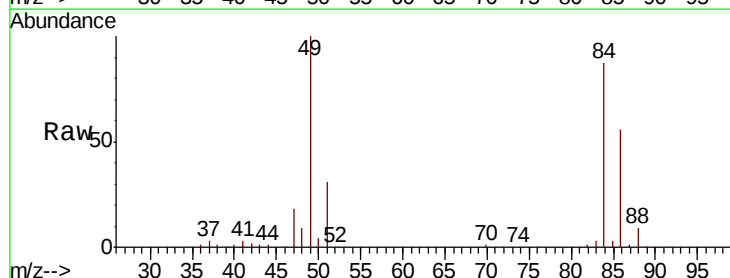
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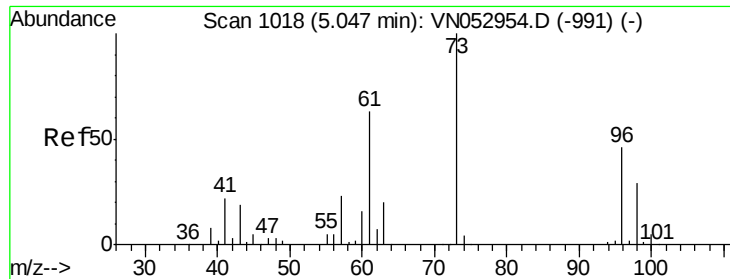
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#20
Methylene Chloride
Concen: 48.730 ug/l
RT: 4.55 min Scan# 865
Delta R.T. 0.00 min
Lab File: VN053022.D
Acq: 19 Dec 2018 20:10

Tgt Ion: 84 Resp: 569123
Ion Ratio Lower Upper
84 100
49 115.3 96.8 145.2
51 35.2 29.9 44.9
86 64.4 51.8 77.6





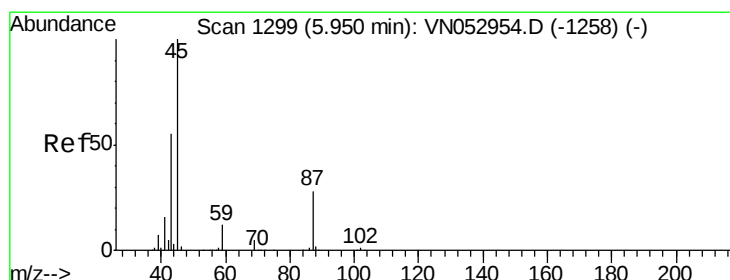
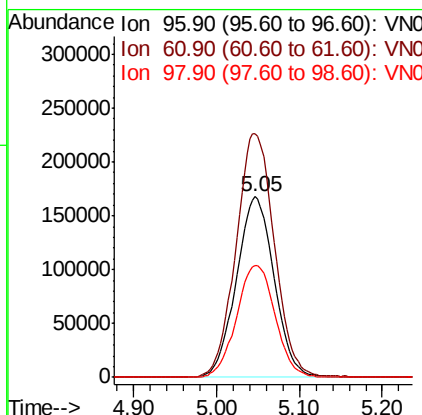
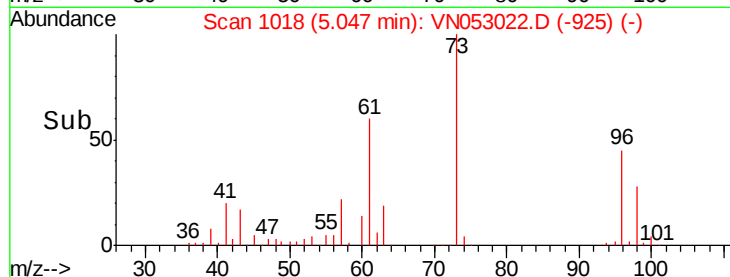
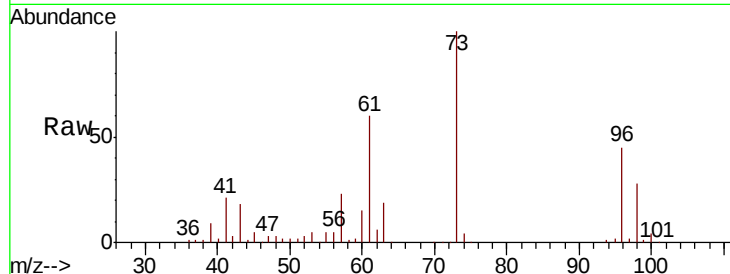
#21
trans-1,2-Dichloroethene
Concen: 48.337 ug/l
RT: 5.05 min Scan# 1018
Delta R.T. 0.00 min
Lab File: VN053022.D
Acq: 19 Dec 2018 20:10

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
96	100		
61	134.8	110.8	166.2
98	62.2	51.4	77.2

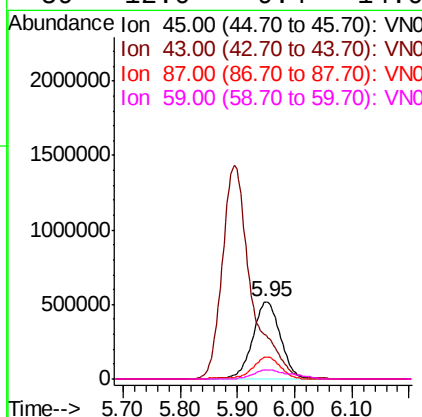
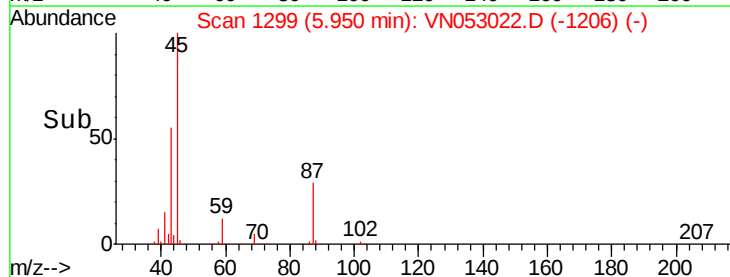
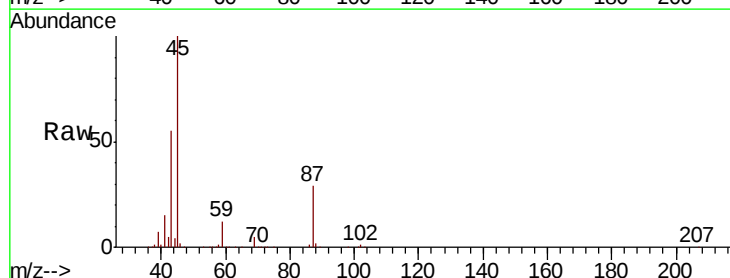
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#22
Diisopropyl ether
Concen: 51.316 ug/l
RT: 5.95 min Scan# 1299
Delta R.T. 0.00 min
Lab File: VN053022.D
Acq: 19 Dec 2018 20:10

Tgt Ion	Ratio	Lower	Upper
45	100		
43	55.4	45.5	68.3
87	28.5	22.0	33.0
59	12.0	9.4	14.0





#23

Vinyl Acetate

Concen: 257.959 ug/l

RT: 5.90 min Scan# 1282

Delta R.T. 0.00 min

Lab File: VN053022.D

Acq: 19 Dec 2018 20:10

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 43 Resp: 5030003

Ion Ratio Lower Upper

43 100

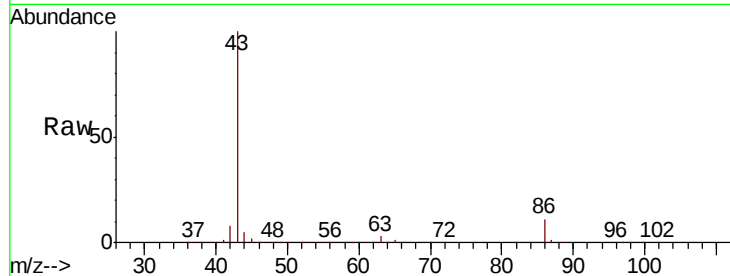
86 10.8 8.1 12.1

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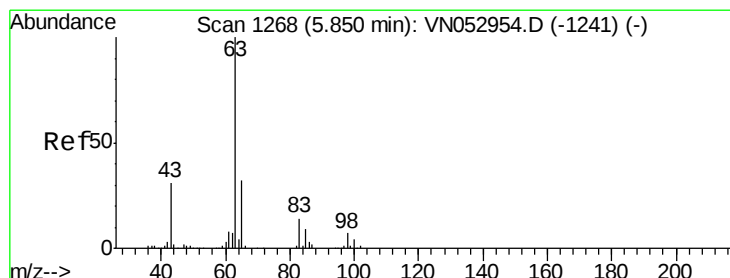
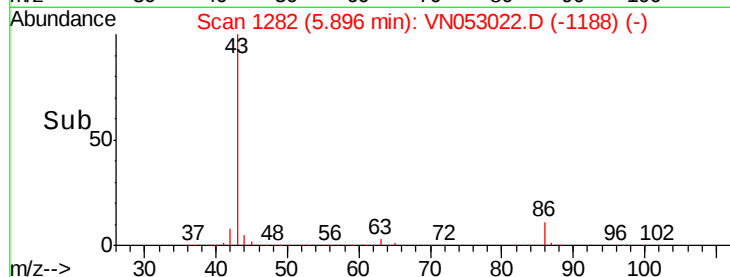
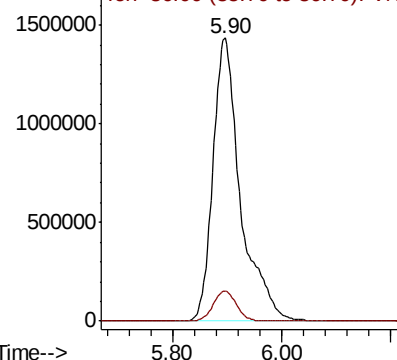
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Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 86.00 (85.70 to 86.70): VNO



#24

1,1-Dichloroethane

Concen: 49.613 ug/l

RT: 5.85 min Scan# 1268

Delta R.T. 0.00 min

Lab File: VN053022.D

Acq: 19 Dec 2018 20:10

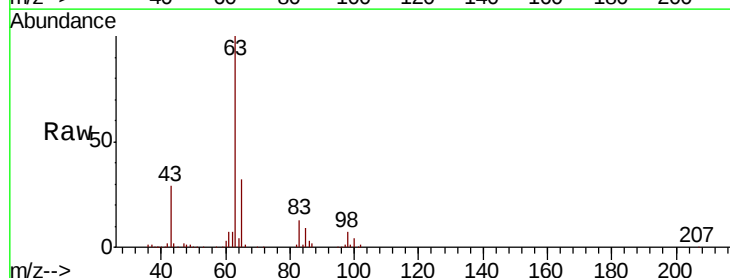
Tgt Ion: 63 Resp: 999722

Ion Ratio Lower Upper

63 100

98 6.6 3.1 9.4

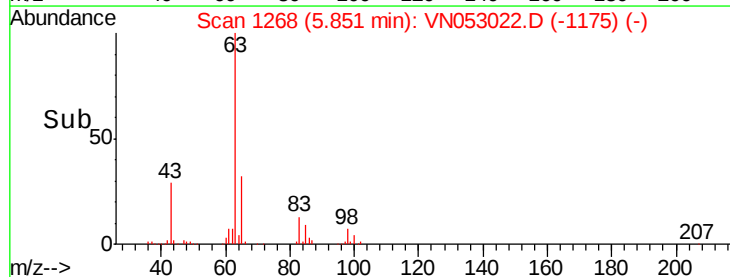
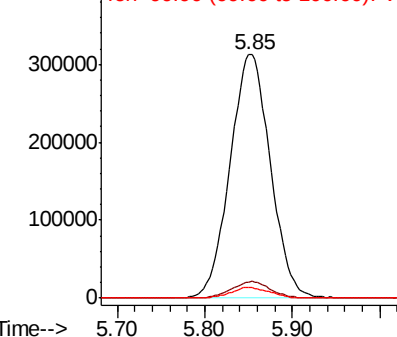
100 4.3 2.0 5.8

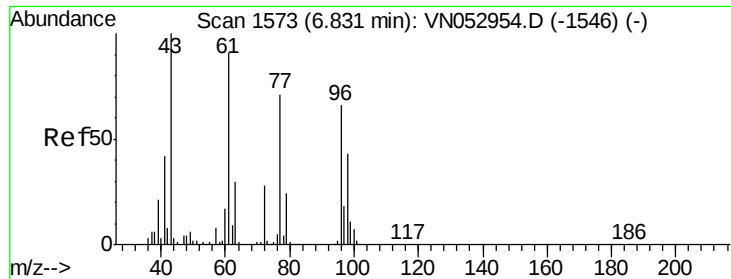


Abundance Ion 62.90 (62.60 to 63.60): VNO

Ion 97.90 (97.60 to 98.60): VNO

Ion 99.90 (99.60 to 100.60): VNO





#25

2-Butanone

Concen: 264.617 ug/l

RT: 6.83 min Scan# 1574

Delta R.T. 0.00 min

Lab File: VN053022.D

Acq: 19 Dec 2018 20:10

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 43 Resp: 950823

Ion Ratio Lower Upper

43 100

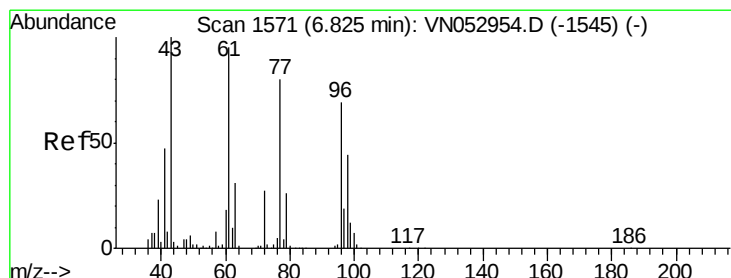
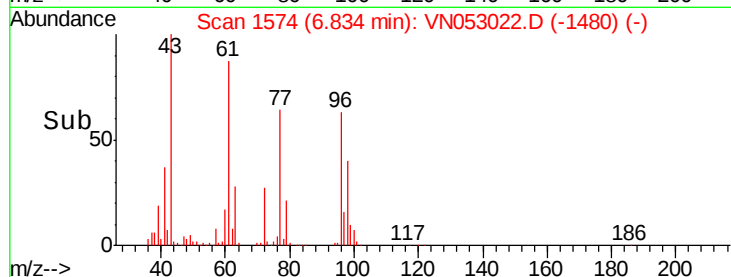
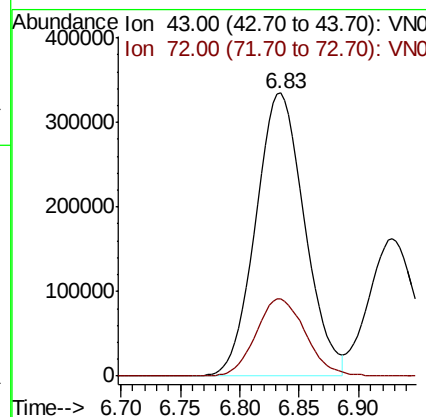
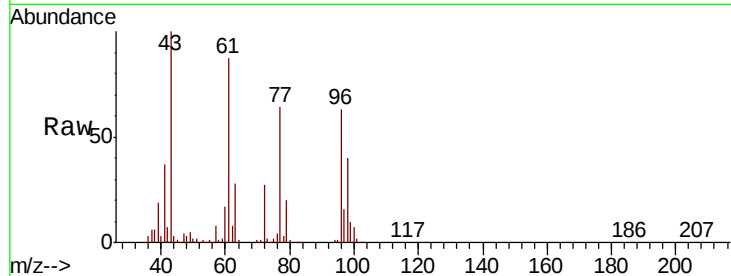
72 27.3 21.0 31.6

Manual Integrations

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12/20/2018 9:35:16 AM



#26

2,2-Dichloropropane

Concen: 46.539 ug/l

RT: 6.83 min Scan# 1572

Delta R.T. 0.00 min

Lab File: VN053022.D

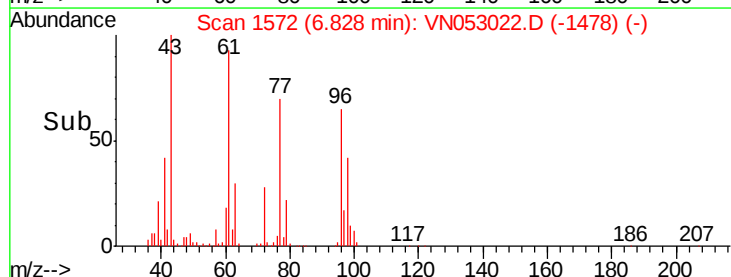
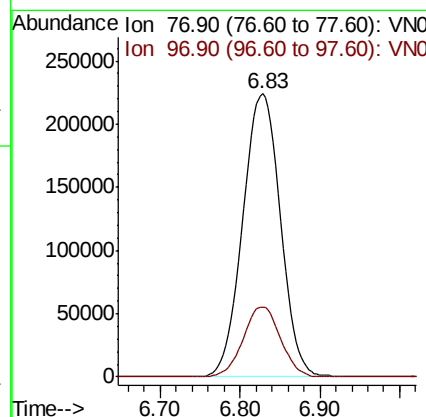
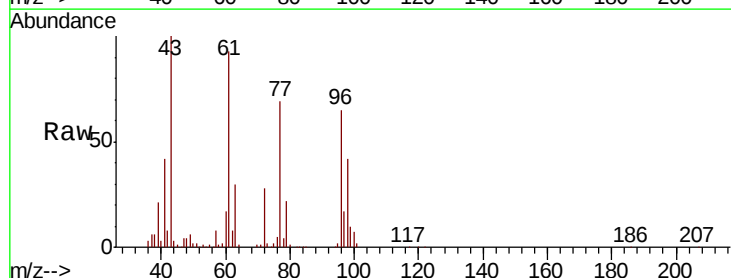
Acq: 19 Dec 2018 20:10

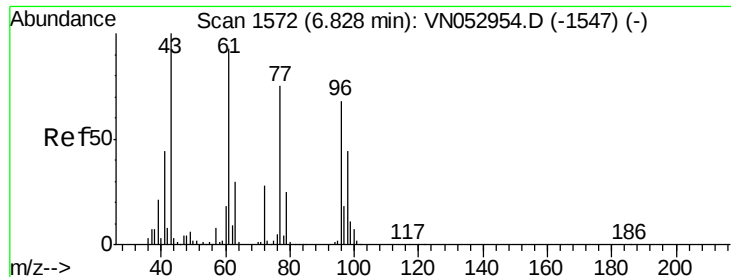
Tgt Ion: 77 Resp: 715855

Ion Ratio Lower Upper

77 100

97 24.5 11.9 35.9





#27

cis-1,2-Dichloroethene

Concen: 49.744 ug/l

RT: 6.83 min Scan# 1573

Delta R.T. 0.00 min

Lab File: VN053022.D

Acq: 19 Dec 2018 20:10

Instrument :

MSVOA_N

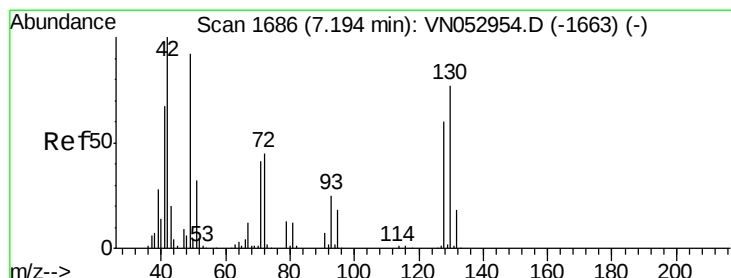
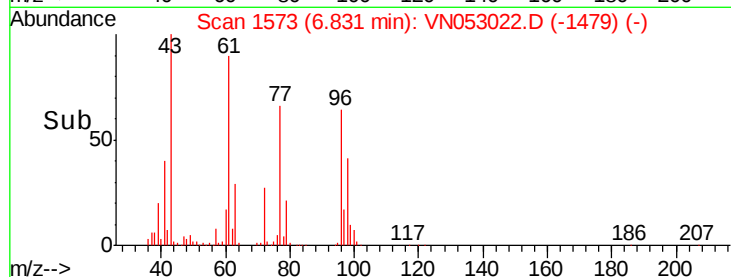
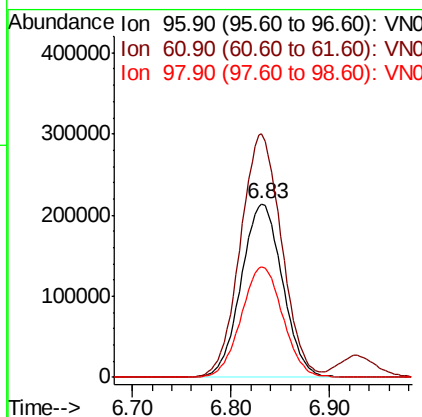
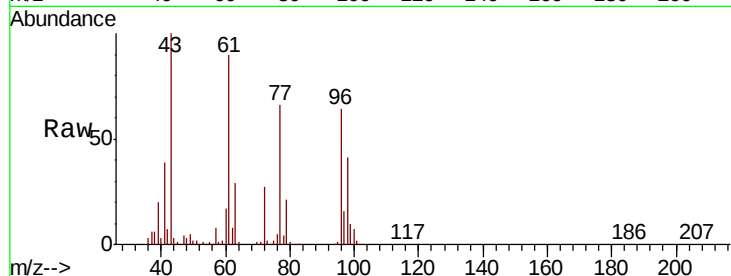
ClientSampleId :

VSTDCCC050EC

Tot Ion:	96	Resp:	620567
Ion Ratio	Lower	Upper	
96	100		
61	139.8	0.0	284.2
98	64.2	0.0	129.2

Manual Integrations
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#28

Bromochloromethane

Concen: 50.160 ug/l

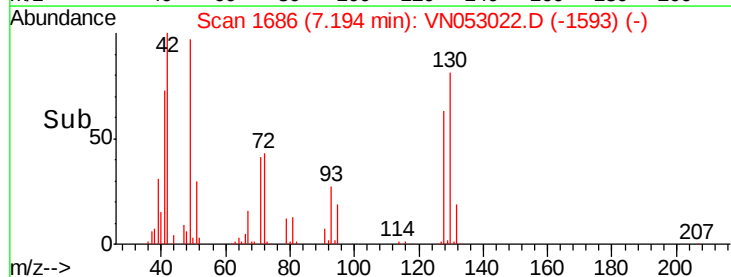
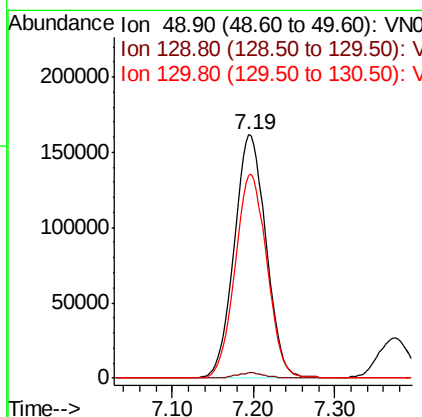
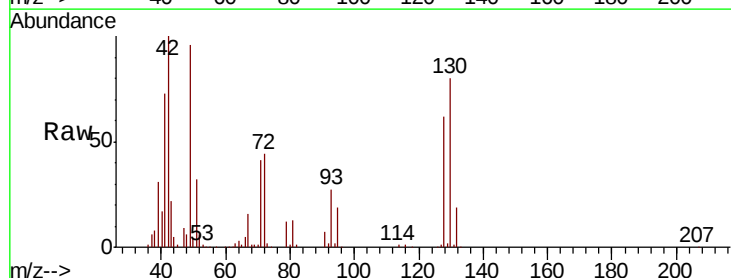
RT: 7.19 min Scan# 1686

Delta R.T. 0.00 min

Lab File: VN053022.D

Acq: 19 Dec 2018 20:10

Tgt Ion:	49	Resp:	437968
Ion Ratio	Lower	Upper	
49	100		
129	2.0	0.0	4.0
130	83.6	63.3	94.9





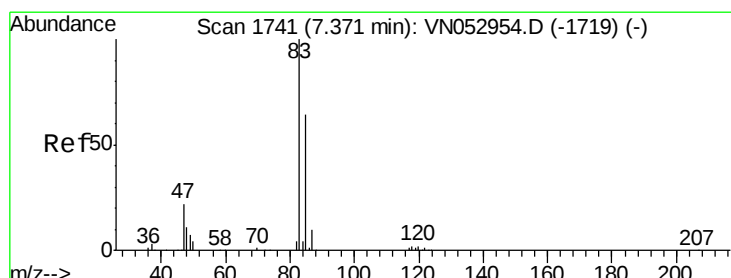
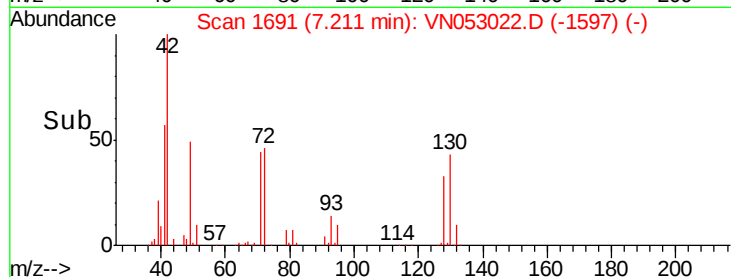
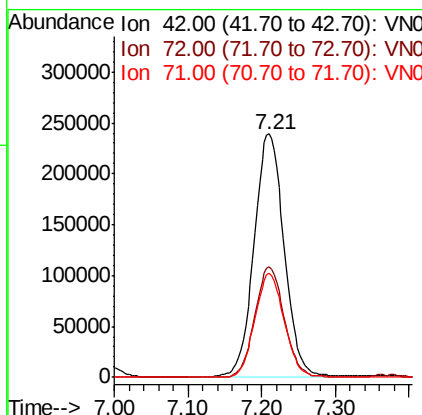
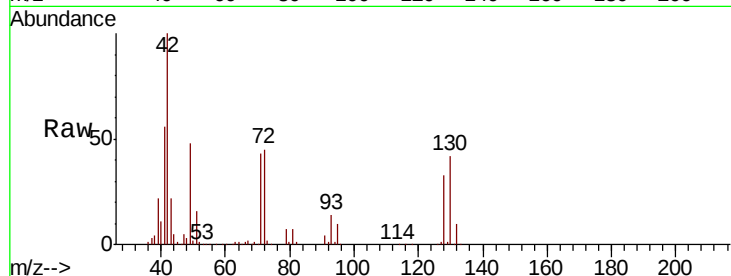
#29
Tetrahydrofuran
Concen: 252.422 ug/l
RT: 7.21 min Scan# 1691
Delta R.T. 0.00 min
Lab File: VN053022.D
Acq: 19 Dec 2018 20:10

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
42	100		
72	44.6	34.7	52.1
71	41.8	32.3	48.5

