

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN021919\
 Data File : VN053856.D
 Acq On : 19 Feb 2019 9:02
 Operator : JC/SP
 Sample : VSTDCCC050
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

MMDadoda
 2/20/2019 10:14:47 AM

Quant Time: Feb 20 03:25:20 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N013019W.M
 Quant Title : SW846 8260
 QLast Update : Fri Feb 01 09:11:52 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	634697	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	915932	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	860834	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	402724	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.02	65	302246	47.47	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.94%	
35) Dibromofluoromethane	7.59	113	309820	53.53	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.06%	
50) Toluene-d8	10.09	98	1097728	50.51	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.02%	
62) 4-Bromofluorobenzene	12.40	95	378746	52.26	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.52%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	298890	41.827	ug/l	99
3) Chloromethane	2.06	50	314537	41.743	ug/l	100
4) Vinyl Chloride	2.19	62	340366	46.532	ug/l	99
5) Bromomethane	2.57	94	231486	48.401	ug/l	99
6) Chloroethane	2.71	64	212421	50.819	ug/l	97
7) Trichlorofluoromethane	3.02	101	490050	49.404	ug/l	99
8) Diethyl Ether	3.41	74	160835	44.398	ug/l	98
9) 1,1,2-Trichlorotrifluoroet	3.76	101	298995	48.739	ug/l	98
10) Methyl Iodide	3.96	142	421157	43.740	ug/l	100
11) Tert butyl alcohol	4.77	59	91416	242.593	ug/l	99
12) 1,1-Dichloroethene	3.74	96	260578	44.335	ug/l	97
13) Acrolein	3.61	56	57653	281.005	ug/l	98
14) Allyl chloride	4.33	41	419460	44.823	ug/l	99
15) Acrylonitrile	4.98	53	494094	242.880	ug/l	99
16) Acetone	3.81	43	547235	335.067	ug/l	98
17) Carbon Disulfide	4.06	76	691954	37.809	ug/l	100
18) Methyl Acetate	4.32	43	256193	52.967	ug/l	98
19) Methyl tert-butyl Ether	5.04	73	732278	49.147	ug/l	100
20) Methylene Chloride	4.55	84	308336	45.000	ug/l	97
21) trans-1,2-Dichloroethene	5.04	96	282441	44.542	ug/l	97
22) Diisopropyl ether	5.95	45	845929	48.785	ug/l	98
23) Vinyl Acetate	5.89	43	2771793	231.070	ug/l	98
24) 1,1-Dichloroethane	5.85	63	540563	46.739	ug/l	100
25) 2-Butanone	6.83	43	639769	274.659	ug/l	97
26) 2,2-Dichloropropane	6.82	77	435190	49.293	ug/l	100
27) cis-1,2-Dichloroethene	6.83	96	341978	48.501	ug/l	97
28) Bromochloromethane	7.19	49	254410	50.690	ug/l	94
29) Tetrahydrofuran	7.21	42	380550	254.425	ug/l	97
30) Chloroform	7.37	83	566778	49.436	ug/l	100
31) Cyclohexane	7.65	56	470033	43.629	ug/l	98
32) 1,1,1-Trichloroethane	7.57	97	473079	49.583	ug/l	99
36) 1,1-Dichloropropene	7.79	75	410171	49.678	ug/l	99
37) Ethyl Acetate	6.93	43	241434	52.357	ug/l	98
38) Carbon Tetrachloride	7.77	117	418814	50.353	ug/l	99

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 Quant Title : SW846 8260
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	475822	48.575	ug/l	99
40) Benzene	8.04	78	1231254	48.358	ug/l	100
41) Methacrylonitrile	7.17	41	116069	45.036	ug/l #	78
42) 1,2-Dichloroethane	8.12	62	362607	47.964	ug/l	100
43) Isopropyl Acetate	8.16	43	403058	45.260	ug/l	97
44) Trichloroethene	8.83	130	343253	47.354	ug/l	97
45) 1,2-Dichloropropane	9.12	63	329865	50.653	ug/l	100
46) Dibromomethane	9.21	93	192119	48.939	ug/l	96
47) Bromodichloromethane	9.40	83	419627	51.410	ug/l	99
48) Methyl methacrylate	9.20	41	196543	46.235	ug/l	89
49) 1,4-Dioxane	9.20	88	62776	1018.405	ug/l #	92
51) 4-Methyl-2-Pentanone	9.98	43	1140173	260.542	ug/l	100
52) Toluene	10.16	92	753102	49.838	ug/l	100
53) t-1,3-Dichloropropene	10.38	75	428912	52.477	ug/l	99
54) cis-1,3-Dichloropropene	9.84	75	493696	50.974	ug/l	97
55) 1,1,2-Trichloroethane	10.56	97	305700	56.142	ug/l	99
56) Ethyl methacrylate	10.43	69	337642	52.416	ug/l	98
57) 1,3-Dichloropropane	10.71	76	503414	54.095	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.69	63	731648	185.287	ug/l	97
59) 2-Hexanone	10.75	43	866358	291.620	ug/l	98
60) Dibromochloromethane	10.90	129	350480	57.078	ug/l	99
61) 1,2-Dibromoethane	11.00	107	283405	52.585	ug/l	99
64) Tetrachloroethene	10.63	164	378645	51.312	ug/l	99
65) Chlorobenzene	11.43	112	903105	49.390	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.51	131	331377	51.892	ug/l	99
67) Ethyl Benzene	11.51	91	1474792	49.100	ug/l	100
68) m/p-Xylenes	11.62	106	1140702	99.504	ug/l	99
69) o-Xylene	11.95	106	541164	48.863	ug/l	97
70) Styrene	11.96	104	889557	49.555	ug/l	99
71) Bromoform	12.13	173	232136	53.023	ug/l #	98
73) Isopropylbenzene	12.25	105	1437821	50.787	ug/l	99
74) N-amyl acetate	12.07	43	325779	47.853	ug/l	97
75) 1,1,2,2-Tetrachloroethane	12.50	83	328029	48.414	ug/l	100
76) 1,2,3-Trichloropropane	12.55	75	308575m	59.654	ug/l	
77) Bromobenzene	12.53	156	381697	50.026	ug/l	96
78) n-propylbenzene	12.59	91	1678512	51.287	ug/l	100
79) 2-Chlorotoluene	12.67	91	977774	50.357	ug/l	99
80) 1,3,5-Trimethylbenzene	12.73	105	1240578	52.843	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.30	75	91599	49.794	ug/l	99
82) 4-Chlorotoluene	12.77	91	993632	49.871	ug/l	99
83) tert-Butylbenzene	12.99	119	1105581	53.283	ug/l	98
84) 1,2,4-Trimethylbenzene	13.04	105	1249936	52.258	ug/l	99
85) sec-Butylbenzene	13.17	105	1503957	53.264	ug/l	99
86) p-Isopropyltoluene	13.29	119	1330649	53.884	ug/l	99
87) 1,3-Dichlorobenzene	13.28	146	692563	50.493	ug/l	99
88) 1,4-Dichlorobenzene	13.36	146	687116	50.643	ug/l	98
89) n-Butylbenzene	13.61	91	1146006	53.615	ug/l	99
90) Hexachloroethane	13.87	117	228592	56.120	ug/l	97
91) 1,2-Dichlorobenzene	13.65	146	676374	51.510	ug/l	100
92) 1,2-Dibromo-3-Chloropropan	14.27	75	48701	50.434	ug/l	99

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VSTDCCC050

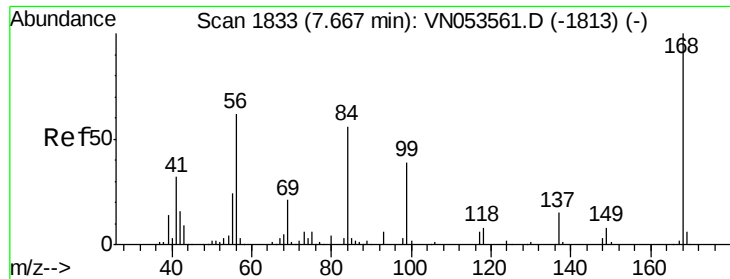
Manual Integrations
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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	391555	51.992	ug/l	100
94) Hexachlorobutadiene	15.01	225	267524	57.041	ug/l	99
95) Naphthalene	15.13	128	712897	40.634	ug/l	100
96) 1,2,3-Trichlorobenzene	15.31	180	366477	52.445	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.00 min

Lab File: VN053856.D

Acq: 19 Feb 2019 9:02

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion:168 Resp: 634697

Ion Ratio Lower Upper

168 100

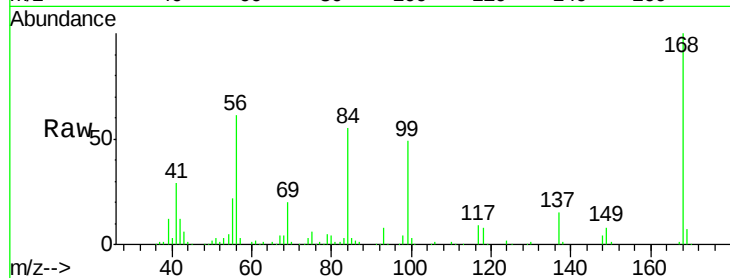
99 47.8 39.1 58.7

Manual Integrations

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.66

250000

200000

150000

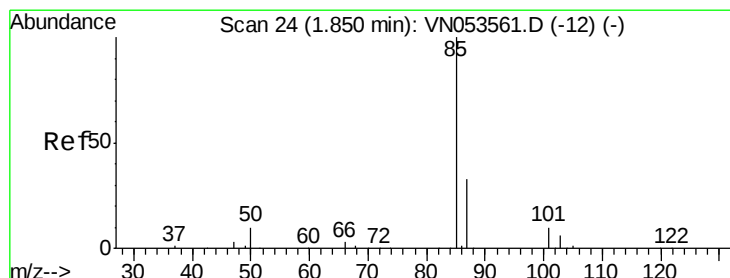
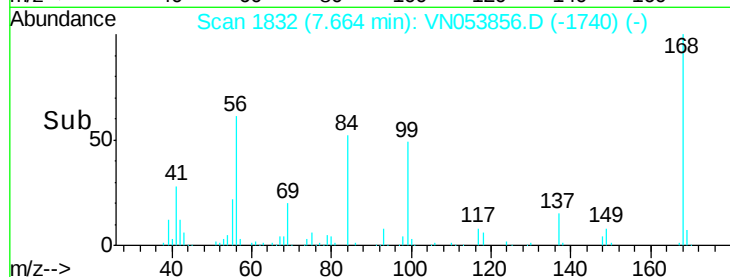
100000

50000

0

7.60 7.70 7.80

Time-->



#2

Dichlorodifluoromethane

Concen: 41.827 ug/l

RT: 1.85 min Scan# 24

Delta R.T. 0.00 min

Lab File: VN053856.D

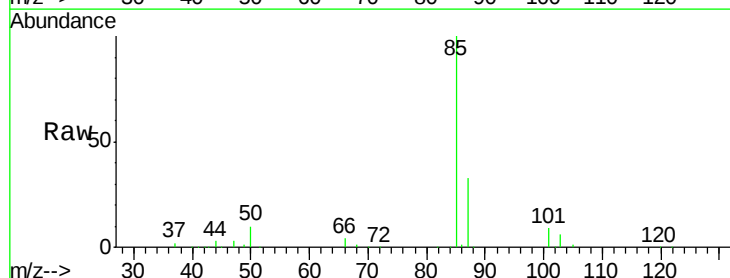
Acq: 19 Feb 2019 9:02

Tgt Ion: 85 Resp: 298890

Ion Ratio Lower Upper

85 100

87 32.7 16.2 48.5



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO

1.85

250000

200000

150000

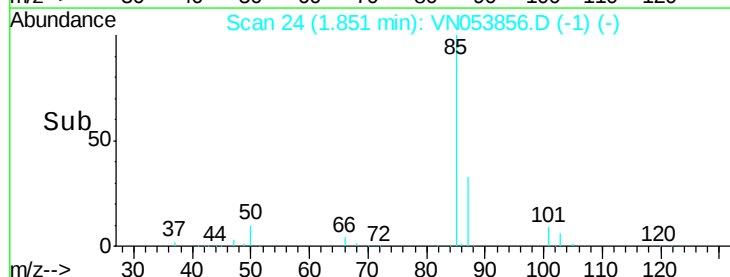
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50000

0

1.80 1.90 2.00

Time-->





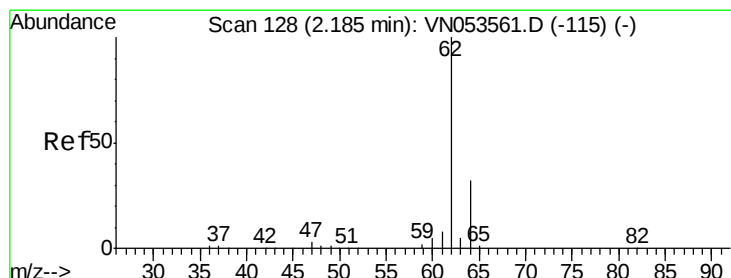
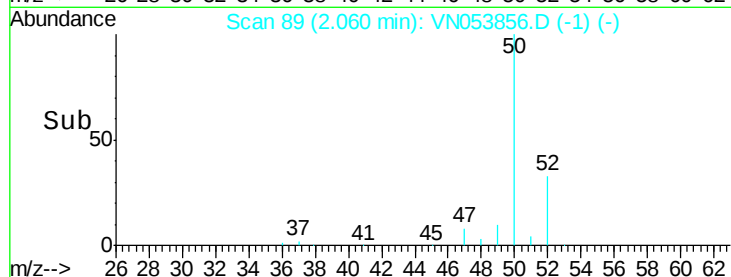
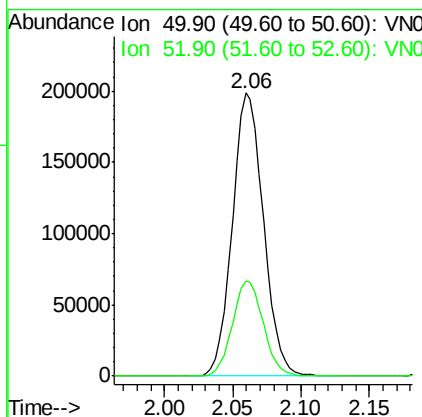
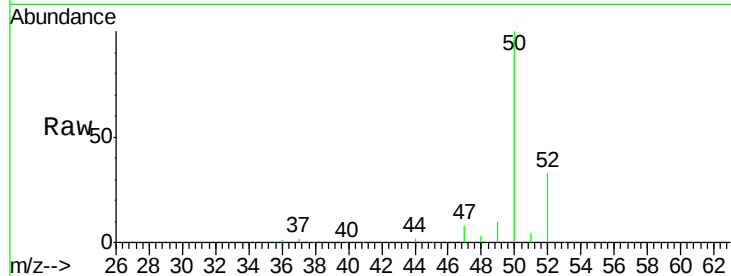
#3
Chloromethane
Concen: 41.743 ug/l
RT: 2.06 min Scan# 89
Delta R.T. 0.00 min
Lab File: VN053856.D
Acq: 19 Feb 2019 9:02

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
50	100		
52	33.5	26.6	40.0

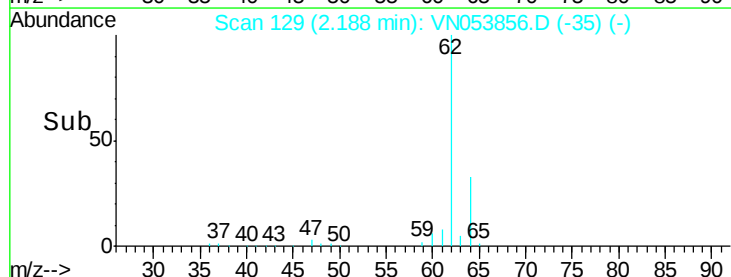
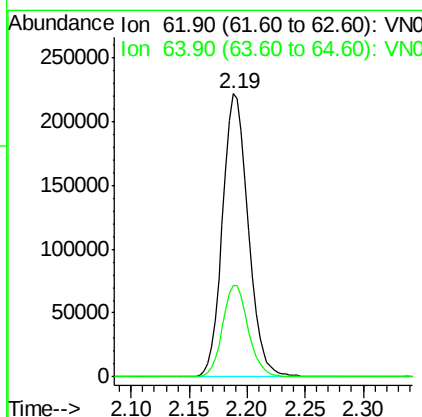
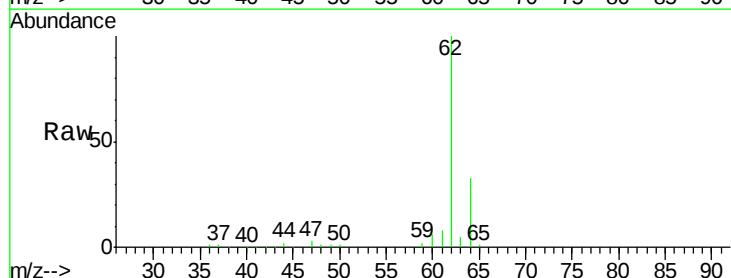
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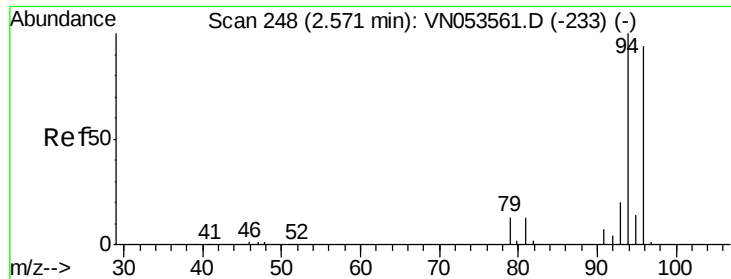
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#4
Vinyl Chloride
Concen: 46.532 ug/l
RT: 2.19 min Scan# 129
Delta R.T. 0.00 min
Lab File: VN053856.D
Acq: 19 Feb 2019 9:02

Tgt Ion	Ratio	Lower	Upper
62	100		
64	32.5	25.4	38.2





#5

Bromomethane

Concen: 48.401 ug/l

RT: 2.57 min Scan# 248

Delta R.T. 0.00 min

Lab File: VN053856.D

Acq: 19 Feb 2019 9:02

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 94 Resp: 231486

Ion Ratio Lower Upper

94 100

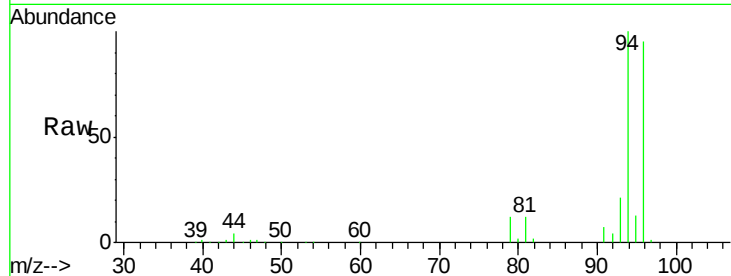
96 94.9 76.8 115.2

Manual Integrations

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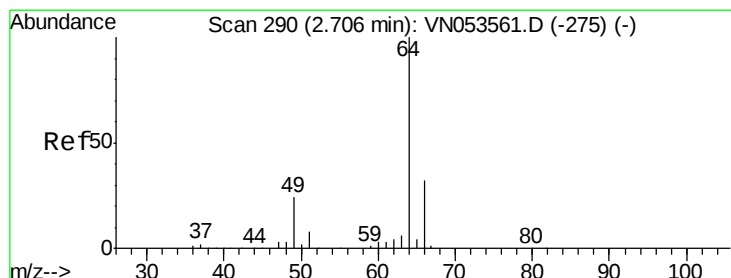
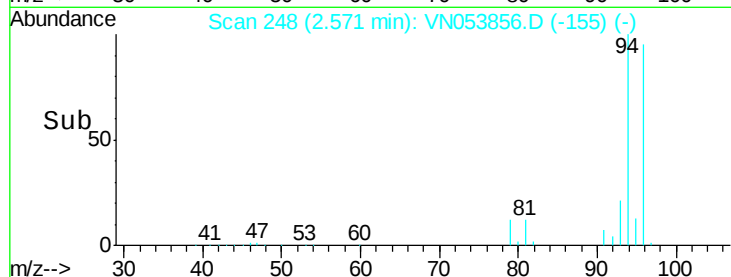
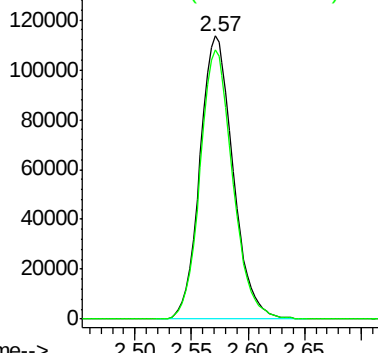
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Abundance Ion 93.90 (93.60 to 94.60): VNC

Ion 95.90 (95.60 to 96.60): VNC



#6

Chloroethane

Concen: 50.819 ug/l

RT: 2.71 min Scan# 291

Delta R.T. 0.00 min

Lab File: VN053856.D

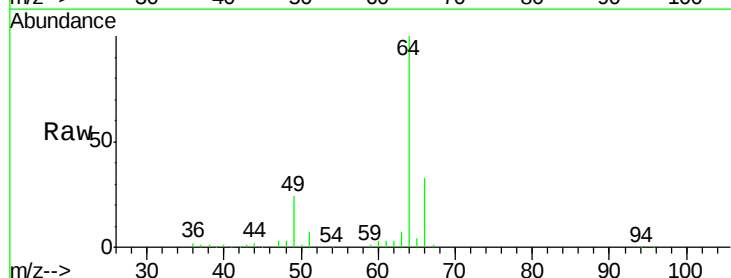
Acq: 19 Feb 2019 9:02

Tgt Ion: 64 Resp: 212421

Ion Ratio Lower Upper

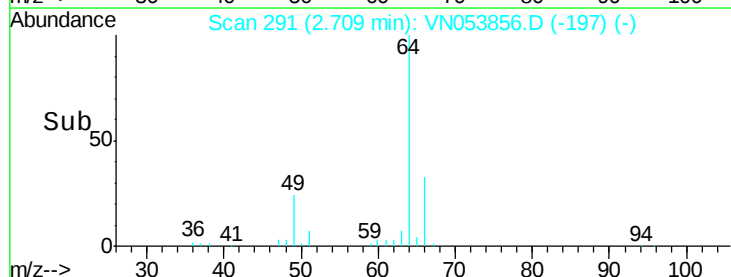
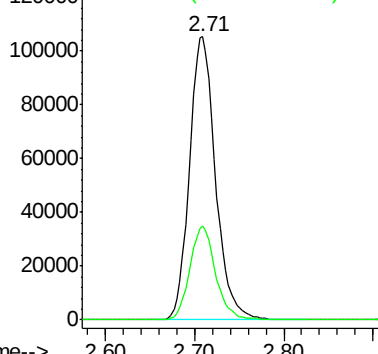
64 100

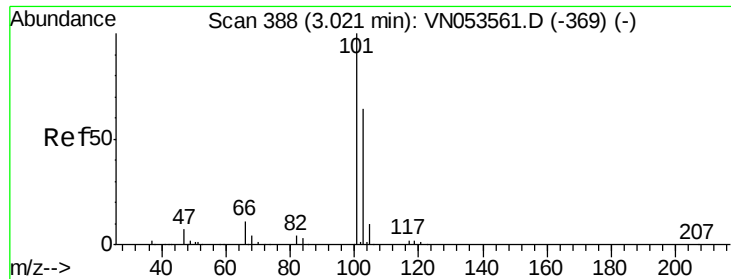
66 33.2 25.1 37.7



Abundance Ion 63.90 (63.60 to 64.60): VNC

Ion 65.90 (65.60 to 66.60): VNC





#7

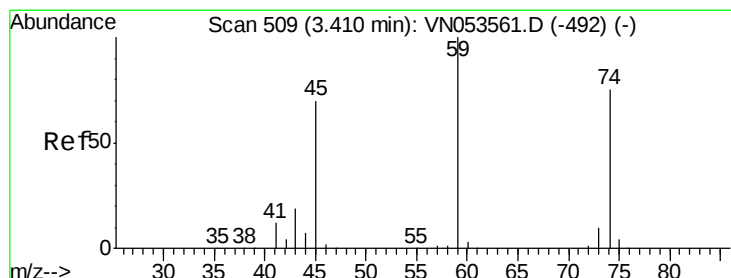
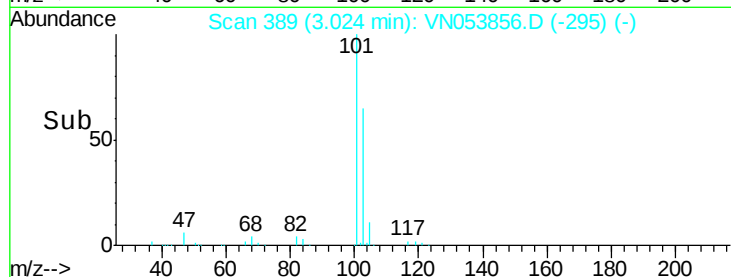
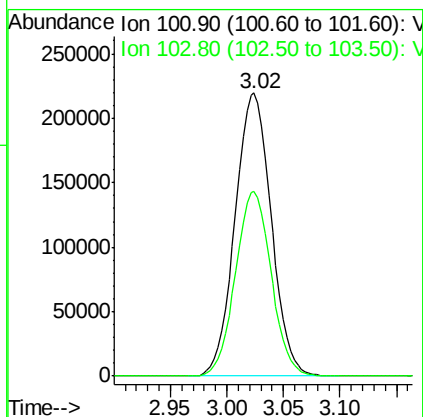
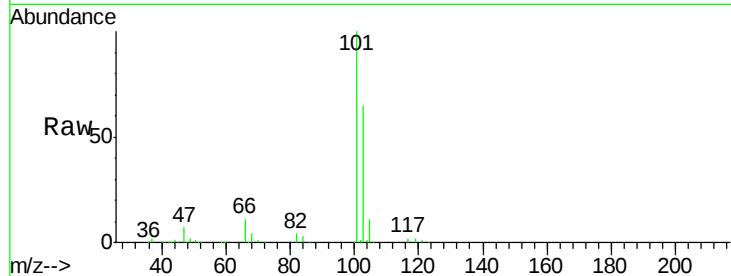
Trichlorofluoromethane
Concen: 49.404 ug/l
RT: 3.02 min Scan# 389
Delta R.T. 0.00 min
Lab File: VN053856.D
Acq: 19 Feb 2019 9:02

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
101	100		
103	65.5	51.6	77.4

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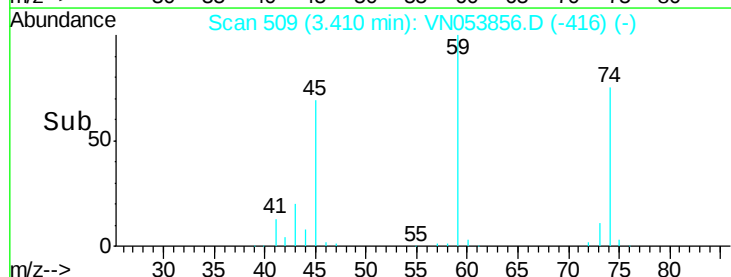
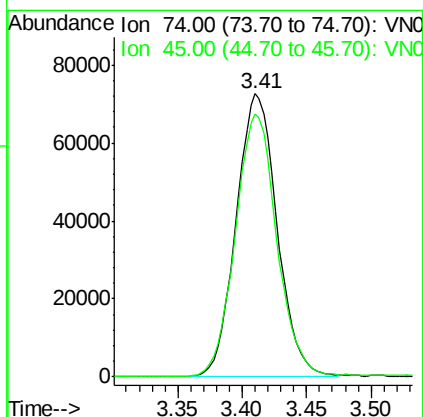
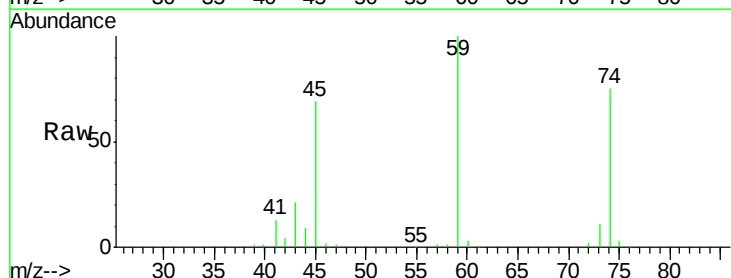
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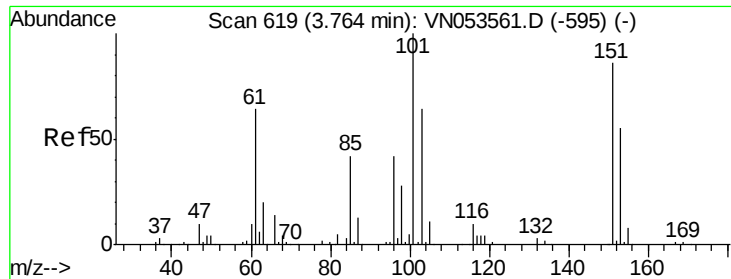


#8

Diethyl Ether
Concen: 44.398 ug/l
RT: 3.41 min Scan# 509
Delta R.T. 0.00 min
Lab File: VN053856.D
Acq: 19 Feb 2019 9:02

Tgt Ion	Ratio	Lower	Upper
74	100		
45	94.1	47.9	143.7





#9

1,1,2-Trichlorotrifluoroethane

Concen: 48.739 ug/l

RT: 3.76 min Scan# 619

Delta R.T. 0.00 min

Lab File: VN053856.D

Acq: 19 Feb 2019 9:02

Instrument :

MSVOA_N

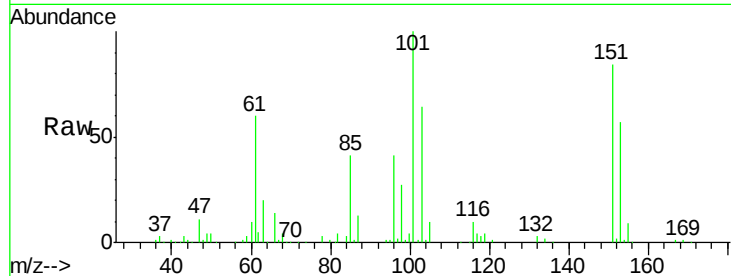
ClientSampleId :

VSTDCCC050

Tot Ion:	101	Resp:	298995
Ion Ratio	Lower	Upper	
101	100		
85	40.9	32.8	49.2
151	86.4	66.9	100.3