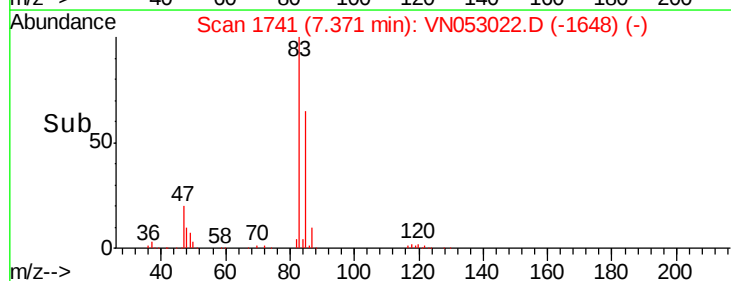
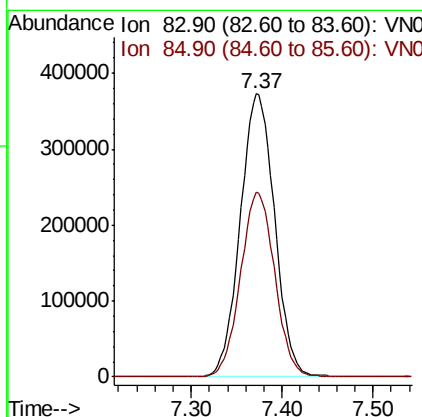
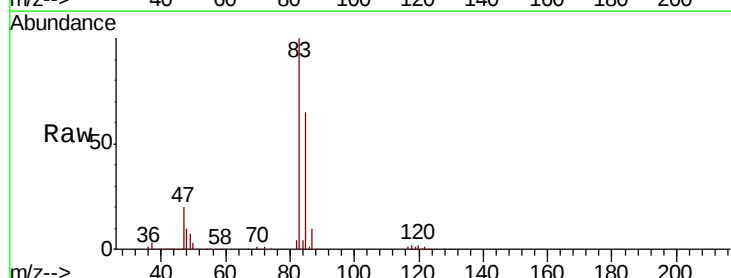
Manual Integrations
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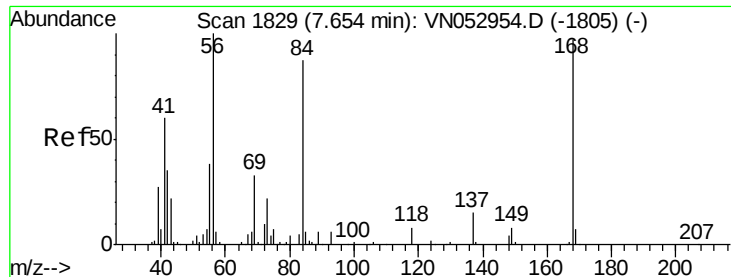
MMDadoda
12/20/2018 9:35:16 AM



#30
Chloroform
Concen: 49.439 ug/l
RT: 7.37 min Scan# 1741
Delta R.T. 0.00 min
Lab File: VN053022.D
Acq: 19 Dec 2018 20:10

Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.1	52.1	78.1





#31

Cyclohexane

Concen: 48.432 ug/l

RT: 7.65 min Scan# 1829

Delta R.T. 0.00 min

Lab File: VN053022.D

Acq: 19 Dec 2018 20:10

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 56 Resp: 915906

Ion Ratio Lower Upper

56 100

69 33.6 26.6 39.8

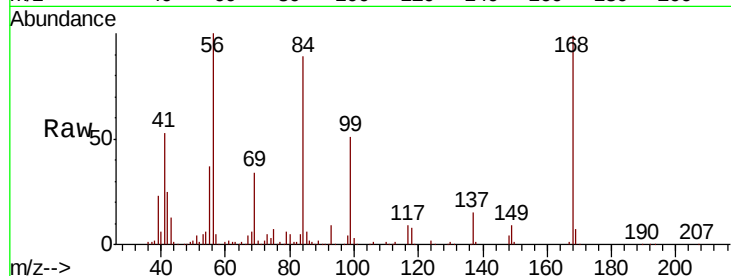
84 88.1 68.4 102.6

Manual Integrations

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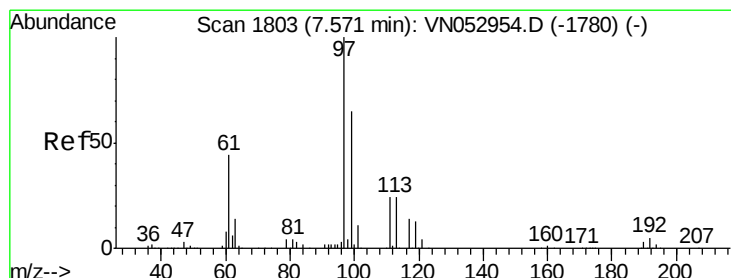
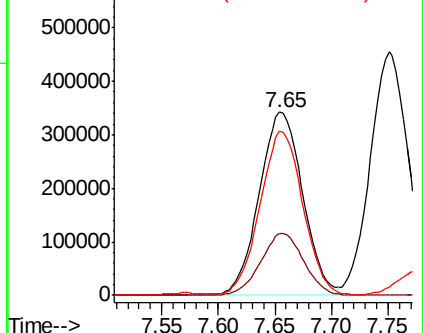
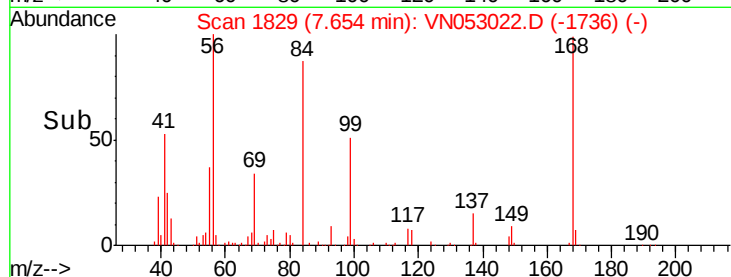
12/20/2018 9:35:16 AM



Abundance Ion 56.00 (55.70 to 56.70): VN053022.D (-1736) (-)

Ion 69.00 (68.70 to 69.70): VN053022.D (-1736) (-)

Ion 84.00 (83.70 to 84.70): VN053022.D (-1736) (-)



#32

1,1,1-Trichloroethane

Concen: 48.495 ug/l

RT: 7.57 min Scan# 1803

Delta R.T. 0.00 min

Lab File: VN053022.D

Acq: 19 Dec 2018 20:10

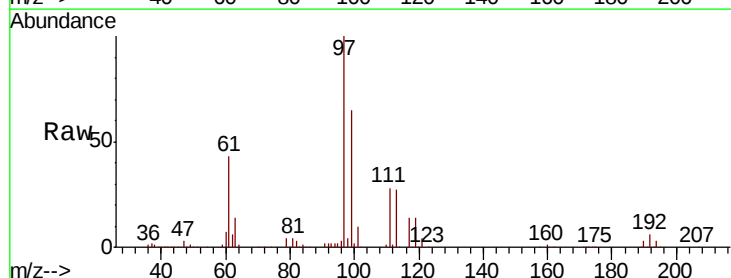
Tgt Ion: 97 Resp: 817741

Ion Ratio Lower Upper

97 100

99 64.4 51.1 76.7

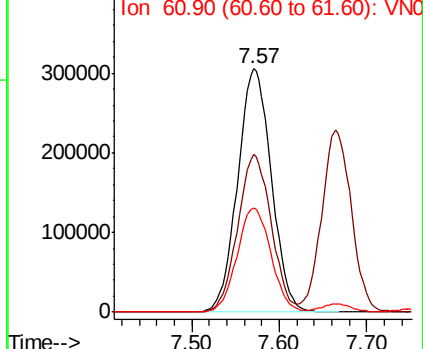
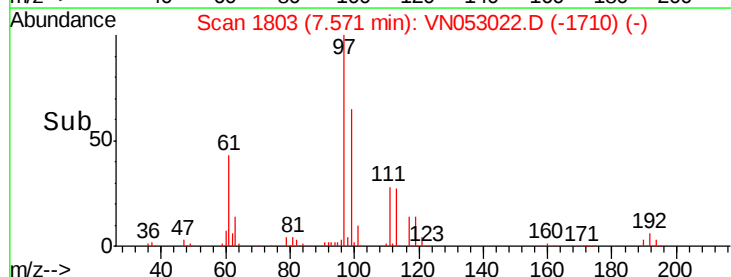
61 42.9 35.0 52.6

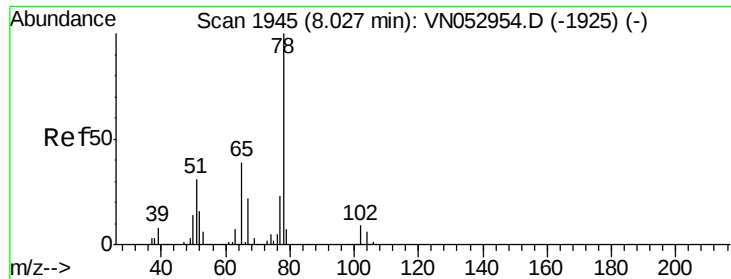


Abundance Ion 96.90 (96.60 to 97.60): VN053022.D (-1710) (-)

Ion 98.90 (98.60 to 99.60): VN053022.D (-1710) (-)

Ion 60.90 (60.60 to 61.60): VN053022.D (-1710) (-)





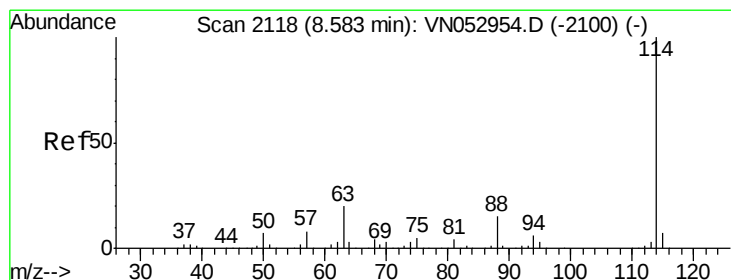
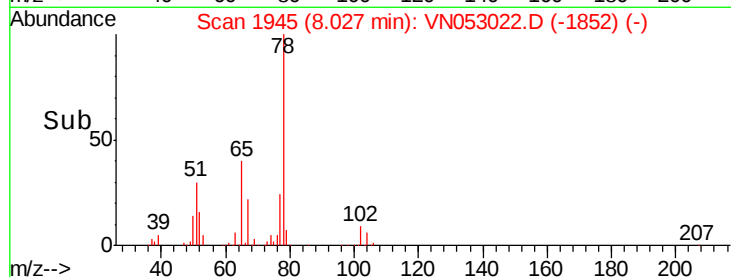
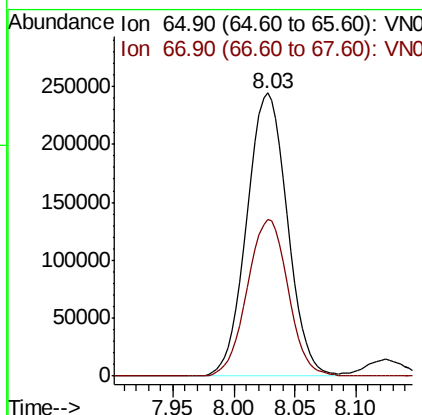
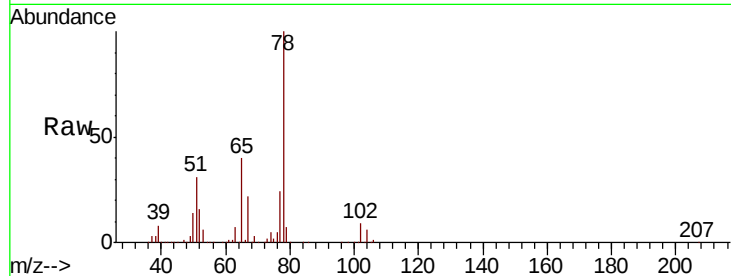
#33
 1,2-Dichloroethane-d4
 Concen: 48.495 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN053022.D
 Acq: 19 Dec 2018 20:10

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Resp	Lower	Upper
65	100			
67	55.8	0.0	110.4	

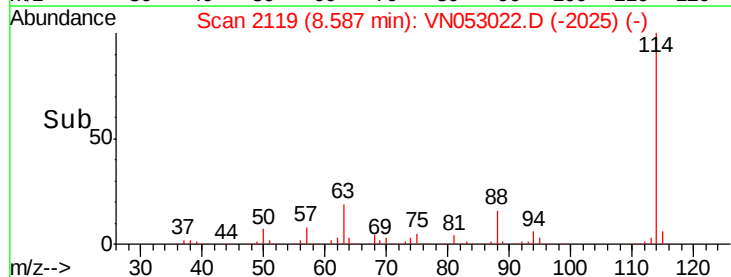
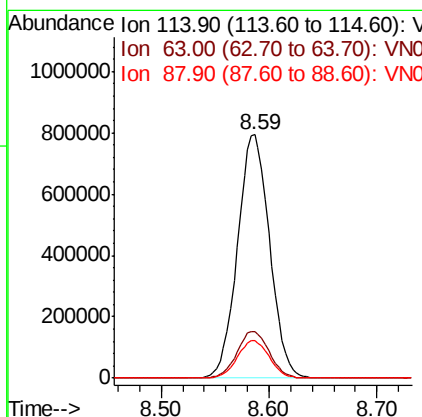
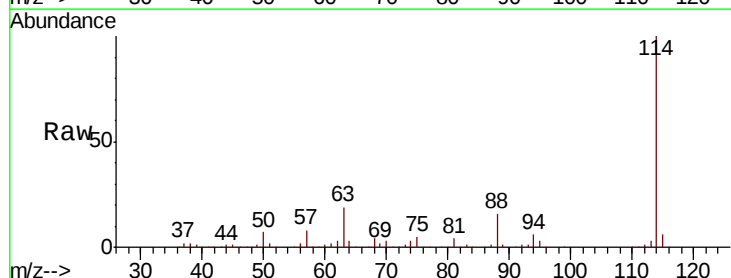
Manual Integrations
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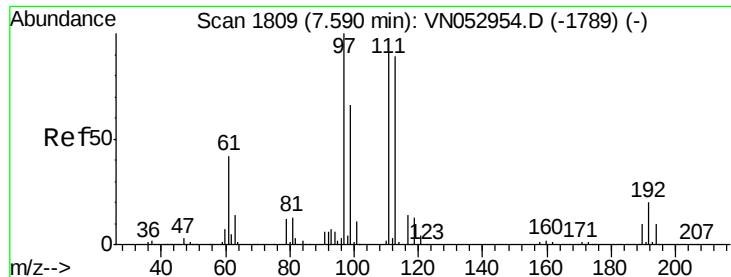
MMDadoda
 12/20/2018 9:35:16 AM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN053022.D
 Acq: 19 Dec 2018 20:10

Tgt Ion	Ratio	Resp	Lower	Upper
114	100			
63	19.3	0.0	39.8	
88	15.5	0.0	31.0	





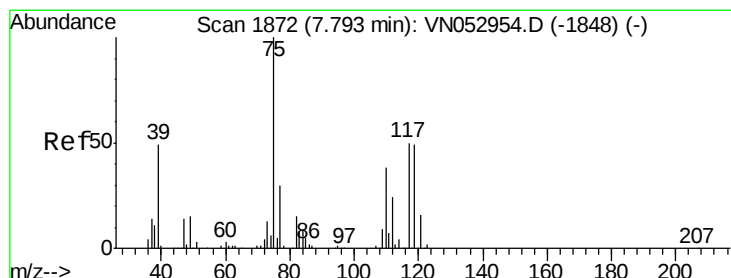
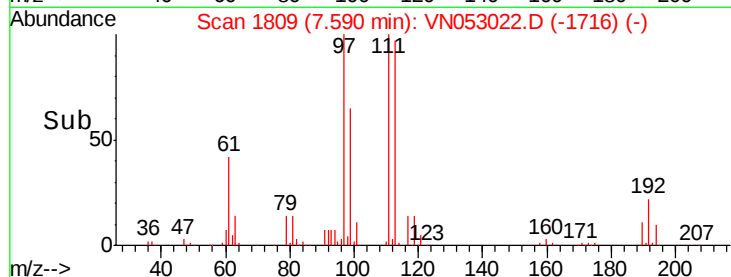
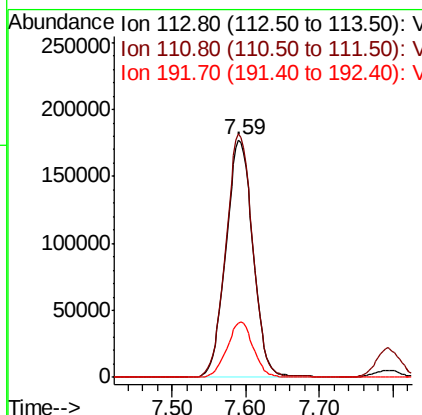
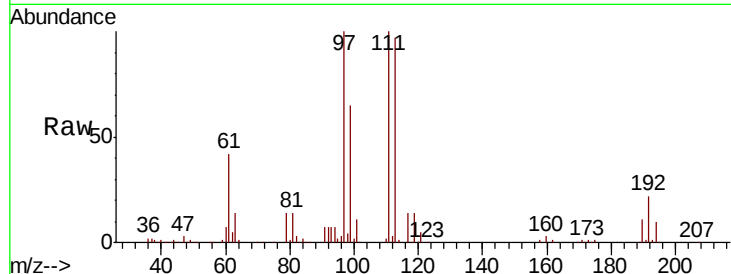
#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. 0.00 min
 Lab File: VN053022.D
 Acq: 19 Dec 2018 20:10

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Resp	Lower	Upper
113	100	451738		
111	101.3	83.0	124.4	
192	22.6	17.5	26.3	

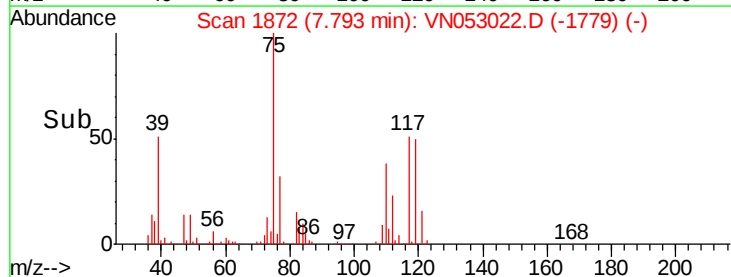
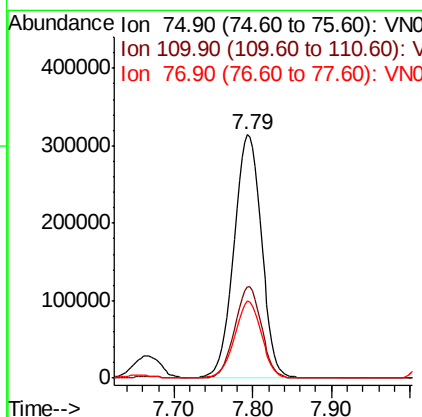
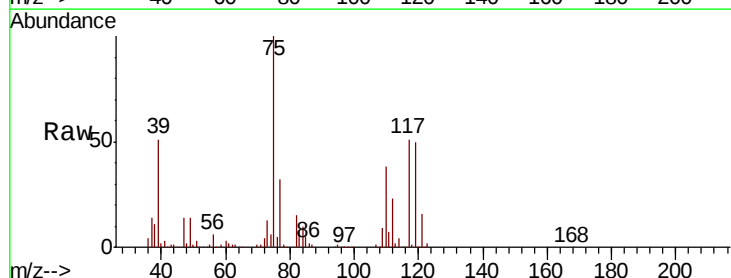
Manual Integrations
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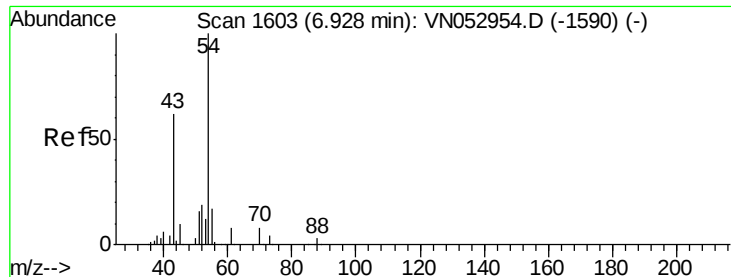
MMDadoda
 12/20/2018 9:35:16 AM



#36
 1,1-Dichloropropene
 Concen: 48.502 ug/l
 RT: 7.79 min Scan# 1872
 Delta R.T. 0.00 min
 Lab File: VN053022.D
 Acq: 19 Dec 2018 20:10

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	765696		
110	36.7	18.2	54.6	
77	31.0	24.9	37.3	





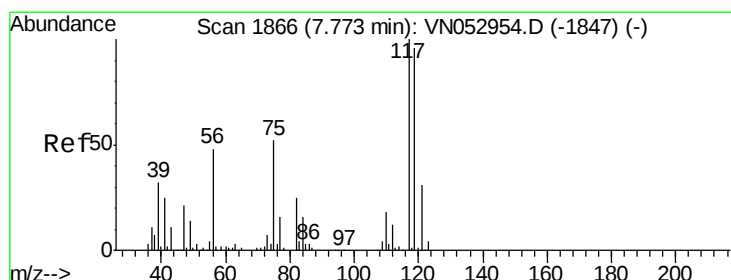
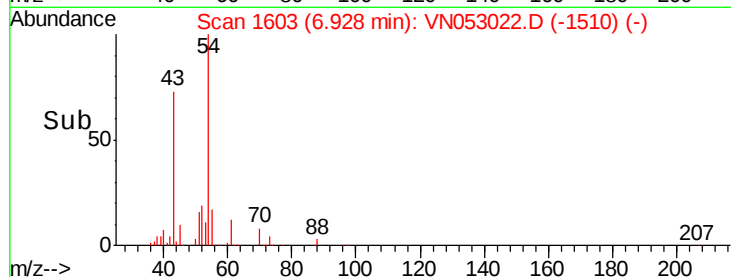
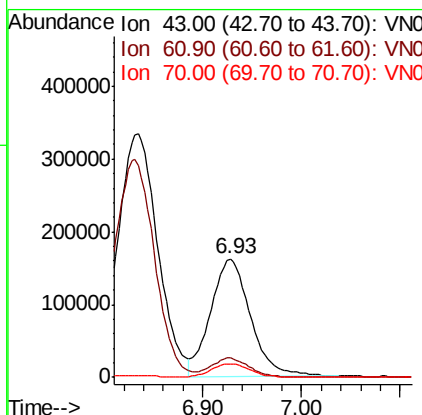
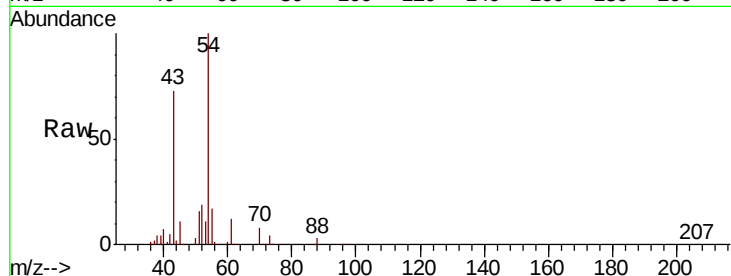
#37
Ethyl Acetate
Concen: 51.622 ug/l
RT: 6.93 min Scan# 1603
Delta R.T. 0.00 min
Lab File: VN053022.D
Acq: 19 Dec 2018 20:10

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
43	100		
61	15.3	11.8	17.6
70	11.1	8.4	12.6

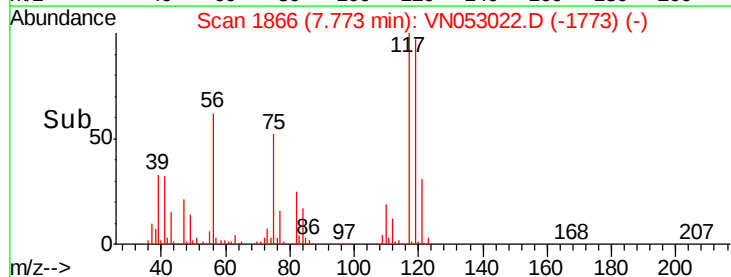
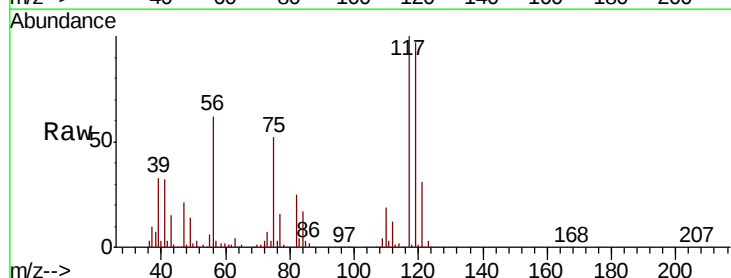
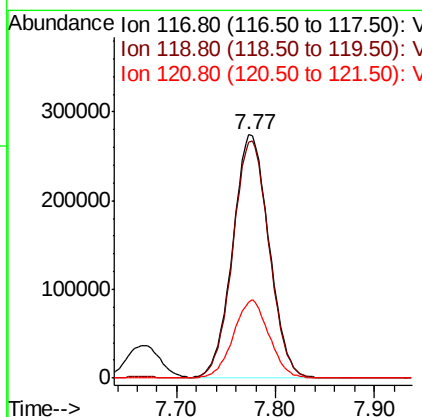
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#38
Carbon Tetrachloride
Concen: 48.394 ug/l
RT: 7.77 min Scan# 1866
Delta R.T. 0.00 min
Lab File: VN053022.D
Acq: 19 Dec 2018 20:10

Tgt Ion	Ratio	Lower	Upper
117	100		
119	97.1	77.1	115.7
121	31.4	24.9	37.3





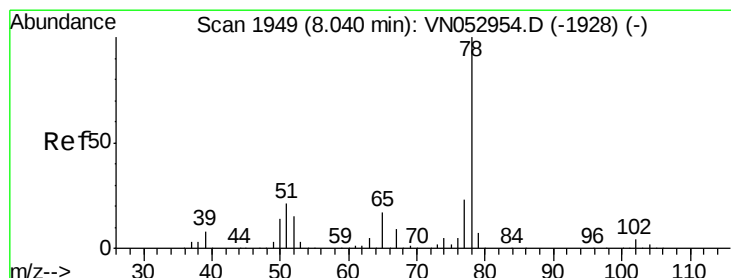
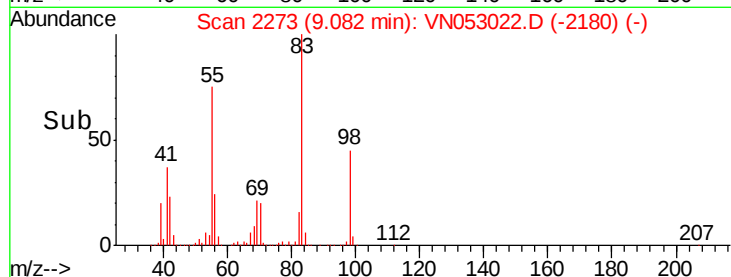
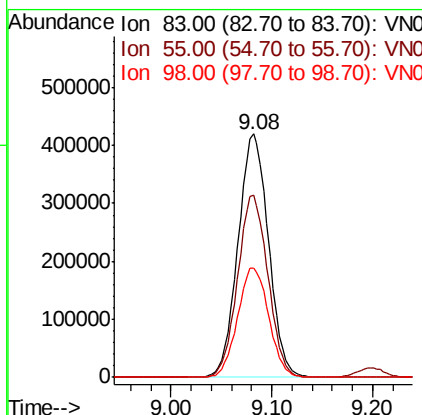
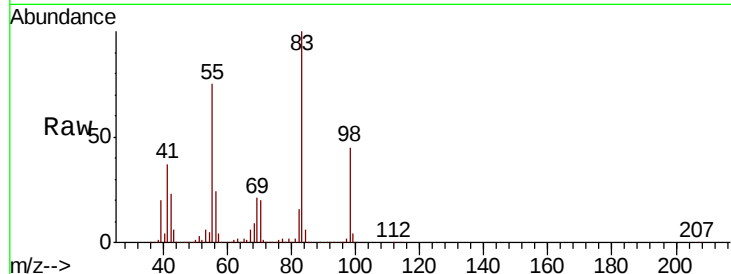
#39
Methvlcvclohexane
Concen: 45.741 ug/l
RT: 9.08 min Scan# 2273
Delta R.T. 0.00 min
Lab File: VN053022.D
Acq: 19 Dec 2018 20:10

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
83	100		
55	74.7	61.3	91.9
98	45.0	37.0	55.4

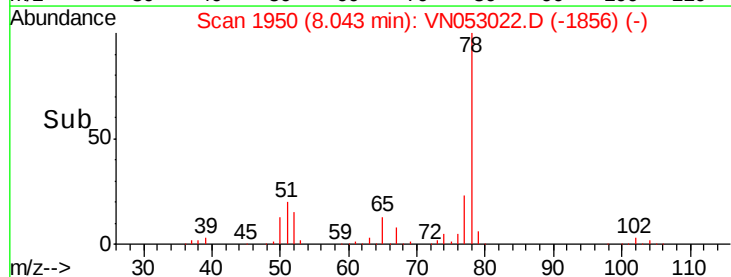
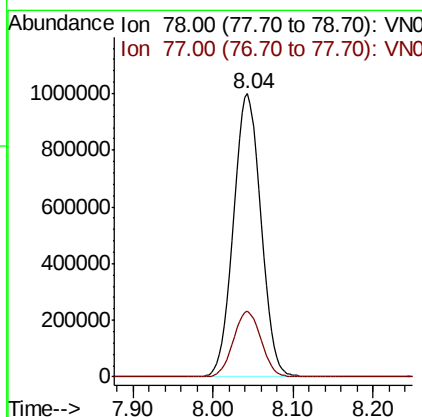
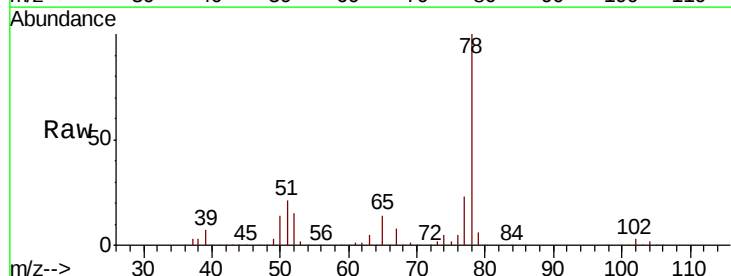
Manual Integrations
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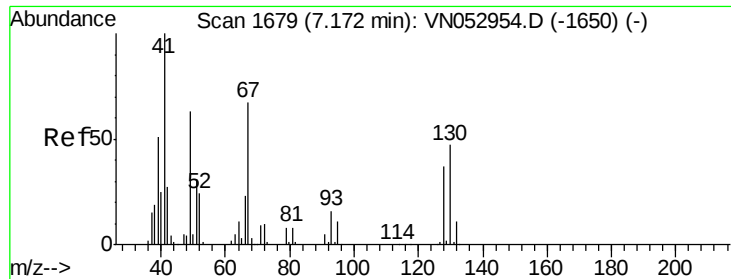
MMDadoda
12/20/2018 9:35:16 AM



#40
Benzene
Concen: 49.287 ug/l
RT: 8.04 min Scan# 1950
Delta R.T. 0.00 min
Lab File: VN053022.D
Acq: 19 Dec 2018 20:10

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.2	18.5	27.7





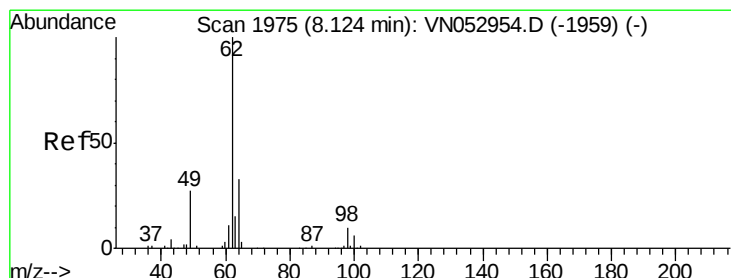
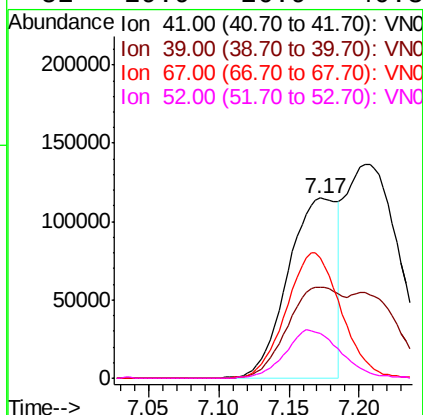
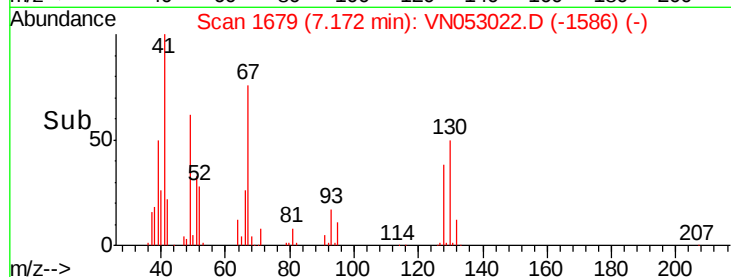
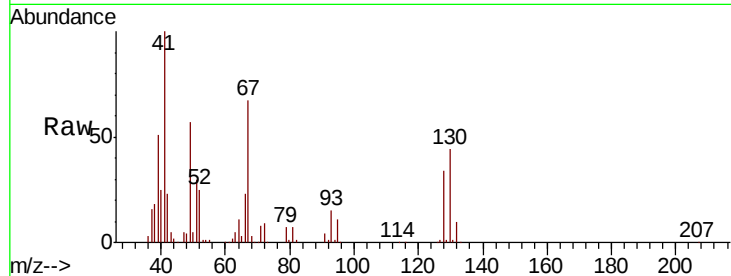
#41
Methacrylonitrile
Concen: 54.435 ug/l
RT: 7.17 min Scan# 1679
Delta R.T. 0.00 min
Lab File: VN053022.D
Acq: 19 Dec 2018 20:10

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ion	Ratio	Lower	Upper
41	100			
39	58.0	48.0	72.0	
67	78.6	70.3	105.5	
52	29.9	26.9	40.3	

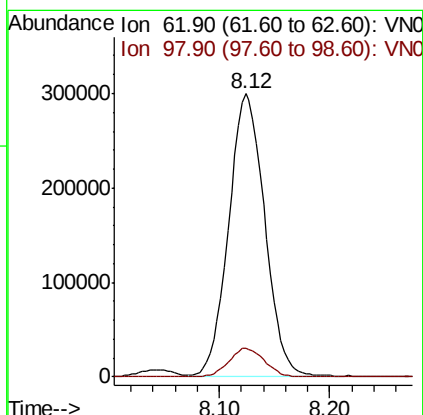
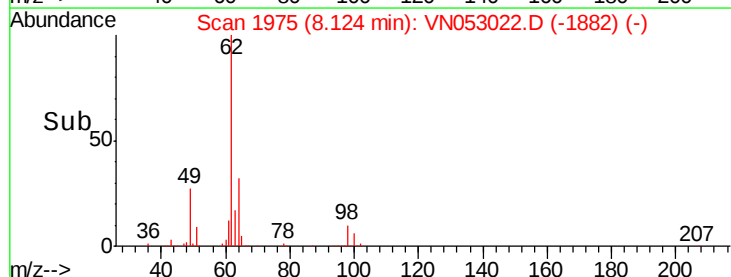
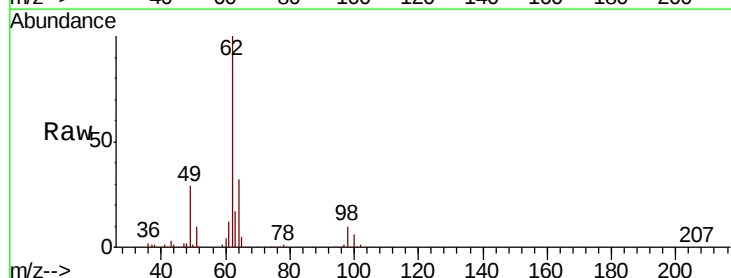
Manual Integrations
APPROVED

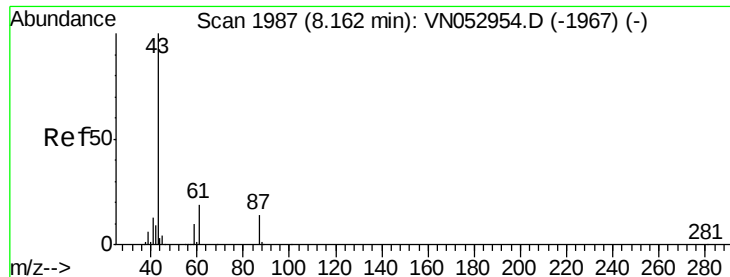
MMDadoda
12/20/2018 9:35:16 AM



#42
1,2-Dichloroethane
Concen: 48.656 ug/l
RT: 8.12 min Scan# 1975
Delta R.T. 0.00 min
Lab File: VN053022.D
Acq: 19 Dec 2018 20:10

Tgt Ion	Ion	Ratio	Lower	Upper
62	100			
98	10.1	0.0	19.0	





#43

Isopropyl Acetate

Concen: 50.501 ug/l

RT: 8.16 min Scan# 1987

Delta R.T. 0.00 min

Lab File: VN053022.D

Acq: 19 Dec 2018 20:10

Instrument :

MSVOA_N

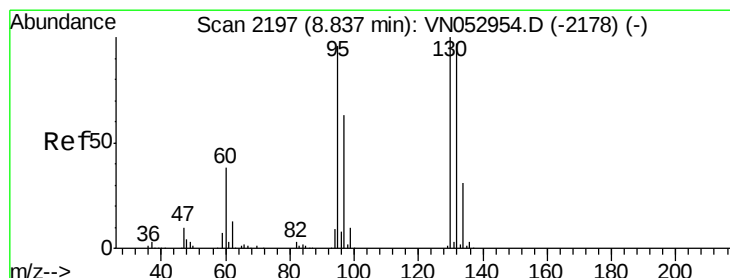
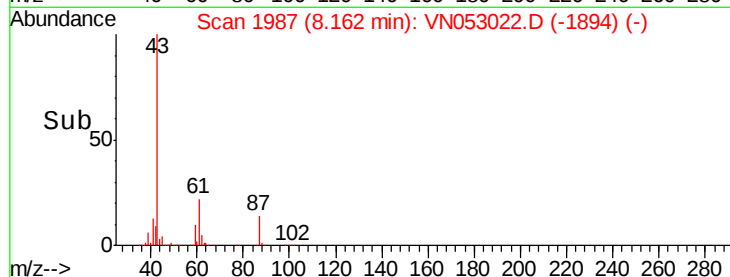
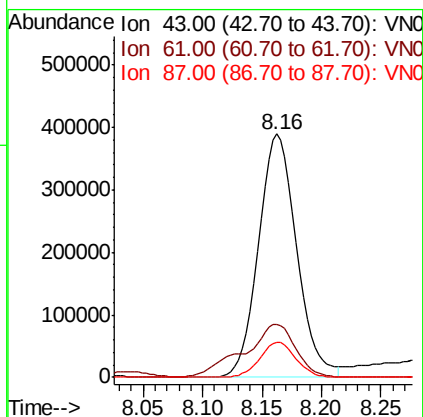
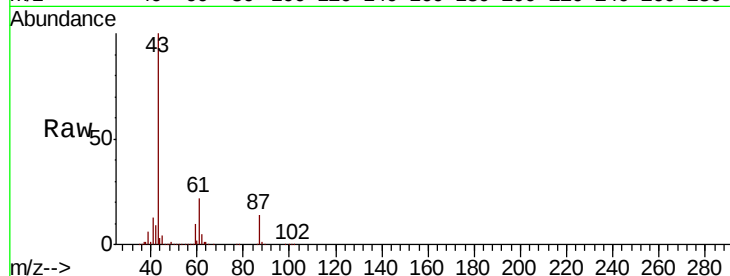
ClientSampleId :

VSTDCCC050EC

Tot Ion:	43	Resp:	861098
Ion	Ratio	Lower	Upper
43	100		
61	29.3	22.9	34.3
87	13.8	10.6	15.8

Manual Integrations
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#44

Trichloroethene

Concen: 48.013 ug/l

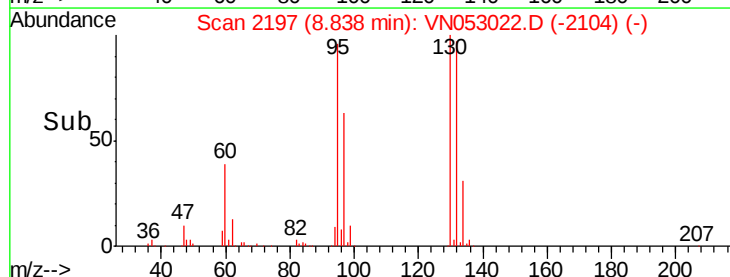
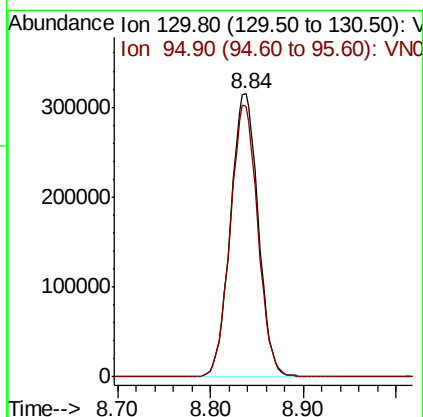
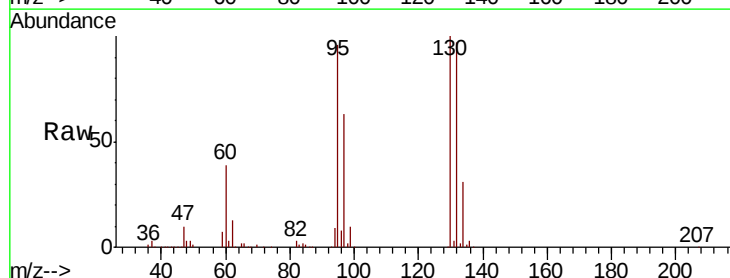
RT: 8.84 min Scan# 2197

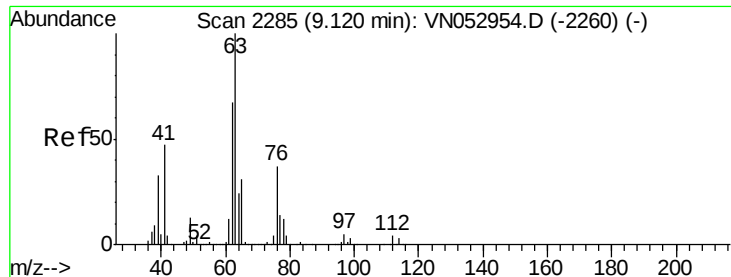
Delta R.T. 0.00 min

Lab File: VN053022.D

Acq: 19 Dec 2018 20:10

Tgt Ion:	130	Resp:	652111
Ion	Ratio	Lower	Upper
130	100		
95	95.7	0.0	197.8





#45

1,2-Dichloropropane

Concen: 50.365 ug/l

RT: 9.12 min Scan# 2285

Delta R.T. 0.00 min

Lab File: VN053022.D

Acq: 19 Dec 2018 20:10

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 63 Resp: 616019

Ion Ratio Lower Upper

63 100

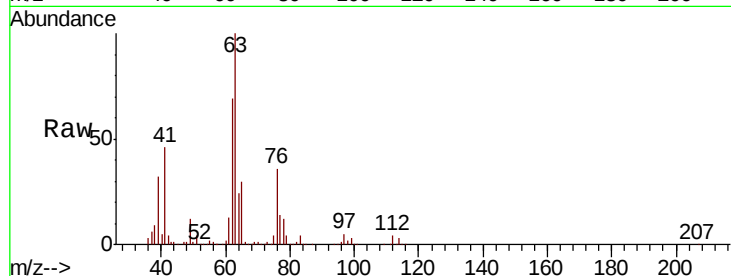
65 30.1 24.6 37.0

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Abundance Ion 62.90 (62.60 to 63.60): VNO

Ion 64.90 (64.60 to 65.60): VNO

9.12

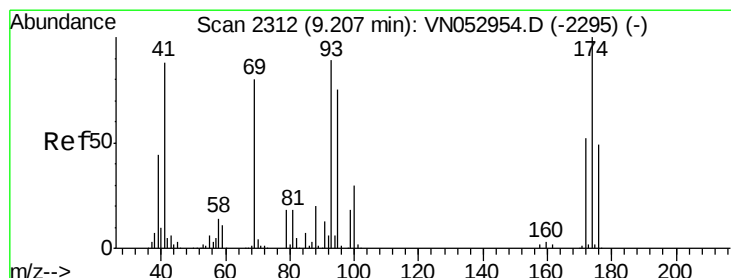
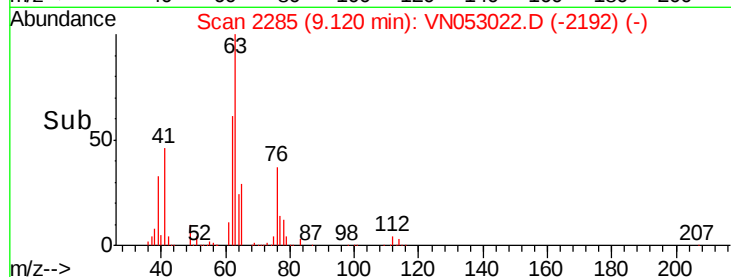
300000

200000

100000

0

Time-->



#46

Dibromomethane

Concen: 48.882 ug/l

RT: 9.21 min Scan# 2312

Delta R.T. 0.00 min

Lab File: VN053022.D

Acq: 19 Dec 2018 20:10

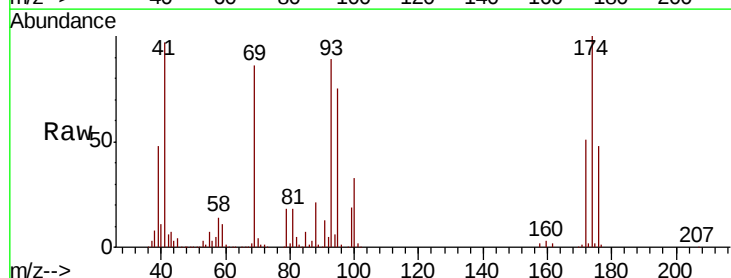
Tgt Ion: 93 Resp: 348289

Ion Ratio Lower Upper

93 100

95 84.7 67.8 101.6

174 114.5 89.0 133.4



Abundance Ion 92.80 (92.50 to 93.50): VNO

Ion 94.80 (94.50 to 95.50): VNO

Ion 173.70 (173.40 to 174.40): VNO

9.21

250000

200000

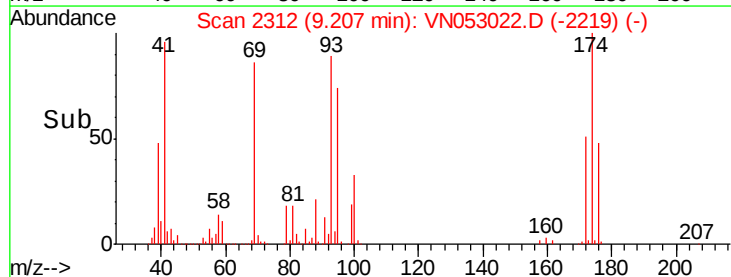
150000

100000

50000

0

Time-->





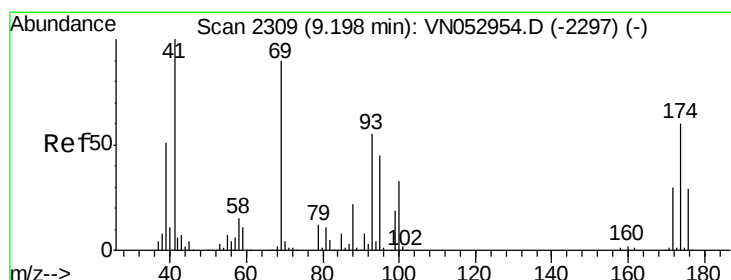
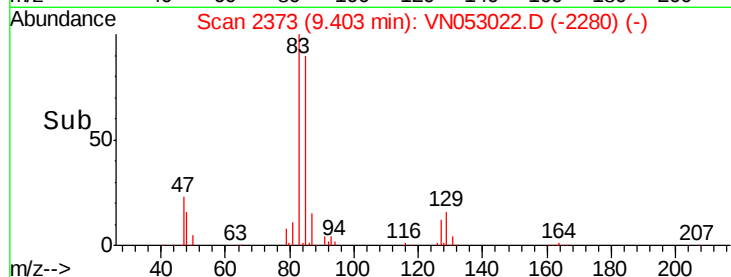
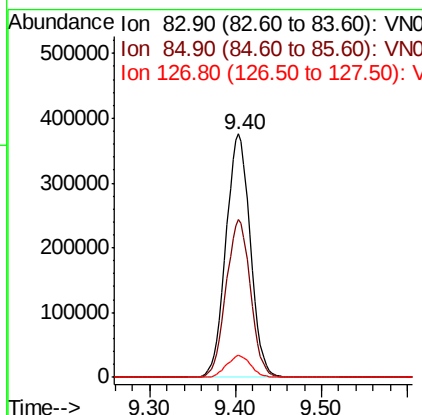
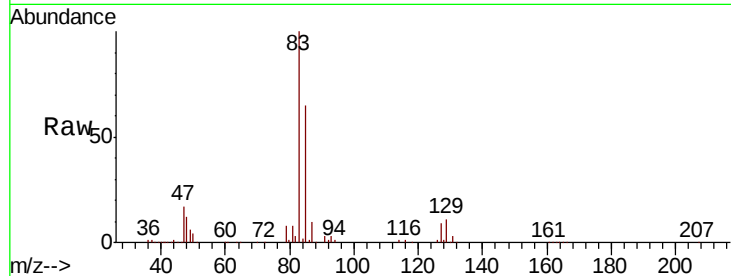
#47
Bromodichloromethane
Concen: 48.695 ug/l
RT: 9.40 min Scan# 2373
Delta R.T. 0.00 min
Lab File: VN053022.D
Acq: 19 Dec 2018 20:10

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	83	Resp	737513
Ion Ratio	100		
85	64.7	51.6	77.4
127	8.9	7.1	10.7

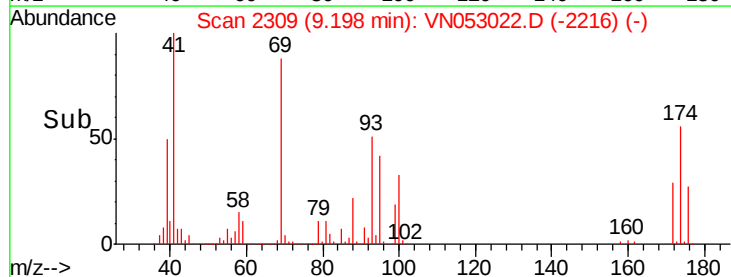
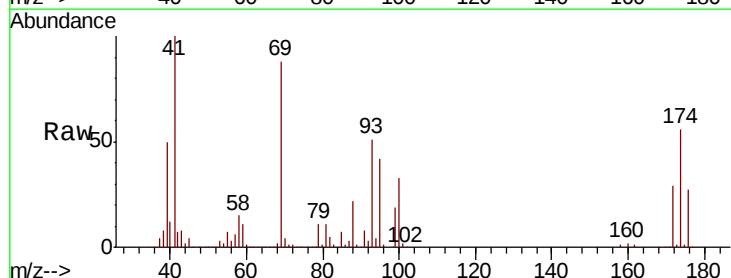
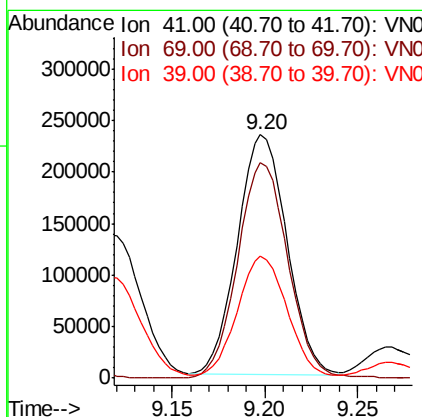
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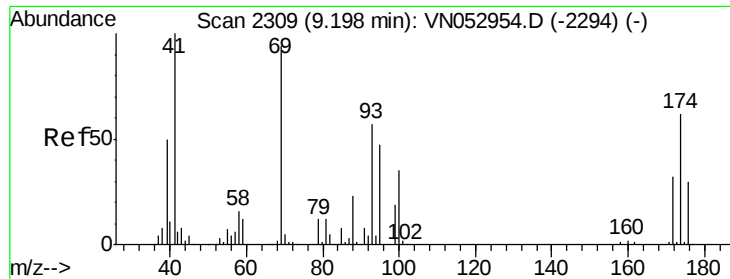
MMDadoda
12/20/2018 9:35:16 AM



#48
Methyl methacrylate
Concen: 50.715 ug/l
RT: 9.20 min Scan# 2309
Delta R.T. 0.00 min
Lab File: VN053022.D
Acq: 19 Dec 2018 20:10