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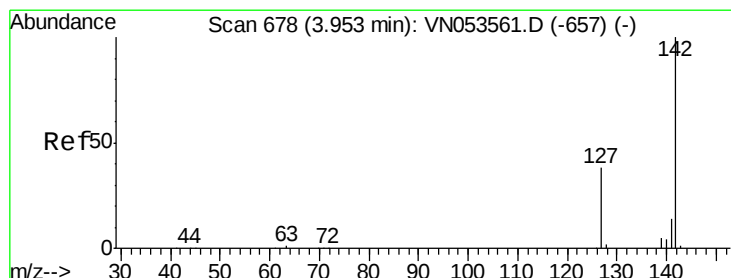
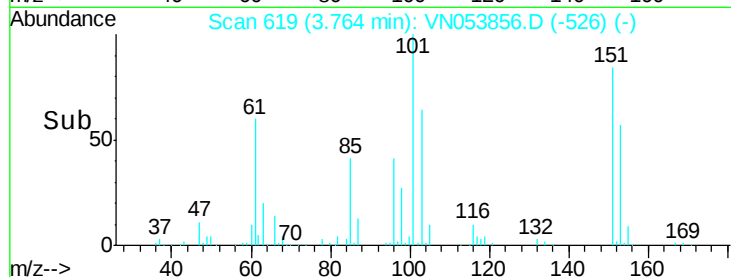
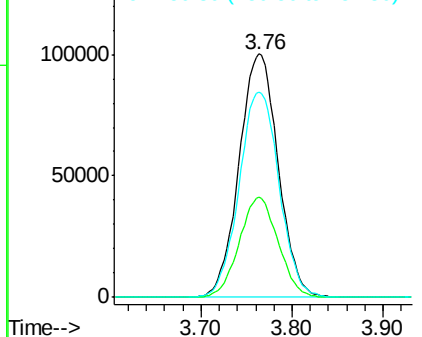
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Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VN

Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 43.740 ug/l

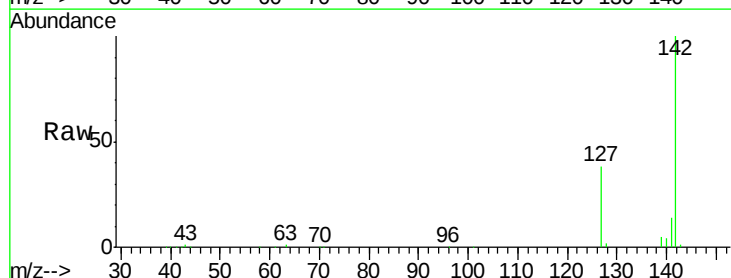
RT: 3.96 min Scan# 679

Delta R.T. 0.00 min

Lab File: VN053856.D

Acq: 19 Feb 2019 9:02

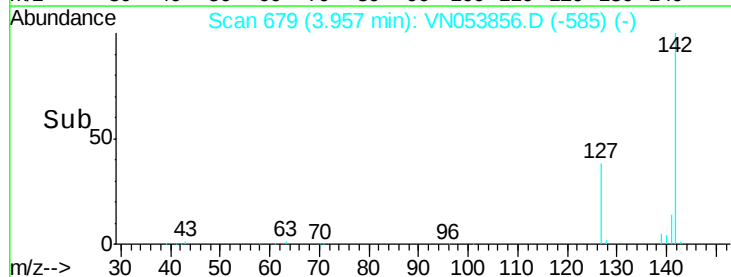
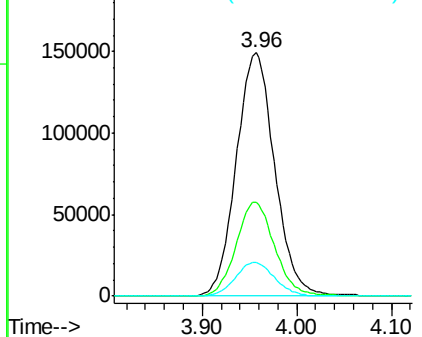
Tgt Ion:	142	Resp:	421157
Ion Ratio	Lower	Upper	
142	100		
127	38.8	31.0	46.4
141	14.2	11.1	16.7

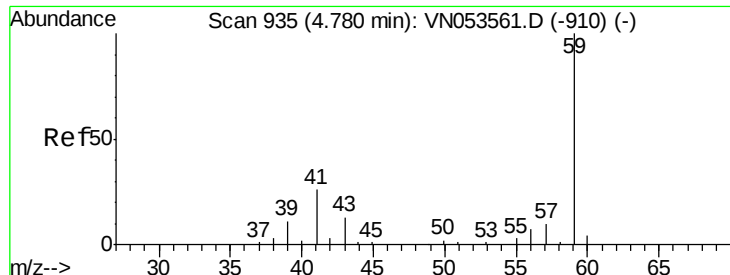


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V





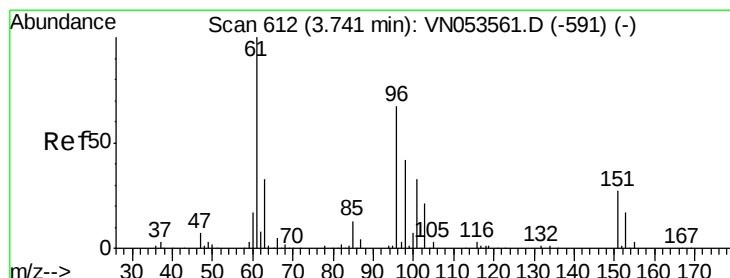
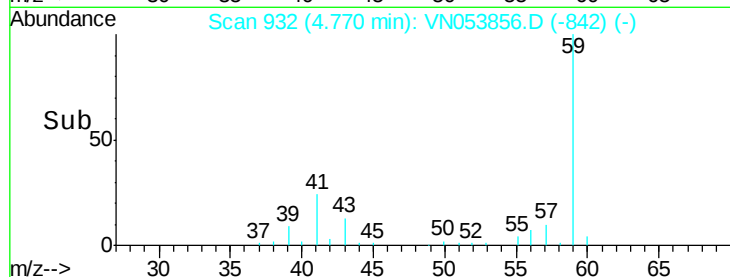
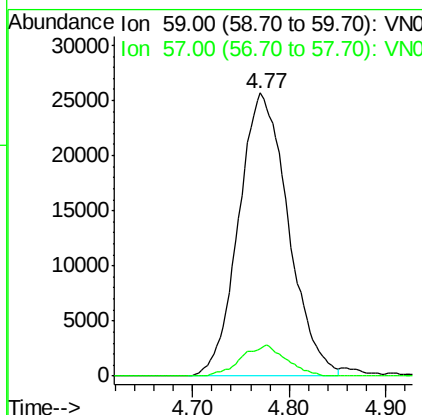
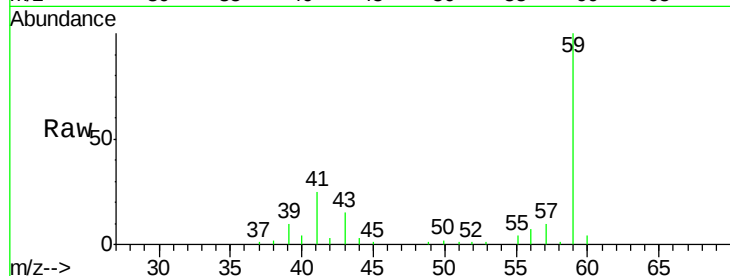
#11
Tert butyl alcohol
Concen: 242.593 ug/l
RT: 4.77 min Scan# 932
Delta R.T. -0.01 min
Lab File: VN053856.D
Acq: 19 Feb 2019 9:02

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
59	100		
57	10.0	8.2	12.4

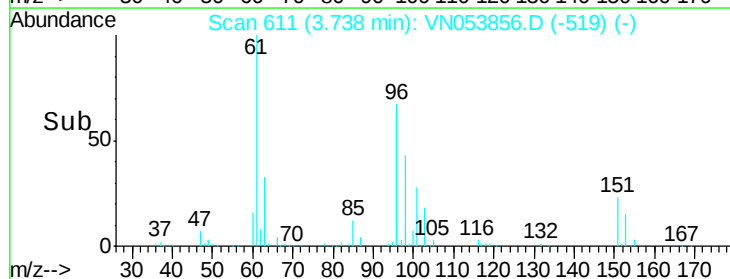
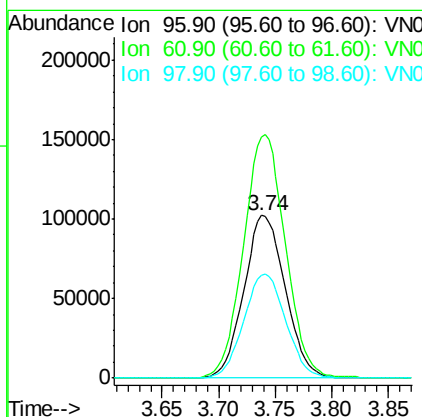
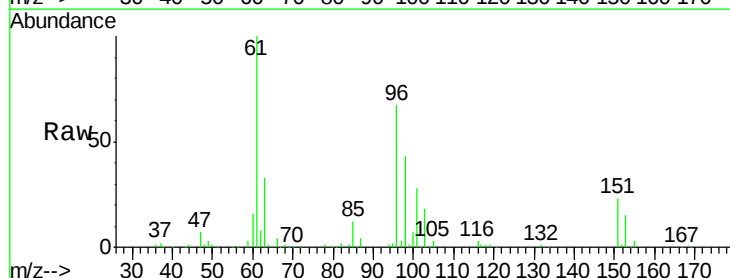
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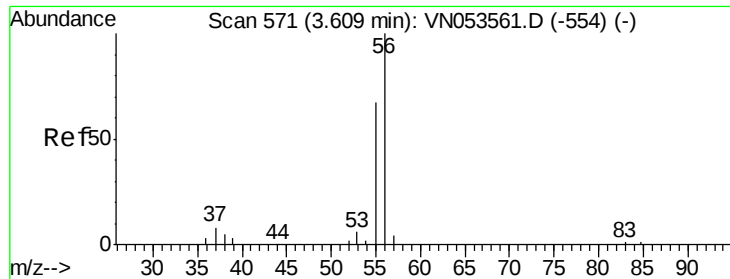
MMDadoda
2/20/2019 10:14:47 AM



#12
1,1-Dichloroethene
Concen: 44.335 ug/l
RT: 3.74 min Scan# 611
Delta R.T. -0.00 min
Lab File: VN053856.D
Acq: 19 Feb 2019 9:02

Tgt Ion	Ratio	Lower	Upper
96	100		
61	148.4	122.9	184.3
98	63.1	49.4	74.0





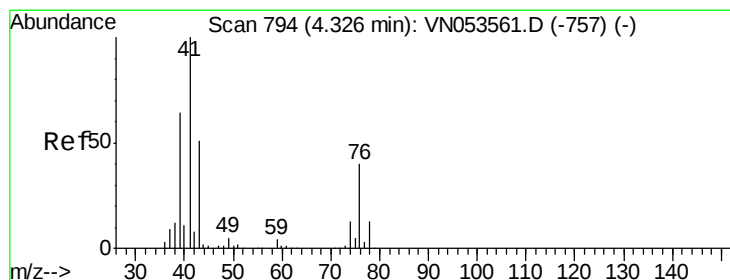
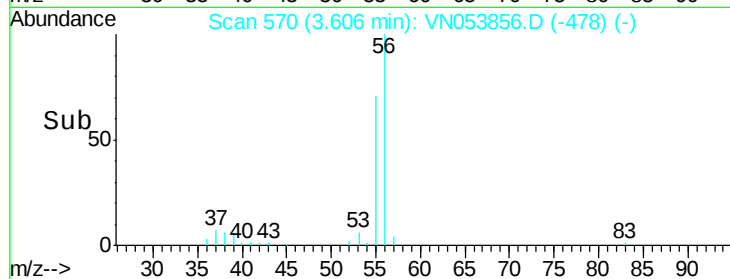
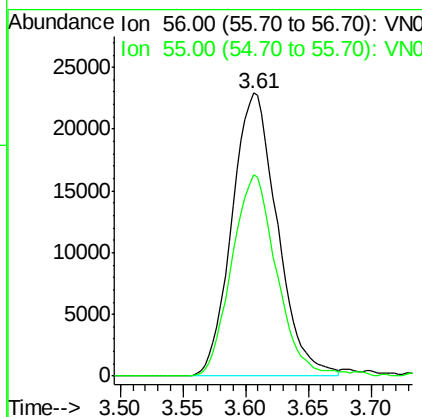
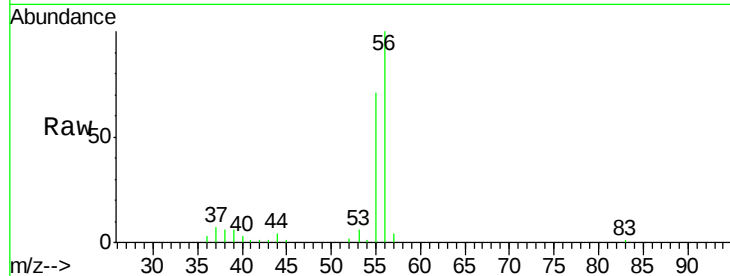
#13
Acrolein
Concen: 281.005 ug/l
RT: 3.61 min Scan# 570
Delta R.T. -0.00 min
Lab File: VN053856.D
Acq: 19 Feb 2019 9:02

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ion	Ratio	Lower	Upper
56	100			
55	70.2	57.4	86.0	

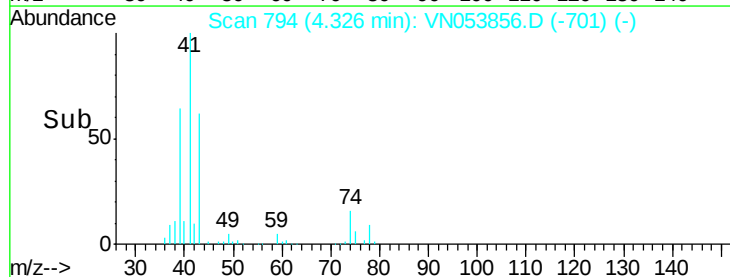
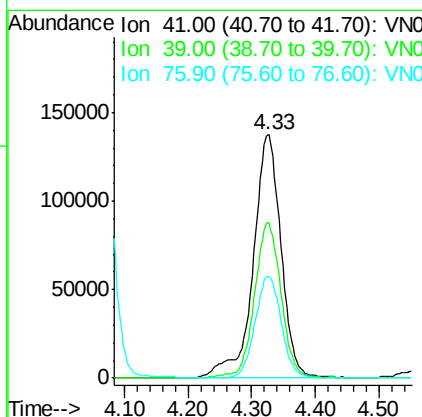
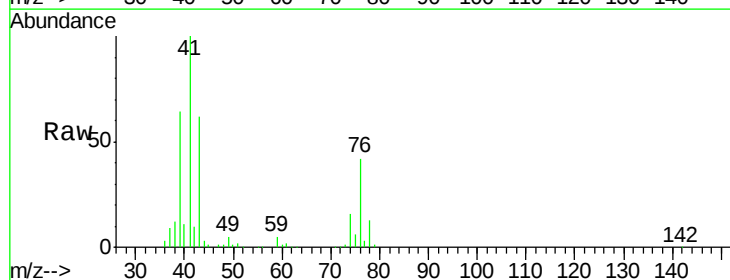
Manual Integrations
APPROVED

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2/20/2019 10:14:47 AM



#14
Allyl chloride
Concen: 44.823 ug/l
RT: 4.33 min Scan# 794
Delta R.T. 0.00 min
Lab File: VN053856.D
Acq: 19 Feb 2019 9:02

Tgt Ion	Ion	Ratio	Lower	Upper
41	100			
39	60.8	48.9	73.3	
76	38.6	29.4	44.2	





#15

Acrylonitrile

Concen: 242.880 ug/l

RT: 4.98 min Scan# 998

Delta R.T. -0.00 min

Lab File: VN053856.D

Acq: 19 Feb 2019 9:02

Instrument :

MSVOA_N

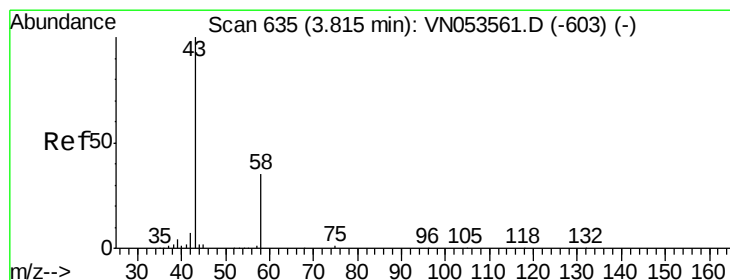
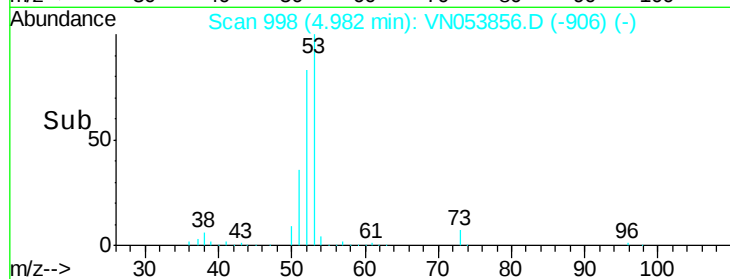
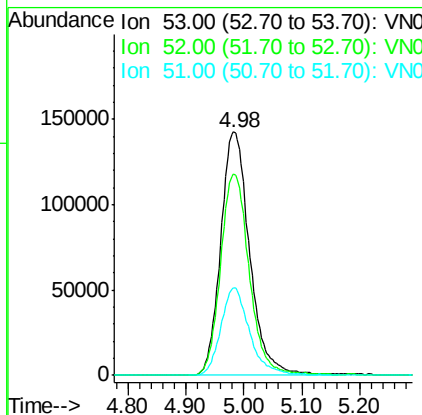
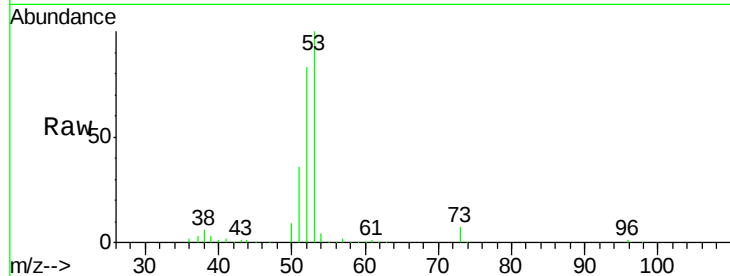
ClientSampleId :

VSTDCCC050

Tot Ion:	53	Resp:	494094
Ion Ratio	Lower	Upper	
53	100		
52	81.5	66.0	99.0
51	35.9	28.3	42.5

Manual Integrations
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#16

Acetone

Concen: 335.067 ug/l

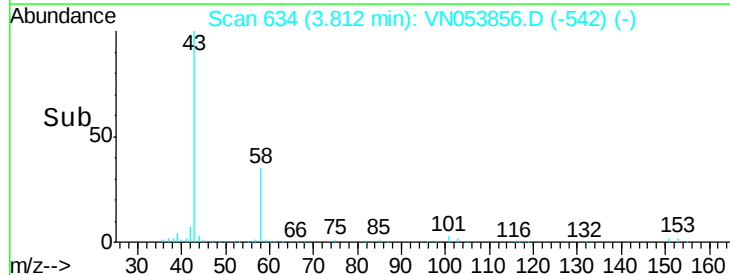
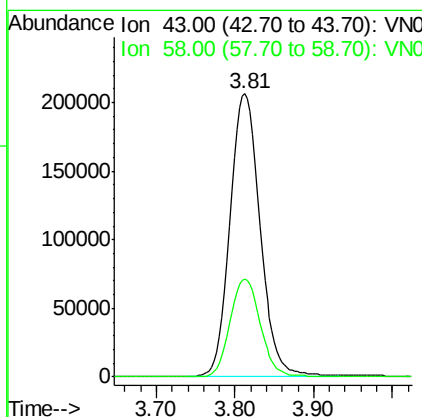
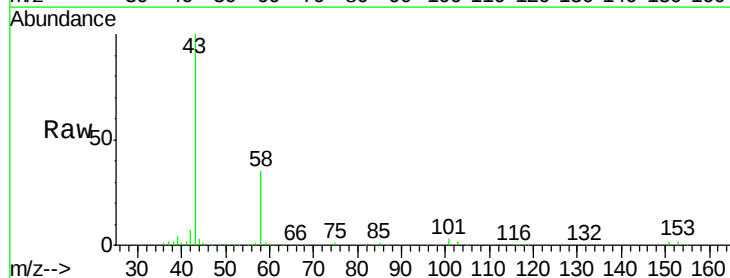
RT: 3.81 min Scan# 634

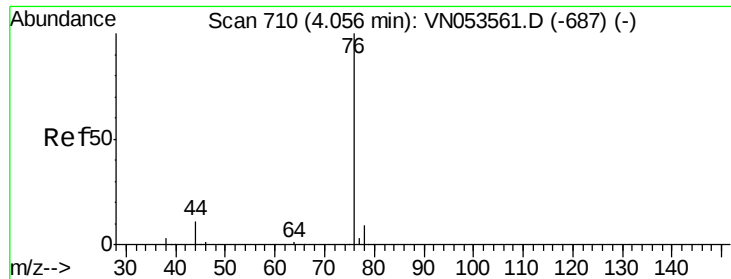
Delta R.T. -0.00 min

Lab File: VN053856.D

Acq: 19 Feb 2019 9:02

Tgt Ion:	43	Resp:	547235
Ion Ratio	Lower	Upper	
43	100		
58	34.8	27.1	40.7





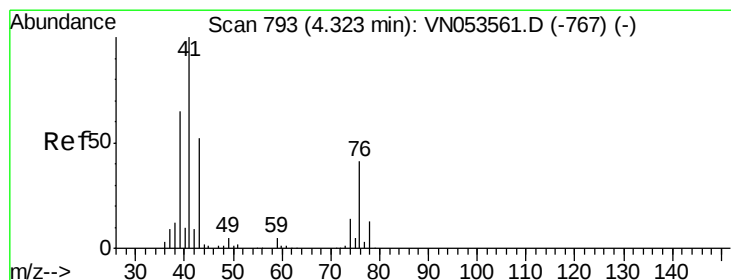
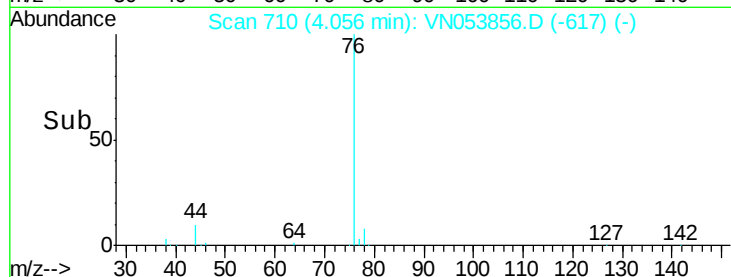
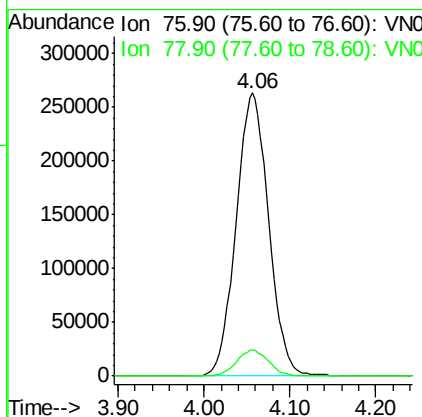
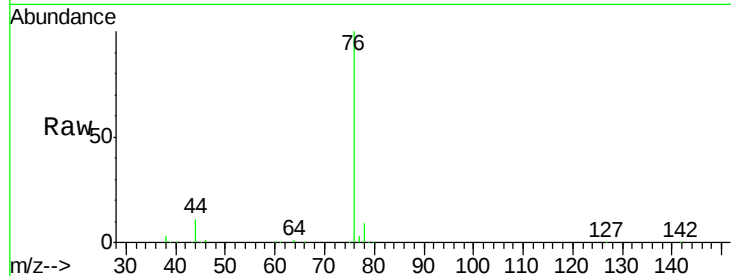
#17
Carbon Disulfide
Concen: 37.809 ug/l
RT: 4.06 min Scan# 710
Delta R.T. 0.00 min
Lab File: VN053856.D
Acq: 19 Feb 2019 9:02

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
76	100		
78	9.3	7.3	10.9

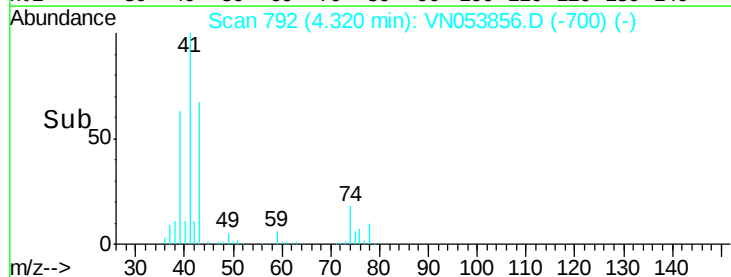
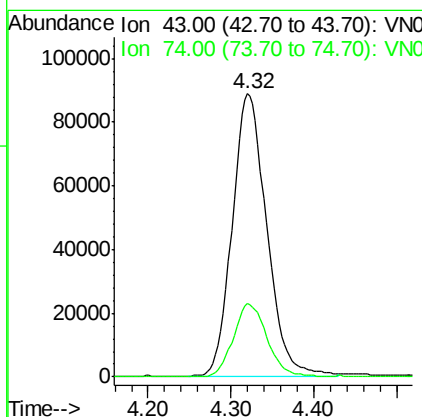
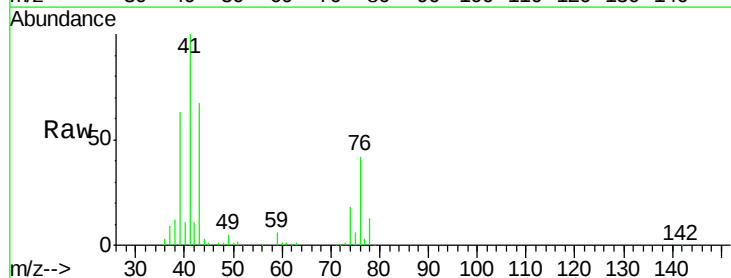
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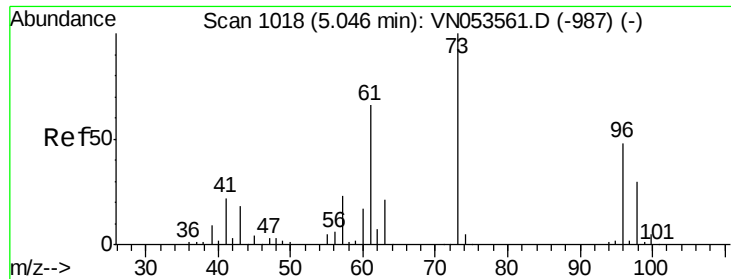
MMDadoda
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#18
Methyl Acetate
Concen: 52.967 ug/l
RT: 4.32 min Scan# 792
Delta R.T. -0.00 min
Lab File: VN053856.D
Acq: 19 Feb 2019 9:02

Tgt Ion	Ratio	Lower	Upper
43	100		
74	25.5	19.4	29.2





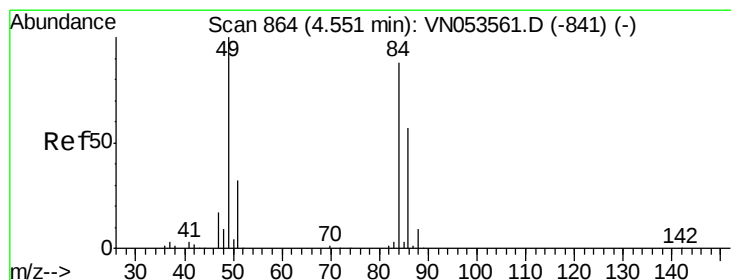
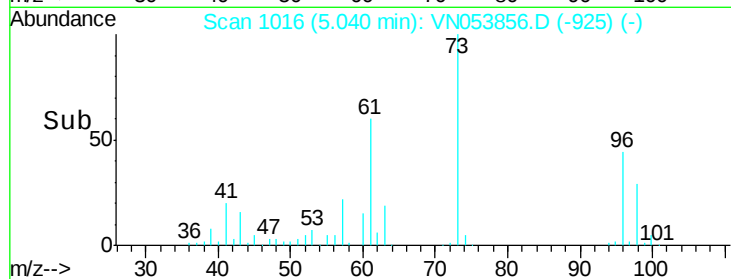
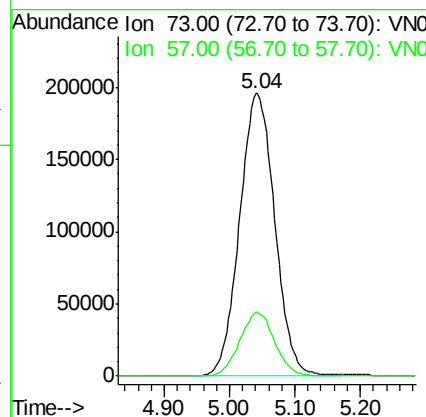
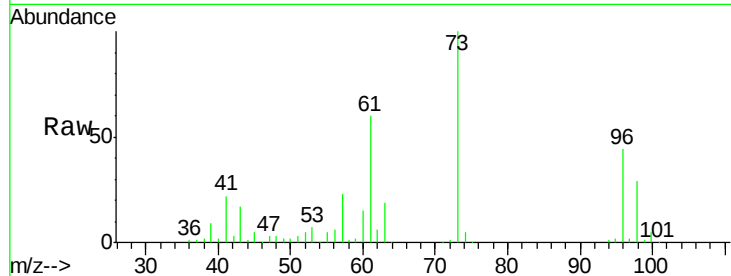
#19
Methvl tert-butvl Ether
Concen: 49.147 ug/l
RT: 5.04 min Scan# 1016
Delta R.T. -0.01 min
Lab File: VN053856.D
Acq: 19 Feb 2019 9:02