Tgt Ion	41	Resp	433702
Ion Ratio	100		
69	91.4	72.2	108.2
39	51.4	41.9	62.9





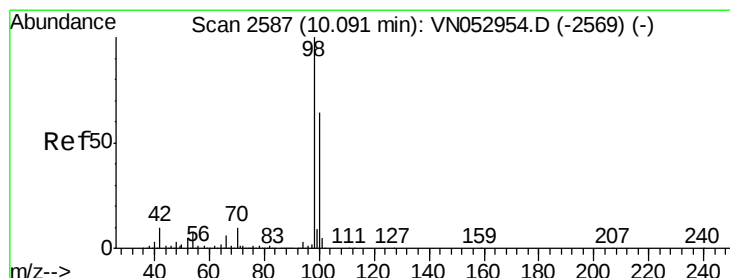
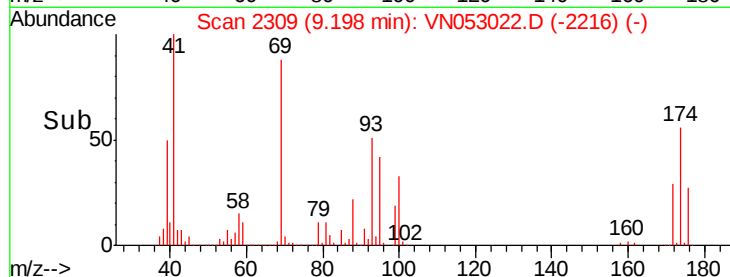
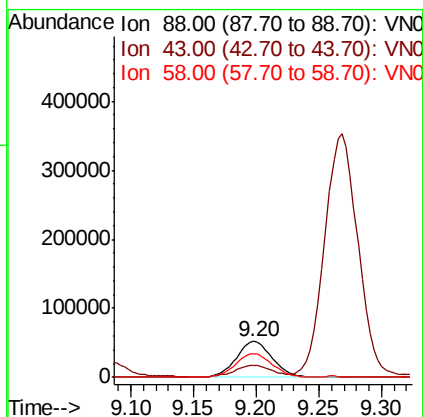
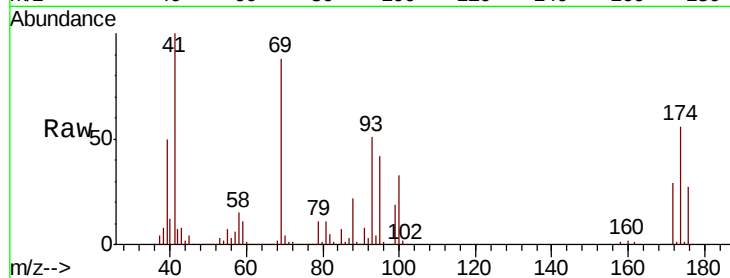
#49
1,4-Dioxane
Concen: 957.015 ug/l
RT: 9.20 min Scan# 2309
Delta R.T. 0.00 min
Lab File: VN053022.D
Acq: 19 Dec 2018 20:10

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
88	100		
43	31.6	26.6	40.0
58	68.4	58.4	87.6

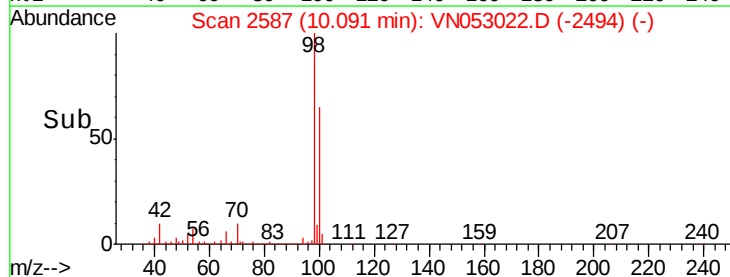
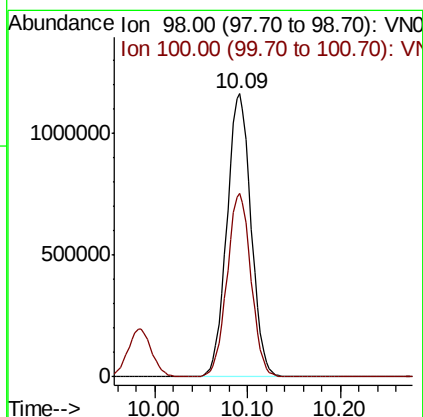
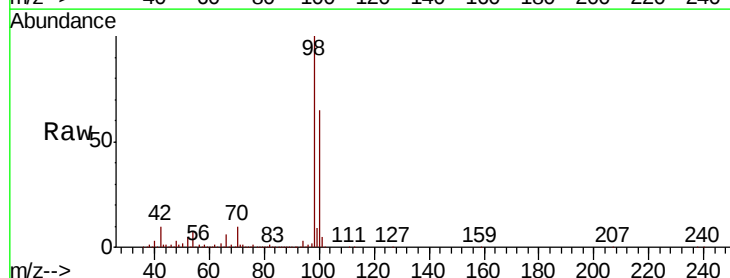
Manual Integrations
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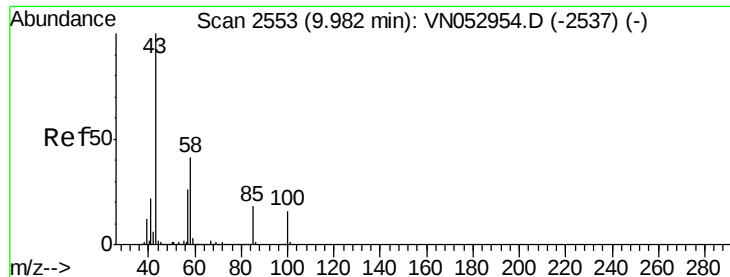
MMDadoda
12/20/2018 9:35:16 AM



#50
Toluene-d8
Concen: 957.015 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN053022.D
Acq: 19 Dec 2018 20:10

Tgt Ion	Ratio	Lower	Upper
98	100		
100	64.2	51.6	77.4





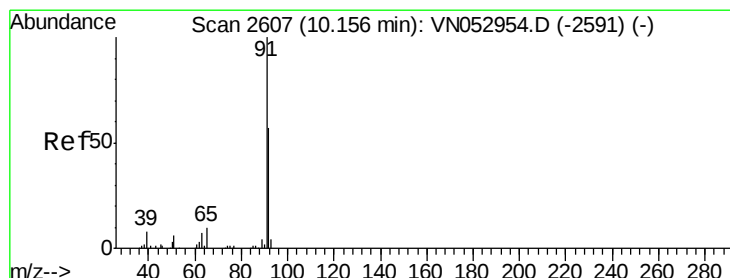
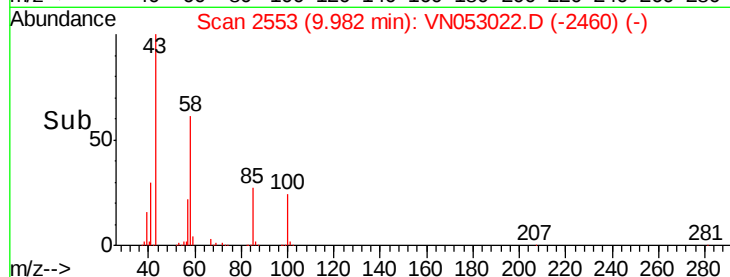
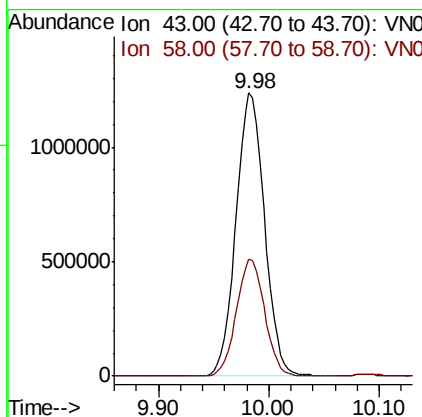
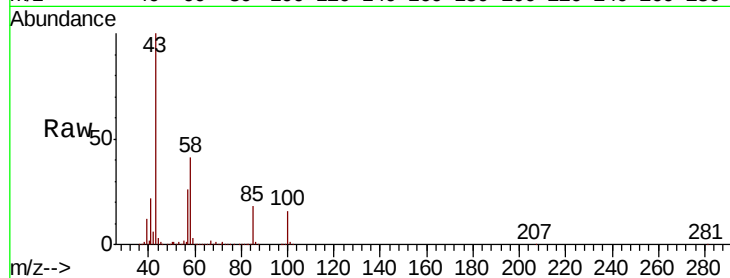
#51
4-Methyl-2-Pentanone
Concen: 259.074 ug/l
RT: 9.98 min Scan# 2553
Delta R.T. 0.00 min
Lab File: VN053022.D
Acq: 19 Dec 2018 20:10

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion: 43 Resp: 2211106
Ion Ratio Lower Upper
43 100
58 41.1 32.2 48.4

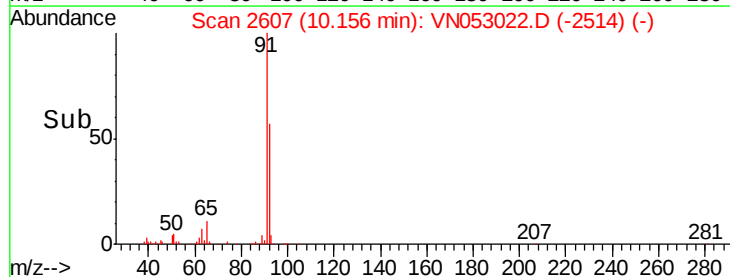
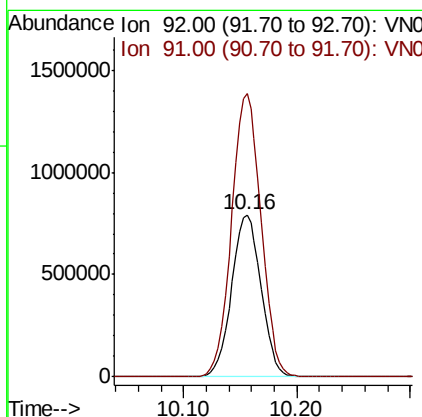
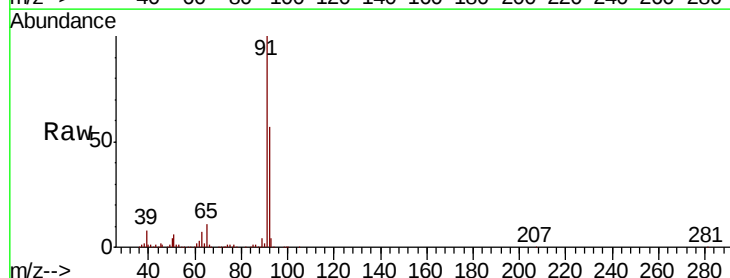
Manual Integrations
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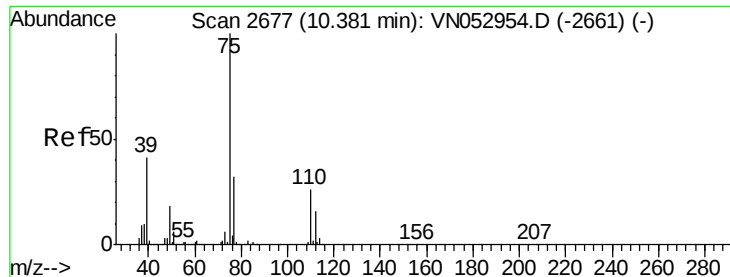
MMDadoda
12/20/2018 9:35:16 AM



#52
Toluene
Concen: 49.121 ug/l
RT: 10.16 min Scan# 2607
Delta R.T. 0.00 min
Lab File: VN053022.D
Acq: 19 Dec 2018 20:10

Tgt Ion: 92 Resp: 1429698
Ion Ratio Lower Upper
92 100
91 175.7 139.8 209.6





#53

t-1,3-Dichloropropene

Concen: 48.316 ug/l

RT: 10.38 min Scan# 2677

Delta R.T. 0.00 min

Lab File: VN053022.D

Acq: 19 Dec 2018 20:10

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 75 Resp: 769503

Ion Ratio Lower Upper

75 100

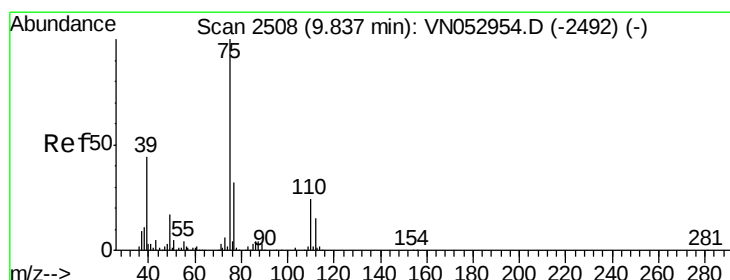
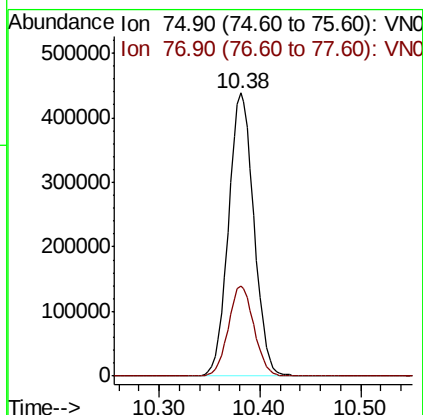
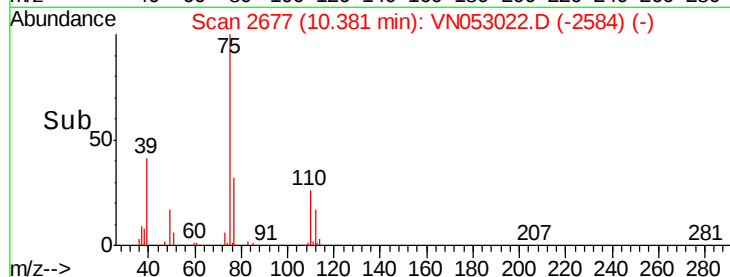
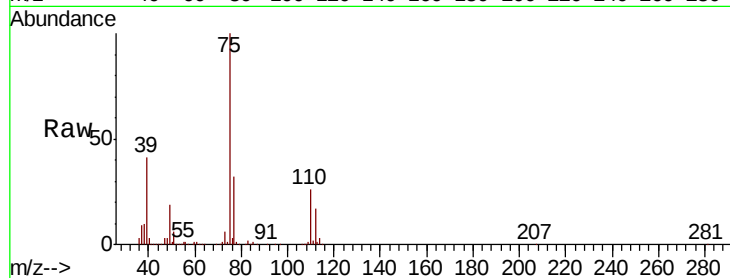
77 32.0 25.6 38.4

Manual Integrations

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MMDadoda

12/20/2018 9:35:16 AM



#54

cis-1,3-Dichloropropene

Concen: 49.801 ug/l

RT: 9.84 min Scan# 2509

Delta R.T. 0.00 min

Lab File: VN053022.D

Acq: 19 Dec 2018 20:10

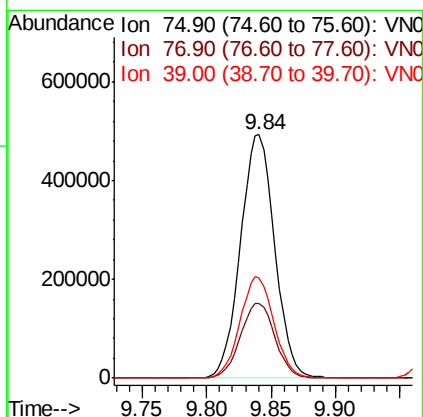
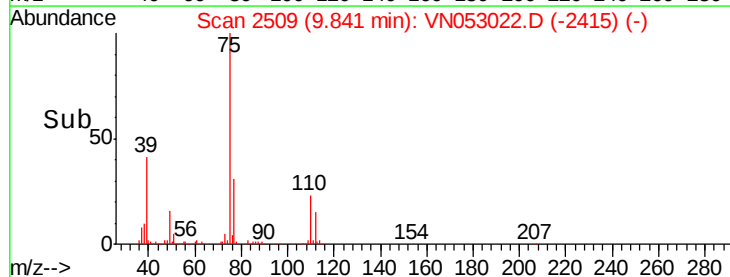
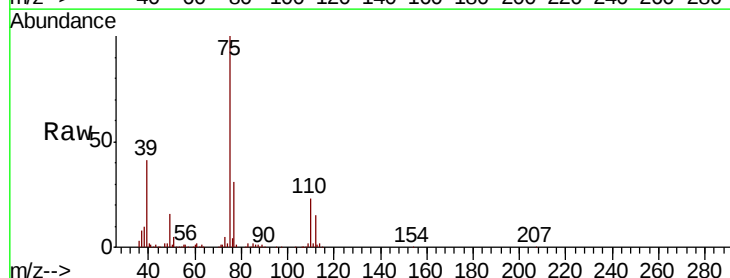
Tgt Ion: 75 Resp: 910398

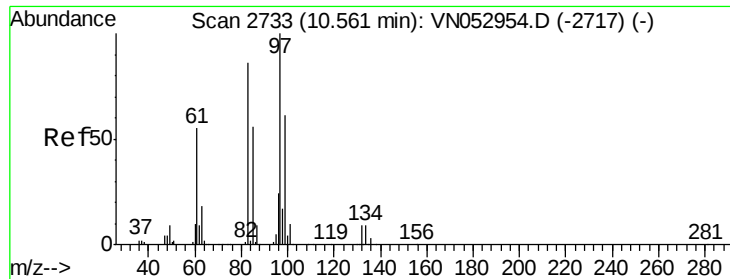
Ion Ratio Lower Upper

75 100

77 30.9 25.8 38.8

39 40.9 34.8 52.2





#55

1,1,2-Trichloroethane

Concen: 49.705 ug/l

RT: 10.56 min Scan# 2733

Delta R.T. 0.00 min

Lab File: VN053022.D

Acq: 19 Dec 2018 20:10

Instrument :

MSVOA_N

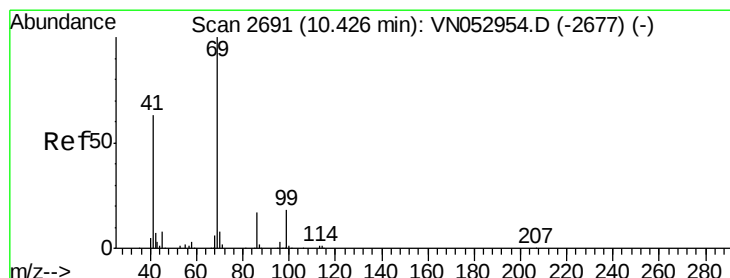
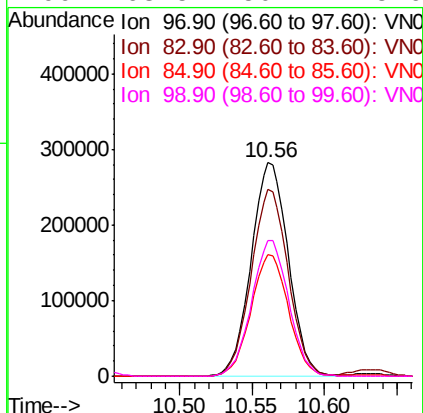
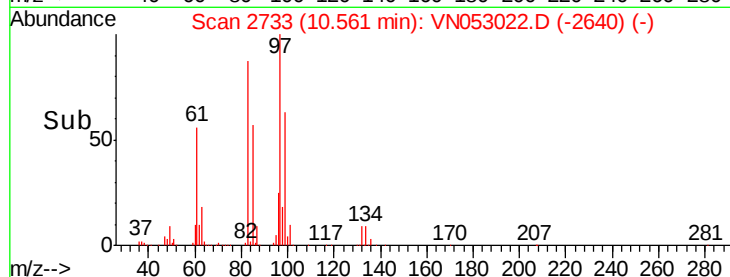
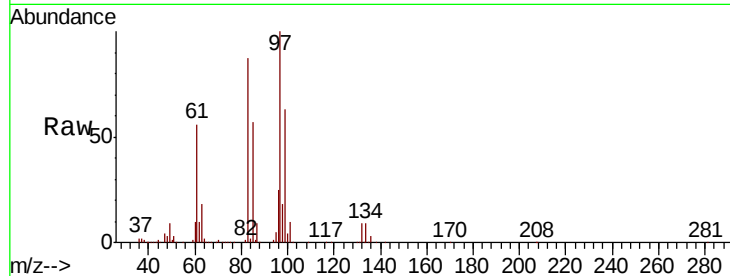
ClientSampleId :

VSTDCCC050EC

Tot Ion:	97	Resp:	504706
Ion	Ratio	Lower	Upper
97	100		
83	87.3	70.9	106.3
85	57.1	45.4	68.2
99	63.5	50.4	75.6

Manual Integrations
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#56

Ethyl methacrylate

Concen: 51.113 ug/l

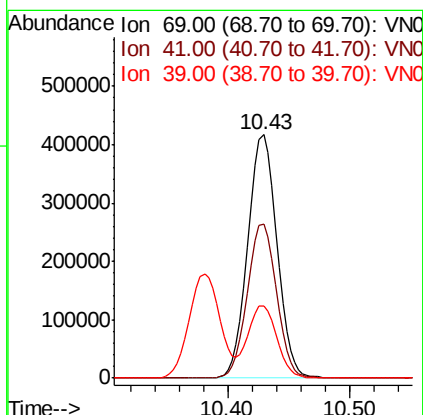
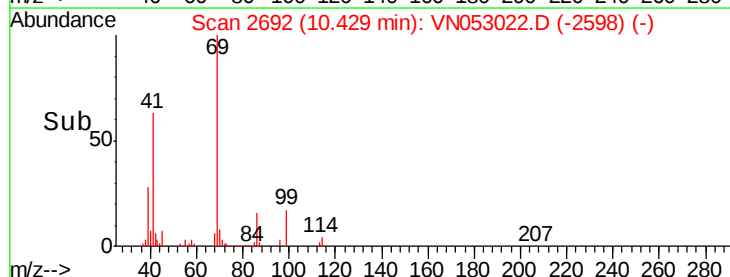
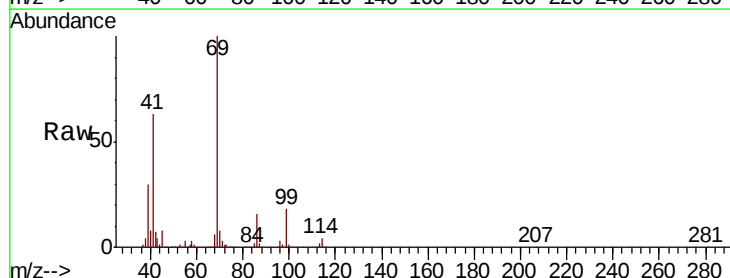
RT: 10.43 min Scan# 2692

Delta R.T. 0.00 min

Lab File: VN053022.D

Acq: 19 Dec 2018 20:10

Tgt Ion:	69	Resp:	686956
Ion	Ratio	Lower	Upper
69	100		
41	63.6	51.7	77.5
39	29.4	24.6	37.0





#57

1,3-Dichloropropane

Concen: 49.976 ug/l

RT: 10.71 min Scan# 2778

Delta R.T. 0.00 min

Lab File: VN053022.D

Acq: 19 Dec 2018 20:10

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 76 Resp: 870204

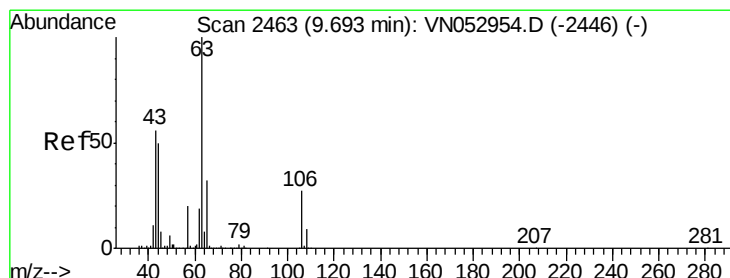
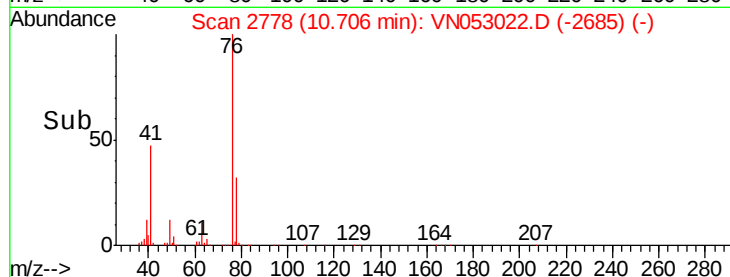
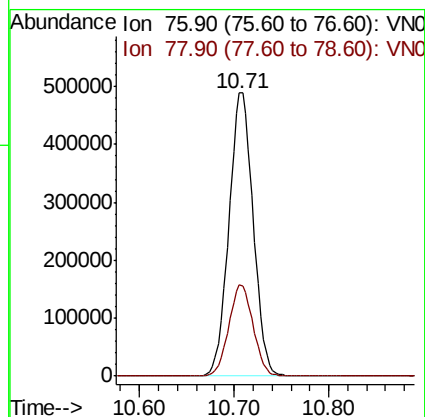
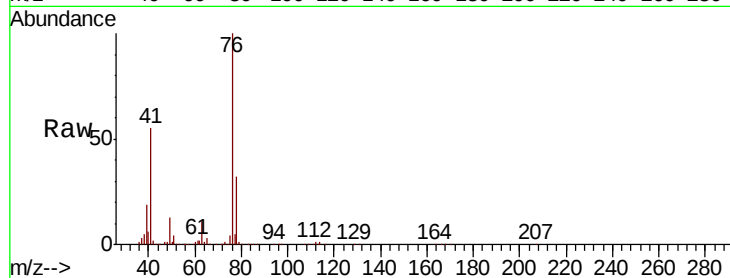
Ion Ratio Lower Upper