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
73	100		
57	22.7	18.3	27.5

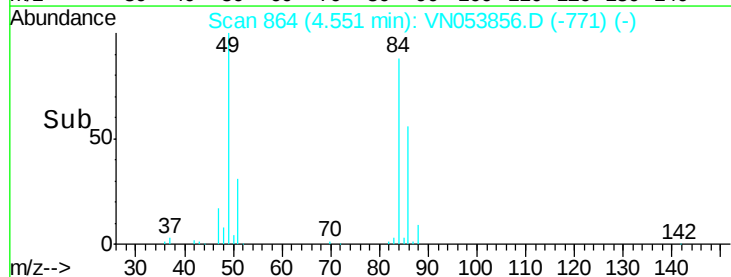
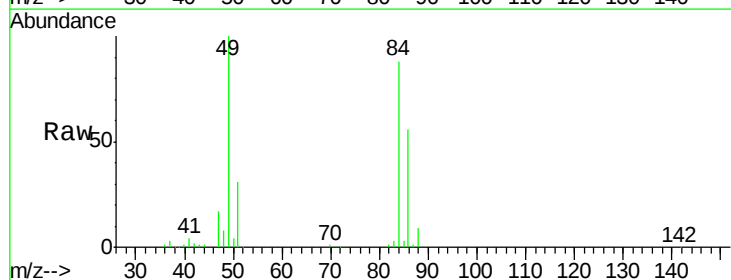
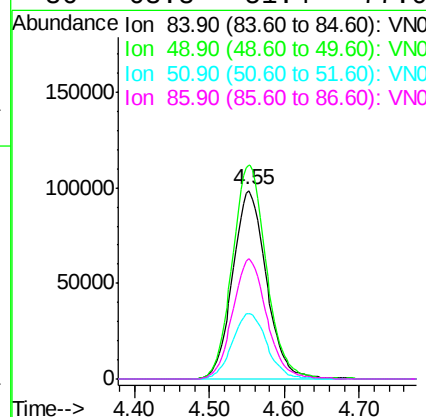
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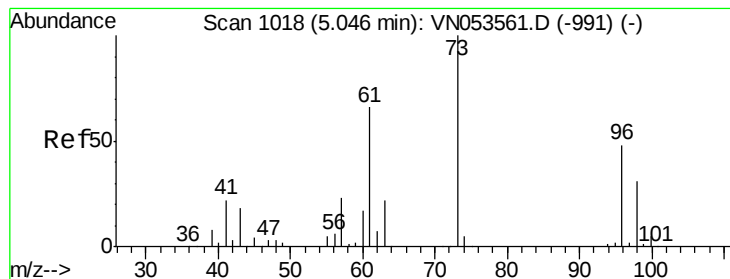
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#20
Methylene Chloride
Concen: 45.000 ug/l
RT: 4.55 min Scan# 864
Delta R.T. 0.00 min
Lab File: VN053856.D
Acq: 19 Feb 2019 9:02

Tgt Ion	Ratio	Lower	Upper
84	100		
49	113.5	94.3	141.5
51	35.0	29.4	44.2
86	63.8	51.4	77.0





#21

trans-1,2-Dichloroethene

Concen: 44.542 ug/l

RT: 5.04 min Scan# 1017

Delta R.T. -0.00 min

Lab File: VN053856.D

Acq: 19 Feb 2019 9:02

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 96 Resp: 282441

Ion Ratio Lower Upper

96 100

61 134.7 110.1 165.1

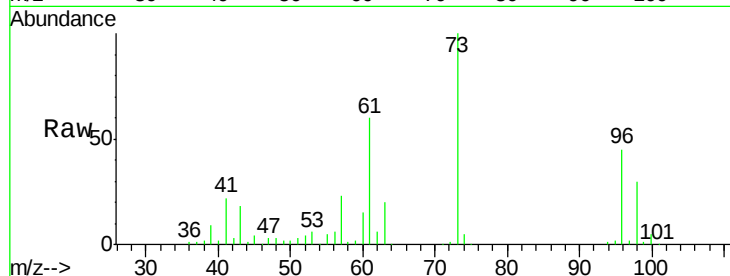
98 66.3 50.0 75.0

Manual Integrations

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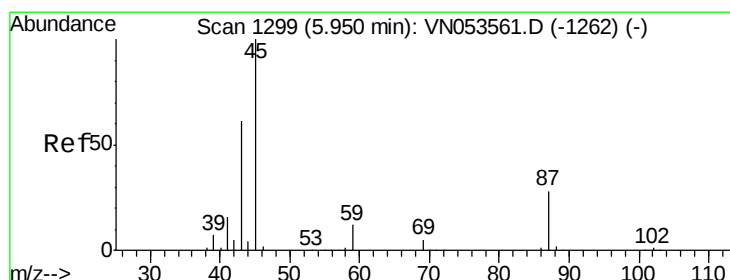
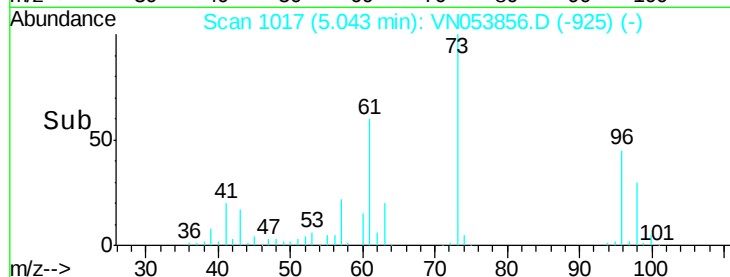
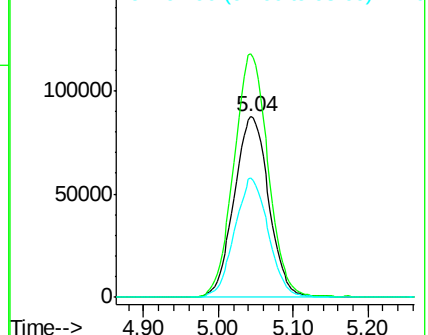


Abundance

Ion 95.90 (95.60 to 96.60): VNC

Ion 60.90 (60.60 to 61.60): VNC

Ion 97.90 (97.60 to 98.60): VNC



#22

Diisopropyl ether

Concen: 48.785 ug/l

RT: 5.95 min Scan# 1299

Delta R.T. 0.00 min

Lab File: VN053856.D

Acq: 19 Feb 2019 9:02

Tgt Ion: 45 Resp: 845929

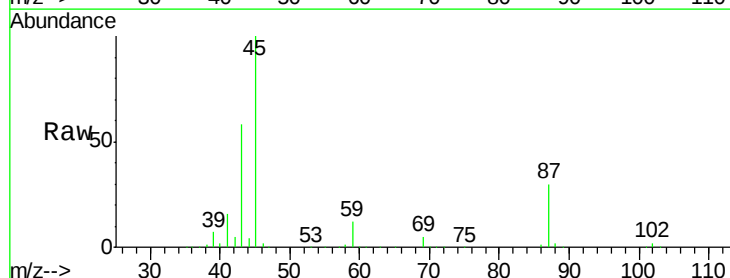
Ion Ratio Lower Upper

45 100

43 57.5 44.2 66.4

87 29.0 22.7 34.1

59 12.3 9.4 14.2



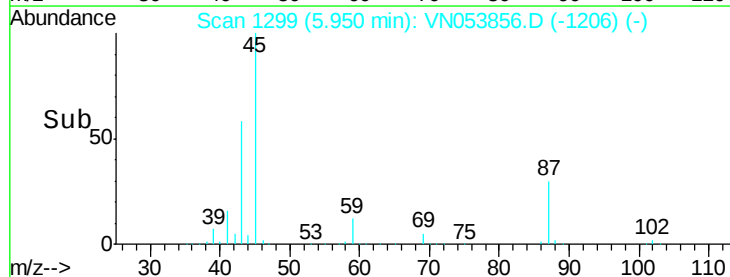
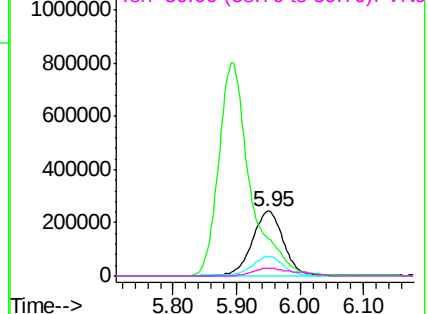
Abundance

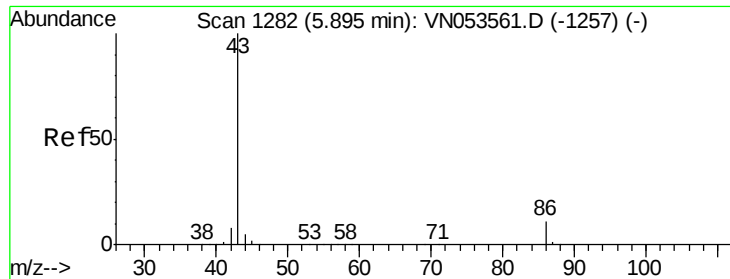
Ion 45.00 (44.70 to 45.70): VNC

Ion 43.00 (42.70 to 43.70): VNC

Ion 87.00 (86.70 to 87.70): VNC

Ion 59.00 (58.70 to 59.70): VNC





#23

Vinyl Acetate

Concen: 231.070 ug/l

RT: 5.89 min Scan# 1281

Delta R.T. -0.00 min

Lab File: VN053856.D

Acq: 19 Feb 2019 9:02

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 2771793

Ion Ratio Lower Upper

43 100

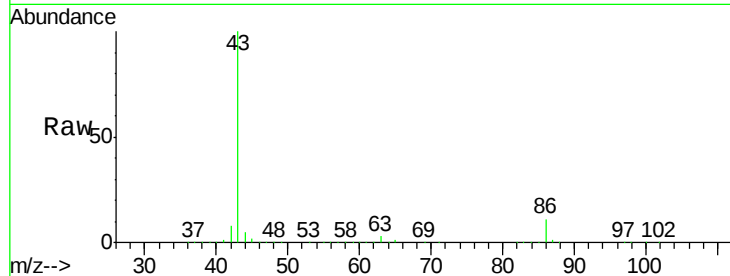
86 11.2 8.4 12.6

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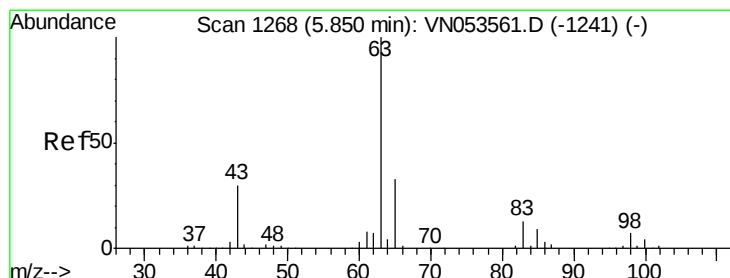
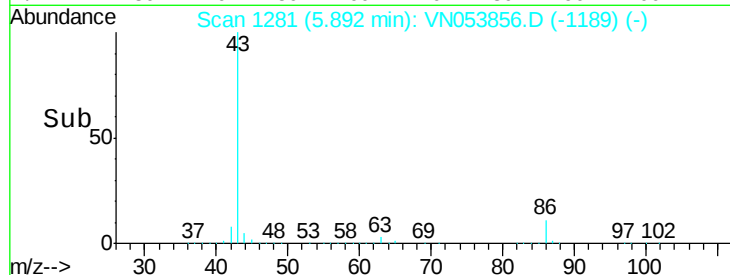
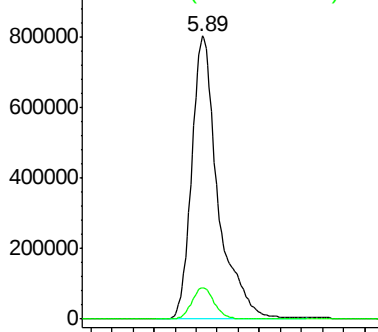
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Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 86.00 (85.70 to 86.70): VN0



#24

1,1-Dichloroethane

Concen: 46.739 ug/l

RT: 5.85 min Scan# 1268

Delta R.T. 0.00 min

Lab File: VN053856.D

Acq: 19 Feb 2019 9:02

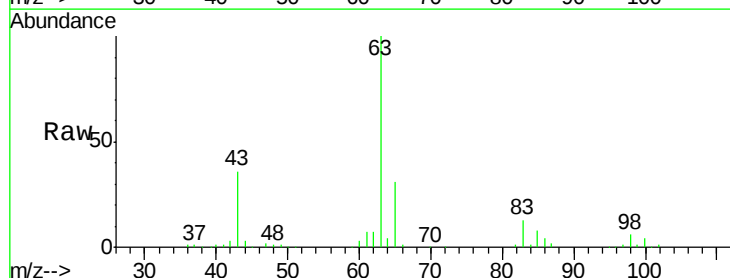
Tgt Ion: 63 Resp: 540563

Ion Ratio Lower Upper

63 100

98 6.4 3.3 9.9

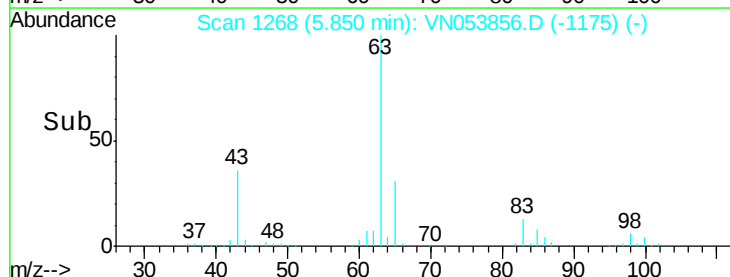
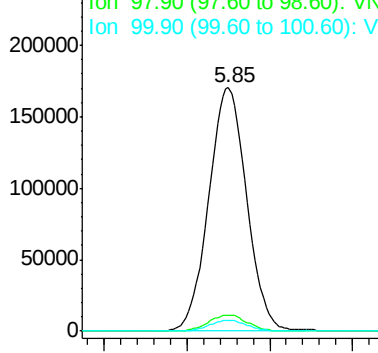
100 4.4 2.1 6.5



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 97.90 (97.60 to 98.60): VN0

Ion 99.90 (99.60 to 100.60): VN0





#25

2-Butanone

Concen: 274.659 ug/l

RT: 6.83 min Scan# 1573

Delta R.T. -0.00 min

Lab File: VN053856.D

Acq: 19 Feb 2019 9:02

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 639769

Ion Ratio Lower Upper

43 100

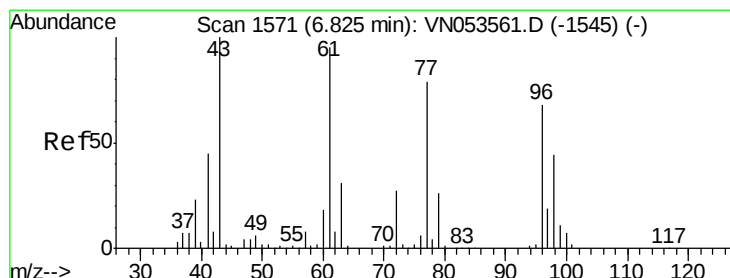
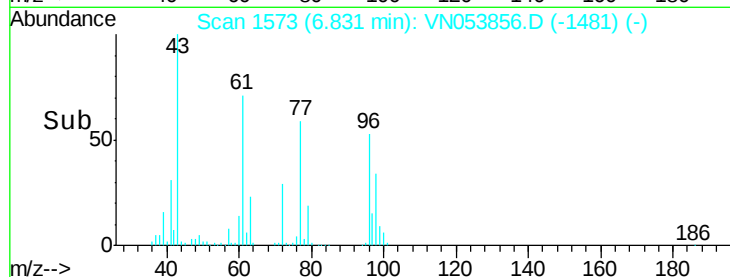
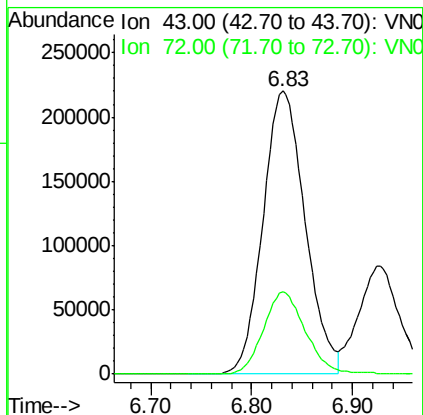
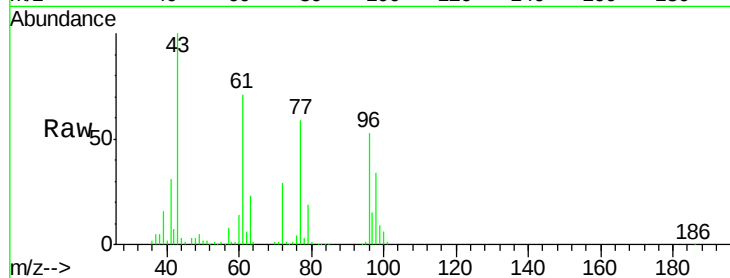
72 29.1 22.0 33.0

Manual Integrations

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#26

2,2-Dichloropropane

Concen: 49.293 ug/l

RT: 6.82 min Scan# 1570

Delta R.T. -0.00 min

Lab File: VN053856.D

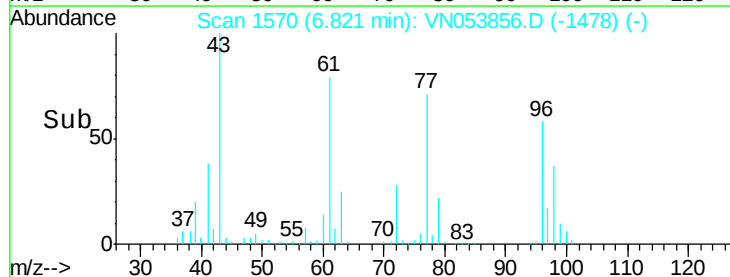
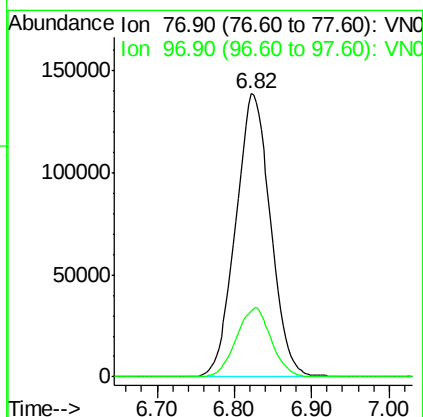
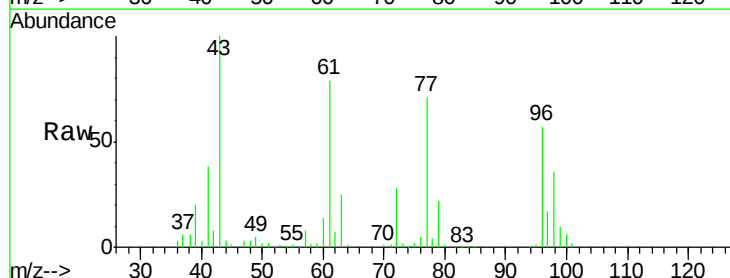
Acq: 19 Feb 2019 9:02

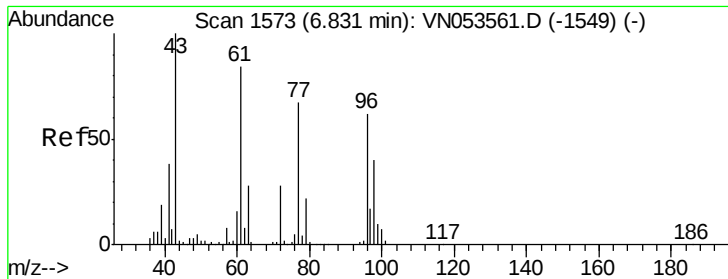
Tgt Ion: 77 Resp: 435190

Ion Ratio Lower Upper

77 100

97 24.3 12.2 36.6





#27

cis-1,2-Dichloroethene

Concen: 48.501 ug/l

RT: 6.83 min Scan# 1572

Delta R.T. -0.00 min

Lab File: VN053856.D

Acq: 19 Feb 2019 9:02

Instrument :

MSVOA_N

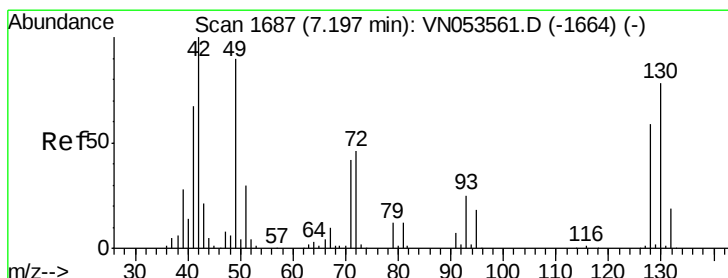
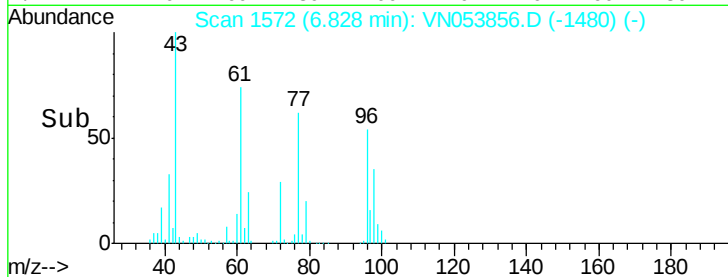
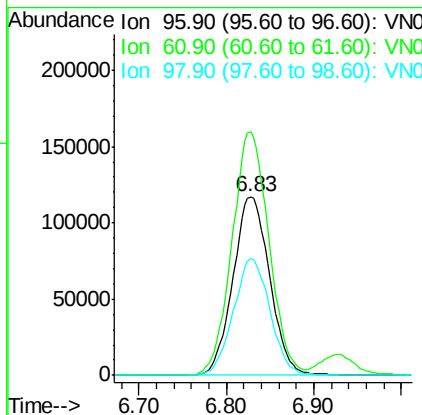
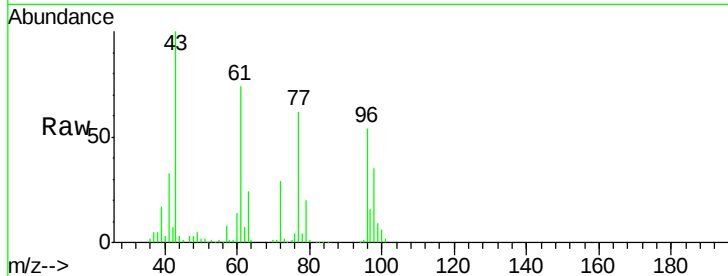
ClientSampleId :

VSTDCCC050

Tot Ion:	96	Resp:	341978
Ion	Ratio	Lower	Upper
96	100		
61	136.7	0.0	283.8
98	65.1	0.0	129.2

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#28

Bromochloromethane

Concen: 50.690 ug/l

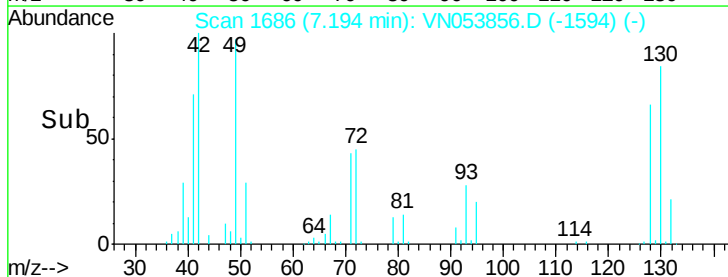
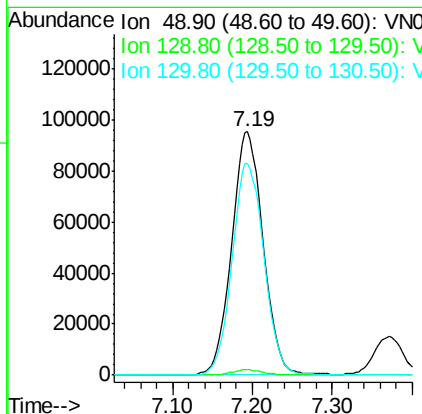
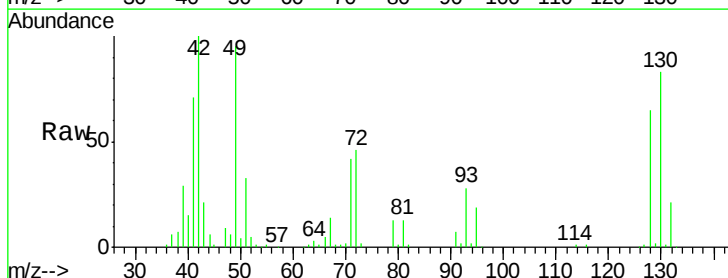
RT: 7.19 min Scan# 1686

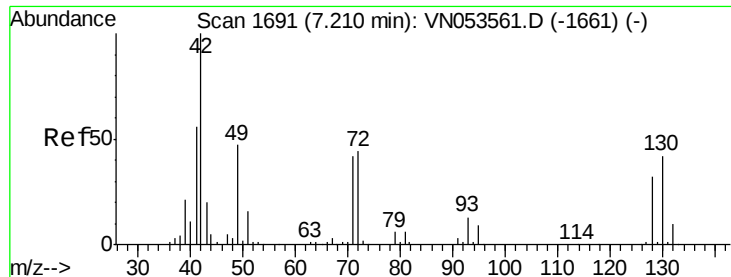
Delta R.T. -0.00 min

Lab File: VN053856.D

Acq: 19 Feb 2019 9:02

Tgt Ion:	49	Resp:	254410
Ion	Ratio	Lower	Upper
49	100		
129	2.1	0.0	4.0
130	88.0	66.3	99.5





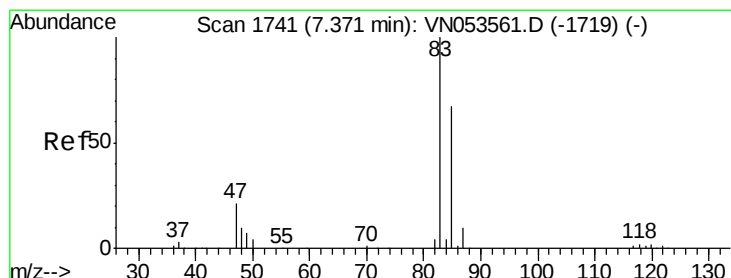
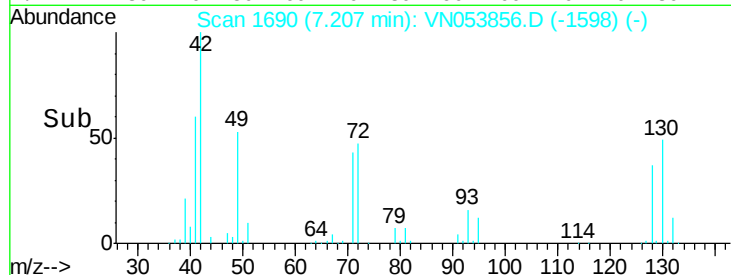
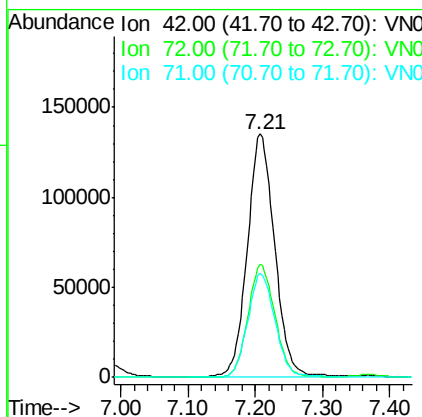
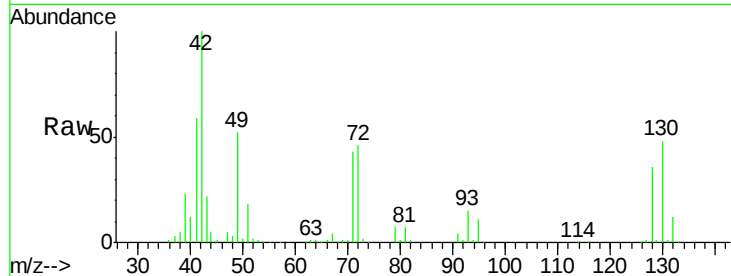
#29
Tetrahydrofuran
Concen: 254.425 ug/l
RT: 7.21 min Scan# 1690
Delta R.T. -0.00 min
Lab File: VN053856.D
Acq: 19 Feb 2019 9:02

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
42	100		
72	46.2	35.2	52.8
71	42.8	33.0	49.4

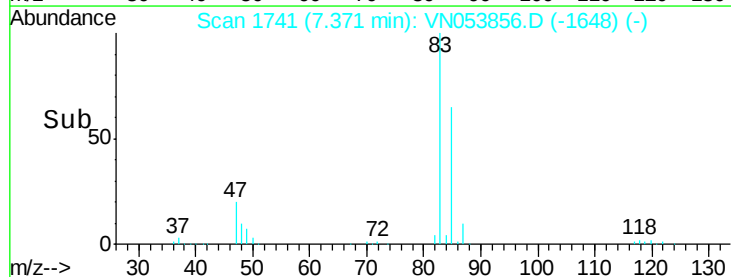
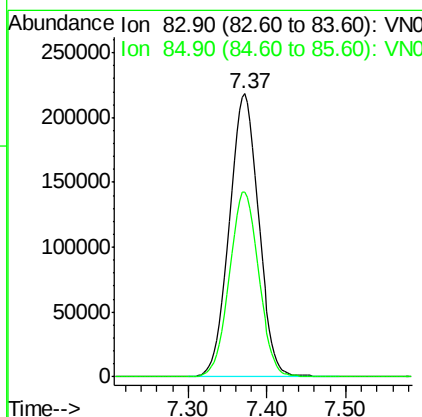
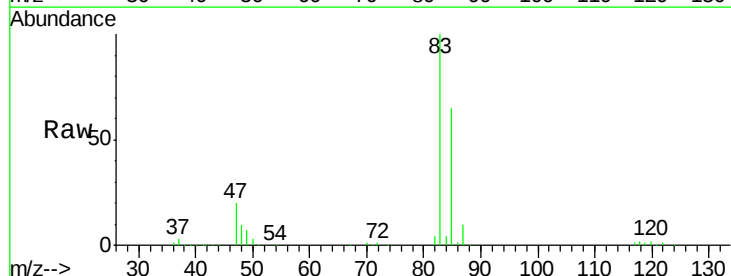
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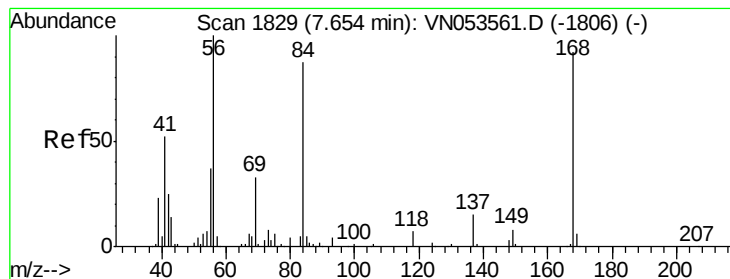
MMDadoda
2/20/2019 10:14:47 AM



#30
Chloroform
Concen: 49.436 ug/l
RT: 7.37 min Scan# 1741
Delta R.T. 0.00 min
Lab File: VN053856.D
Acq: 19 Feb 2019 9:02

Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.4	52.2	78.2





#31

Cyclohexane

Concen: 43.629 ug/l

RT: 7.65 min Scan# 1829

Delta R.T. 0.00 min

Lab File: VN053856.D

Acq: 19 Feb 2019 9:02

Instrument :

MSVOA_N

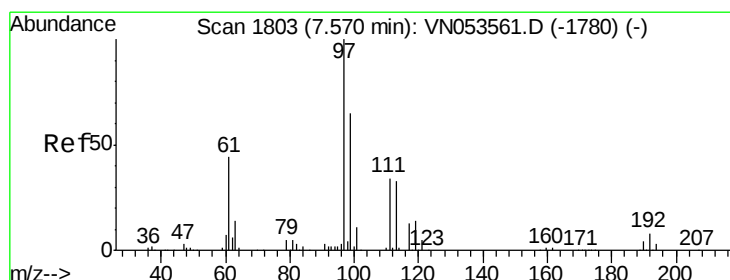
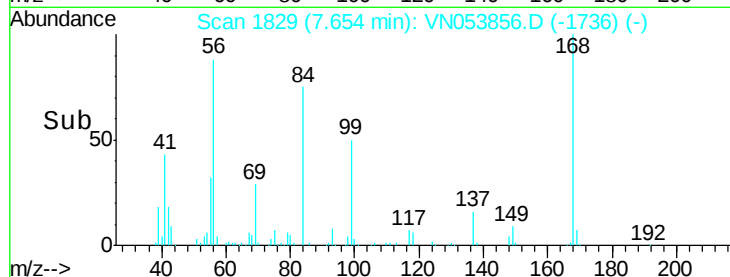
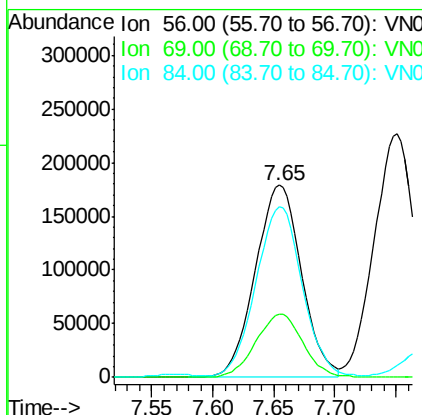
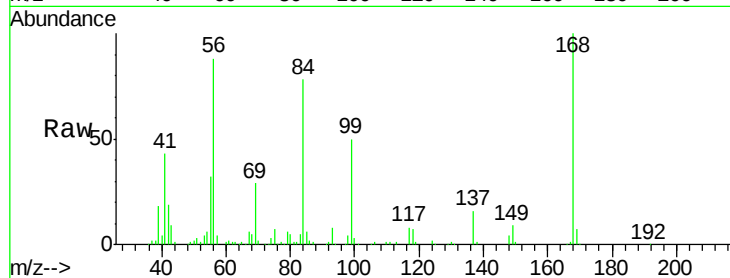
ClientSampleId :

VSTDCCC050

Tot Ion:	56	Resp:	470033
Ion	Ratio	Lower	Upper
56	100		
69	33.0	26.4	39.6
84	87.3	67.9	101.9

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#32

1,1,1-Trichloroethane

Concen: 49.583 ug/l

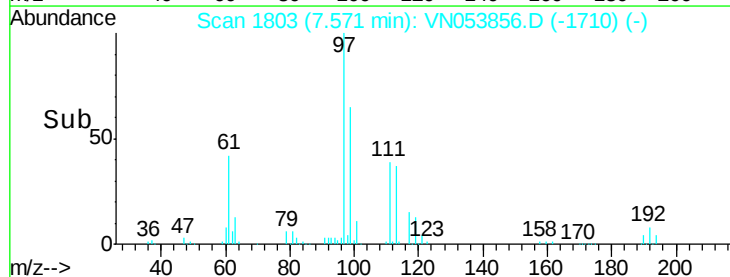
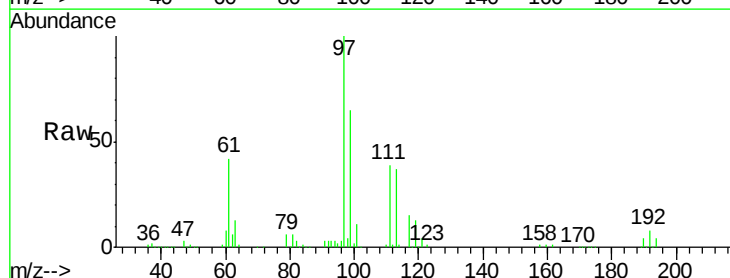
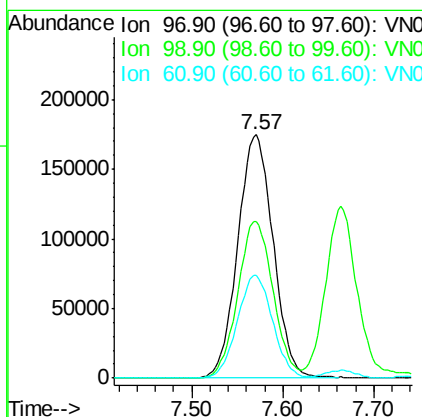
RT: 7.57 min Scan# 1803

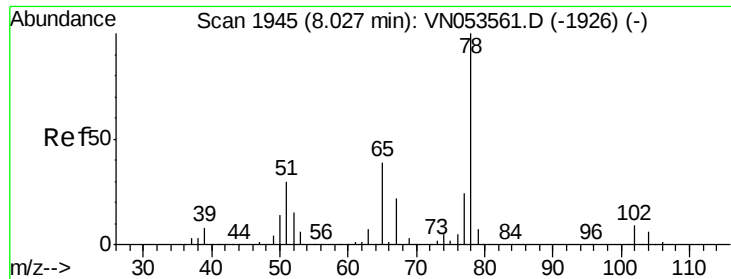
Delta R.T. 0.00 min

Lab File: VN053856.D

Acq: 19 Feb 2019 9:02

Tgt Ion:	97	Resp:	473079
Ion	Ratio	Lower	Upper
97	100		
99	64.0	52.0	78.0
61	42.0	34.4	51.6





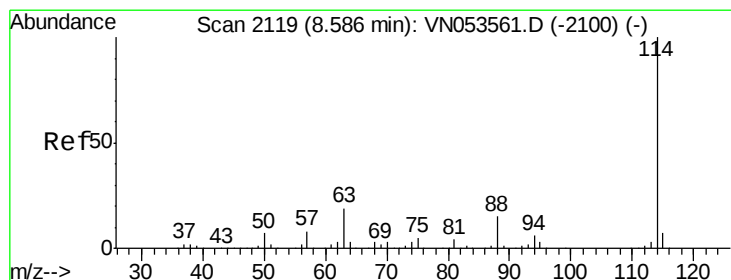
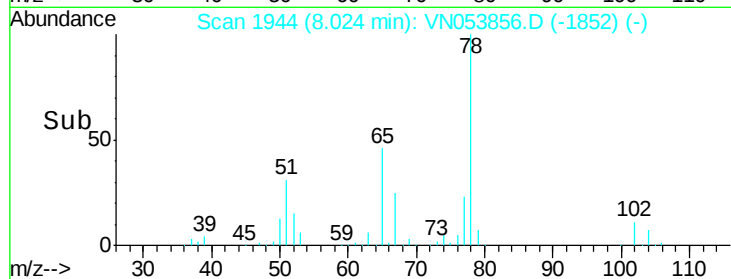
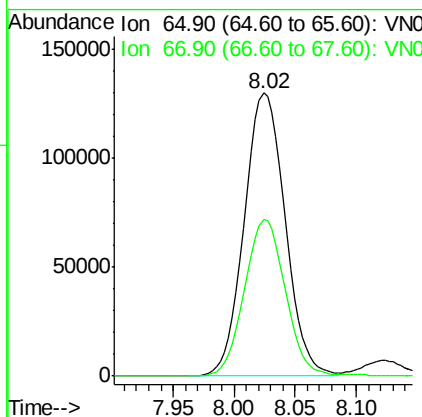
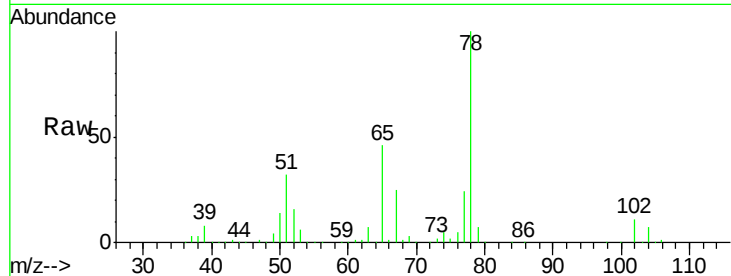
#33
 1,2-Dichloroethane-d4
 Concen: 47.469 ug/l
 RT: 8.02 min Scan# 1944
 Delta R.T. -0.00 min
 Lab File: VN053856.D
 Acq: 19 Feb 2019 9:02

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
65	100	302246		
67	55.0	0.0	111.2	

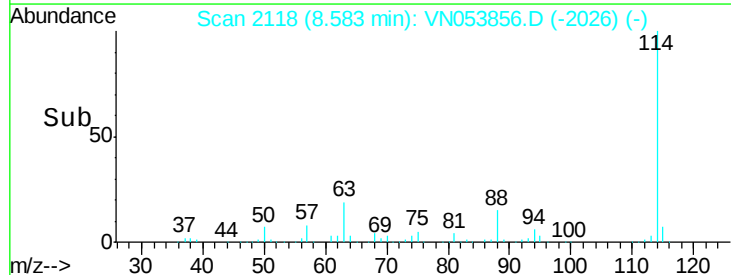
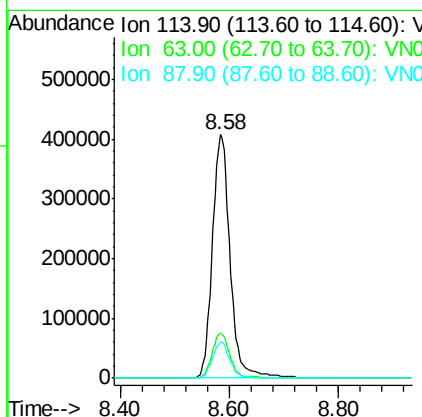
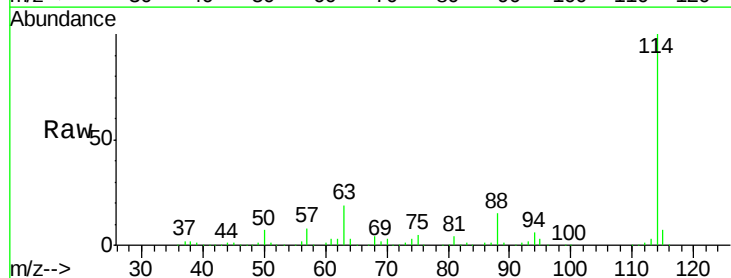
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#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2118
 Delta R.T. -0.00 min
 Lab File: VN053856.D
 Acq: 19 Feb 2019 9:02

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	915932		
63	18.7	0.0	38.6	
88	14.7	0.0	30.4	





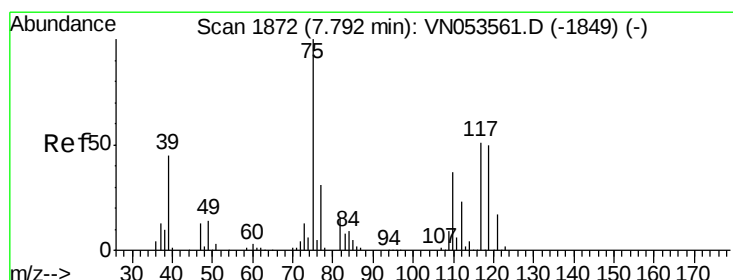
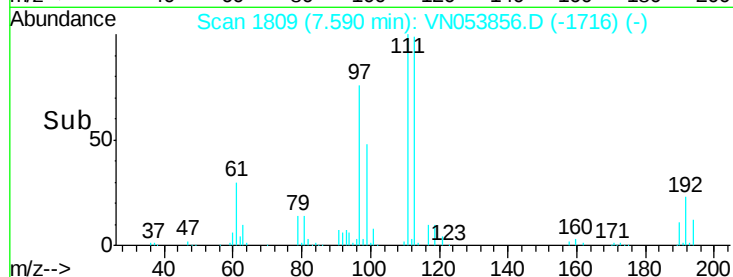
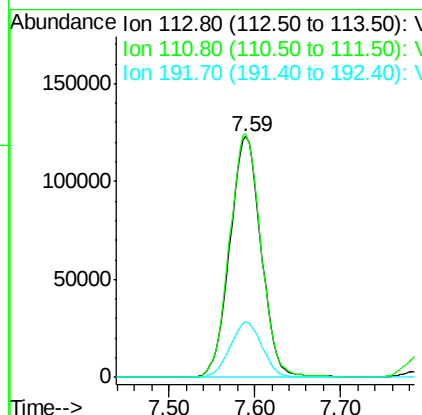
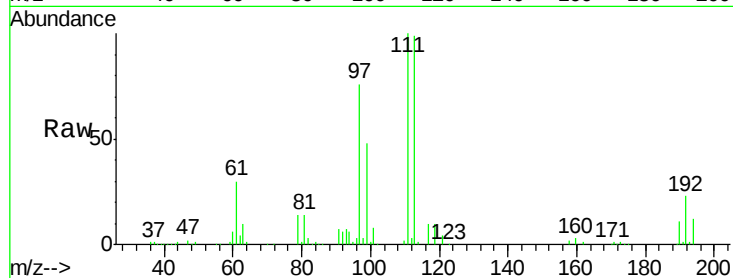
#35
Dibromofluoromethane
Concen: 53.533 ug/l
RT: 7.59 min Scan# 1809
Delta R.T. 0.00 min
Lab File: VN053856.D
Acq: 19 Feb 2019 9:02

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
113	100	309820		
111	102.1	81.1	121.7	
192	23.5	18.2	27.2	

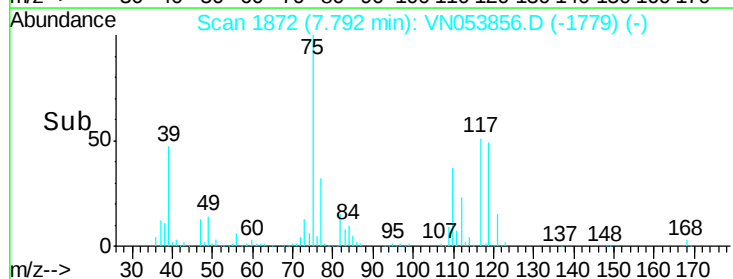
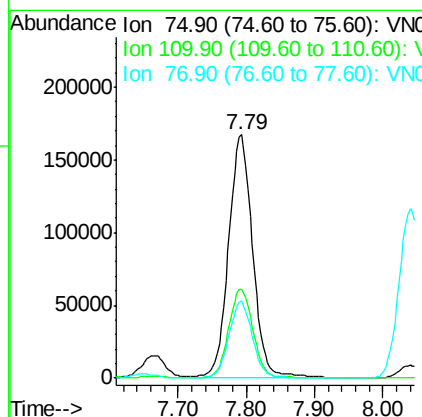
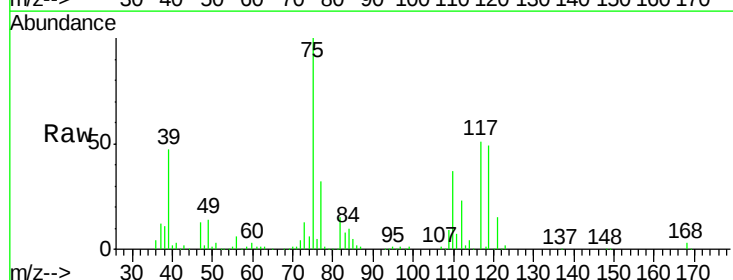
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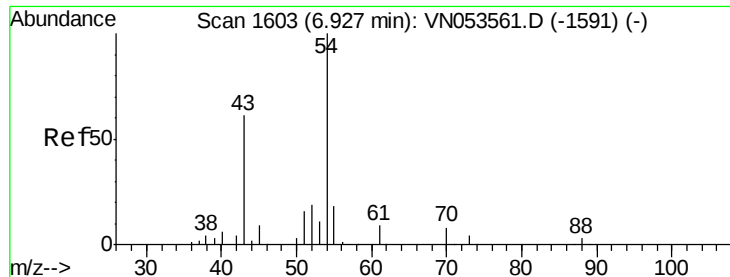
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#36
1,1-Dichloropropene
Concen: 49.678 ug/l
RT: 7.79 min Scan# 1872
Delta R.T. 0.00 min
Lab File: VN053856.D
Acq: 19 Feb 2019 9:02

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	410171		
110	37.1	18.1	54.3	
77	30.9	25.1	37.7	





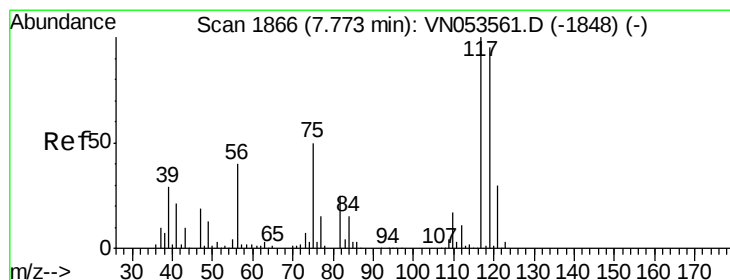
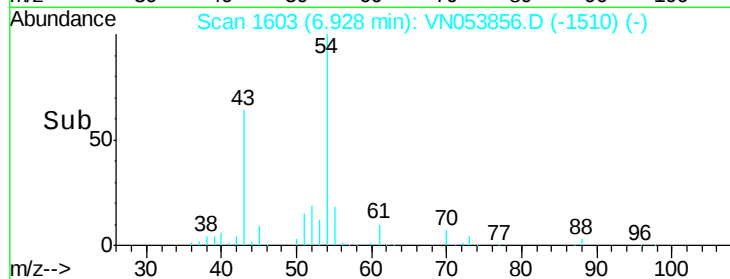
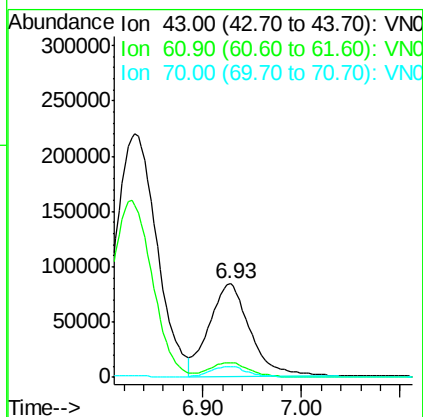
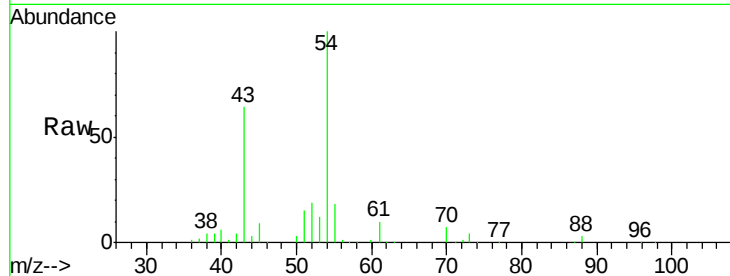
#37
Ethyl Acetate
Concen: 52.357 ug/l
RT: 6.93 min Scan# 1603
Delta R.T. 0.00 min
Lab File: VN053856.D
Acq: 19 Feb 2019 9:02

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
43	100		
61	15.5	11.8	17.6
70	11.3	8.6	12.8

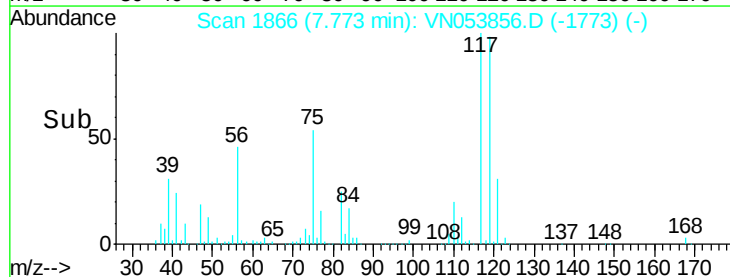
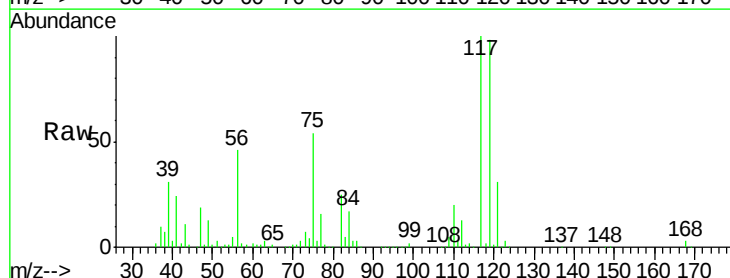
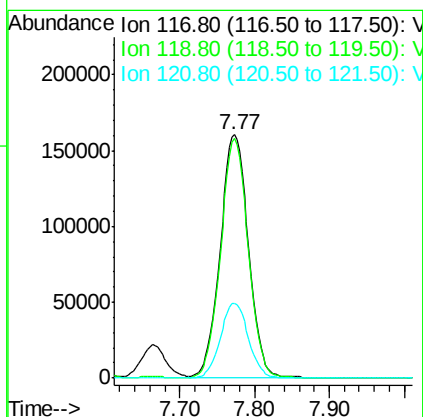
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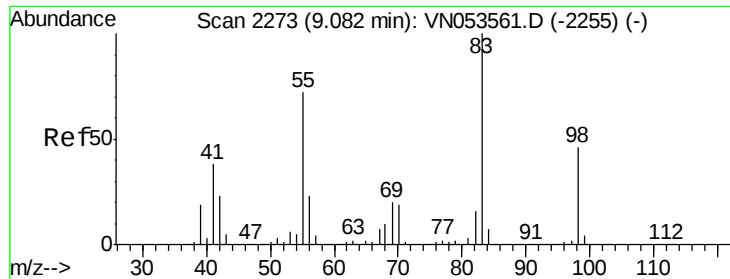
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#38
Carbon Tetrachloride
Concen: 50.353 ug/l
RT: 7.77 min Scan# 1866
Delta R.T. 0.00 min
Lab File: VN053856.D
Acq: 19 Feb 2019 9:02

Tgt Ion	Ratio	Lower	Upper
117	100		
119	98.3	77.2	115.8
121	30.9	24.6	37.0





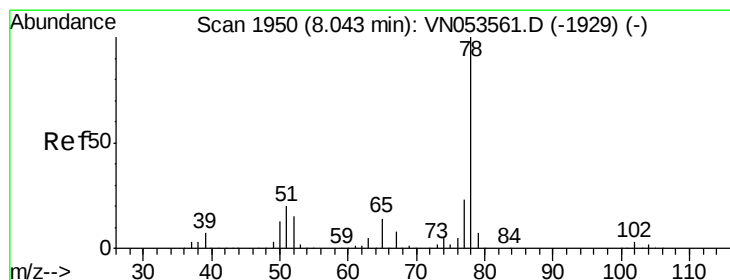
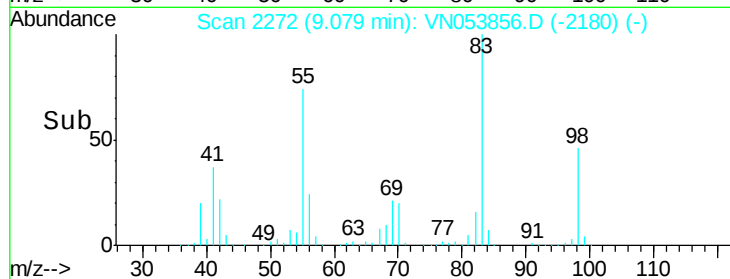
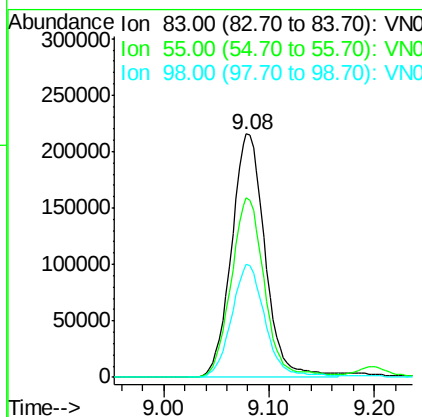
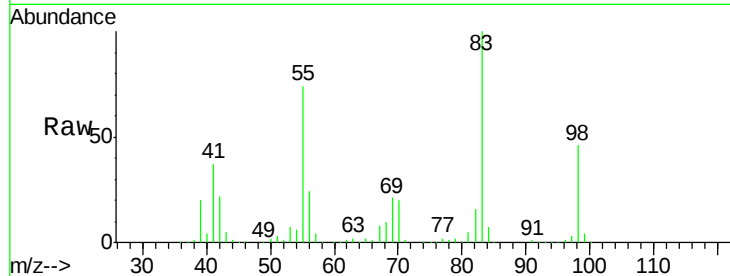
#39
Methvlcvclohexane
Concen: 48.575 ug/l
RT: 9.08 min Scan# 2272
Delta R.T. -0.00 min
Lab File: VN053856.D
Acq: 19 Feb 2019 9:02

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
83	100	475822		
55	73.4	60.1	90.1	
98	46.3	36.6	55.0	

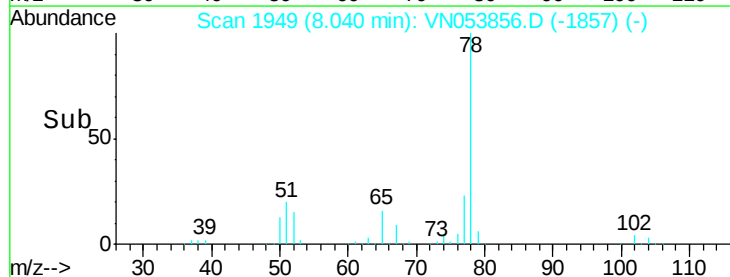
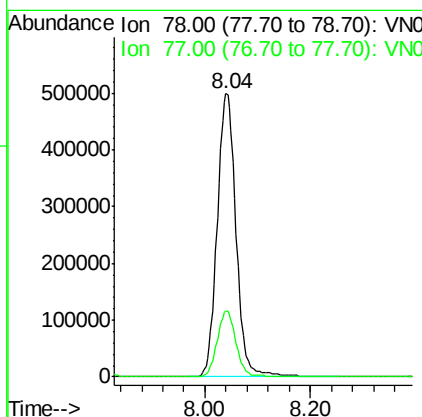
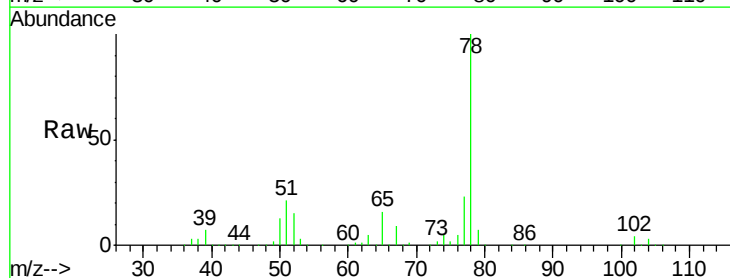
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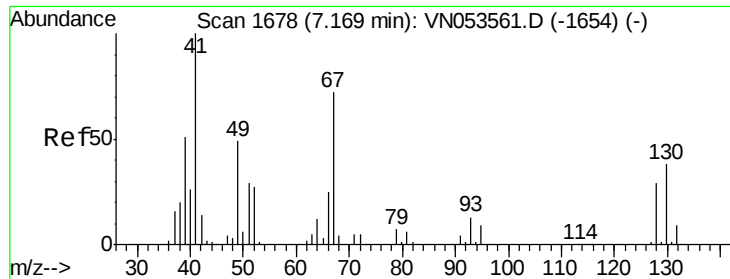
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#40
Benzene
Concen: 48.358 ug/l
RT: 8.04 min Scan# 1949
Delta R.T. -0.00 min
Lab File: VN053856.D
Acq: 19 Feb 2019 9:02

Tgt Ion	Ratio	Resp	Lower	Upper
78	100	1231254		
77	23.4	18.8	28.2	





#41

Methacrylonitrile

Concen: 45.036 ug/l

RT: 7.17 min Scan# 1678

Delta R.T. 0.00 min

Lab File: VN053856.D

Acq: 19 Feb 2019 9:02

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 41 Resp: 116069
Ion Ratio Lower Upper

41 100

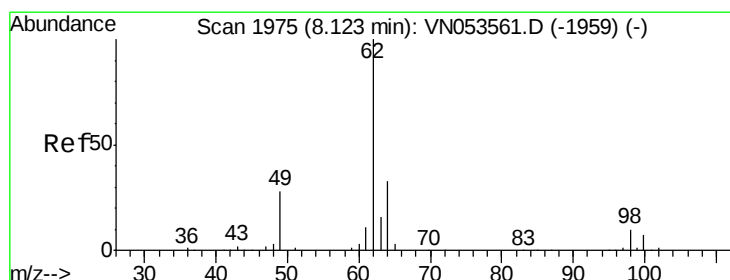
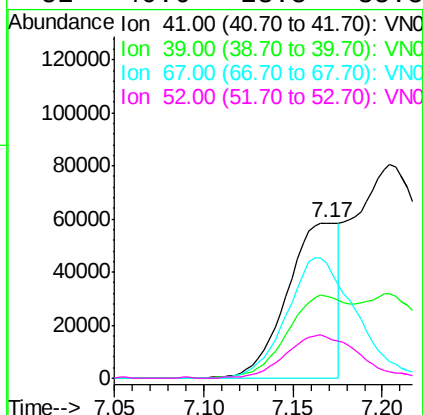
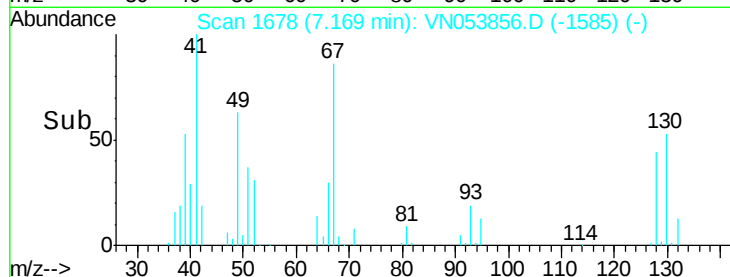
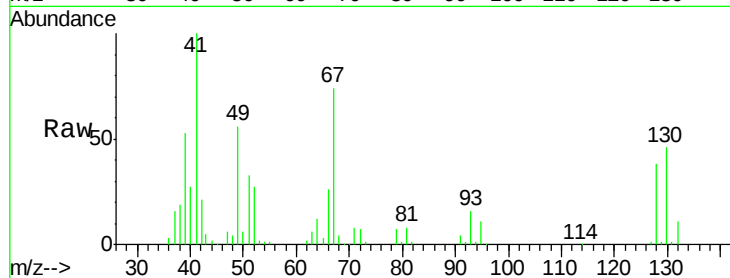
39 66.5 46.8 70.2