76 100

78 32.2 25.8 38.8

Manual Integrations
APPROVED

MMDadoda
12/20/2018 9:35:16 AM



#58

2-Chloroethyl Vinyl ether

Concen: 253.832 ug/l

RT: 9.69 min Scan# 2463

Delta R.T. 0.00 min

Lab File: VN053022.D

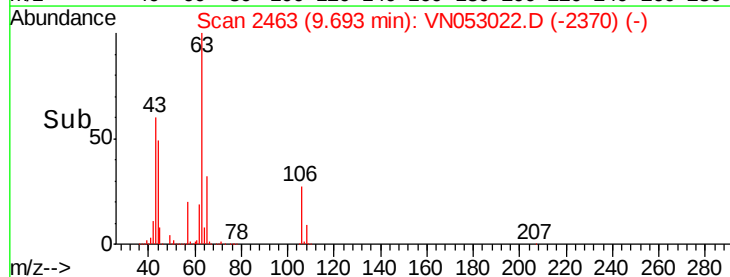
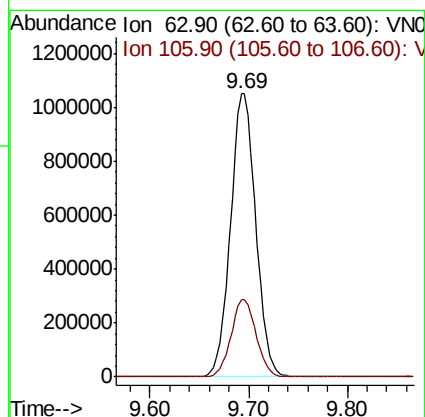
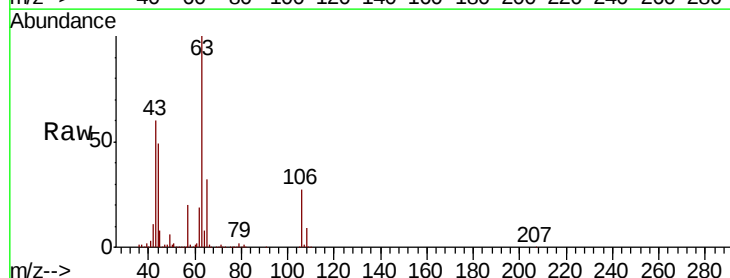
Acq: 19 Dec 2018 20:10

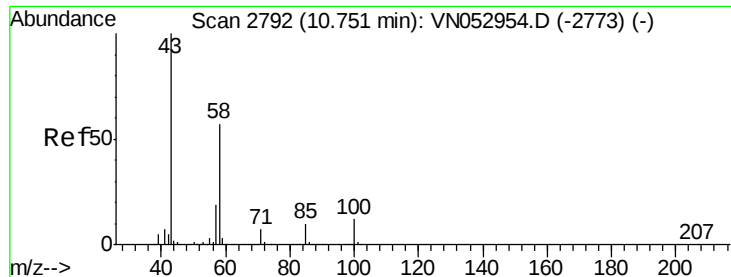
Tgt Ion: 63 Resp: 1872875

Ion Ratio Lower Upper

63 100

106 27.3 21.0 31.6





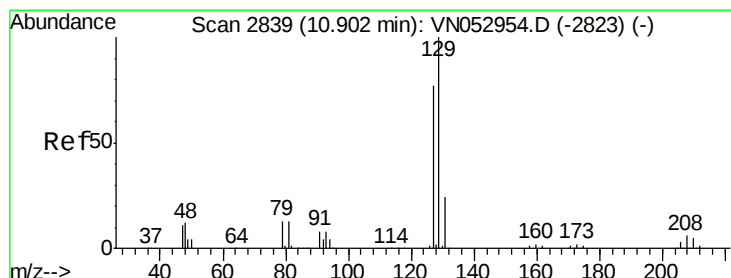
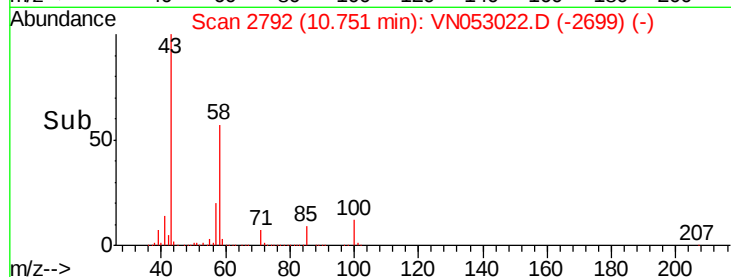
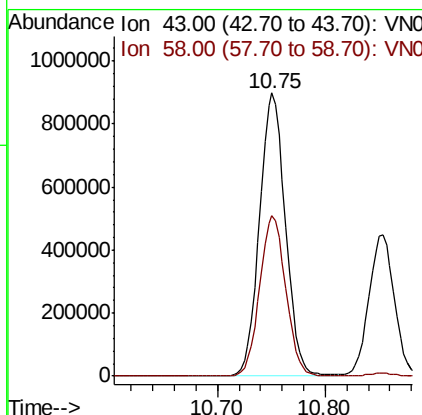
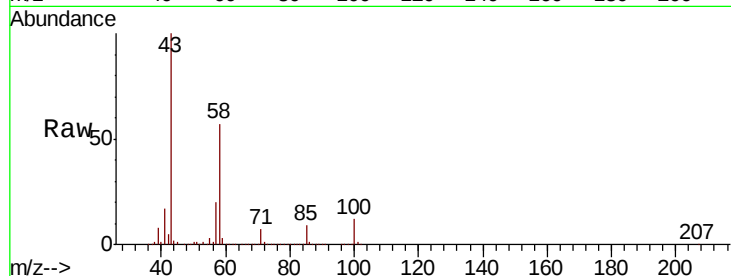
#59
2-Hexanone
Concen: 258.702 ug/l
RT: 10.75 min Scan# 2792
Delta R.T. 0.00 min
Lab File: VN053022.D
Acq: 19 Dec 2018 20:10

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion: 43 Resp: 1493846
Ion Ratio Lower Upper
43 100
58 57.1 28.1 84.3

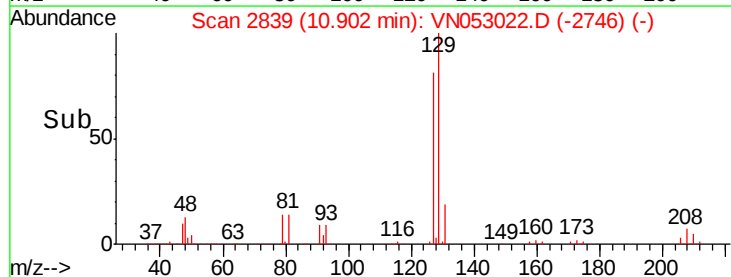
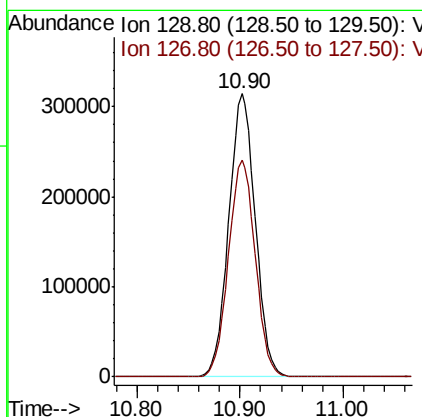
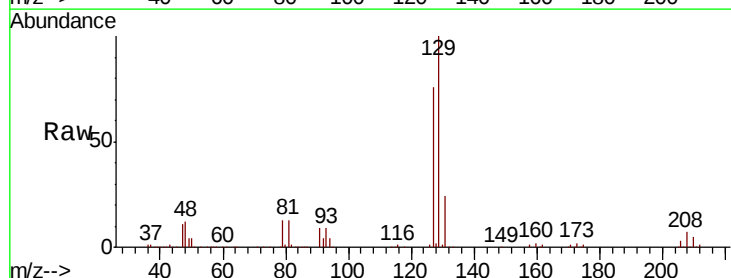
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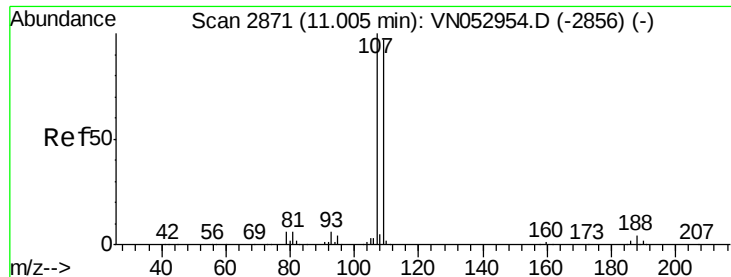
MMDadoda
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#60
Dibromochloromethane
Concen: 48.480 ug/l
RT: 10.90 min Scan# 2839
Delta R.T. 0.00 min
Lab File: VN053022.D
Acq: 19 Dec 2018 20:10

Tgt Ion: 129 Resp: 563490
Ion Ratio Lower Upper
129 100
127 77.5 38.6 116.0





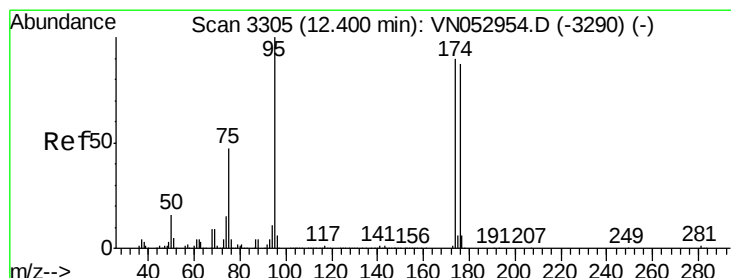
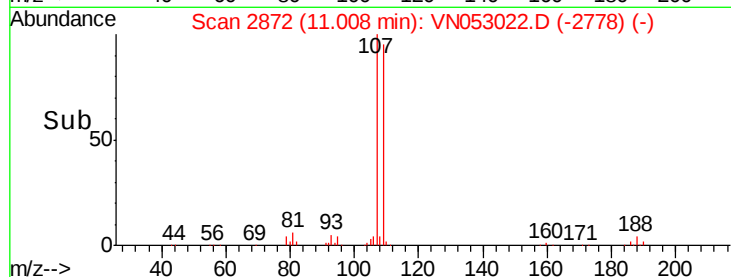
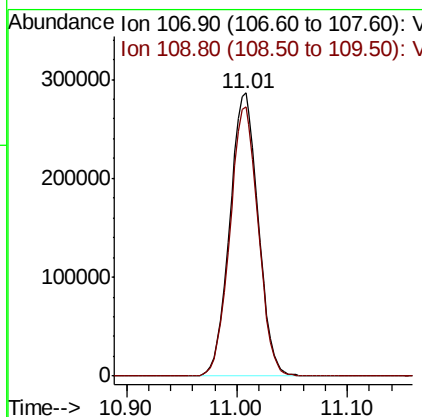
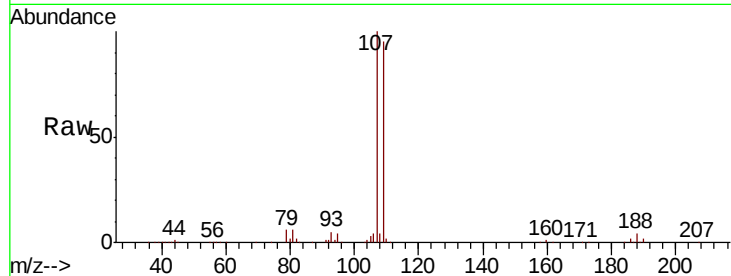
#61
 1,2-Dibromoethane
 Concen: 49.656 ug/l
 RT: 11.01 min Scan# 2872
 Delta R.T. 0.00 min
 Lab File: VN053022.D
 Acq: 19 Dec 2018 20:10

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tot Ion: 107 Resp: 512074
 Ion Ratio Lower Upper
 107 100
 109 94.7 75.4 113.0

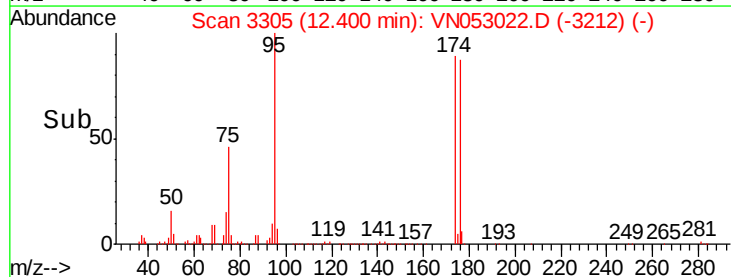
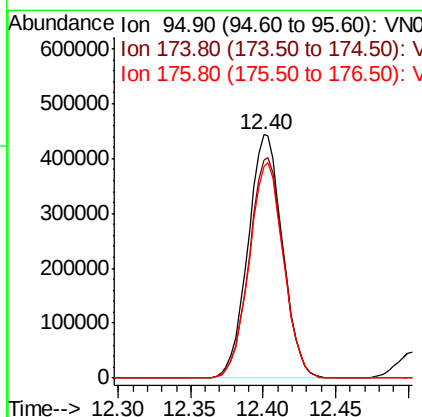
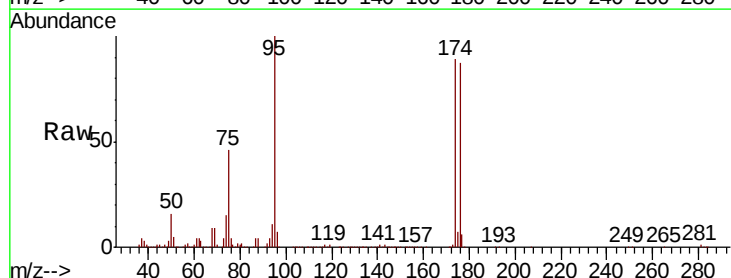
Manual Integrations
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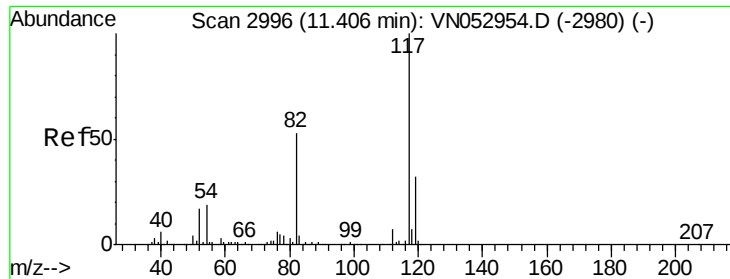
MMDadoda
 12/20/2018 9:35:16 AM



#62
 4-Bromofluorobenzene
 Concen: 49.656 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. 0.00 min
 Lab File: VN053022.D
 Acq: 19 Dec 2018 20:10

Tgt Ion: 95 Resp: 735405
 Ion Ratio Lower Upper
 95 100
 174 90.2 0.0 178.8
 176 87.8 0.0 173.8





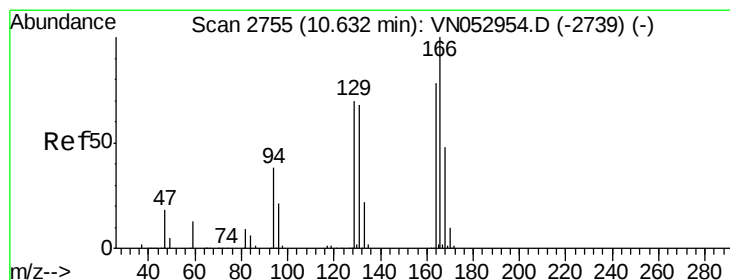
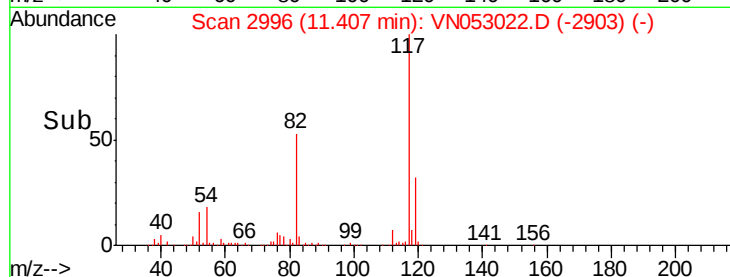
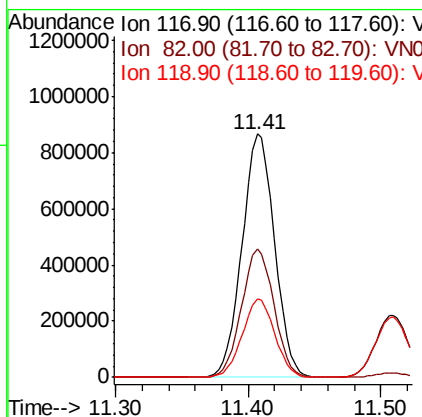
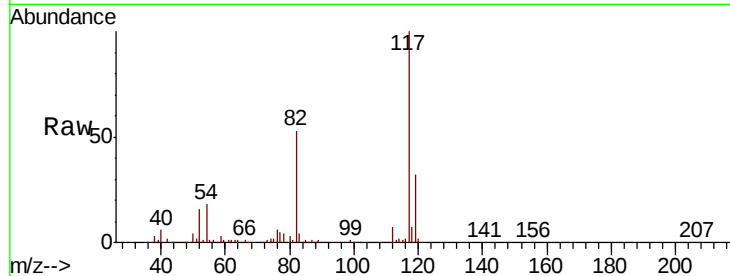
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN053022.D
Acq: 19 Dec 2018 20:10

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
117	100		
82	52.6	42.8	64.2
119	32.1	25.5	38.3

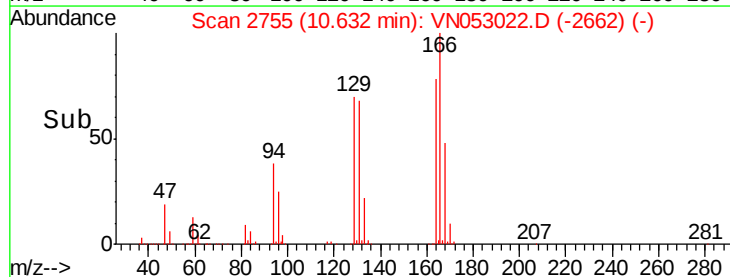
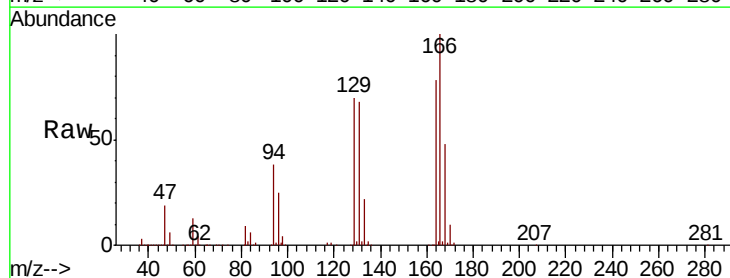
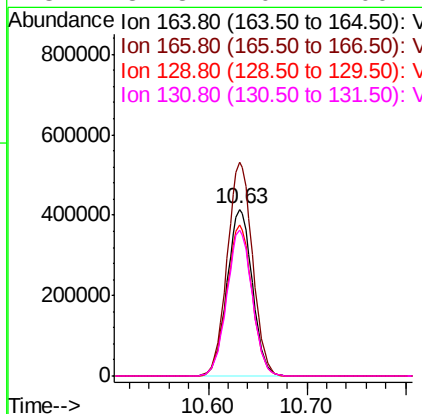
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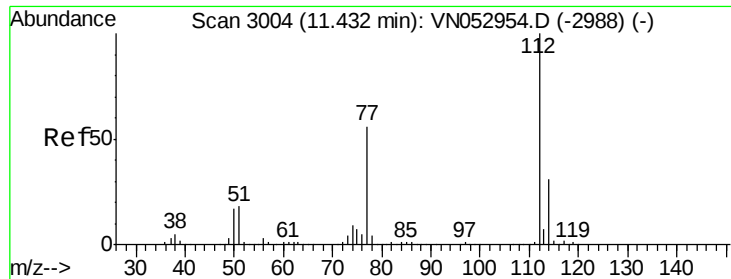
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#64
Tetrachloroethene
Concen: 46.403 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. 0.00 min
Lab File: VN053022.D
Acq: 19 Dec 2018 20:10

Tgt Ion	Ratio	Lower	Upper
164	100		
166	128.2	102.9	154.3
129	90.4	73.7	110.5
131	87.8	70.7	106.1





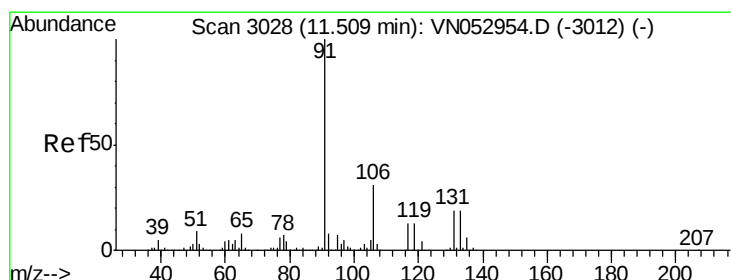
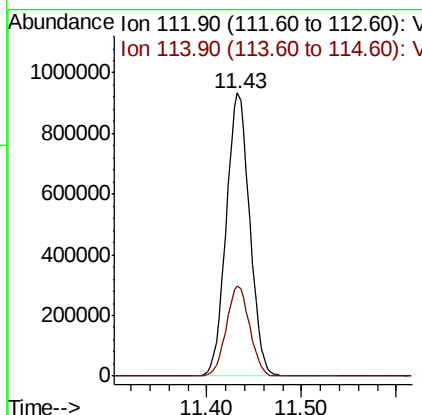
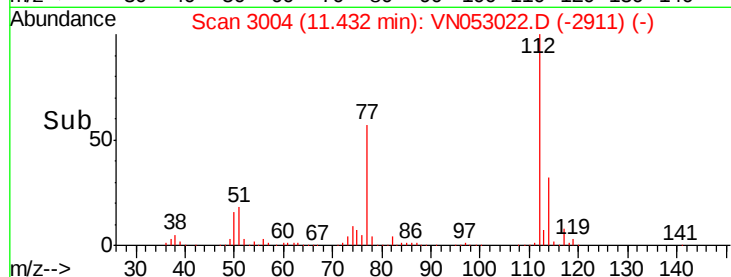
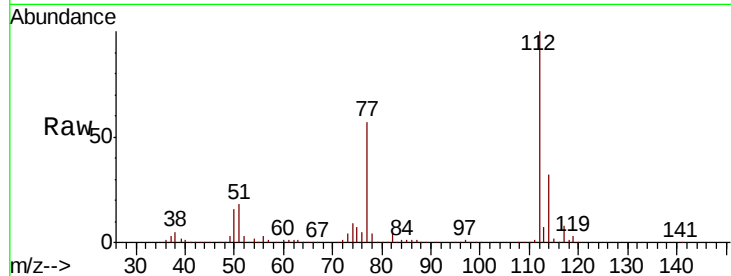
#65
Chlorobenzene
Concen: 48.997 ug/l
RT: 11.43 min Scan# 3004
Delta R.T. 0.00 min
Lab File: VN053022.D
Acq: 19 Dec 2018 20:10

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion:112 Resp: 1603619
Ion Ratio Lower Upper
112 100
114 32.0 25.5 38.3

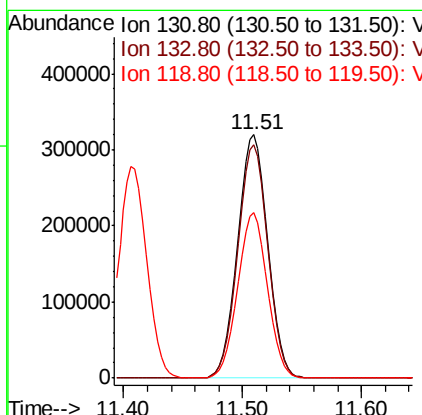
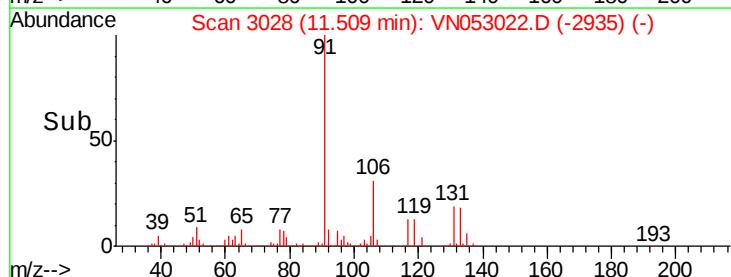
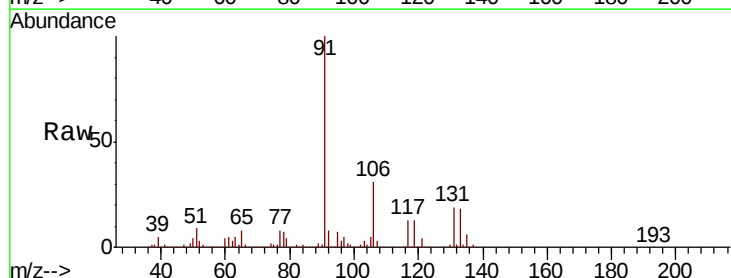
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#66
1,1,1,2-Tetrachloroethane
Concen: 49.195 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. 0.00 min
Lab File: VN053022.D
Acq: 19 Dec 2018 20:10

Tgt Ion:131 Resp: 559907
Ion Ratio Lower Upper
131 100
133 95.7 47.6 142.9
119 67.0 33.3 99.8





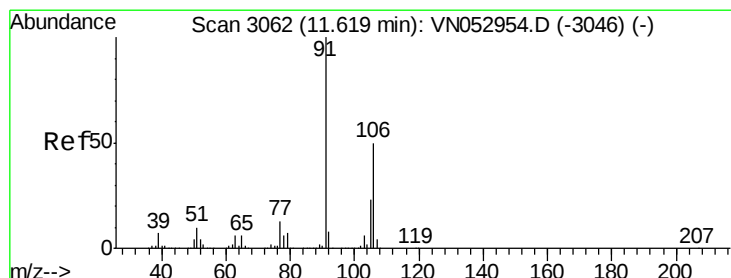
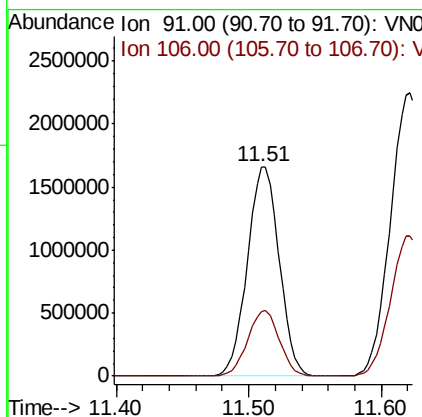
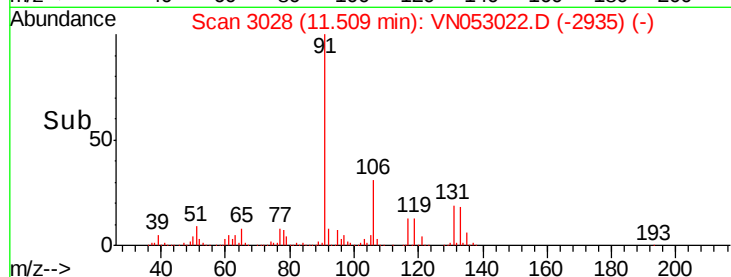
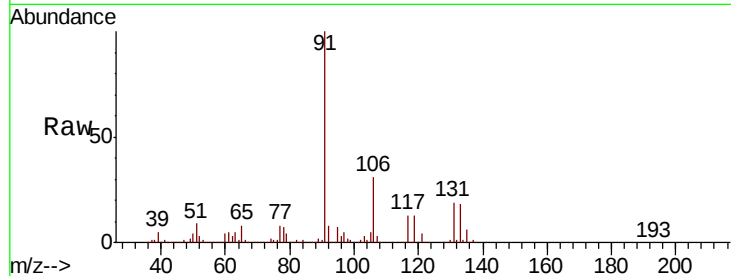
#67
Ethyl Benzene
Concen: 49.360 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. 0.00 min
Lab File: VN053022.D
Acq: 19 Dec 2018 20:10