67 106.6 63.0 94.6#

52 40.6 23.8 35.8#

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#42

1,2-Dichloroethane

Concen: 47.964 ug/l

RT: 8.12 min Scan# 1975

Delta R.T. 0.00 min

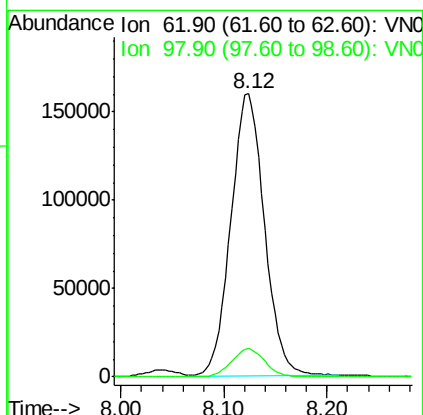
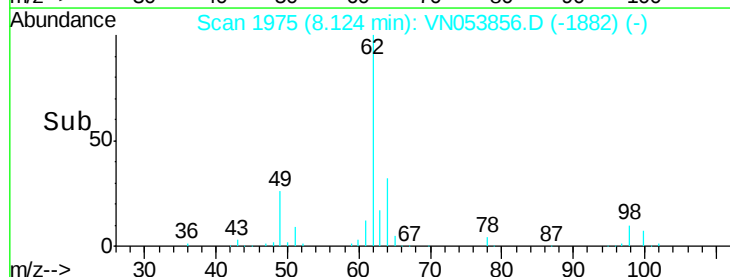
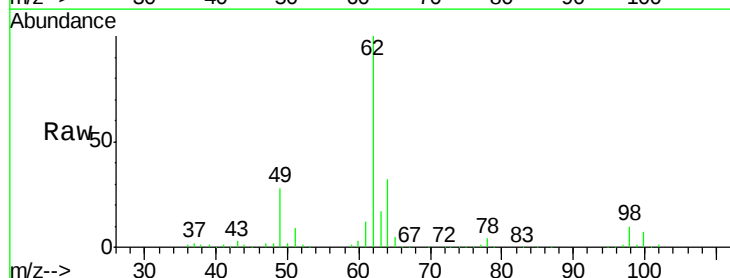
Lab File: VN053856.D

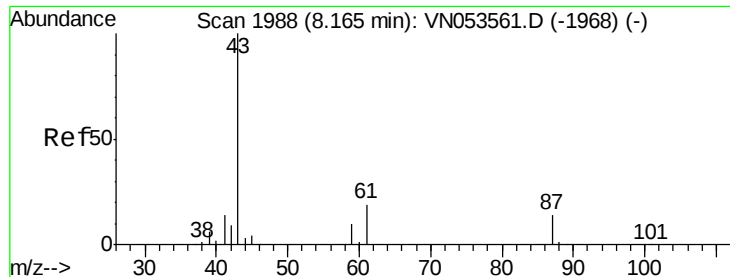
Acq: 19 Feb 2019 9:02

Tgt Ion: 62 Resp: 362607
Ion Ratio Lower Upper

62 100

98 9.9 0.0 19.6





#43

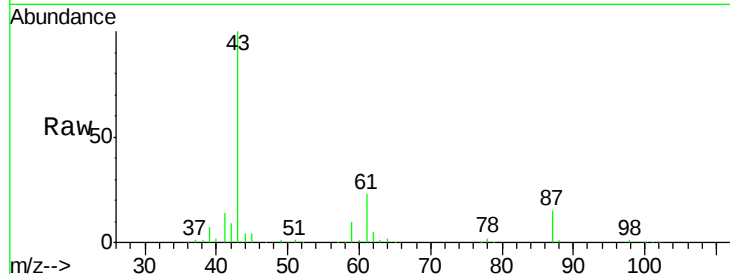
Isopropyl Acetate
 Concen: 45.260 ug/l
 RT: 8.16 min Scan# 1987
 Delta R.T. -0.00 min
 Lab File: VN053856.D
 Acq: 19 Feb 2019 9:02

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

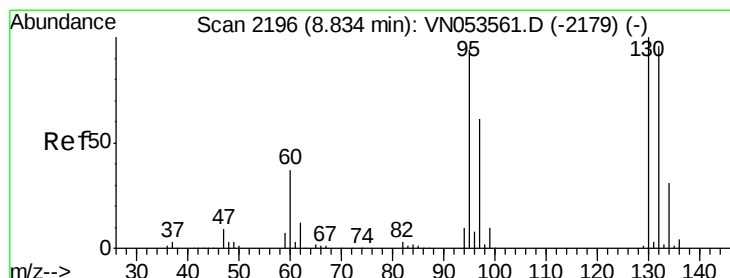
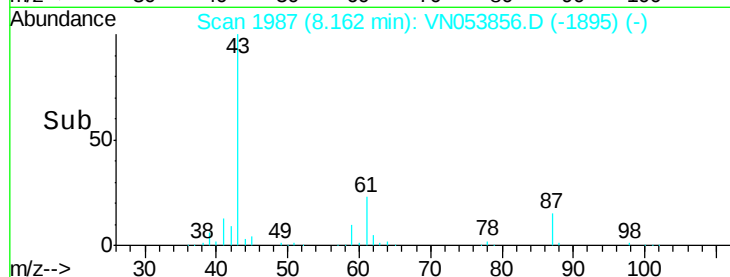
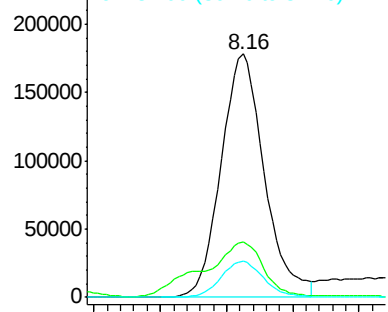
Tot Ion	Ratio	Lower	Upper
43	100		
61	31.3	23.9	35.9
87	14.7	11.0	16.6

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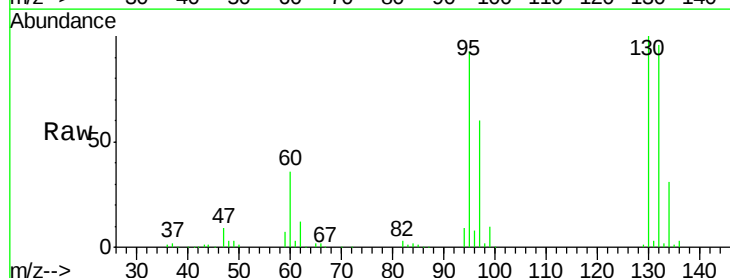
Abundance Ion 43.00 (42.70 to 43.70): VN053856.D (-1988) (-)



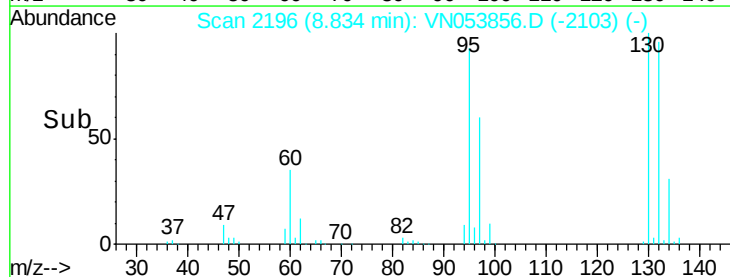
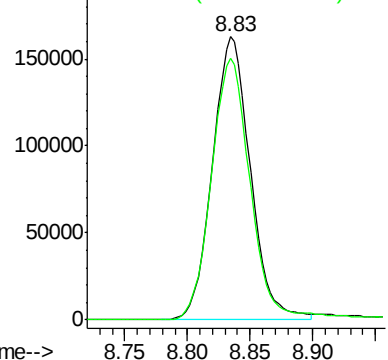
#44

Trichloroethene
 Concen: 47.354 ug/l
 RT: 8.83 min Scan# 2196
 Delta R.T. 0.00 min
 Lab File: VN053856.D
 Acq: 19 Feb 2019 9:02

Tgt Ion	Ratio	Lower	Upper
130	100		
95	92.6	0.0	191.4



Abundance Ion 129.80 (129.50 to 130.50): VN053856.D (-2196) (-)





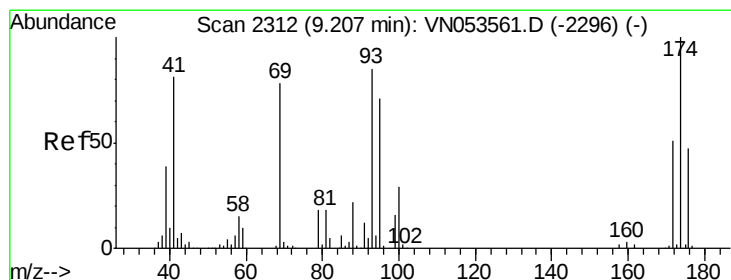
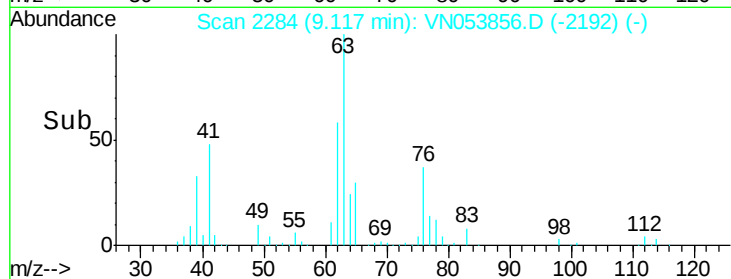
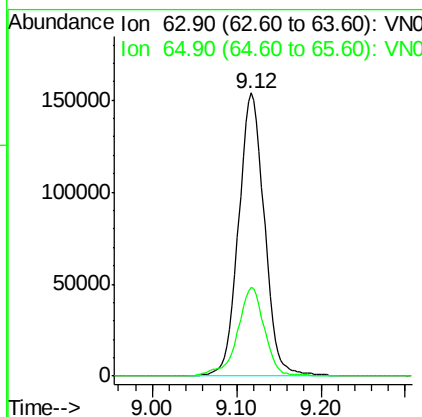
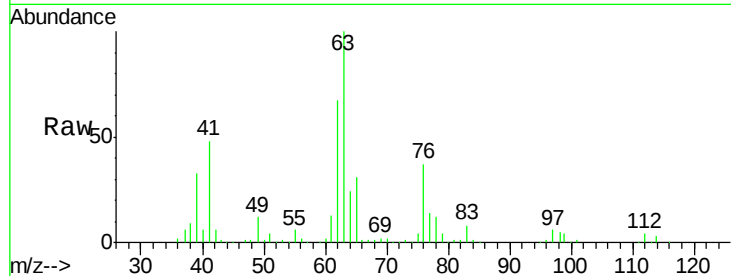
#45
 1,2-Dichloropropane
 Concen: 50.653 ug/l
 RT: 9.12 min Scan# 2284
 Delta R.T. -0.00 min
 Lab File: VN053856.D
 Acq: 19 Feb 2019 9:02

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion: 63 Resp: 329865
 Ion Ratio Lower Upper
 63 100
 65 31.1 25.0 37.4

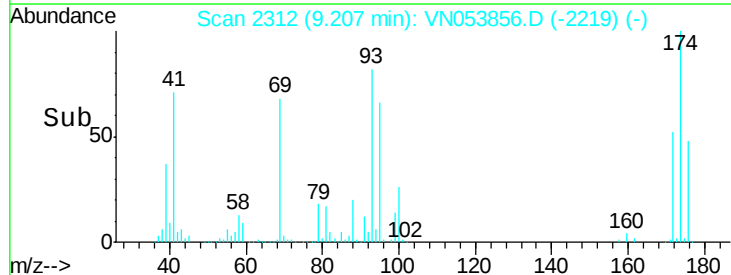
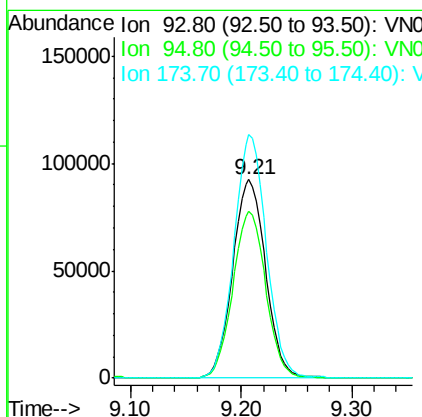
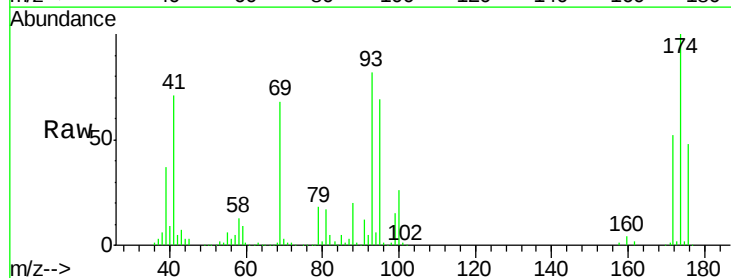
Manual Integrations
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#46
 Dibromomethane
 Concen: 48.939 ug/l
 RT: 9.21 min Scan# 2312
 Delta R.T. 0.00 min
 Lab File: VN053856.D
 Acq: 19 Feb 2019 9:02

Tgt Ion: 93 Resp: 192119
 Ion Ratio Lower Upper
 93 100
 95 83.8 67.3 100.9
 174 120.5 91.0 136.4





#47

Bromodichloromethane

Concen: 51.410 ug/l

RT: 9.40 min Scan# 2372

Delta R.T. -0.00 min

Lab File: VN053856.D

Acq: 19 Feb 2019 9:02

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 83 Resp: 419627

Ion Ratio Lower Upper

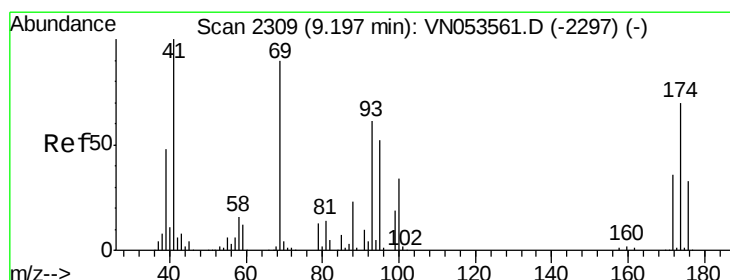
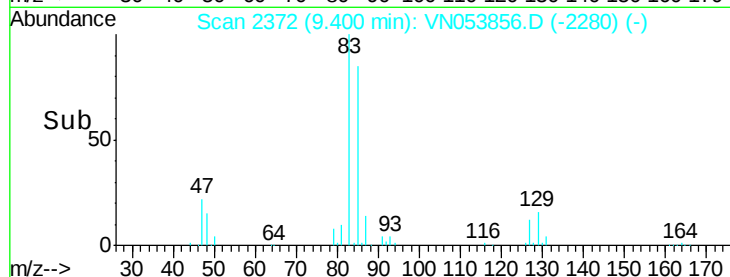
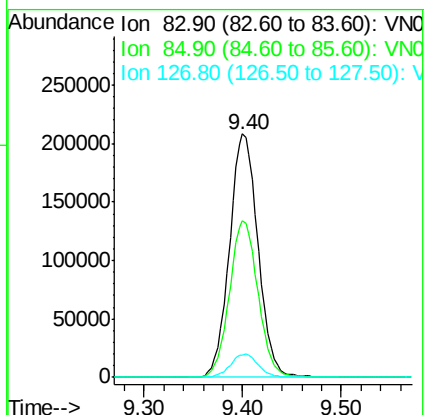
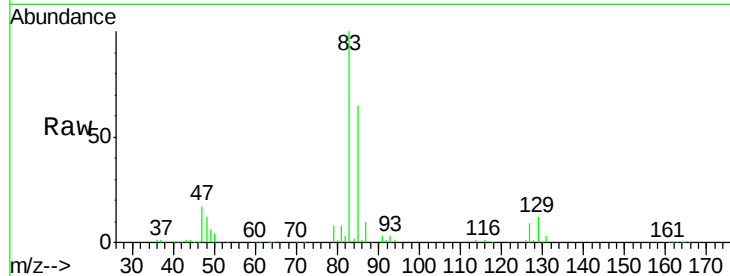
83 100

85 64.5 51.0 76.6

127 9.4 7.0 10.6

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#48

Methyl methacrylate

Concen: 46.235 ug/l

RT: 9.20 min Scan# 2309

Delta R.T. 0.00 min

Lab File: VN053856.D

Acq: 19 Feb 2019 9:02

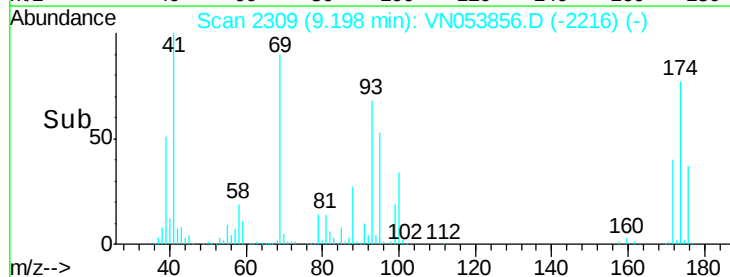
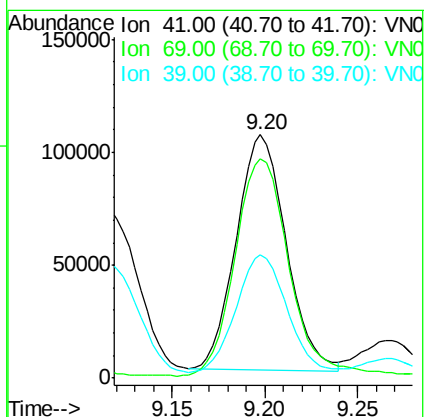
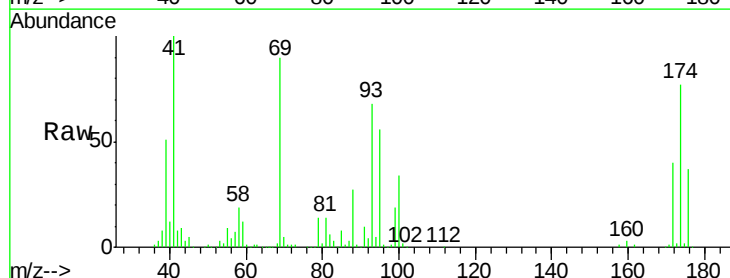
Tgt Ion: 41 Resp: 196543

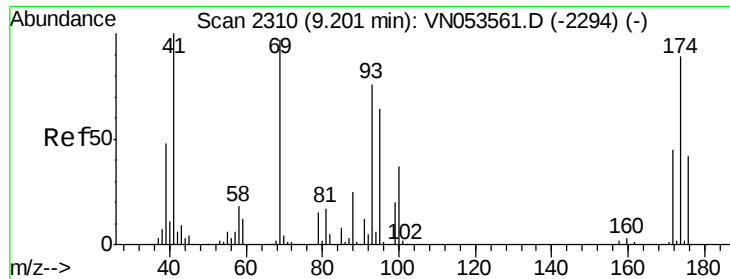
Ion Ratio Lower Upper

41 100

69 103.8 73.8 110.6

39 56.6 40.0 60.0





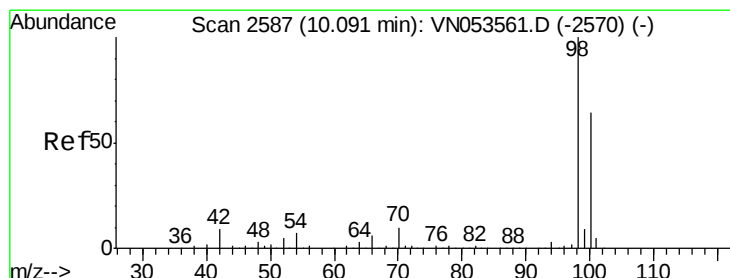
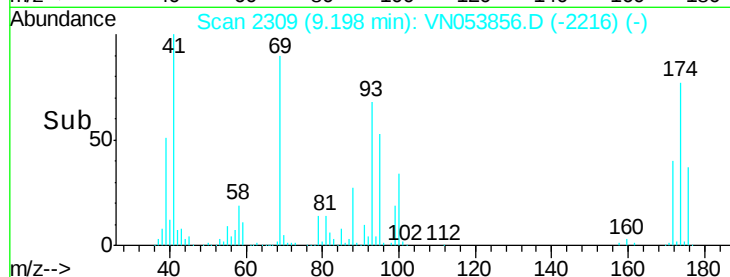
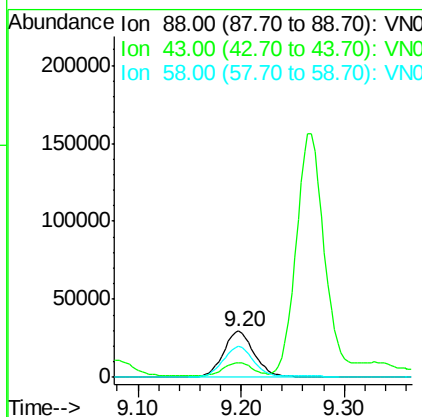
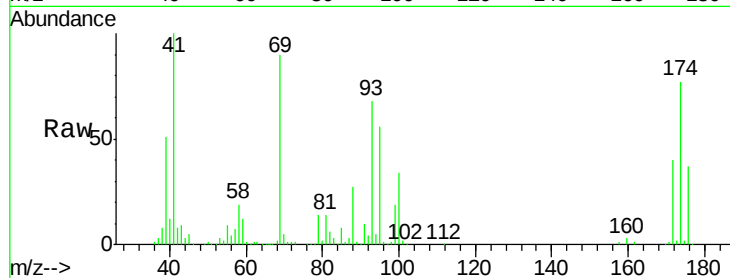
#49
 1,4-Dioxane
 Concen: 1018.405 ug/l
 RT: 9.20 min Scan# 2309
 Delta R.T. -0.00 min
 Lab File: VN053856.D
 Acq: 19 Feb 2019 9:02

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
88	100		
43	27.0	27.8	41.6#
58	66.3	56.5	84.7

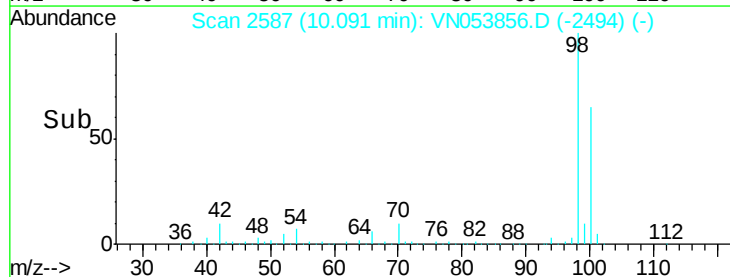
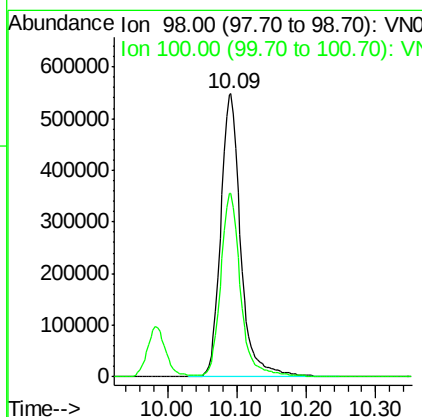
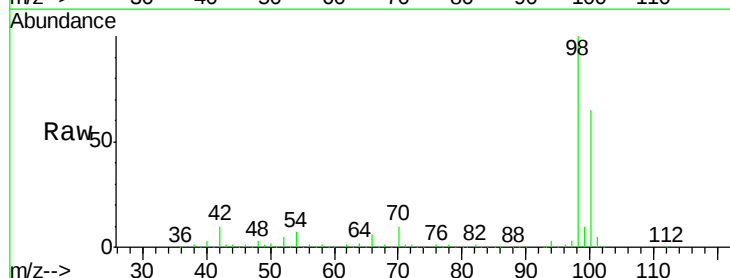
Manual Integrations
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#50
 Toluene-d8
 Concen: 50.514 ug/l
 RT: 10.09 min Scan# 2587
 Delta R.T. 0.00 min
 Lab File: VN053856.D
 Acq: 19 Feb 2019 9:02

Tgt Ion	Ratio	Lower	Upper
98	100		
100	64.9	51.4	77.0





#51

4-Methyl-2-Pentanone

Concen: 260.542 ug/l

RT: 9.98 min Scan# 2553

Delta R.T. -0.00 min

Lab File: VN053856.D

Acq: 19 Feb 2019 9:02

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 1140173

Ion Ratio Lower Upper

43 100

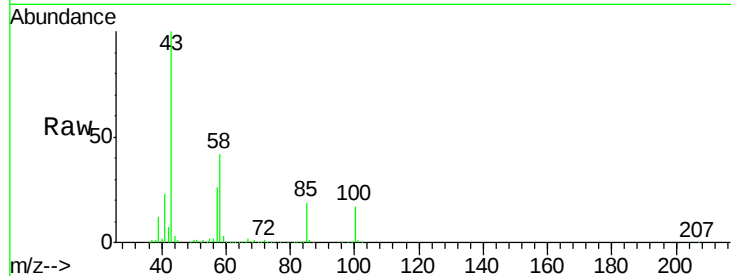
58 40.7 32.8 49.2

Manual Integrations

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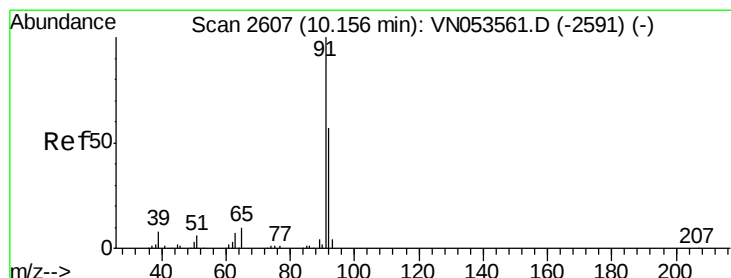
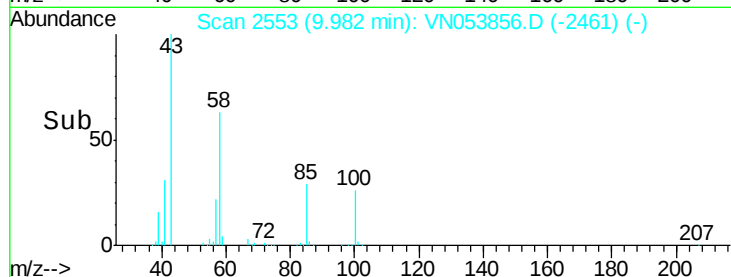
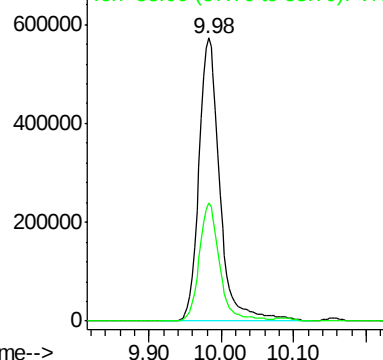
MMDadoda

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Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#52

Toluene

Concen: 49.838 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VN053856.D

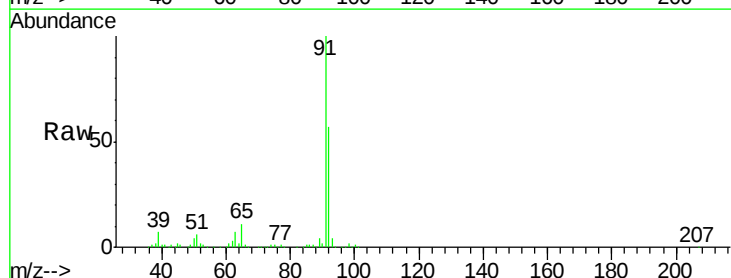
Acq: 19 Feb 2019 9:02

Tgt Ion: 92 Resp: 753102

Ion Ratio Lower Upper

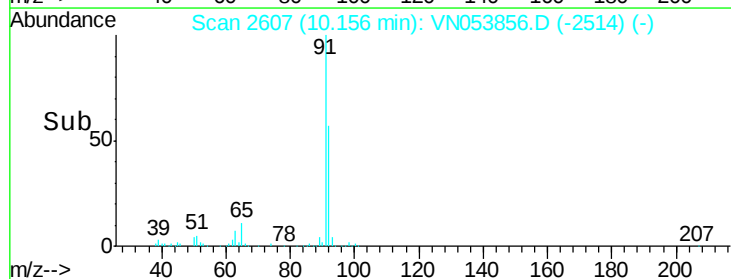
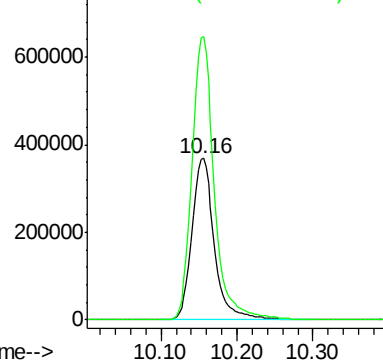
92 100

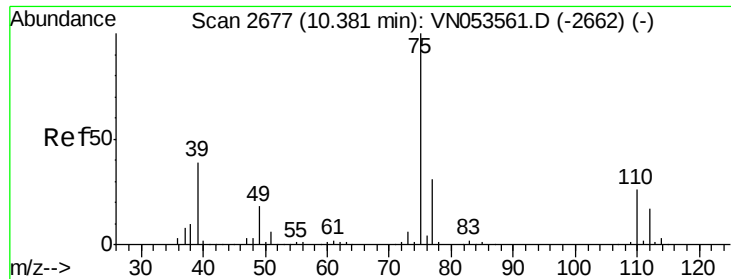
91 174.9 139.9 209.9



Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0





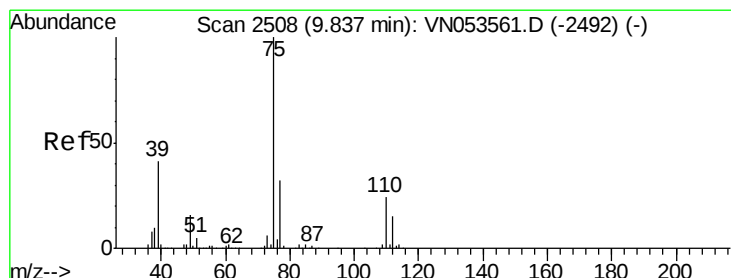
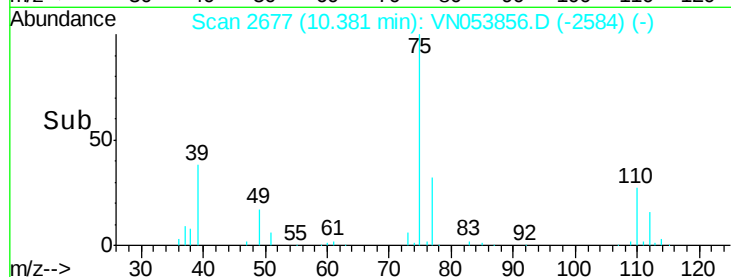
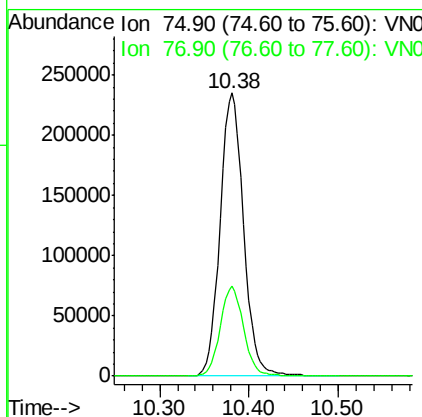
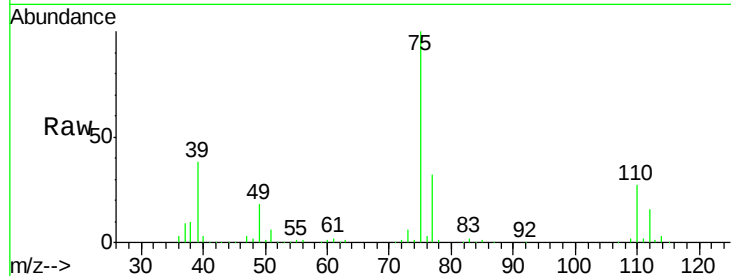
#53
t-1,3-Dichloropropene
Concen: 52.477 ug/l
RT: 10.38 min Scan# 2677
Delta R.T. 0.00 min
Lab File: VN053856.D
Acq: 19 Feb 2019 9:02

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion: 75 Resp: 428912
Ion Ratio Lower Upper
75 100
77 31.6 25.5 38.3

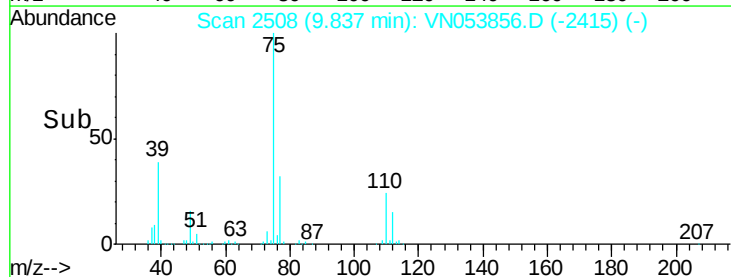
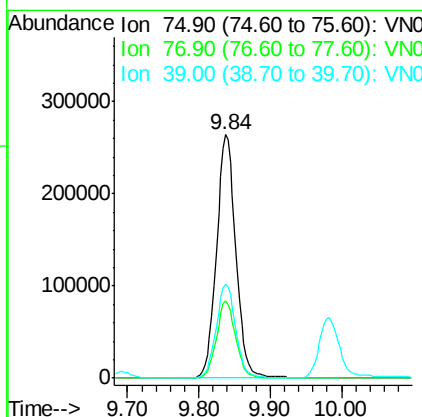
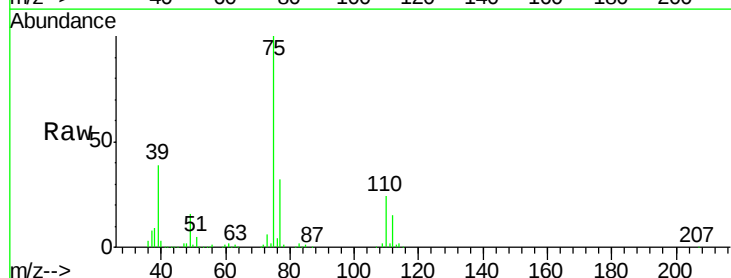
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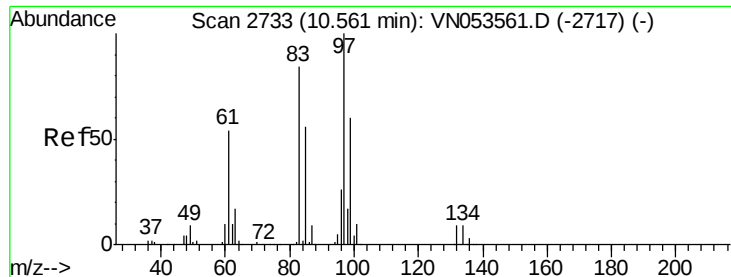
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#54
cis-1,3-Dichloropropene
Concen: 50.974 ug/l
RT: 9.84 min Scan# 2508
Delta R.T. 0.00 min
Lab File: VN053856.D
Acq: 19 Feb 2019 9:02

Tgt Ion: 75 Resp: 493696
Ion Ratio Lower Upper
75 100
77 31.8 25.8 38.6
39 38.4 33.4 50.0





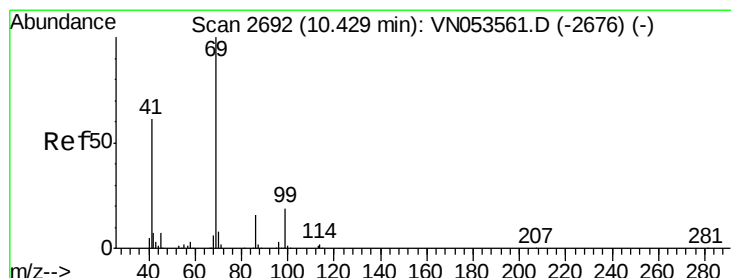
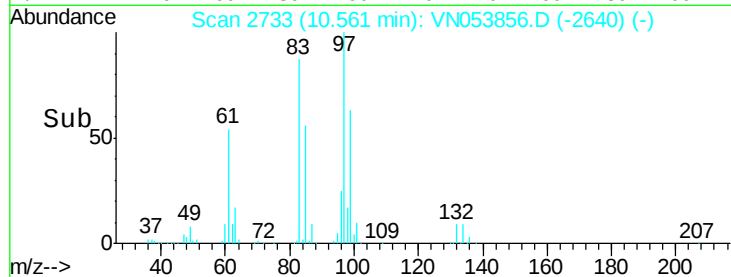
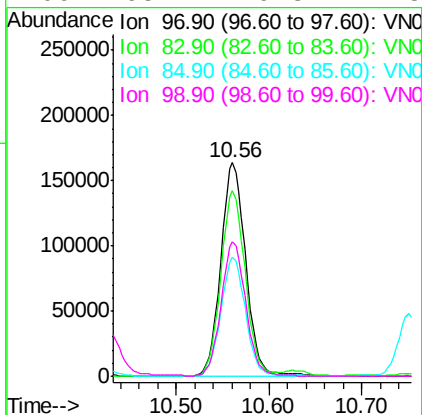
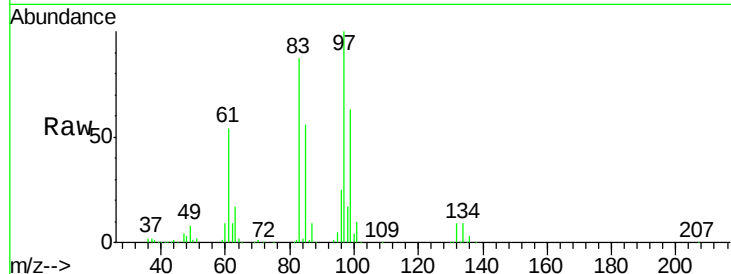
#55
 1,1,2-Trichloroethane
 Concen: 56.142 ug/l
 RT: 10.56 min Scan# 2733
 Delta R.T. 0.00 min
 Lab File: VN053856.D
 Acq: 19 Feb 2019 9:02

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
97	100		
83	86.8	70.1	105.1
85	55.9	45.4	68.0
99	63.1	49.8	74.8

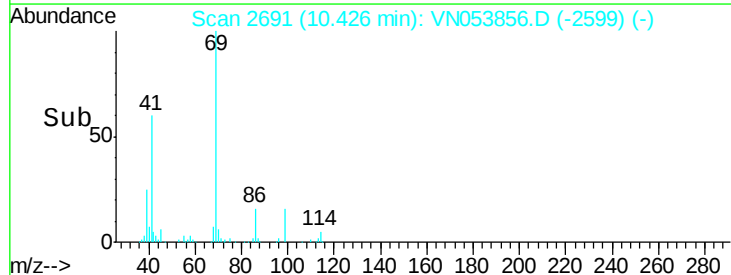
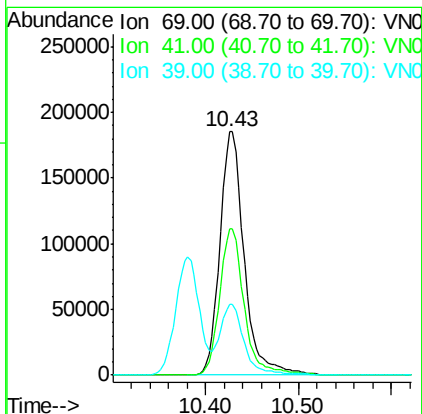
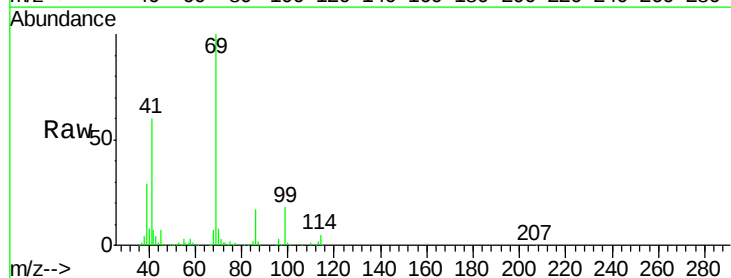
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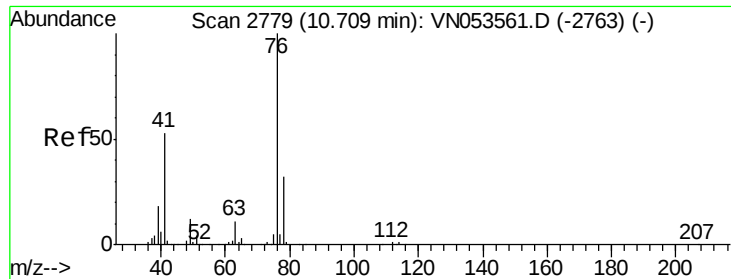
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#56
 Ethyl methacrylate
 Concen: 52.416 ug/l
 RT: 10.43 min Scan# 2691
 Delta R.T. -0.00 min
 Lab File: VN053856.D
 Acq: 19 Feb 2019 9:02

Tgt Ion	Ratio	Lower	Upper
69	100		
41	59.8	49.4	74.0
39	28.7	23.3	34.9





#57

1,3-Dichloropropane

Concen: 54.095 ug/l

RT: 10.71 min Scan# 2778

Delta R.T. -0.00 min

Lab File: VN053856.D

Acq: 19 Feb 2019 9:02

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 76 Resp: 503414

Ion Ratio Lower Upper

76 100

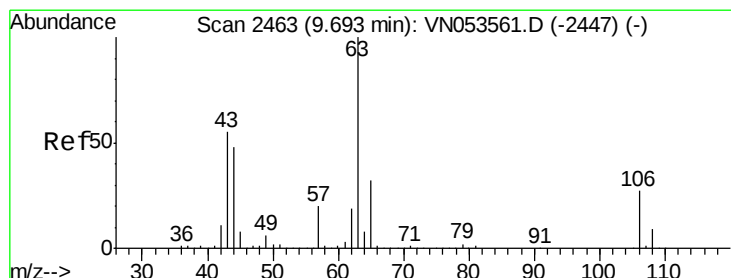
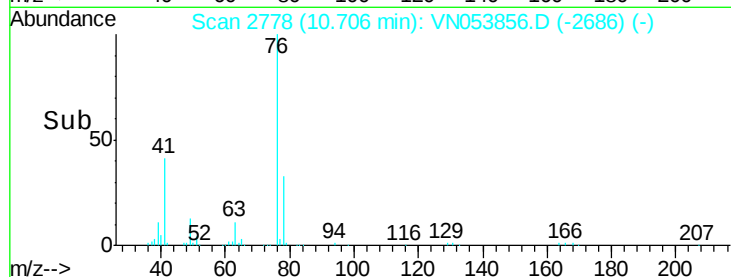
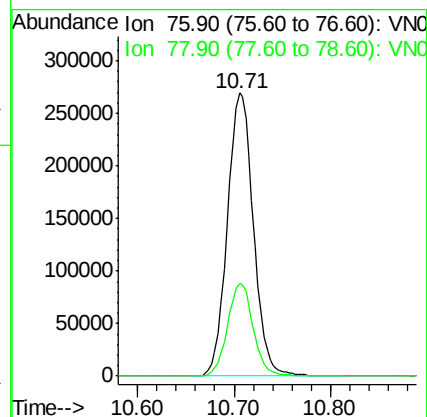
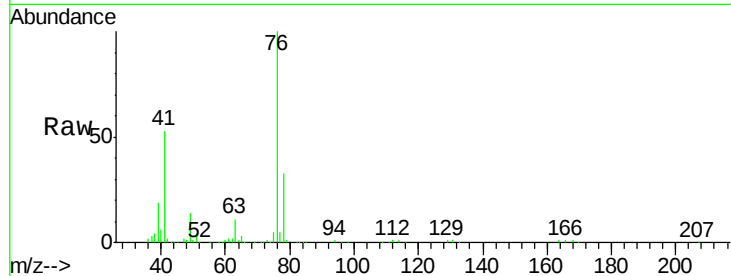
78 32.3 25.6 38.4

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#58

2-Chloroethyl Vinyl ether

Concen: 185.287 ug/l

RT: 9.69 min Scan# 2463

Delta R.T. 0.00 min

Lab File: VN053856.D

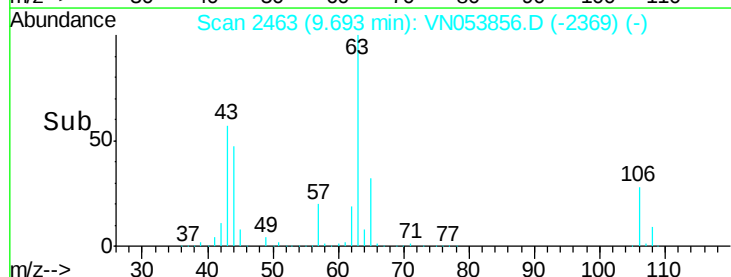
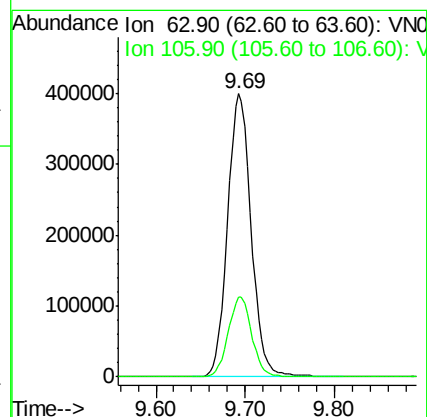
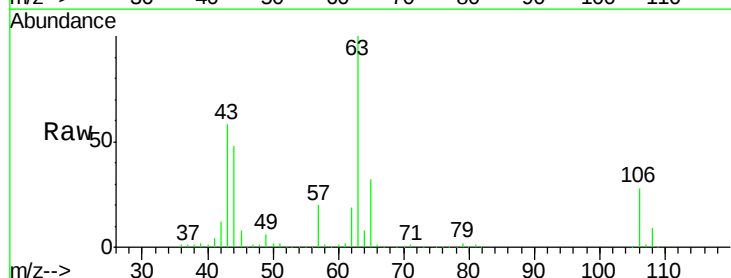
Acq: 19 Feb 2019 9:02

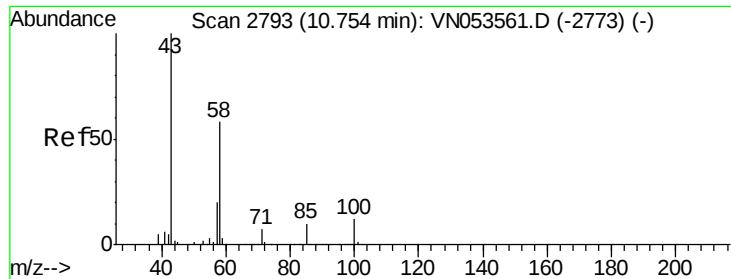
Tgt Ion: 63 Resp: 731648

Ion Ratio Lower Upper

63 100

106 28.2 21.5 32.3





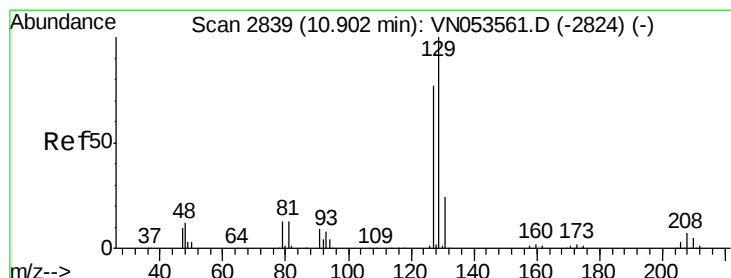
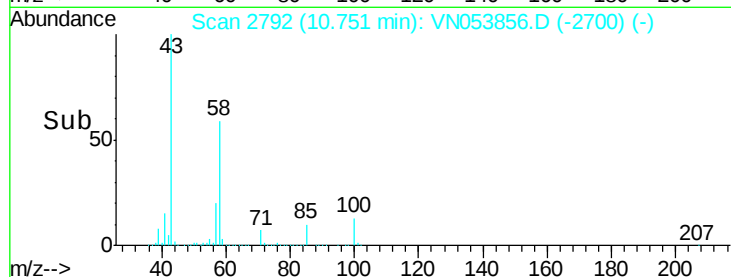
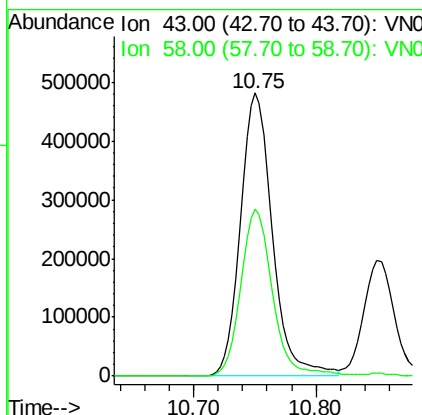
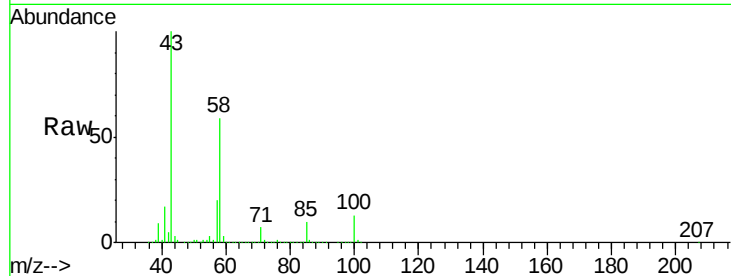
#59
2-Hexanone
Concen: 291.620 ug/l
RT: 10.75 min Scan# 2792
Delta R.T. -0.00 min
Lab File: VN053856.D
Acq: 19 Feb 2019 9:02

Instrument :
MSVOA_N
ClientSampled :
VSTDCCC050

Tot Ion: 43 Resp: 866358
Ion Ratio Lower Upper
43 100
58 58.6 28.6 85.8

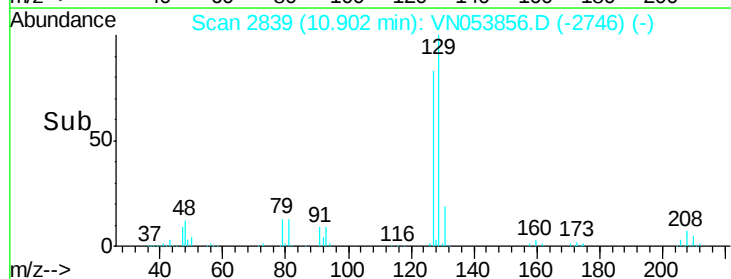
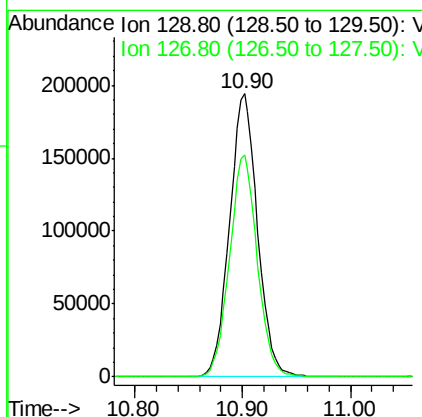
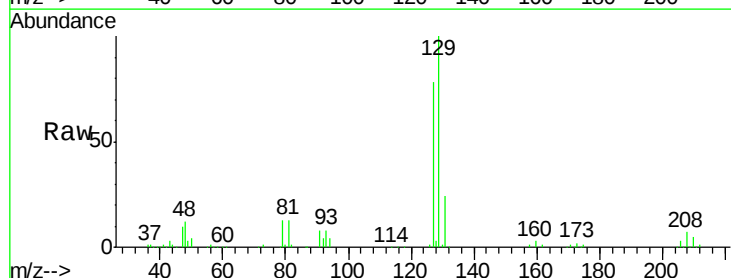
Manual Integrations
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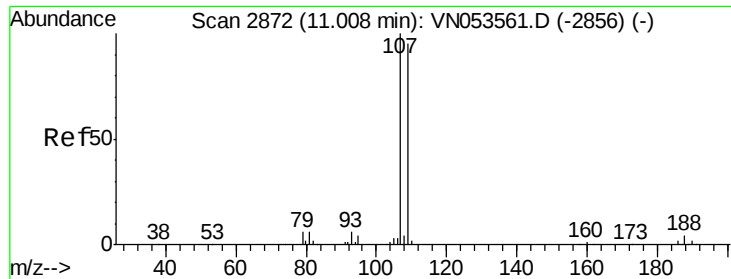
MMDadoda
2/20/2019 10:14:47 AM



#60
Dibromochloromethane
Concen: 57.078 ug/l
RT: 10.90 min Scan# 2839
Delta R.T. 0.00 min
Lab File: VN053856.D
Acq: 19 Feb 2019 9:02

Tgt Ion: 129 Resp: 350480
Ion Ratio Lower Upper
129 100
127 77.9 38.6 115.8





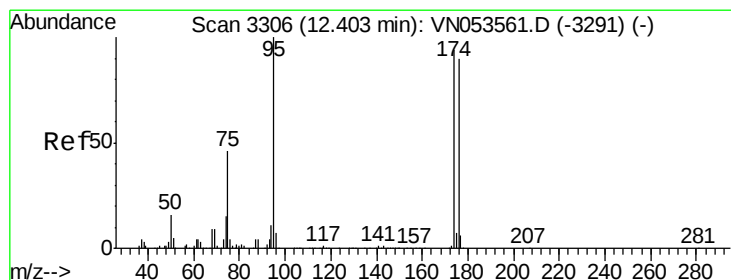
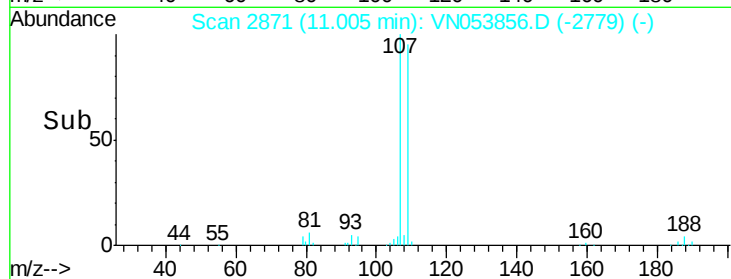
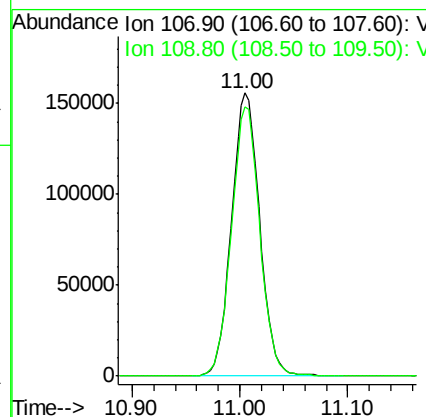
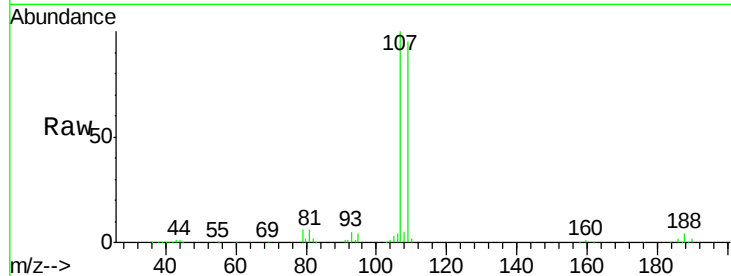
#61
 1,2-Dibromoethane
 Concen: 52.585 ug/l
 RT: 11.00 min Scan# 2871
 Delta R.T. -0.00 min
 Lab File: VN053856.D
 Acq: 19 Feb 2019 9:02

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion: 107 Resp: 283405
 Ion Ratio Lower Upper
 107 100
 109 95.9 75.7 113.5

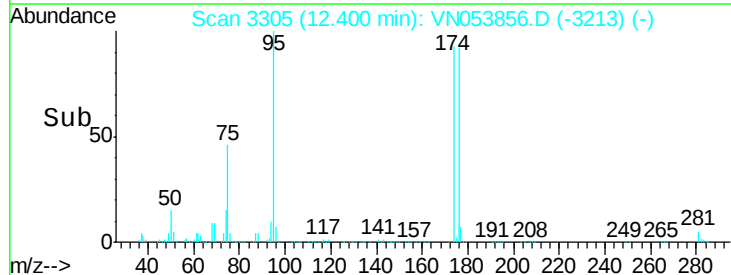
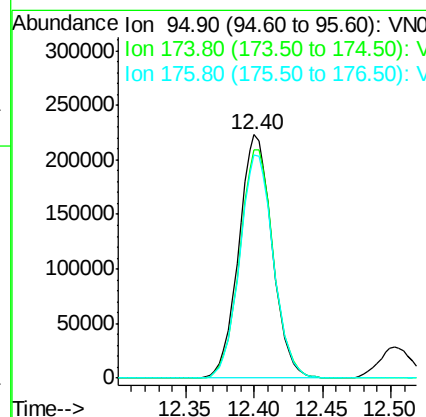
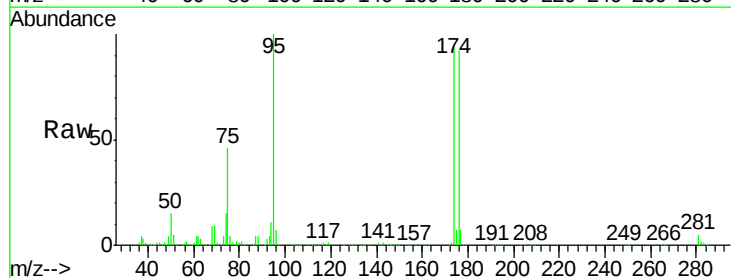
Manual Integrations
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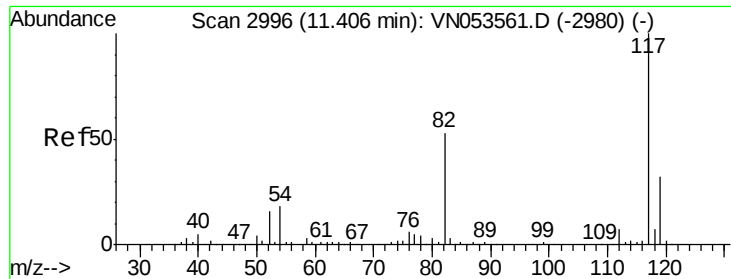
MMDadoda
 2/20/2019 10:14:47 AM



#62
 4-Bromofluorobenzene
 Concen: 52.258 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. -0.00 min
 Lab File: VN053856.D
 Acq: 19 Feb 2019 9:02

Tgt Ion: 95 Resp: 378746
 Ion Ratio Lower Upper
 95 100
 174 94.5 0.0 183.2
 176 92.5 0.0 177.4