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion: 91 Resp: 2778246
Ion Ratio Lower Upper
91 100
106 31.0 24.9 37.3

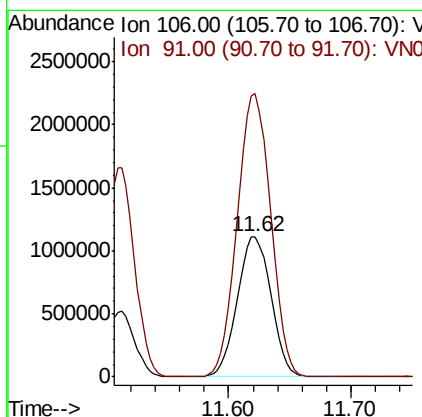
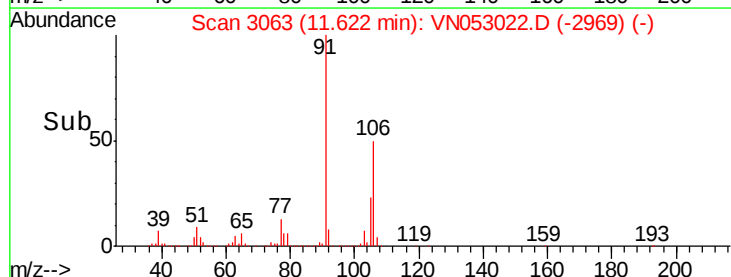
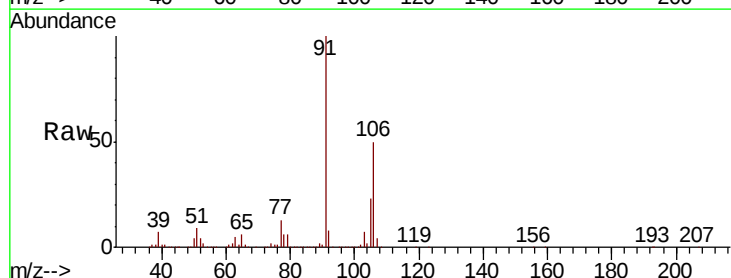
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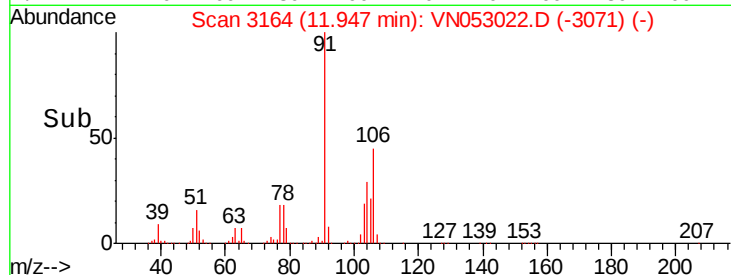
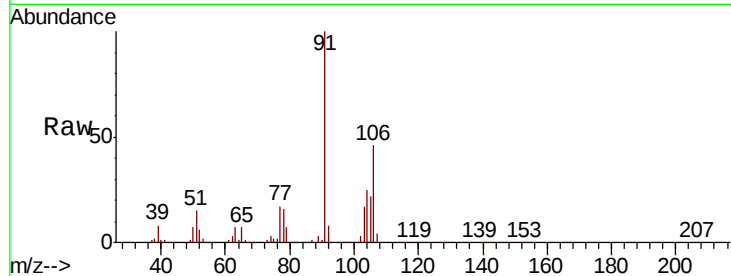
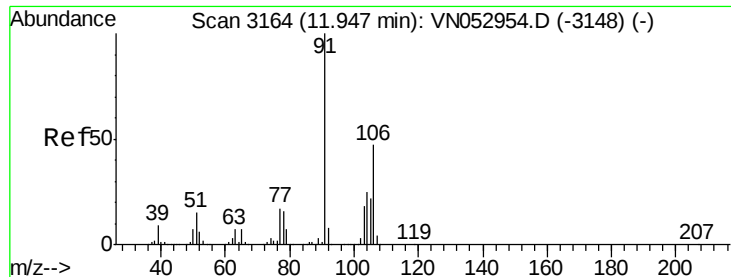
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#68
m/p-Xylenes
Concen: 99.035 ug/l
RT: 11.62 min Scan# 3063
Delta R.T. 0.00 min
Lab File: VN053022.D
Acq: 19 Dec 2018 20:10

Tgt Ion: 106 Resp: 2119061
Ion Ratio Lower Upper
106 100
91 201.5 162.2 243.4





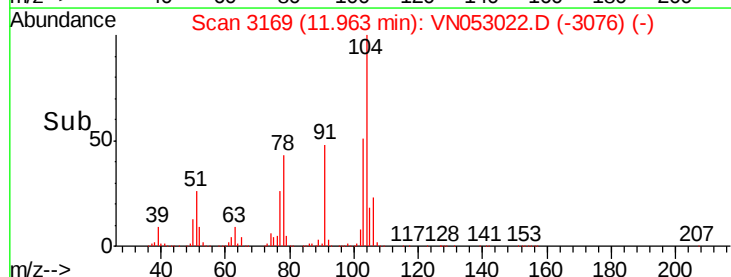
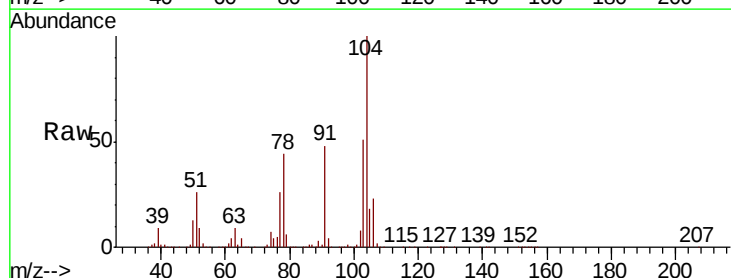
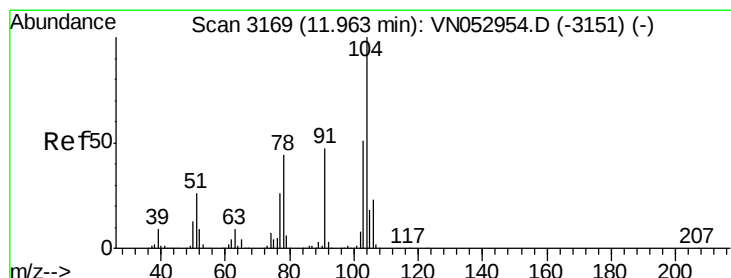
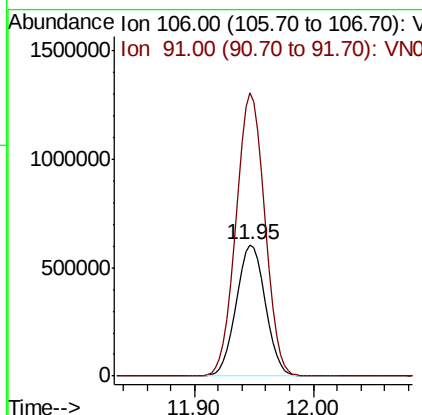
#69
o-Xylene
Concen: 49.940 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. 0.00 min
Lab File: VN053022.D
Acq: 19 Dec 2018 20:10

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion:106 Resp: 1025381
Ion Ratio Lower Upper
106 100
91 213.7 106.6 319.8

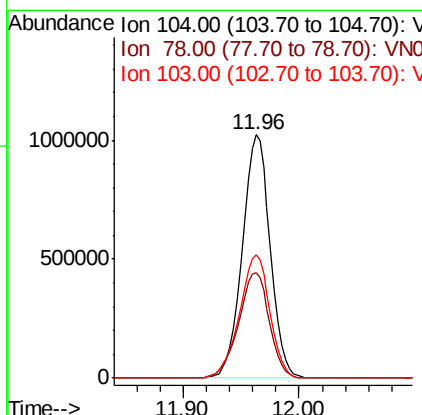
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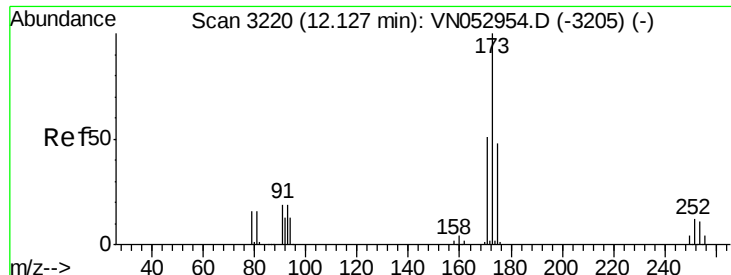
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#70
Styrene
Concen: 50.861 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. 0.00 min
Lab File: VN053022.D
Acq: 19 Dec 2018 20:10

Tgt Ion:104 Resp: 1702844
Ion Ratio Lower Upper
104 100
78 48.0 38.9 58.3
103 55.1 44.3 66.5





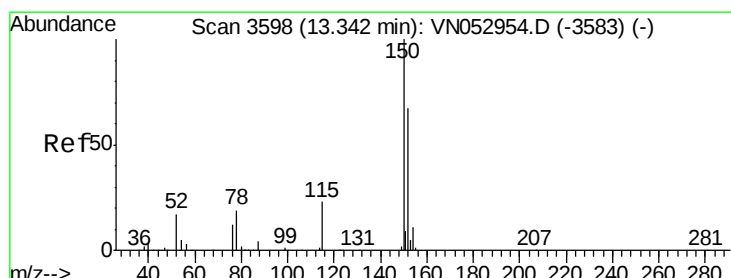
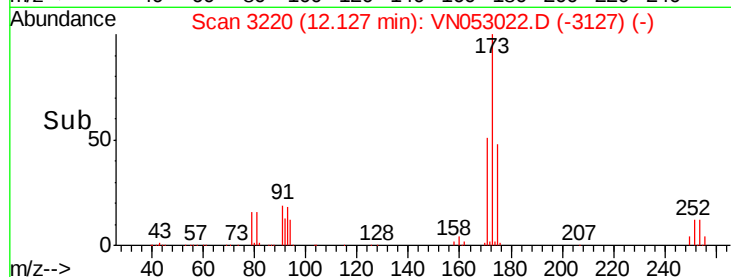
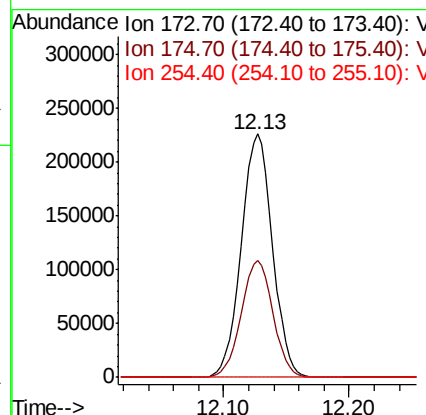
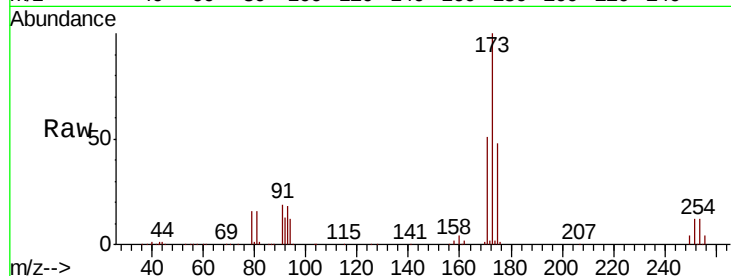
#71
Bromoform
Concen: 47.476 ug/l
RT: 12.13 min Scan# 3220
Delta R.T. 0.00 min
Lab File: VN053022.D
Acq: 19 Dec 2018 20:10

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
173	100		
175	48.6	24.3	72.9
254	0.1	0.1	0.1

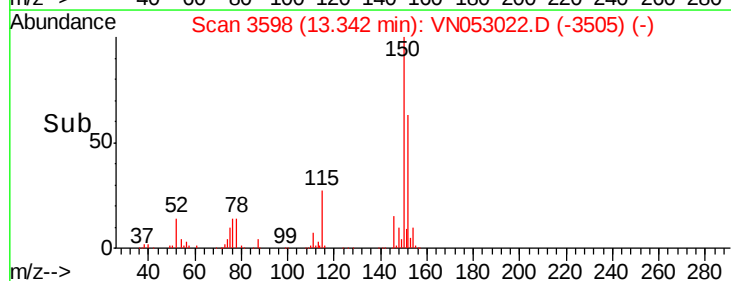
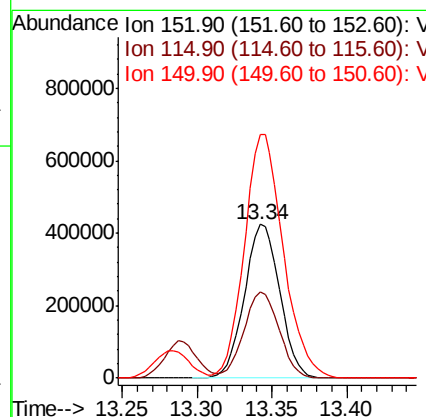
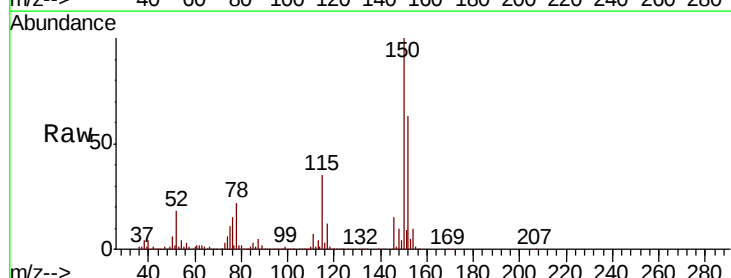
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#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. 0.00 min
Lab File: VN053022.D
Acq: 19 Dec 2018 20:10

Tgt Ion	Ratio	Lower	Upper
152	100		
115	56.1	28.3	85.0
150	174.7	0.0	347.8





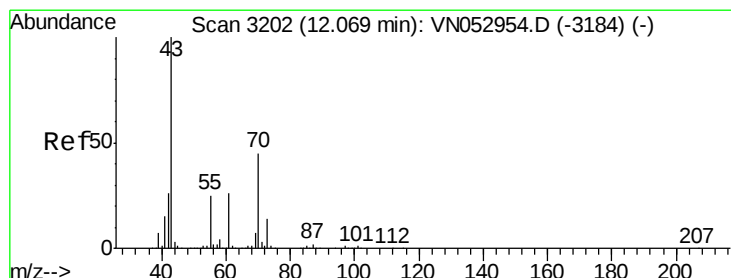
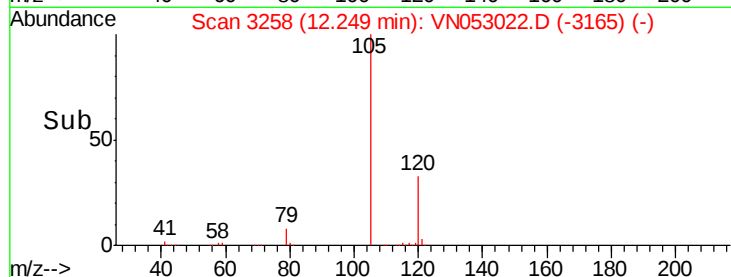
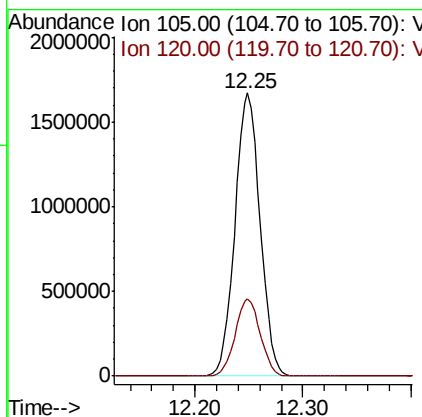
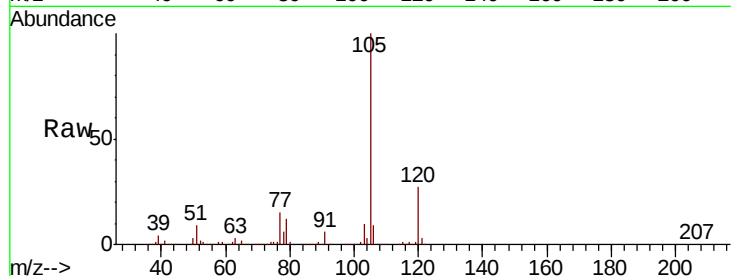
#73
Isopropylbenzene
Concen: 49.716 ug/l
RT: 12.25 min Scan# 3258
Delta R.T. 0.00 min
Lab File: VN053022.D
Acq: 19 Dec 2018 20:10

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion:105 Resp: 2705427
Ion Ratio Lower Upper
105 100
120 27.2 13.3 39.9

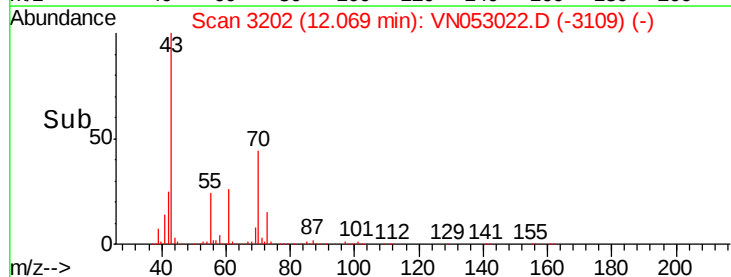
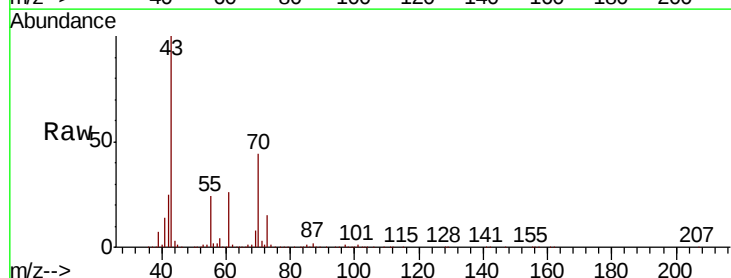
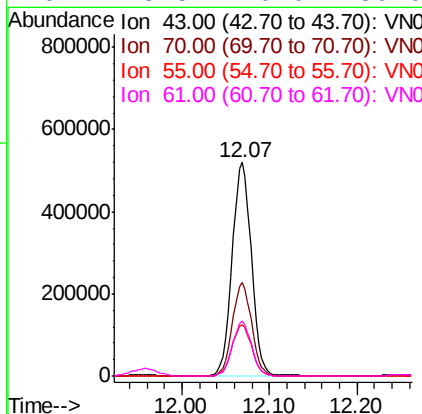
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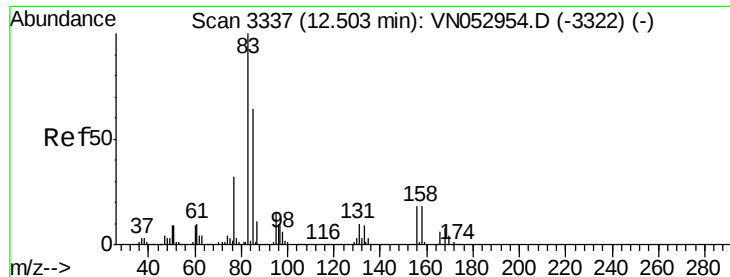
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#74
N-ethyl acetate
Concen: 52.543 ug/l
RT: 12.07 min Scan# 3202
Delta R.T. 0.00 min
Lab File: VN053022.D
Acq: 19 Dec 2018 20:10

Tgt Ion: 43 Resp: 793837
Ion Ratio Lower Upper
43 100
70 44.0 34.2 51.4
55 24.4 20.3 30.5
61 25.5 20.0 30.0





#75

1,1,2,2-Tetrachloroethane

Concen: 52.711 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. 0.00 min

Lab File: VN053022.D

Acq: 19 Dec 2018 20:10

Instrument :

MSVOA_N

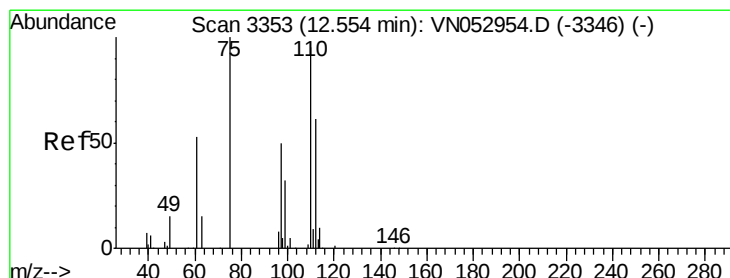
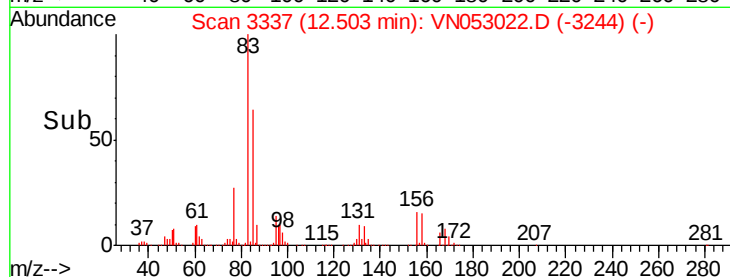
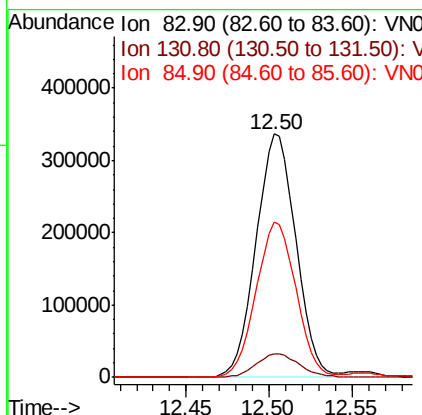
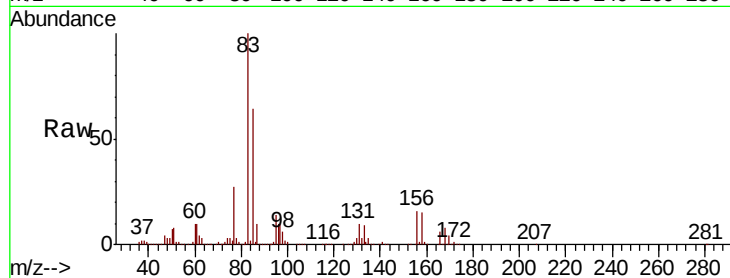
ClientSampleId :

VSTDCCC050EC

Tot Ion:	83	Resp:	562740
Ion Ratio	Lower	Upper	
83	100		
131	10.4	5.2	15.6
85	64.0	32.4	97.0

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#76

1,2,3-Trichloropropane

Concen: 43.555 ug/l m

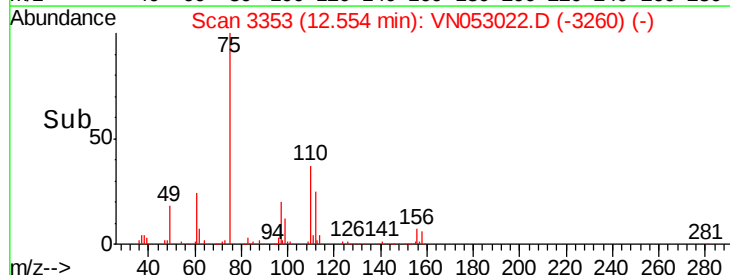
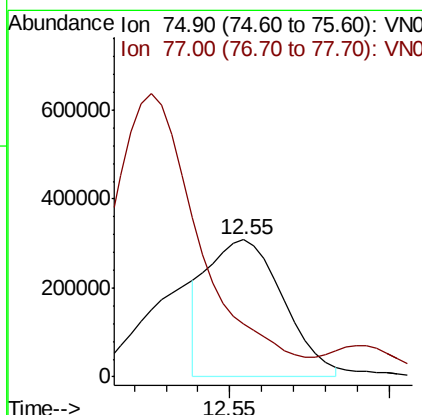
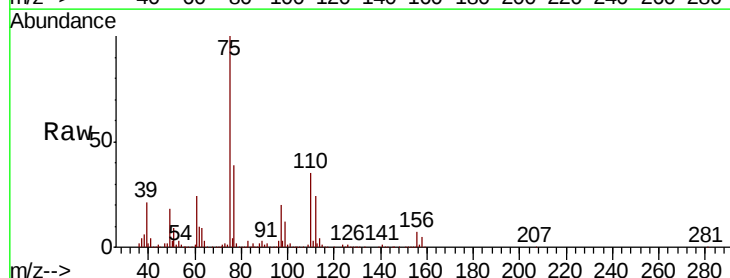
RT: 12.55 min Scan# 3353

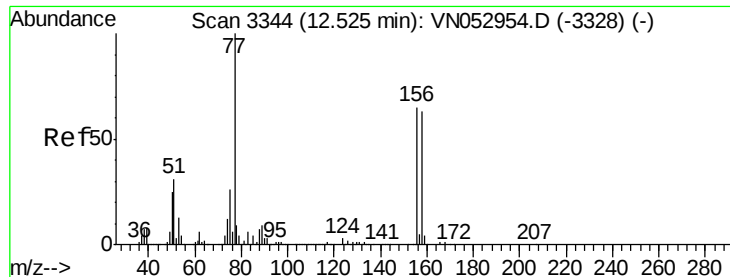
Delta R.T. 0.00 min

Lab File: VN053022.D

Acq: 19 Dec 2018 20:10

Tgt Ion:	75	Resp:	509950
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 51.570 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. 0.00 min

Lab File: VN053022.D

Acq: 19 Dec 2018 20:10

Instrument :

MSVOA_N

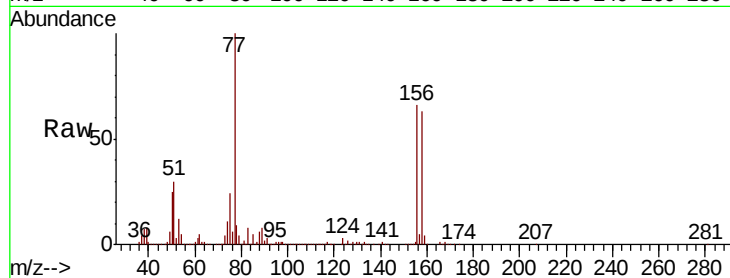
ClientSampleId :

VSTDCCC050EC

Tot Ion:	156	Resp:	729482
Ion Ratio	Lower	Upper	
156	100		
77	171.4	91.3	273.8
158	93.9	49.0	147.2

Manual Integrations
APPROVED

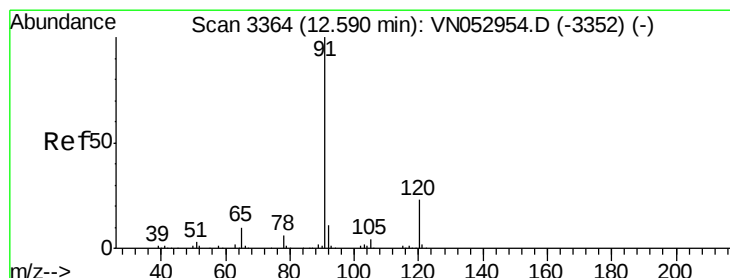
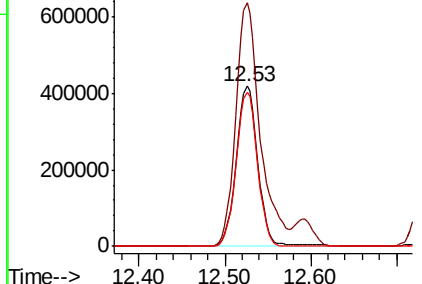
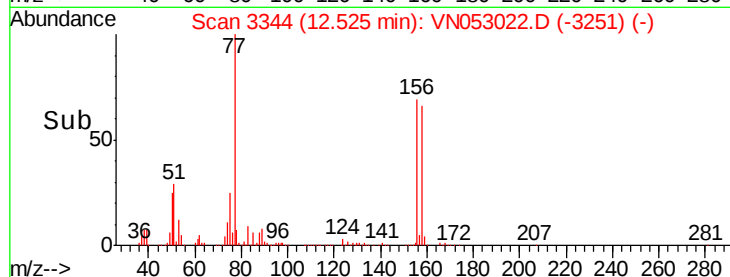
MMDadoda
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Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VN0

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 49.521 ug/l

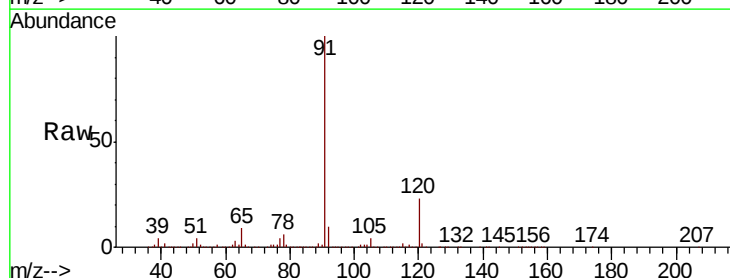
RT: 12.59 min Scan# 3365

Delta R.T. 0.00 min

Lab File: VN053022.D

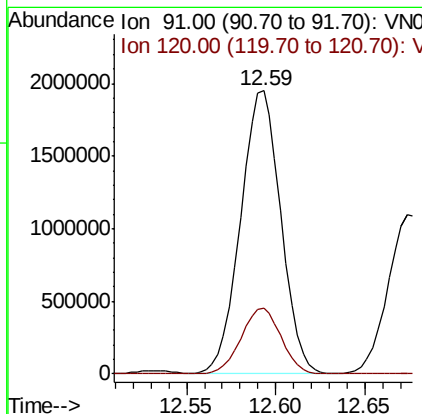
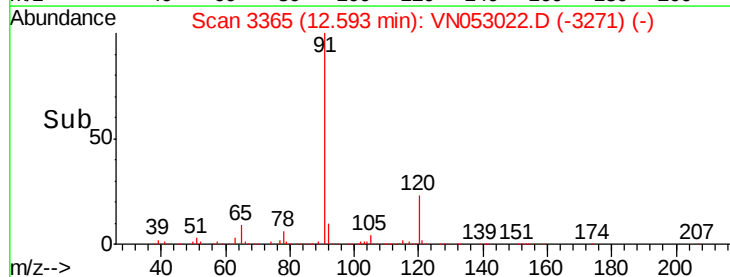
Acq: 19 Dec 2018 20:10

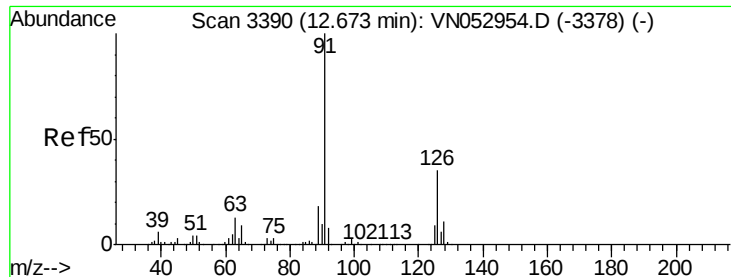
Tgt Ion:	91	Resp:	3069141
Ion Ratio	Lower	Upper	
91	100		
120	23.3	11.5	34.5



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 47.222 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. 0.00 min

Lab File: VN053022.D

Acq: 19 Dec 2018 20:10

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 91 Resp: 1814093

Ion Ratio Lower Upper

91 100

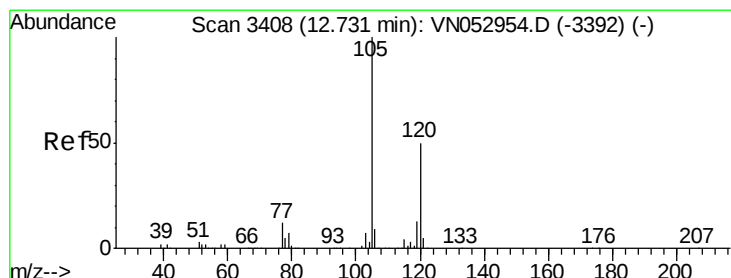
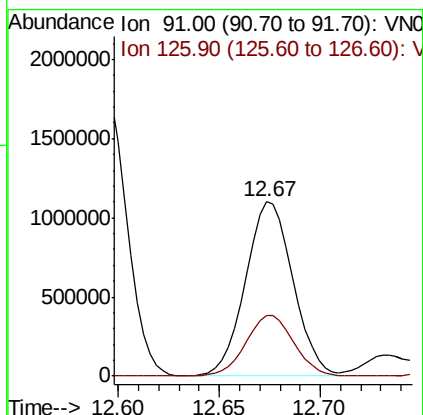
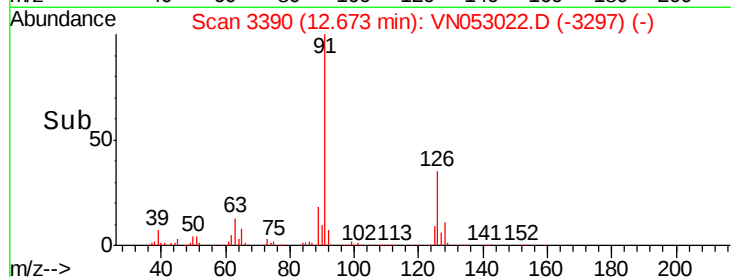
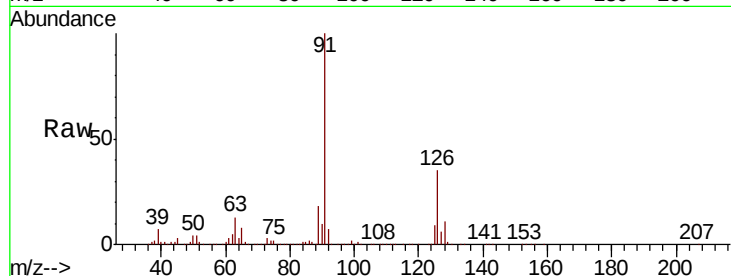
126 35.3 17.4 52.3

Manual Integrations

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#80

1,3,5-Trimethylbenzene

Concen: 48.683 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN053022.D

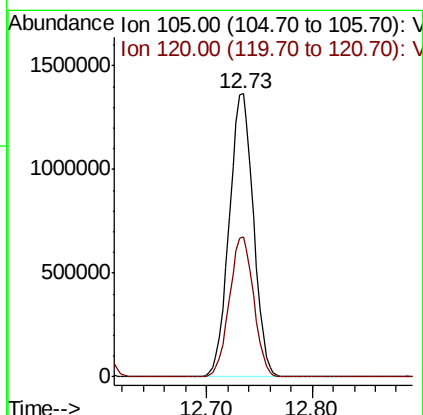
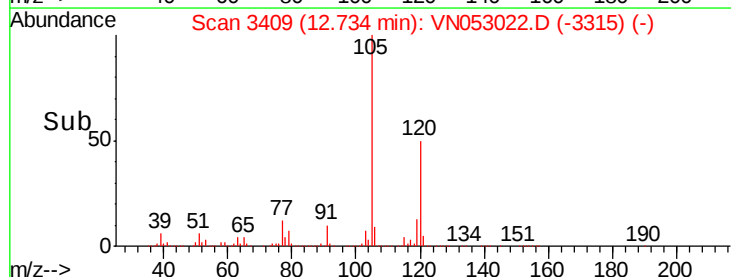
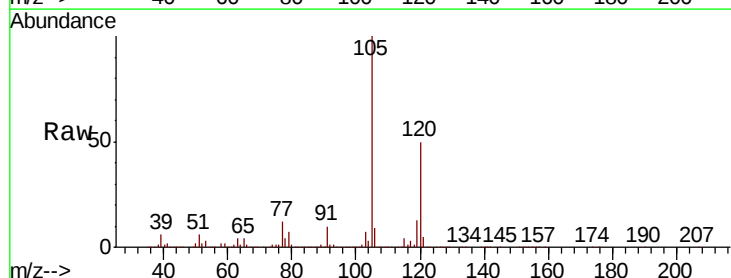
Acq: 19 Dec 2018 20:10

Tgt Ion: 105 Resp: 2159341

Ion Ratio Lower Upper

105 100

120 49.6 24.4 73.2





#81

trans-1,4-Dichloro-2-butene

Concen: 47.910 ug/l

RT: 12.30 min Scan# 3274

Delta R.T. 0.00 min

Lab File: VN053022.D

Acq: 19 Dec 2018 20:10

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 75 Resp: 174036

Ion Ratio Lower Upper

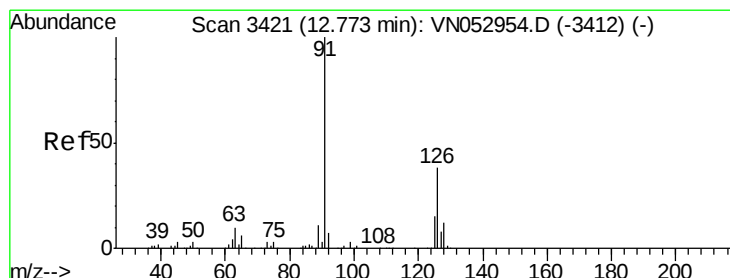
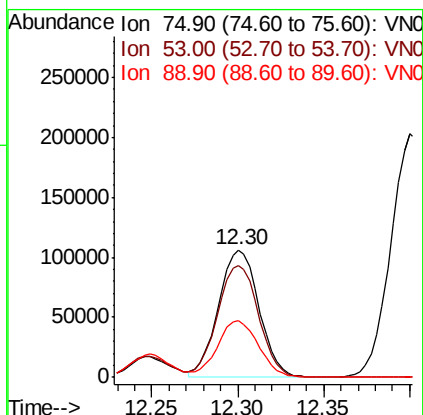
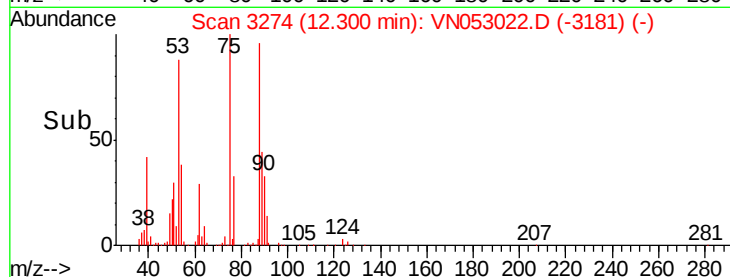
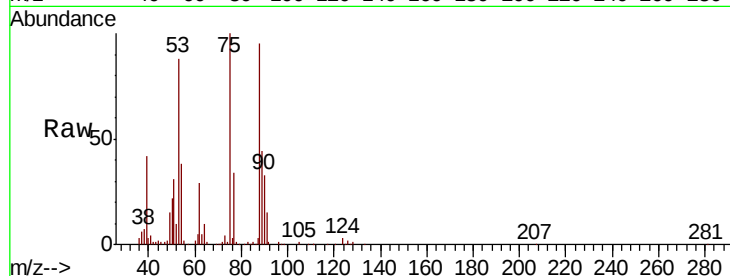
75 100

53 88.9 74.7 112.1

89 45.6 36.1 54.1

Manual Integrations
APPROVED

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12/20/2018 9:35:16 AM



#82

4-Chlorotoluene

Concen: 49.315 ug/l

RT: 12.77 min Scan# 3421

Delta R.T. 0.00 min

Lab File: VN053022.D

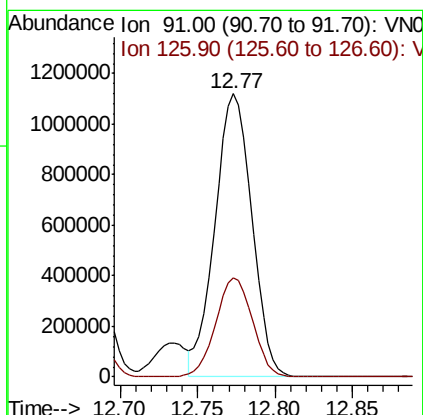
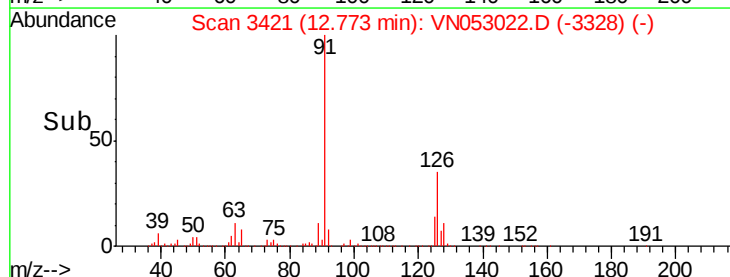
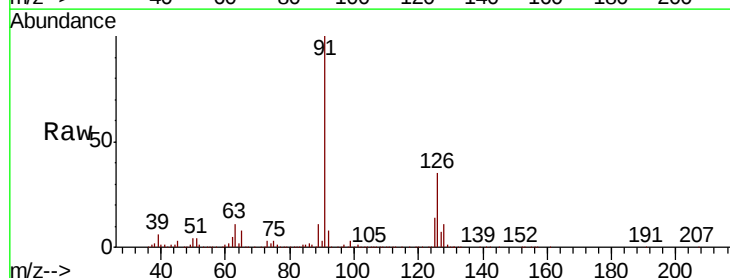
Acq: 19 Dec 2018 20:10

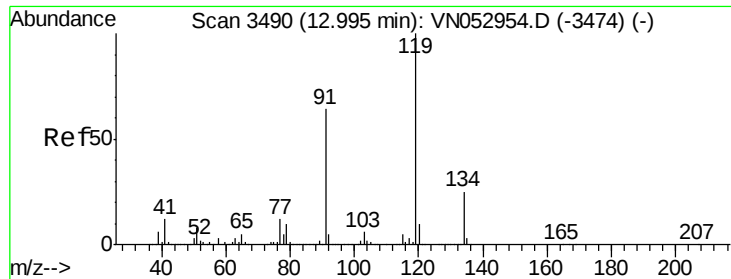
Tgt Ion: 91 Resp: 1854543

Ion Ratio Lower Upper

91 100

126 34.8 17.3 51.7





#83

tert-Butylbenzene

Concen: 48.428 ug/l

RT: 12.99 min Scan# 3490

Delta R.T. 0.00 min

Lab File: VN053022.D

Acq: 19 Dec 2018 20:10

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion:119 Resp: 1899743

Ion Ratio Lower Upper

119 100

91 62.5 31.9 95.5

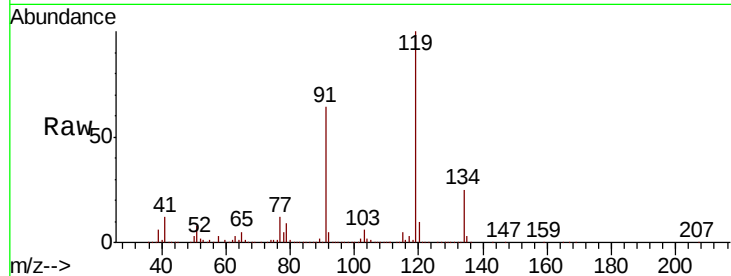
134 25.5 12.8 38.4

Manual Integrations

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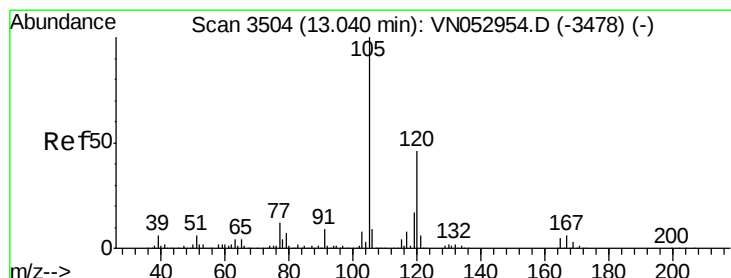
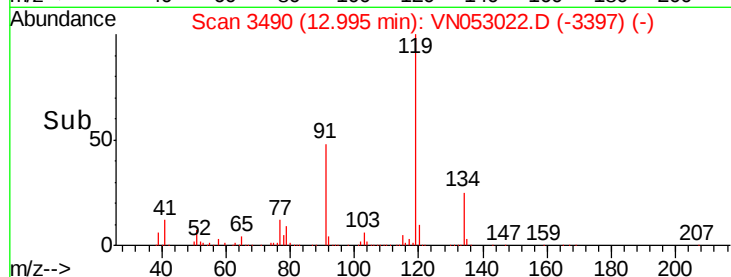
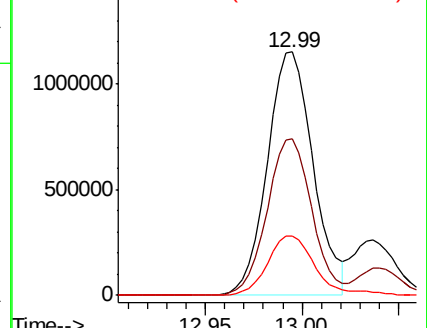
12/20/2018 9:35:16 AM



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): VN

Ion 134.00 (133.70 to 134.70): V



#84

1,2,4-Trimethylbenzene

Concen: 49.356 ug/l

RT: 13.04 min Scan# 3504

Delta R.T. 0.00 min

Lab File: VN053022.D

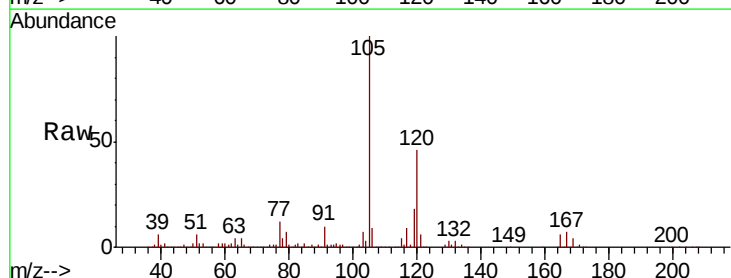
Acq: 19 Dec 2018 20:10

Tgt Ion:105 Resp: 2200753

Ion Ratio Lower Upper

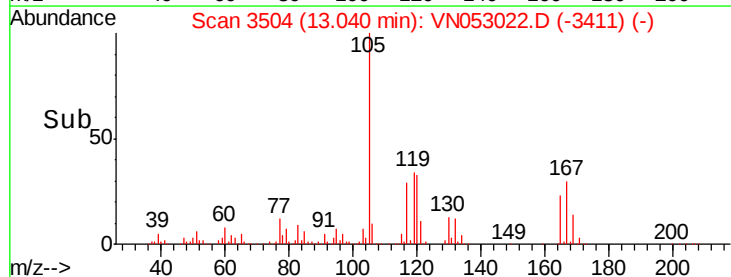
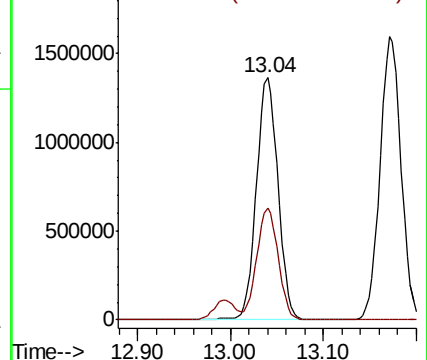
105 100

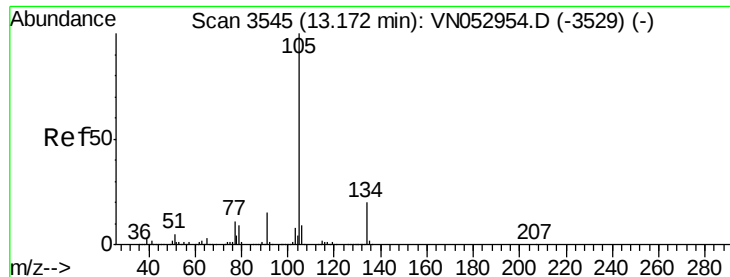
120 45.9 22.9 68.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#85

sec-Butylbenzene

Concen: 47.144 ug/l

RT: 13.17 min Scan# 3545

Delta R.T. 0.00 min

Lab File: VN053022.D

Acq: 19 Dec 2018 20:10

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion:105 Resp: 2501426

Ion Ratio Lower Upper

105 100

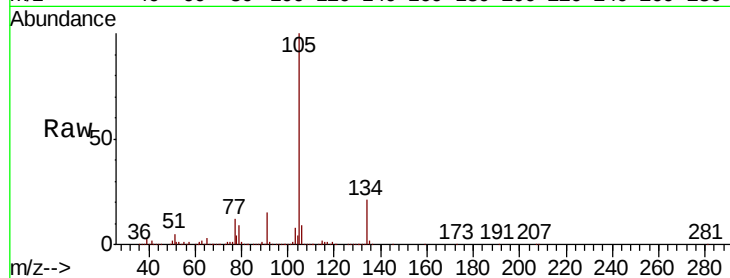
134 20.6 10.1 30.3

Manual Integrations

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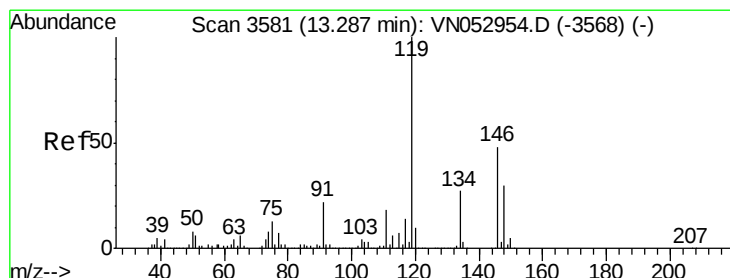
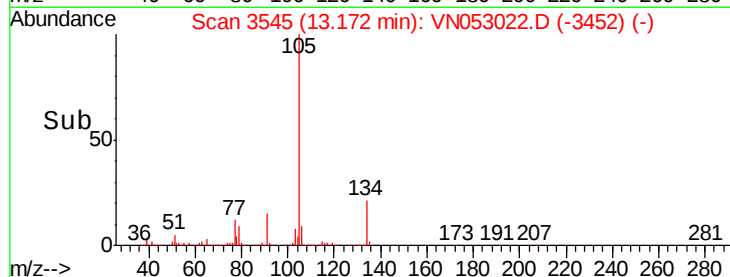
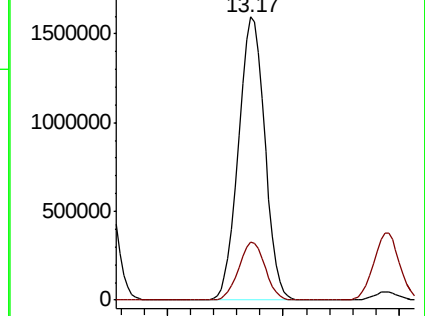
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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 47.590 ug/l

RT: 13.29 min Scan# 3582

Delta R.T. 0.00 min

Lab File: VN053022.D

Acq: 19 Dec 2018 20:10

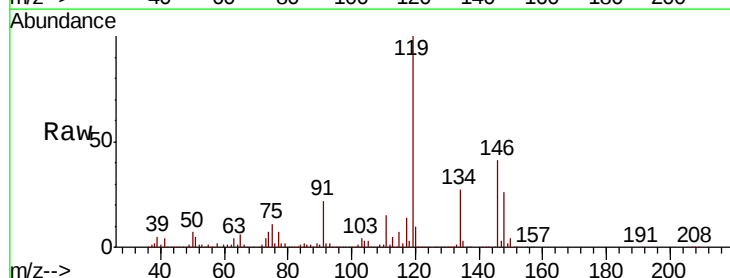
Tgt Ion:119 Resp: 2181920

Ion Ratio Lower Upper

119 100

134 26.9 13.4 40.2

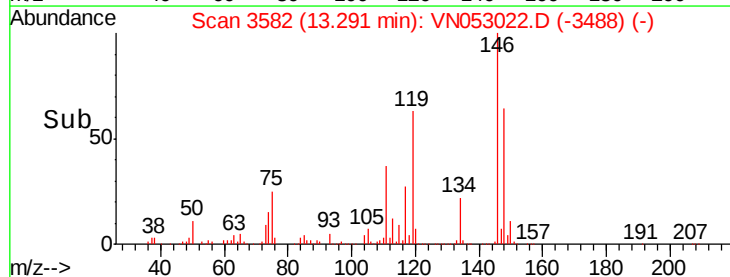
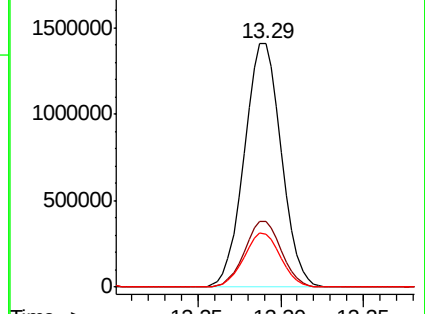
91 21.9 11.1 33.3