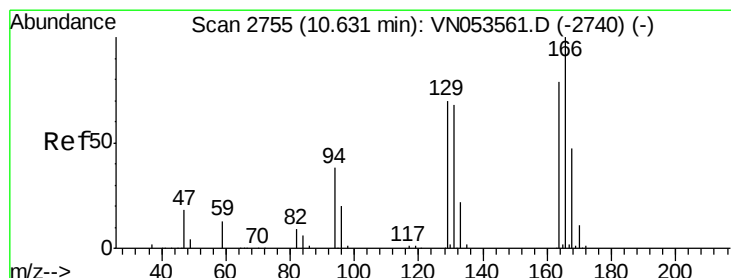
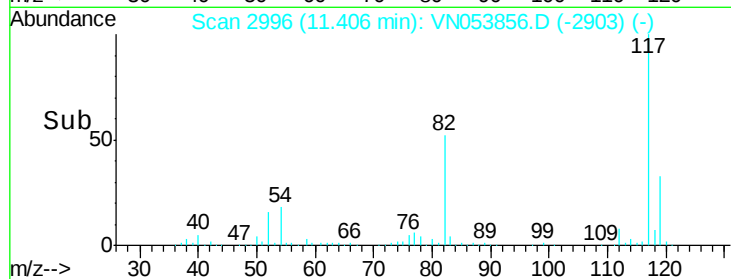
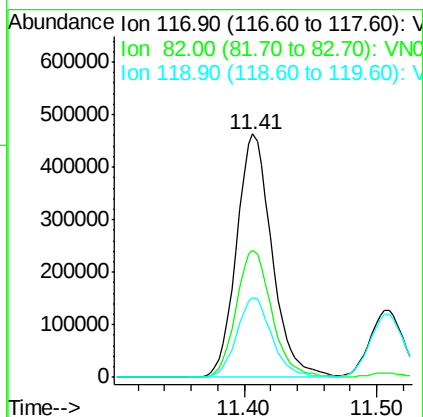
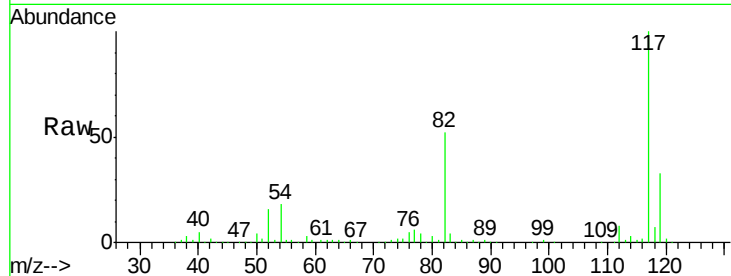
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN053856.D
Acq: 19 Feb 2019 9:02

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
117	100		
82	52.4	42.9	64.3
119	32.9	26.0	39.0

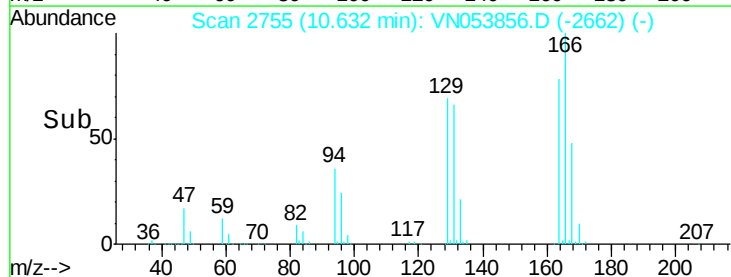
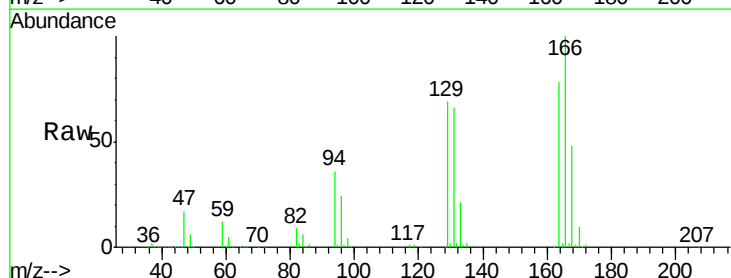
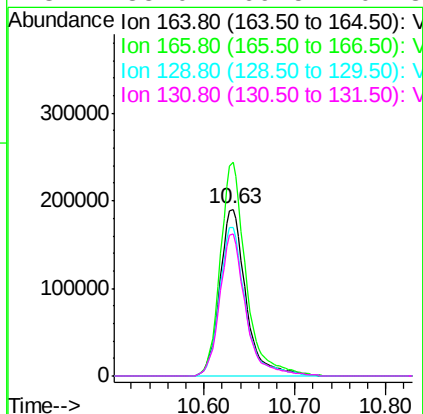
Manual Integrations
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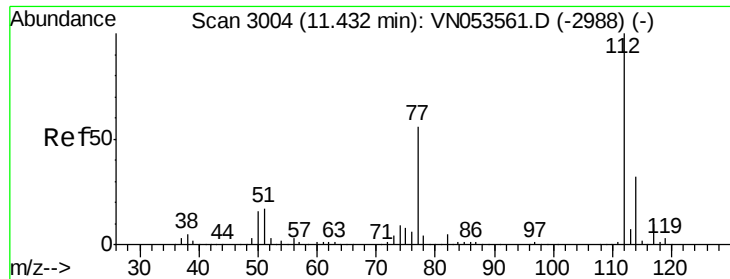
MMDadoda
2/20/2019 10:14:47 AM



#64
Tetrachloroethene
Concen: 51.312 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. 0.00 min
Lab File: VN053856.D
Acq: 19 Feb 2019 9:02

Tgt Ion	Ratio	Lower	Upper
164	100		
166	128.2	102.2	153.4
129	89.0	72.6	109.0
131	85.0	69.5	104.3





#65

Chlorobenzene

Concen: 49.390 ug/l

RT: 11.43 min Scan# 3004

Delta R.T. 0.00 min

Lab File: VN053856.D

Acq: 19 Feb 2019 9:02

Instrument :

MSVOA_N

ClientSampled :

VSTDCCC050

Tot Ion:112 Resp: 903105

Ion Ratio Lower Upper

112 100

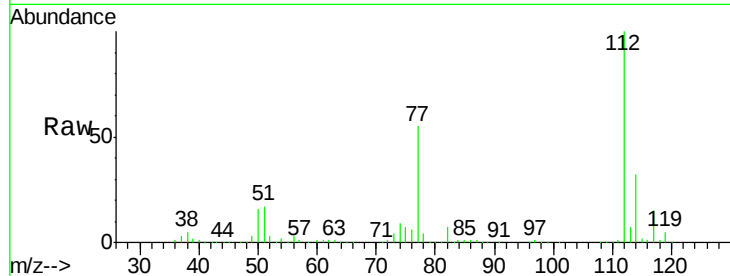
114 32.2 25.3 37.9

Manual Integrations

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Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V

11.43

500000

400000

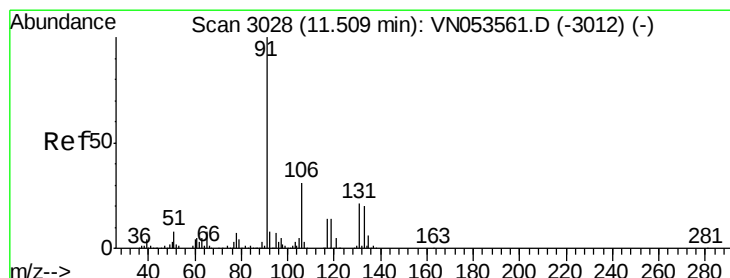
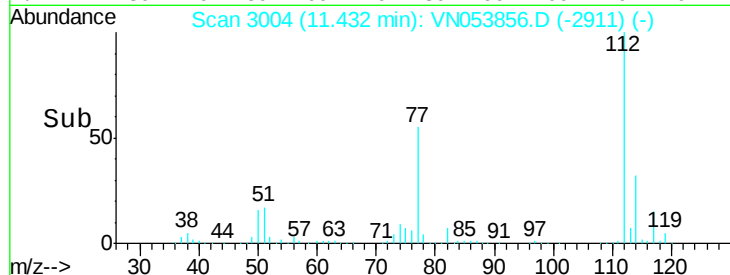
300000

200000

100000

0

Time-->



#66

1,1,1,2-Tetrachloroethane

Concen: 51.892 ug/l

RT: 11.51 min Scan# 3027

Delta R.T. -0.00 min

Lab File: VN053856.D

Acq: 19 Feb 2019 9:02

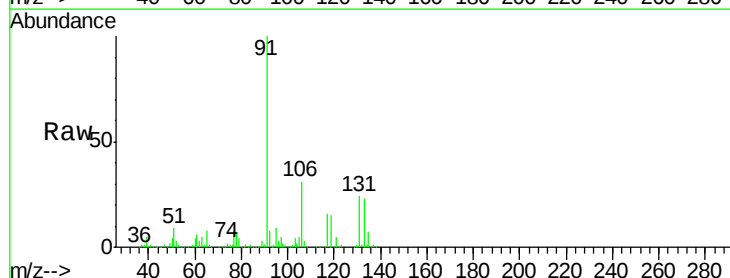
Tgt Ion:131 Resp: 331377

Ion Ratio Lower Upper

131 100

133 96.1 48.0 144.0

119 65.7 33.5 100.5



Abundance Ion 130.80 (130.50 to 131.50): V

Ion 132.80 (132.50 to 133.50): V

Ion 118.80 (118.50 to 119.50): V

11.51

250000

200000

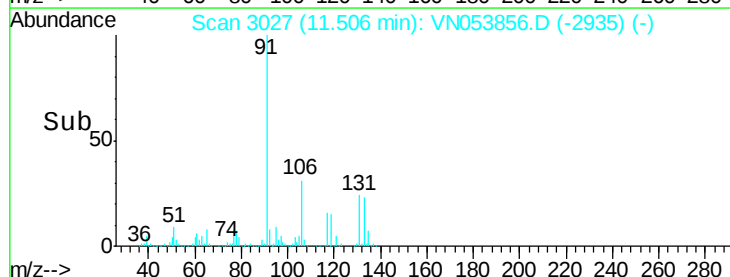
150000

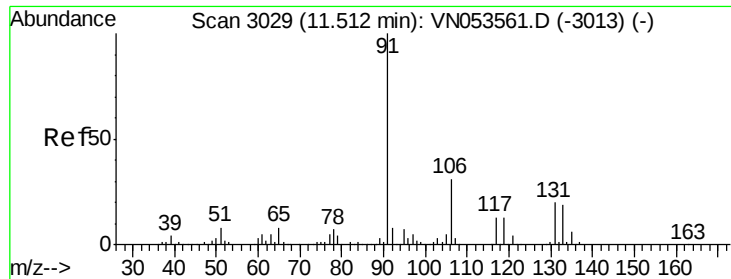
100000

50000

0

Time-->





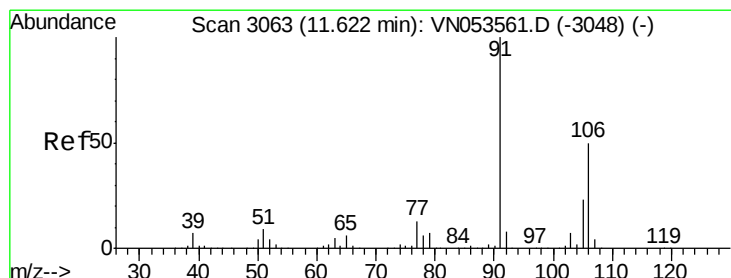
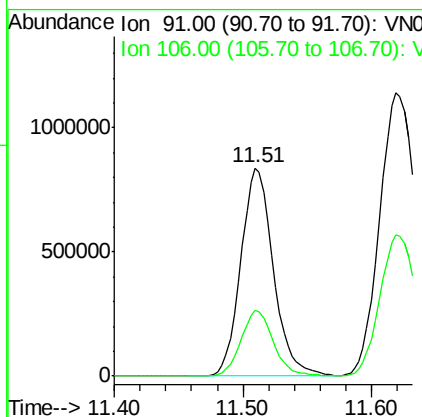
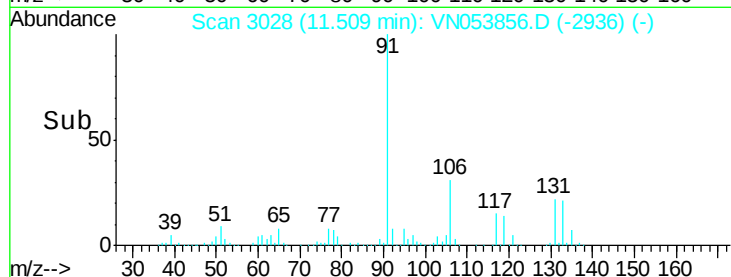
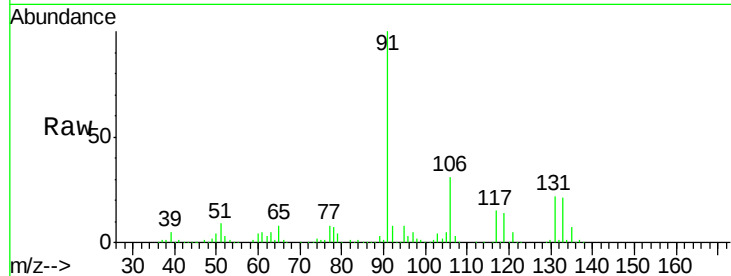
#67
Ethyl Benzene
Concen: 49.100 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. -0.00 min
Lab File: VN053856.D
Acq: 19 Feb 2019 9:02

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion: 91 Resp: 1474792
Ion Ratio Lower Upper
91 100
106 31.3 25.0 37.6

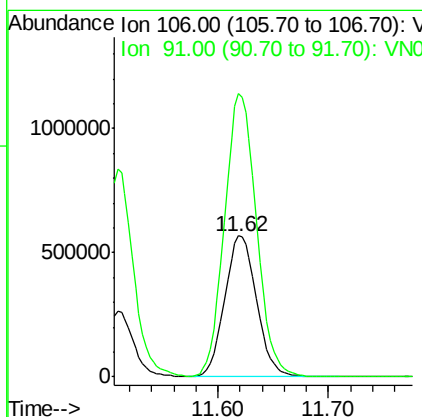
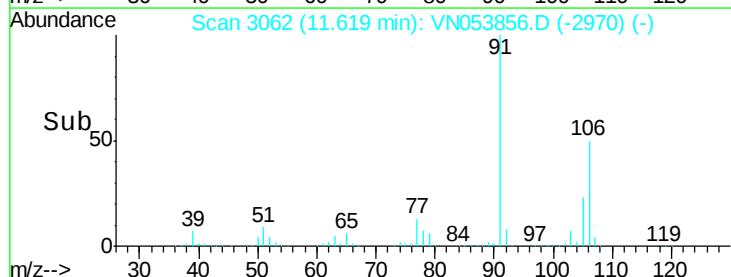
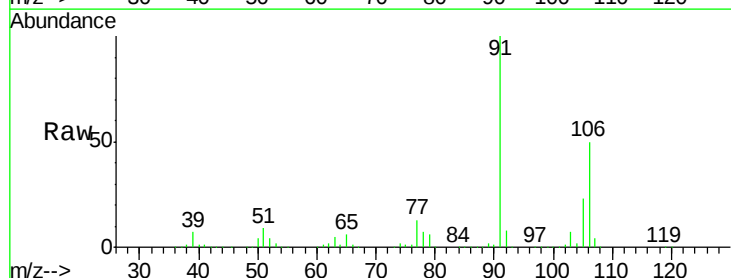
Manual Integrations
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#68
m/p-Xylenes
Concen: 99.504 ug/l
RT: 11.62 min Scan# 3062
Delta R.T. -0.00 min
Lab File: VN053856.D
Acq: 19 Feb 2019 9:02

Tgt Ion: 106 Resp: 1140702
Ion Ratio Lower Upper
106 100
91 200.9 161.4 242.2





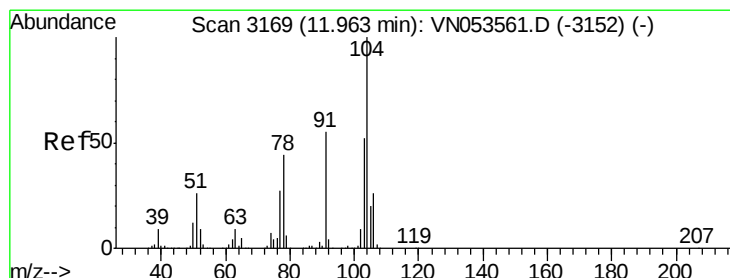
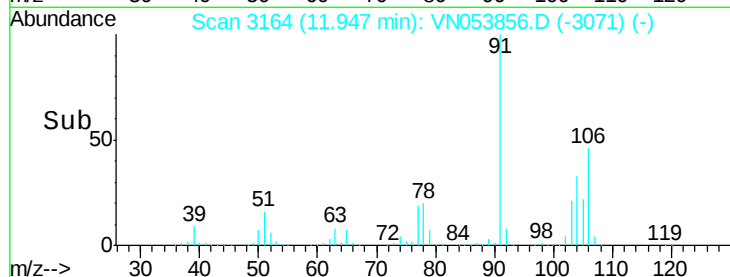
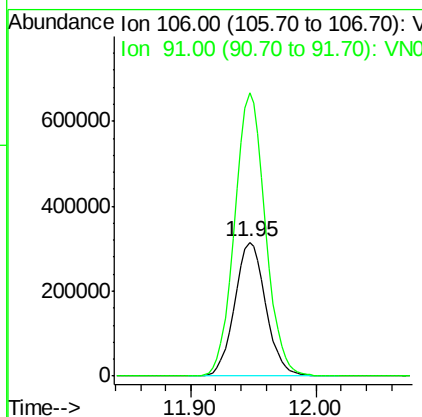
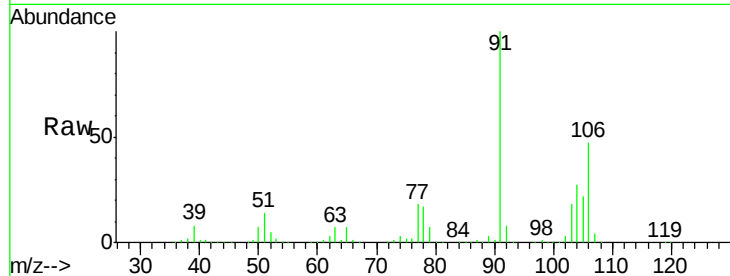
#69
o-Xylene
Concen: 48.863 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. 0.00 min
Lab File: VN053856.D
Acq: 19 Feb 2019 9:02

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion:106 Resp: 541164
Ion Ratio Lower Upper
106 100
91 209.8 106.9 320.8

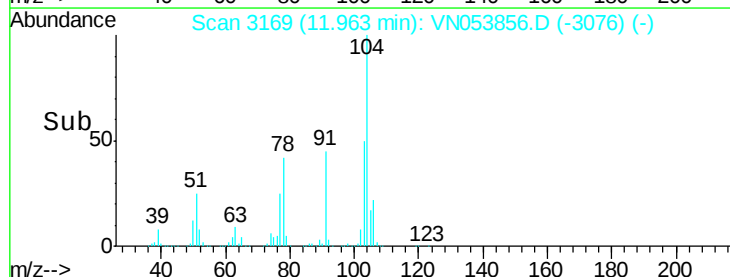
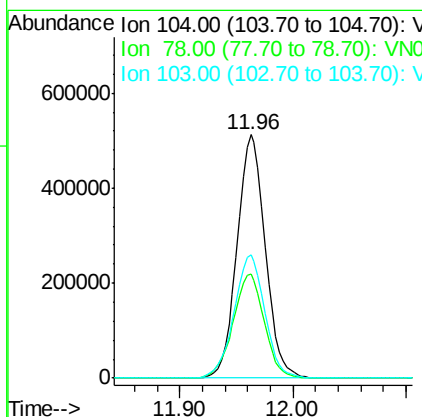
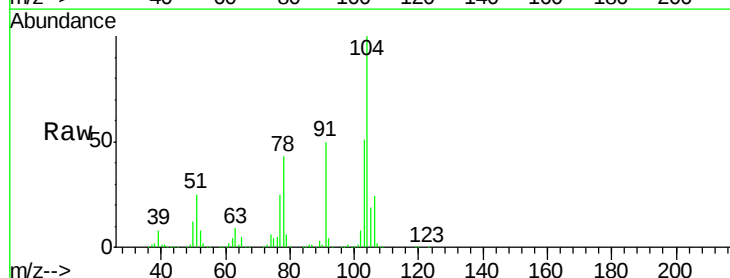
Manual Integrations
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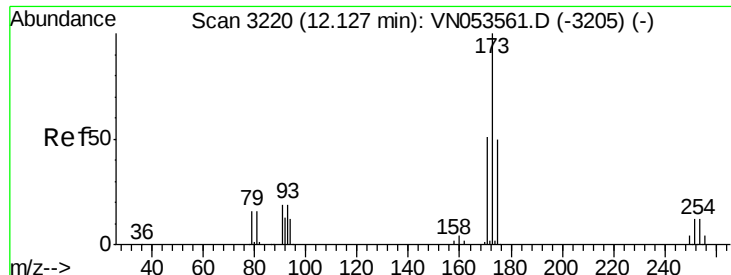
MMDadoda
2/20/2019 10:14:47 AM



#70
Styrene
Concen: 49.555 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. 0.00 min
Lab File: VN053856.D
Acq: 19 Feb 2019 9:02

Tgt Ion:104 Resp: 889557
Ion Ratio Lower Upper
104 100
78 47.2 38.2 57.2
103 55.2 44.4 66.6





#71

Bromoform

Concen: 53.023 ug/l

RT: 12.13 min Scan# 3220

Delta R.T. 0.00 min

Lab File: VN053856.D

Acq: 19 Feb 2019 9:02

Instrument :

MSVOA_N

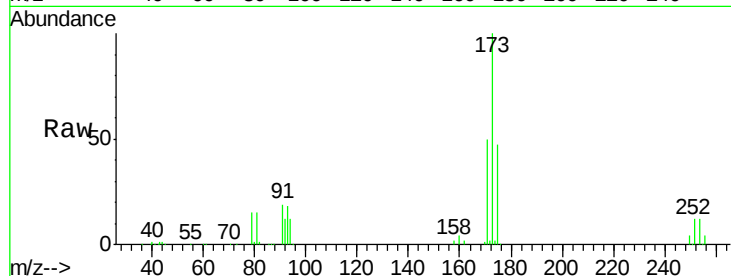
ClientSampleId :

VSTDCCC050

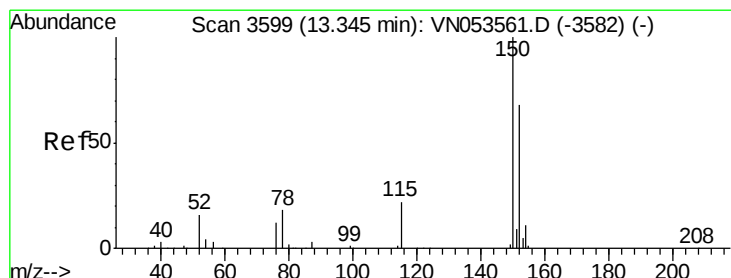
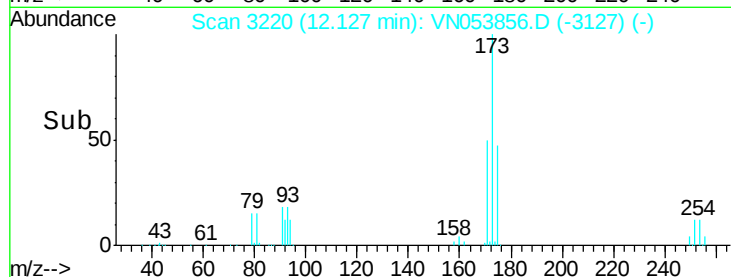
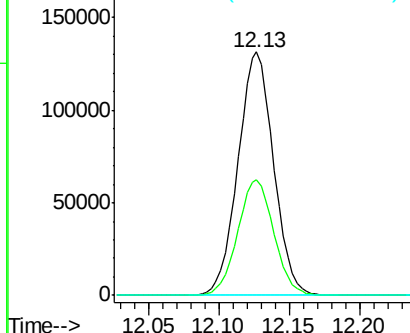
Tot Ion	Ratio	Lower	Upper
173	100		
175	48.1	24.6	74.0
254	0.1	0.2	0.2

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



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

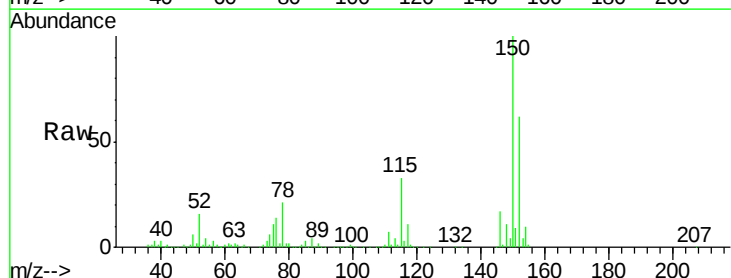
RT: 13.34 min Scan# 3598

Delta R.T. -0.00 min

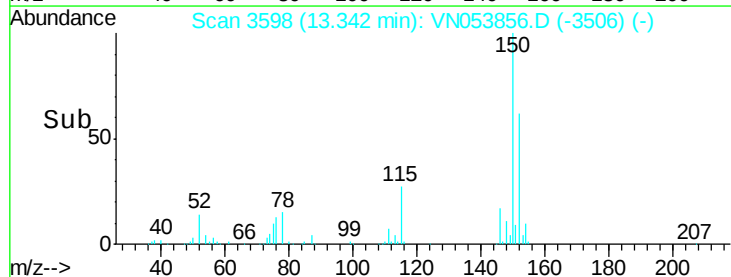
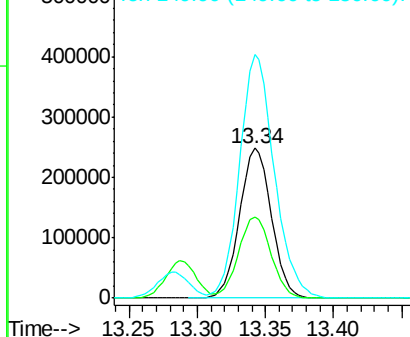
Lab File: VN053856.D

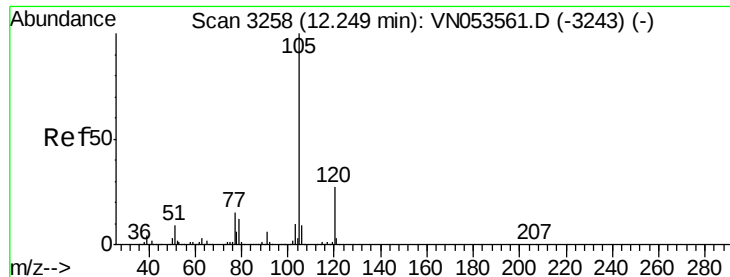
Acq: 19 Feb 2019 9:02

Tgt Ion	Ratio	Lower	Upper
152	100		
115	55.1	27.8	83.4
150	176.5	0.0	349.0



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





#73

Isopropylbenzene

Concen: 50.787 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. 0.00 min

Lab File: VN053856.D

Acq: 19 Feb 2019 9:02

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion:105 Resp: 1437821

Ion Ratio Lower Upper

105 100

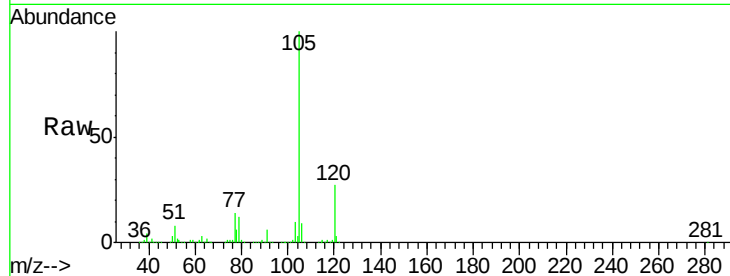
120 27.4 13.6 40.7

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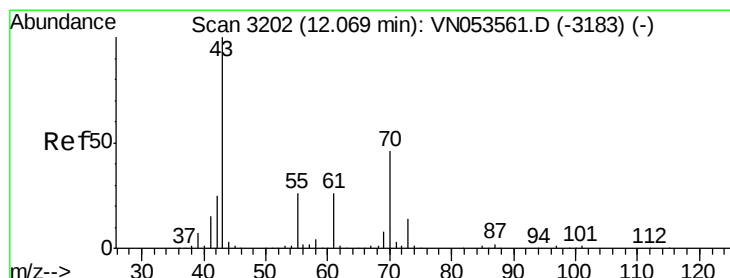
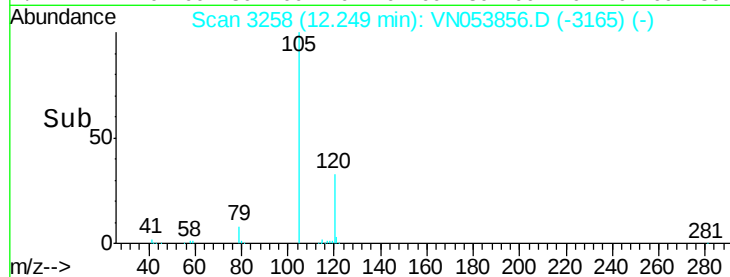
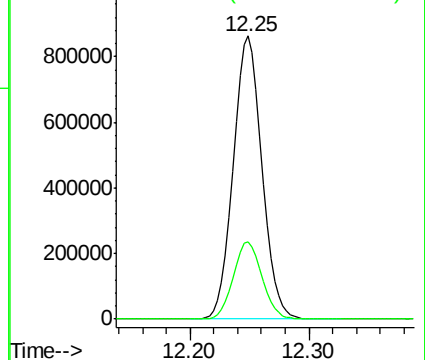
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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 47.853 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. 0.00 min

Lab File: VN053856.D

Acq: 19 Feb 2019 9:02

Tgt Ion: 43 Resp: 325779

Ion Ratio Lower Upper

43 100

70 46.6 35.4 53.2

55 27.7 20.9 31.3

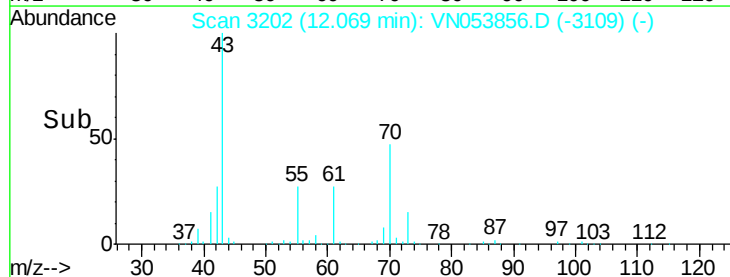
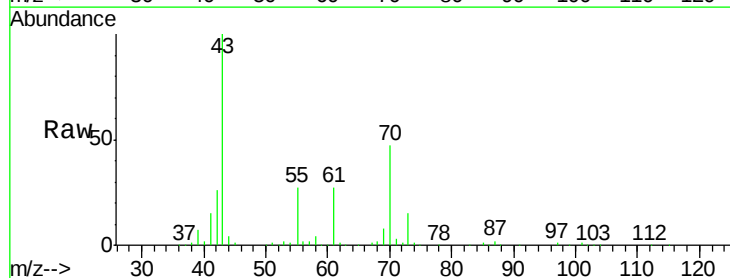
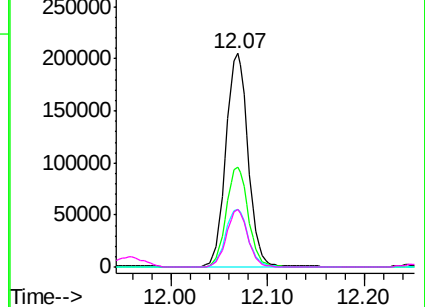
61 26.1 20.5 30.7