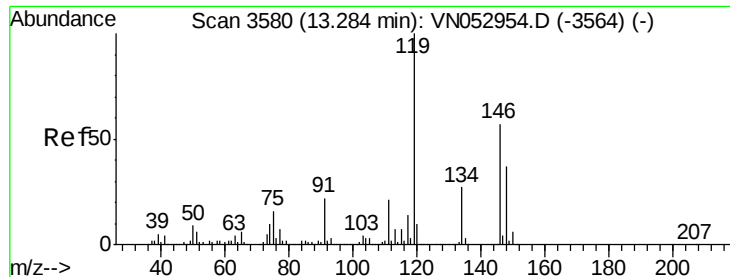


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V





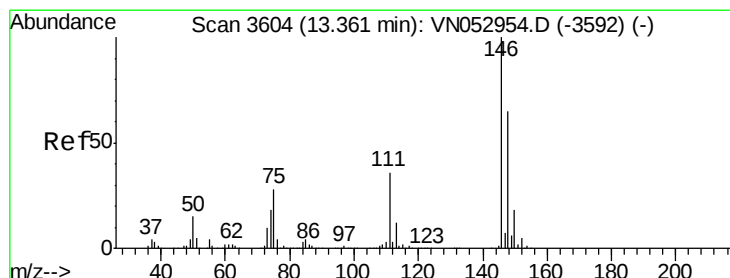
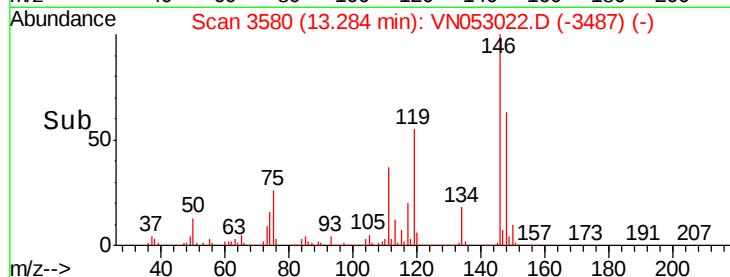
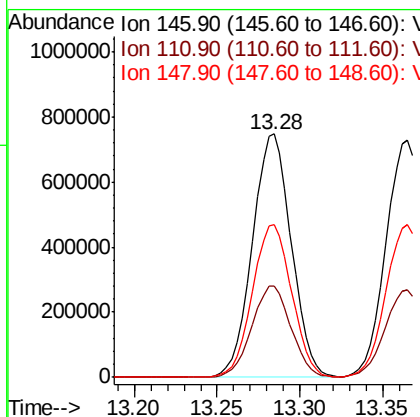
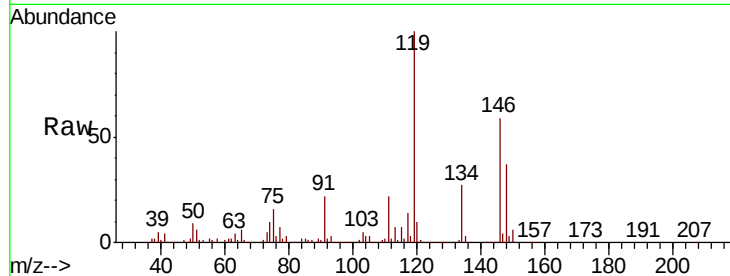
#87
 1,3-Dichlorobenzene
 Concen: 48.658 ug/l
 RT: 13.28 min Scan# 3580
 Delta R.T. 0.00 min
 Lab File: VN053022.D
 Acq: 19 Dec 2018 20:10

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tot Ion:146 Resp: 1218207
 Ion Ratio Lower Upper
 146 100
 111 37.7 19.1 57.1
 148 63.4 32.0 96.0

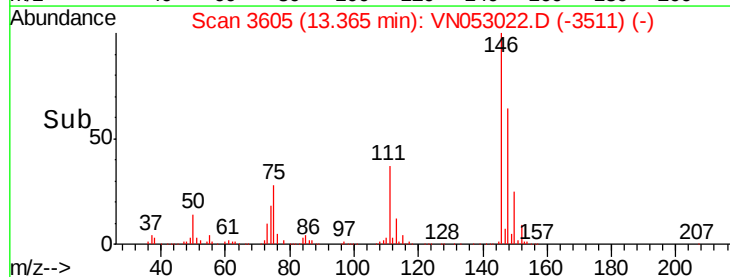
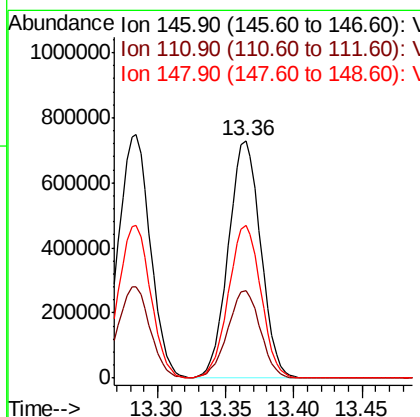
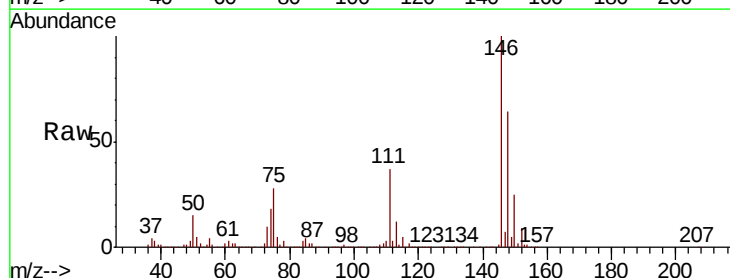
Manual Integrations
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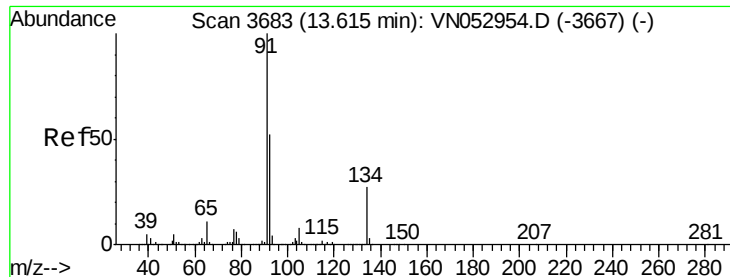
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#88
 1,4-Dichlorobenzene
 Concen: 47.312 ug/l
 RT: 13.36 min Scan# 3605
 Delta R.T. 0.00 min
 Lab File: VN053022.D
 Acq: 19 Dec 2018 20:10

Tgt Ion:146 Resp: 1199537
 Ion Ratio Lower Upper
 146 100
 111 37.2 18.6 55.8
 148 64.6 32.1 96.5





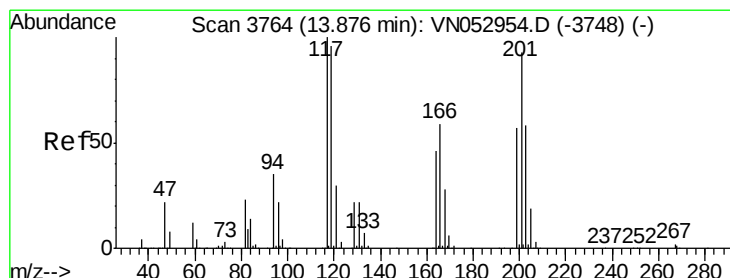
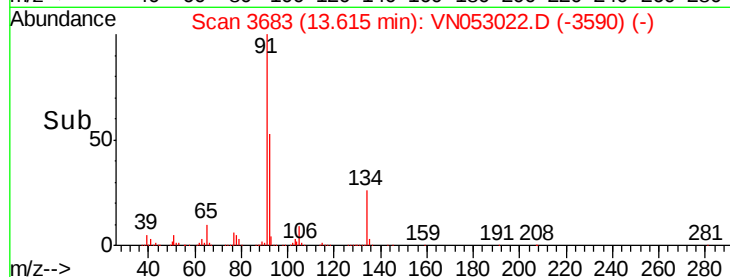
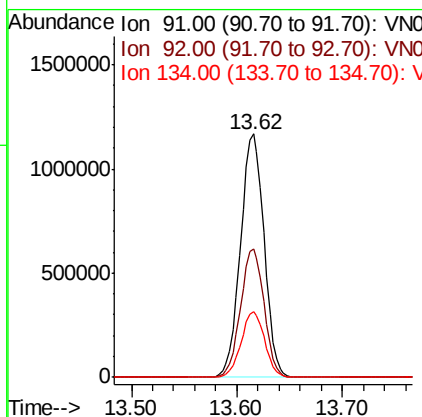
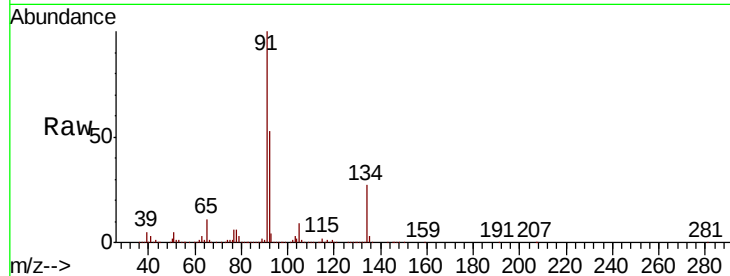
#89
n-Butylbenzene
Concen: 45.832 ug/l
RT: 13.62 min Scan# 3683
Delta R.T. 0.00 min
Lab File: VN053022.D
Acq: 19 Dec 2018 20:10

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion: 91 Resp: 1807788
Ion Ratio Lower Upper
91 100
92 52.6 26.3 78.9
134 26.8 13.3 39.8

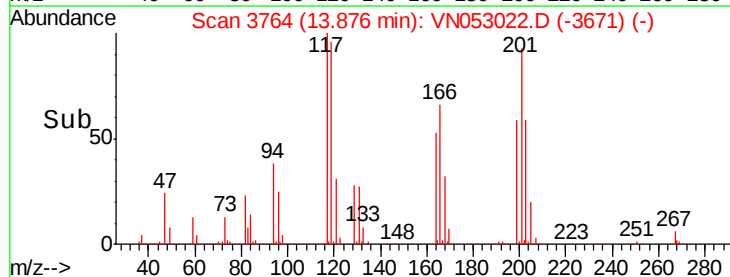
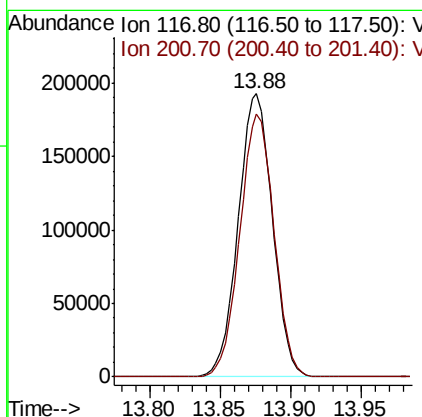
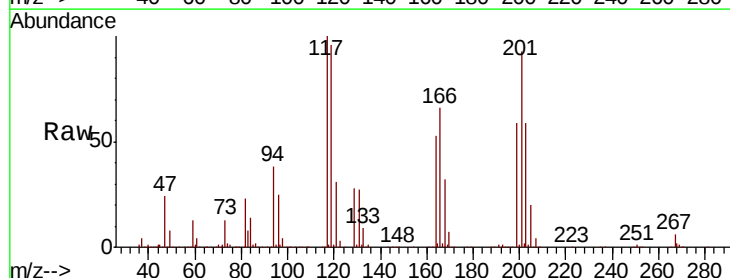
Manual Integrations
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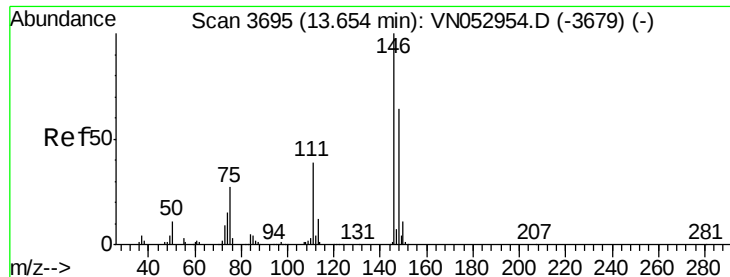
MMDadoda
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#90
Hexachloroethane
Concen: 46.652 ug/l
RT: 13.88 min Scan# 3764
Delta R.T. 0.00 min
Lab File: VN053022.D
Acq: 19 Dec 2018 20:10

Tgt Ion: 117 Resp: 328232
Ion Ratio Lower Upper
117 100
201 92.4 45.7 137.1





#91

1,2-Dichlorobenzene

Concen: 48.617 ug/l

RT: 13.65 min Scan# 3695

Delta R.T. 0.00 min

Lab File: VN053022.D

Acq: 19 Dec 2018 20:10

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion:146 Resp: 1145524

Ion Ratio Lower Upper

146 100

111 39.3 19.7 59.0

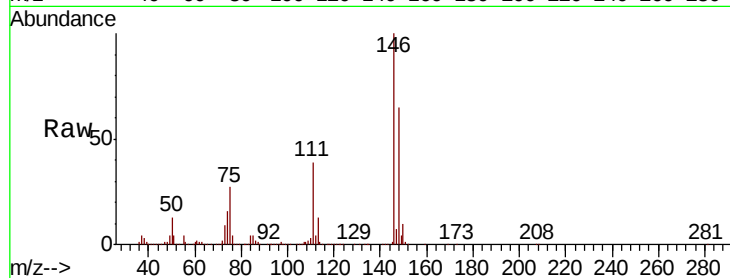
148 64.3 32.0 96.0

Manual Integrations

APPROVED

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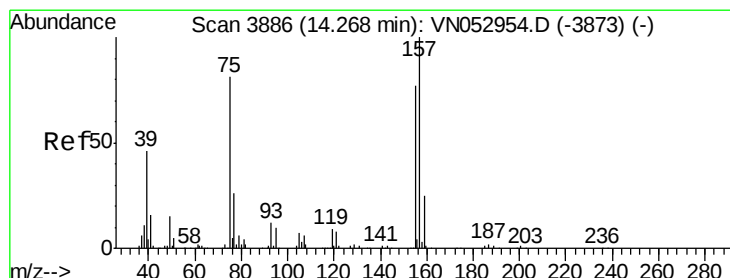
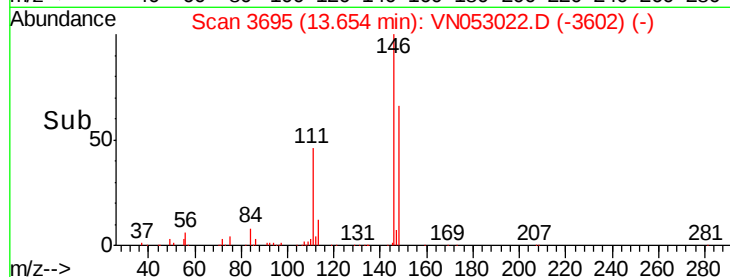
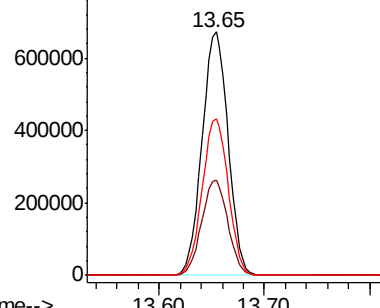
12/20/2018 9:35:16 AM



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 47.121 ug/l

RT: 14.27 min Scan# 3887

Delta R.T. 0.00 min

Lab File: VN053022.D

Acq: 19 Dec 2018 20:10

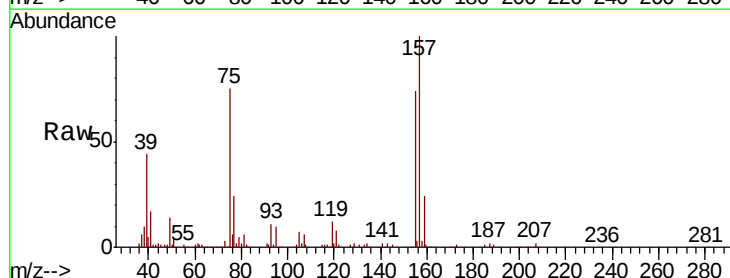
Tgt Ion: 75 Resp: 86983

Ion Ratio Lower Upper

75 100

155 95.9 48.2 144.6

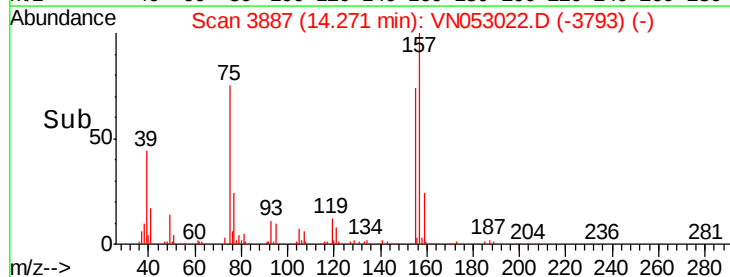
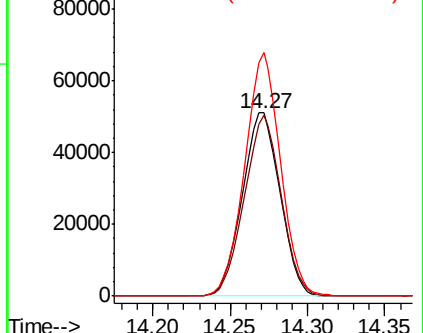
157 125.9 61.2 183.5

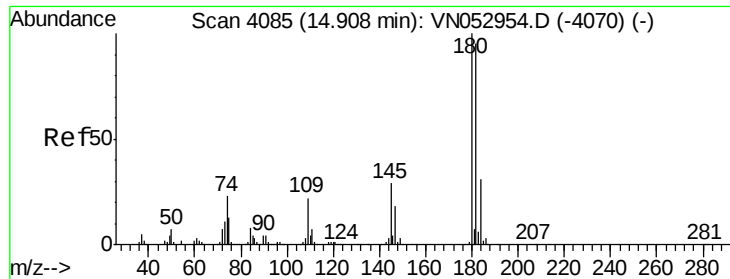


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V





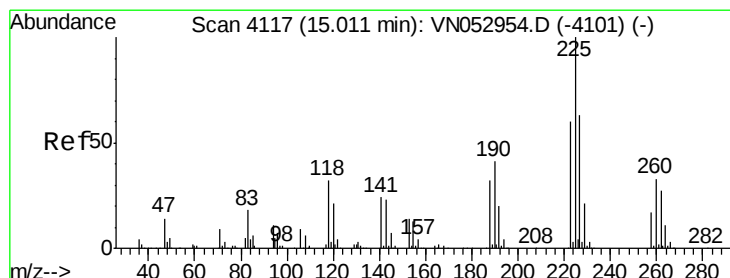
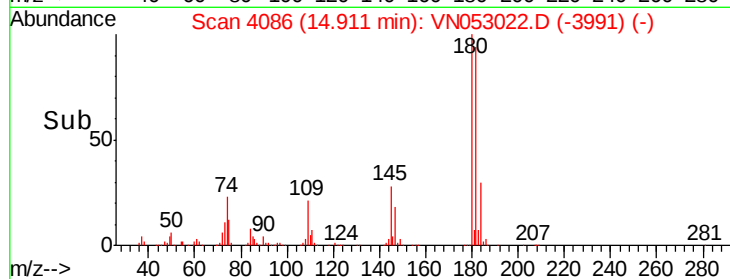
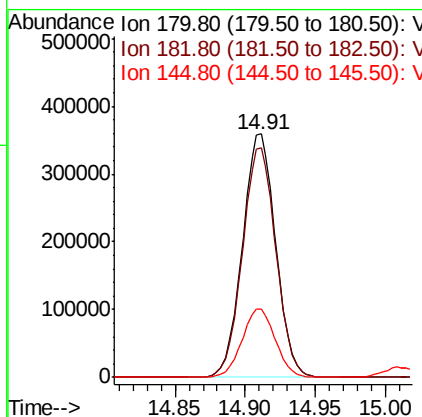
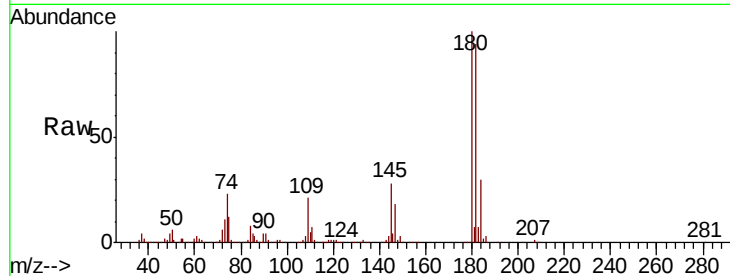
#93
 1,2,4-Trichlorobenzene
 Concen: 47.442 ug/l
 RT: 14.91 min Scan# 4086
 Delta R.T. 0.00 min
 Lab File: VN053022.D
 Acq: 19 Dec 2018 20:10

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Resp	Lower	Upper
180	100	591853		
182	95.1	47.8	143.3	
145	28.0	14.2	42.6	

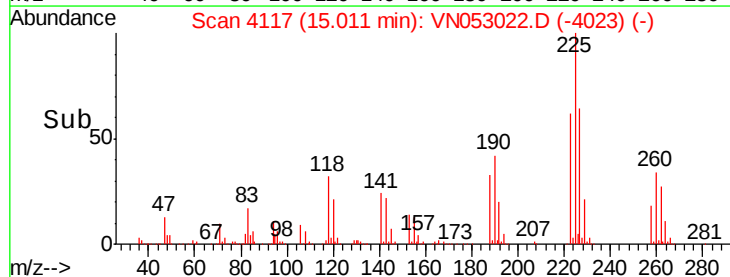
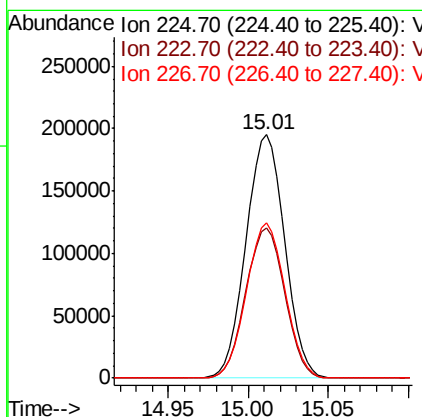
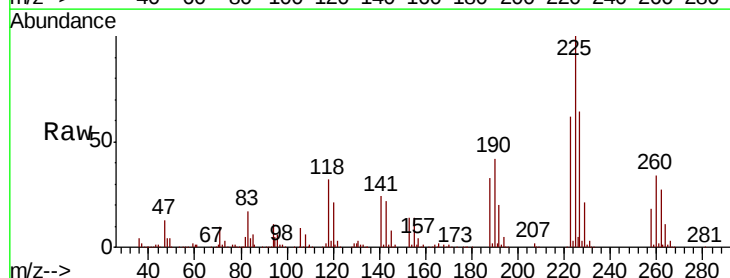
Manual Integrations
 APPROVED

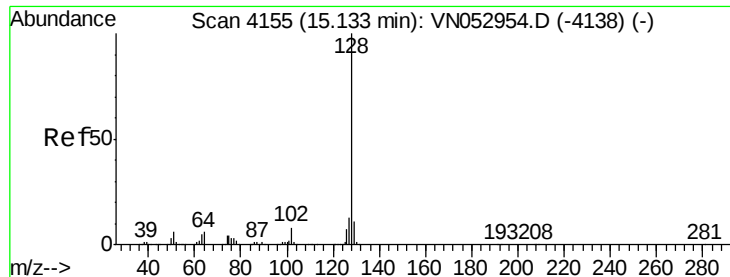
MMDadoda
 12/20/2018 9:35:16 AM



#94
 Hexachlorobutadiene
 Concen: 49.958 ug/l
 RT: 15.01 min Scan# 4117
 Delta R.T. 0.00 min
 Lab File: VN053022.D
 Acq: 19 Dec 2018 20:10

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	322923		
223	62.3	31.5	94.5	
227	63.4	31.9	95.7	





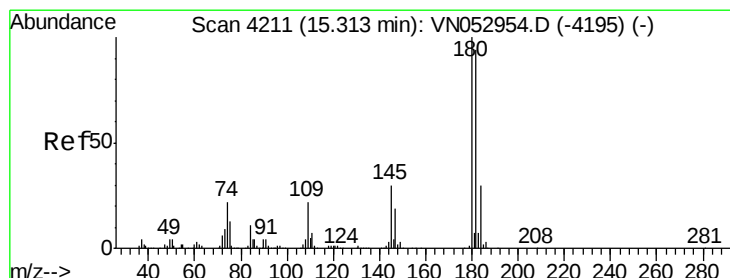
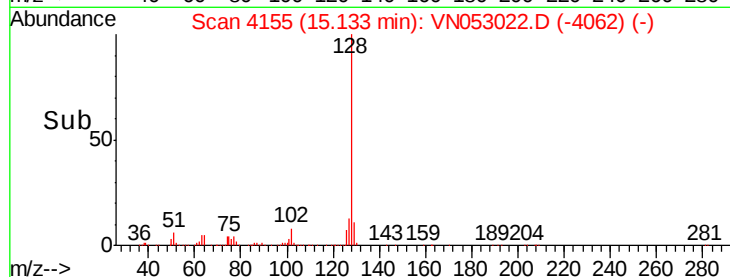
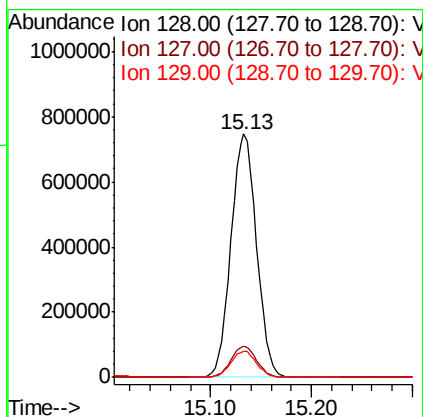
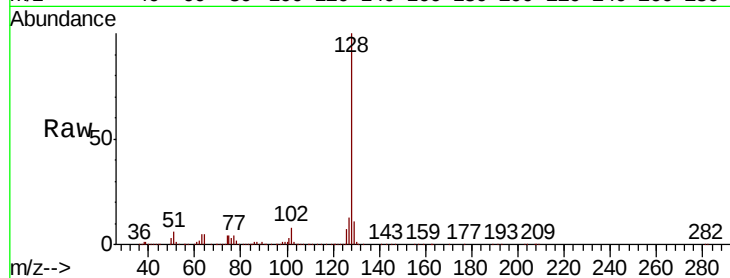
#95
Naphthalene
Concen: 48.170 ug/l
RT: 15.13 min Scan# 4155
Delta R.T. 0.00 min
Lab File: VN053022.D
Acq: 19 Dec 2018 20:10

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.2	15.4
129	10.9	8.6	13.0

Manual Integrations
APPROVED

MMDadoda
12/20/2018 9:35:16 AM



#96
1,2,3-Trichlorobenzene
Concen: 47.430 ug/l
RT: 15.31 min Scan# 4211
Delta R.T. 0.00 min
Lab File: VN053022.D
Acq: 19 Dec 2018 20:10

Tgt Ion	Ratio	Lower	Upper
180	100		
182	94.8	47.9	143.7
145	29.8	15.0	45.0