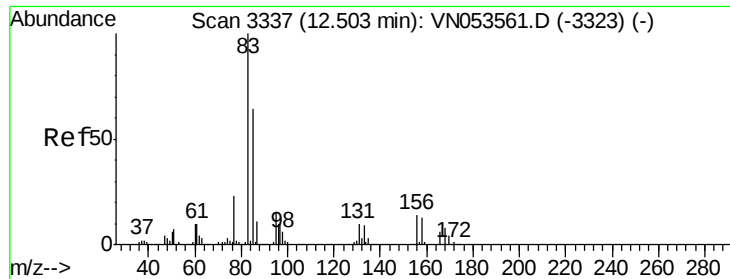
Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V





#75

1,1,2,2-Tetrachloroethane

Concen: 48.414 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. 0.00 min

Lab File: VN053856.D

Acq: 19 Feb 2019 9:02

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 83 Resp: 328029
Ion Ratio Lower Upper

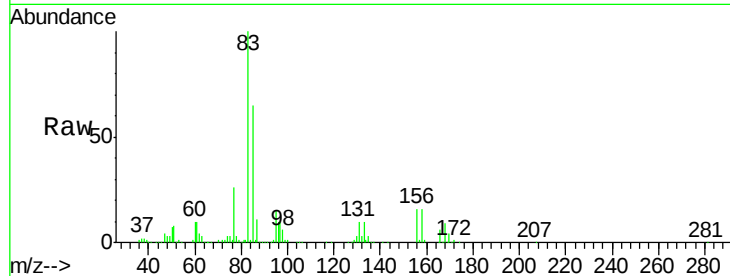
83 100

131 10.7 5.3 15.8

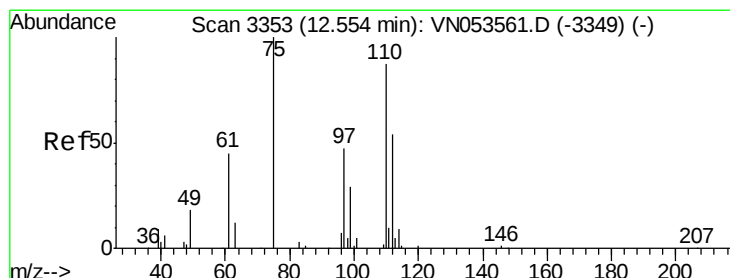
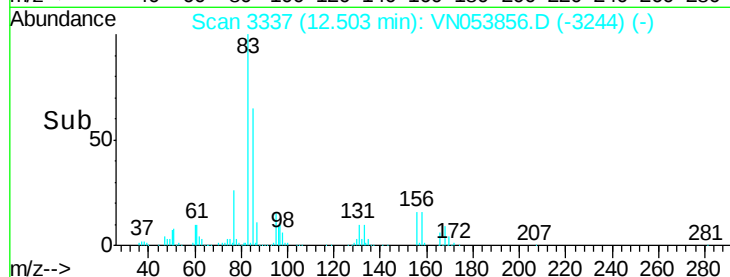
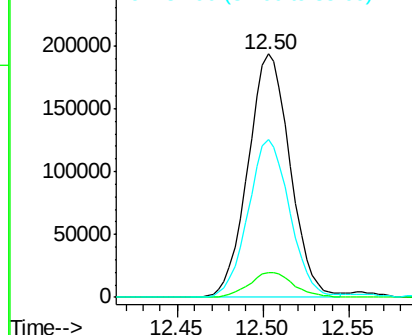
85 64.0 32.1 96.3

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



#76

1,2,3-Trichloropropane

Concen: 59.654 ug/l m

RT: 12.55 min Scan# 3353

Delta R.T. 0.00 min

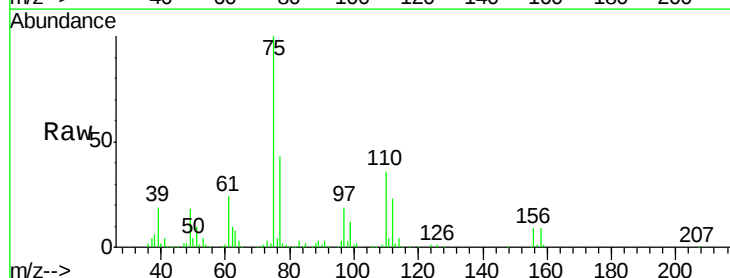
Lab File: VN053856.D

Acq: 19 Feb 2019 9:02

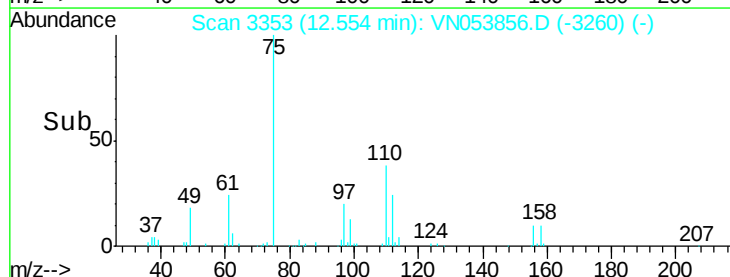
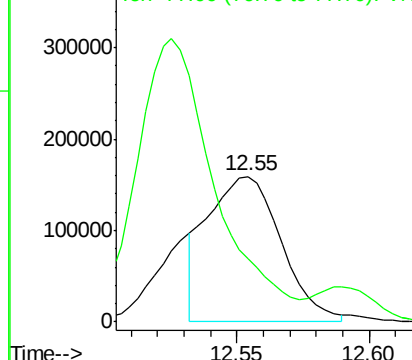
Tgt Ion: 75 Resp: 308575
Ion Ratio Lower Upper

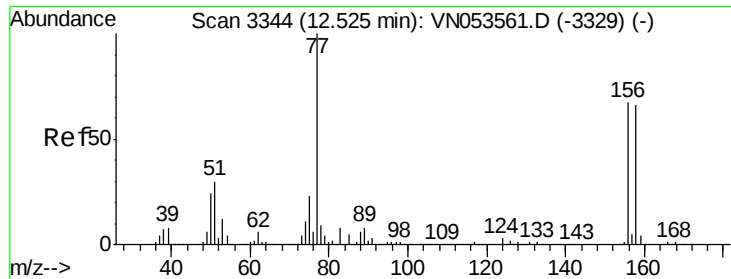
75 100

77 0.0 0.0 0.0



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





#77

Bromobenzene

Concen: 50.026 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. 0.00 min

Lab File: VN053856.D

Acq: 19 Feb 2019 9:02

Instrument :

MSVOA_N

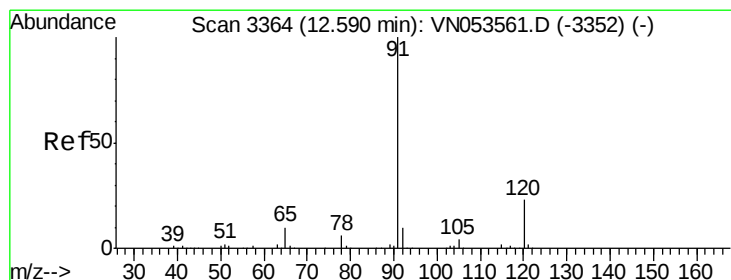
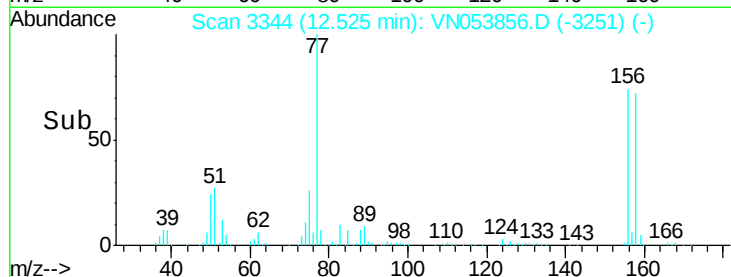
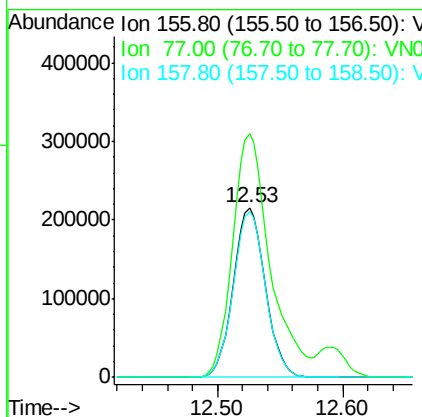
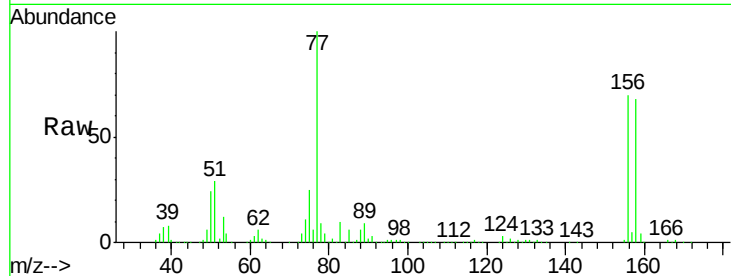
ClientSampleId :

VSTDCCC050

Tot Ion	Ion	Ratio	Resp	Lower	Upper
156	100		381697		
77	168.1	87.9	263.8		
158	98.3	48.8	146.4		

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#78

n-propylbenzene

Concen: 51.287 ug/l

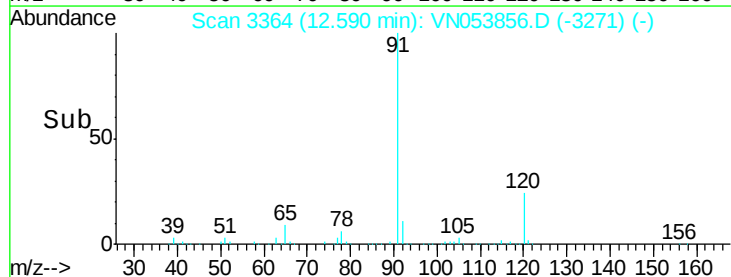
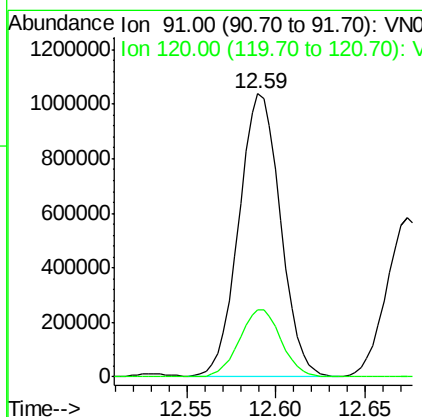
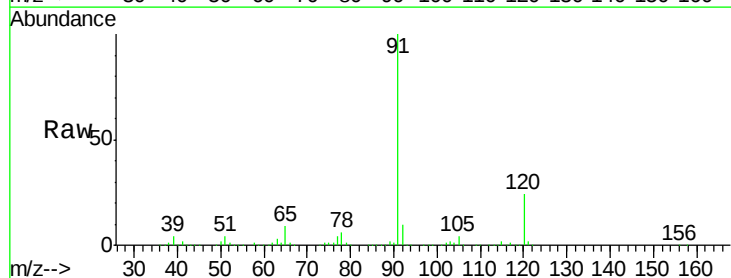
RT: 12.59 min Scan# 3364

Delta R.T. 0.00 min

Lab File: VN053856.D

Acq: 19 Feb 2019 9:02

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
91	100		1678512		
120	23.9	11.9	35.5		





#79

2-Chlorotoluene

Concen: 50.357 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. -0.00 min

Lab File: VN053856.D

Acq: 19 Feb 2019 9:02

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 91 Resp: 977774

Ion Ratio Lower Upper

91 100

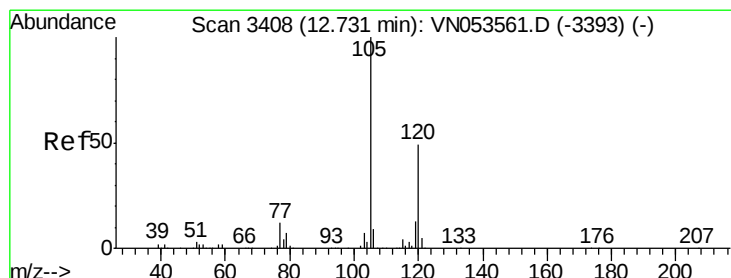
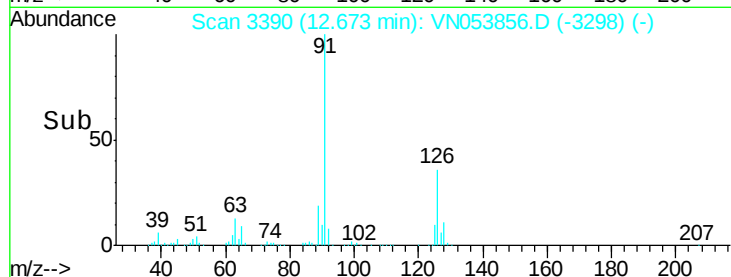
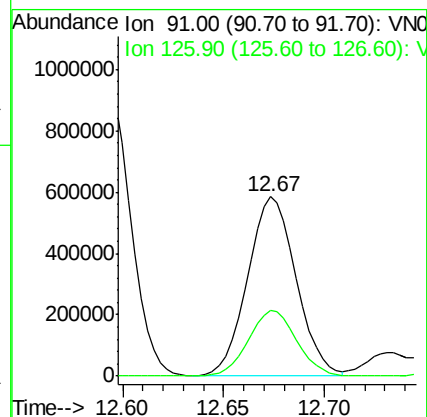
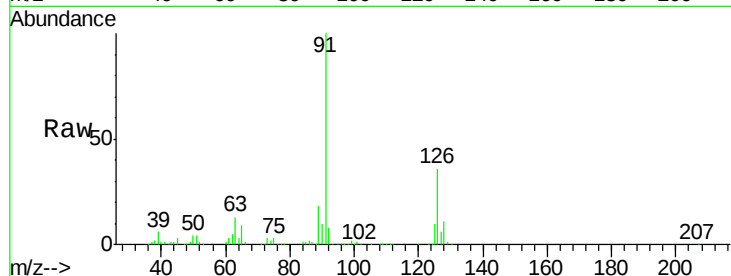
126 36.6 17.9 53.7

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#80

1,3,5-Trimethylbenzene

Concen: 52.843 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN053856.D

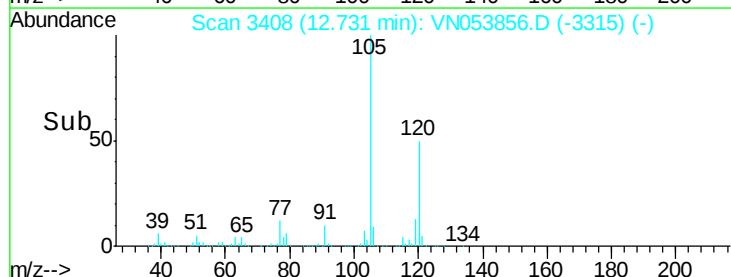
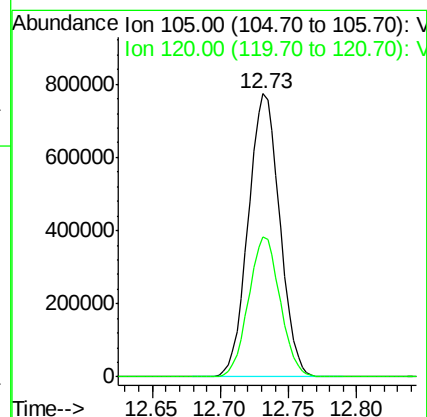
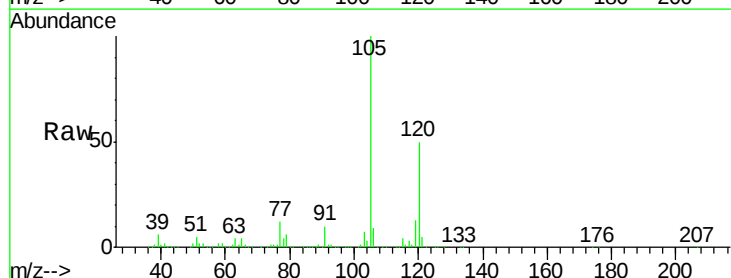
Acq: 19 Feb 2019 9:02

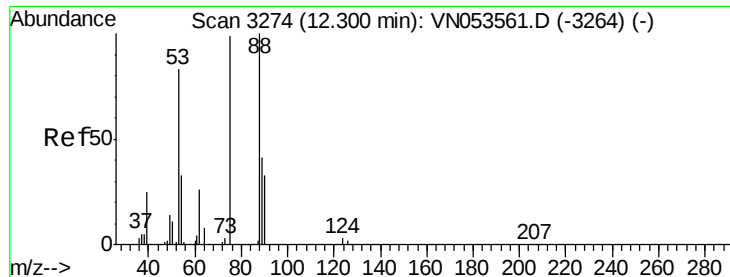
Tgt Ion: 105 Resp: 1240578

Ion Ratio Lower Upper

105 100

120 49.5 24.9 74.6





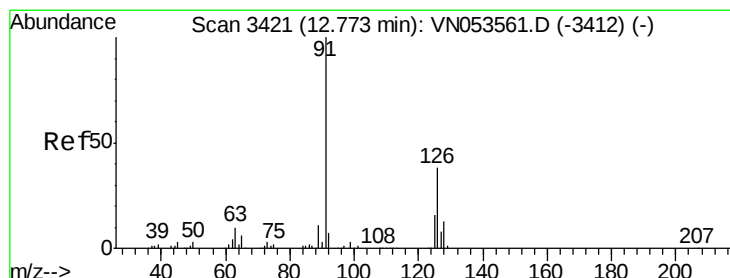
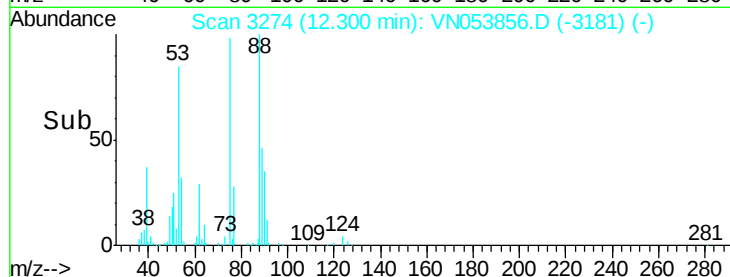
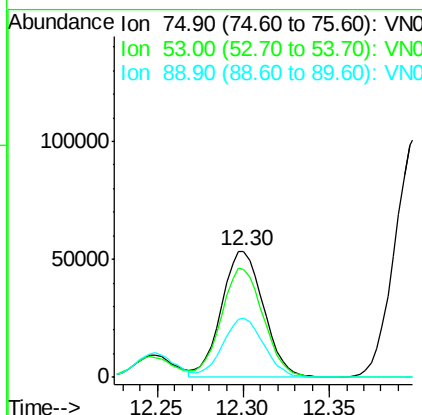
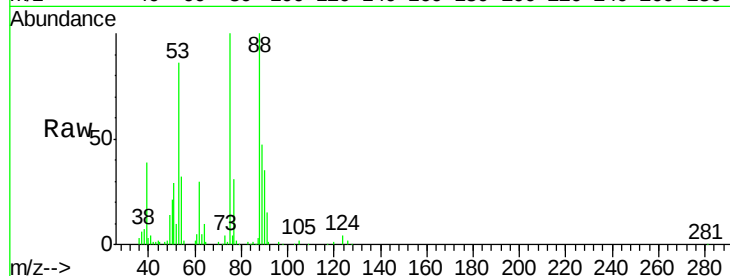
#81
trans-1,4-Dichloro-2-butene
Concen: 49.794 ug/l
RT: 12.30 min Scan# 3274
Delta R.T. 0.00 min
Lab File: VN053856.D
Acq: 19 Feb 2019 9:02

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
75	100		
53	86.7	69.8	104.6
89	45.3	35.6	53.4

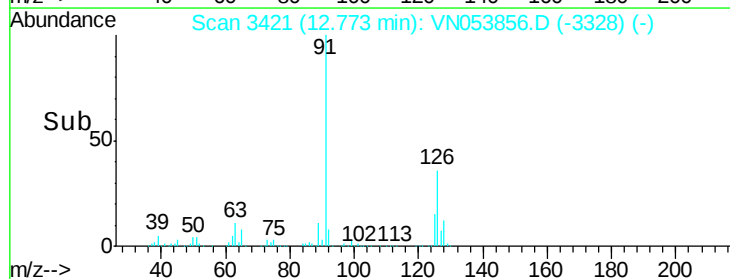
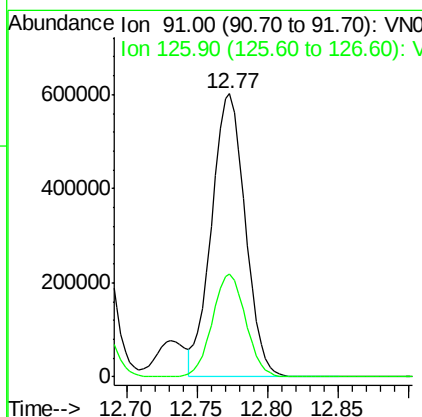
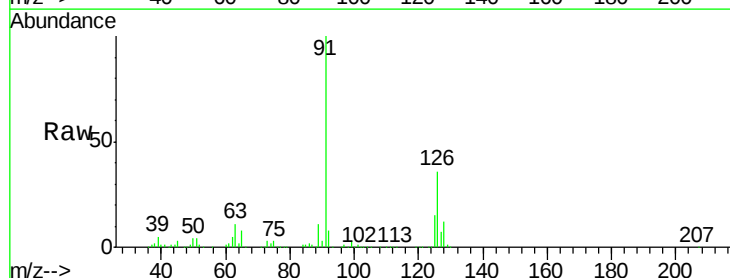
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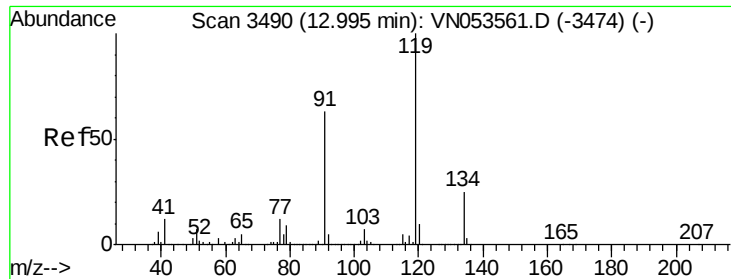
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#82
4-Chlorotoluene
Concen: 49.871 ug/l
RT: 12.77 min Scan# 3421
Delta R.T. 0.00 min
Lab File: VN053856.D
Acq: 19 Feb 2019 9:02

Tgt Ion	Ratio	Lower	Upper
91	100		
126	36.0	17.6	52.9





#83

tert-Butylbenzene

Concen: 53.283 ug/l

RT: 12.99 min Scan# 3489

Delta R.T. -0.00 min

Lab File: VN053856.D

Acq: 19 Feb 2019 9:02

Instrument :

MSVOA_N

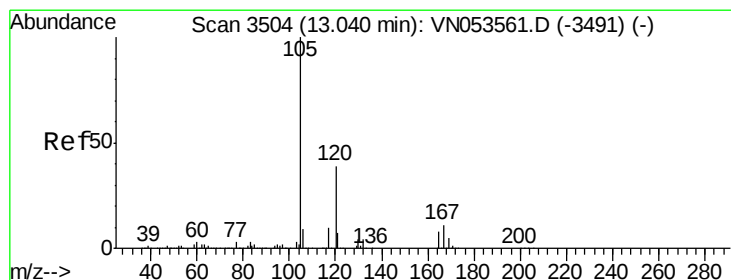
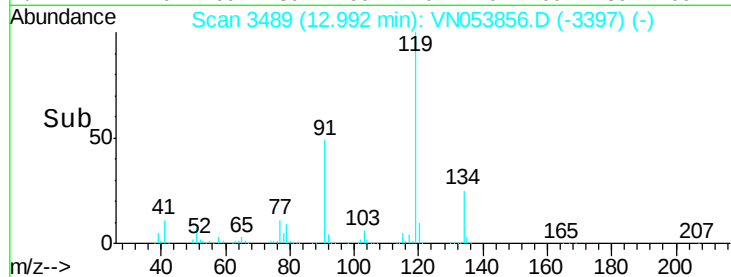
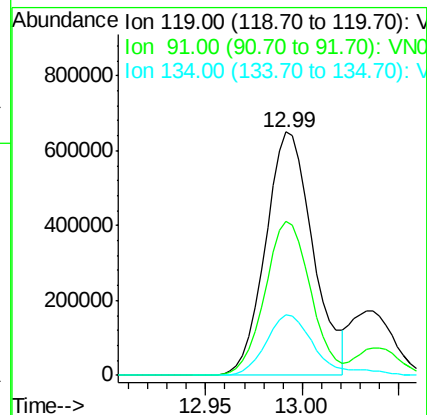
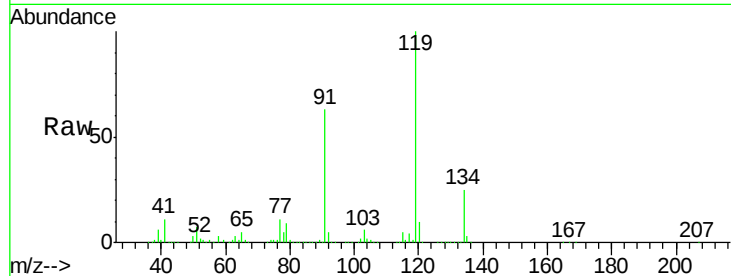
ClientSampleId :

VSTDCCC050

Tot Ion:	119	Resp:	1105581
Ion	Ratio	Lower	Upper
119	100		
91	60.9	31.3	93.8
134	25.9	12.9	38.7

Manual Integrations
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#84

1,2,4-Trimethylbenzene

Concen: 52.258 ug/l

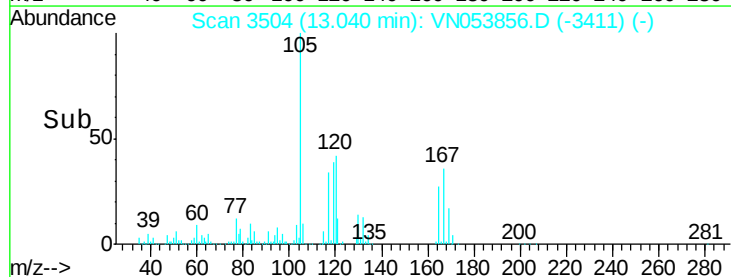
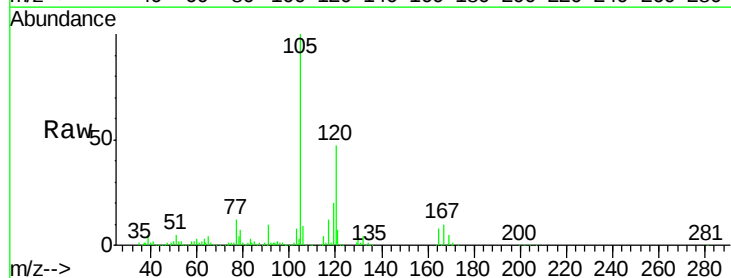
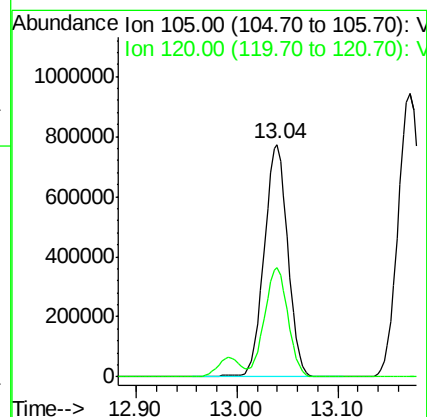
RT: 13.04 min Scan# 3504

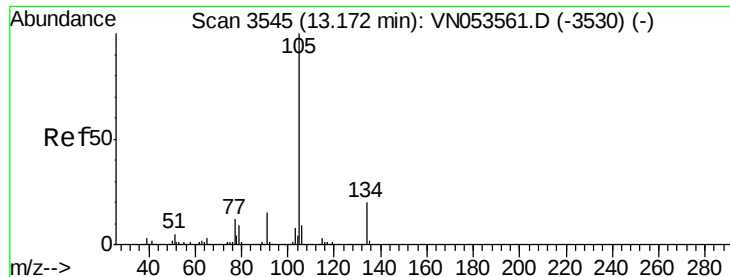
Delta R.T. 0.00 min

Lab File: VN053856.D

Acq: 19 Feb 2019 9:02

Tgt Ion:	105	Resp:	1249936
Ion	Ratio	Lower	Upper
105	100		
120	46.9	23.0	69.0





#85

sec-Butylbenzene

Concen: 53.264 ug/l

RT: 13.17 min Scan# 3545

Delta R.T. 0.00 min

Lab File: VN053856.D

Acq: 19 Feb 2019 9:02

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion:105 Resp: 1503957

Ion Ratio Lower Upper

105 100

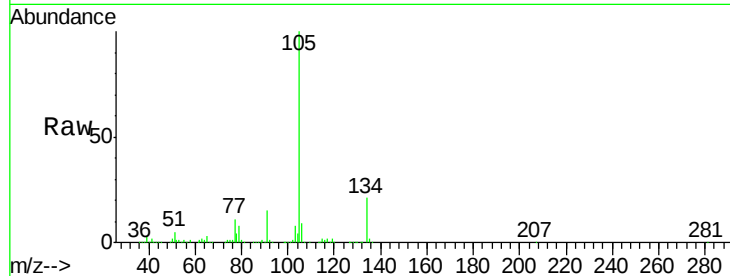
134 21.0 10.2 30.6

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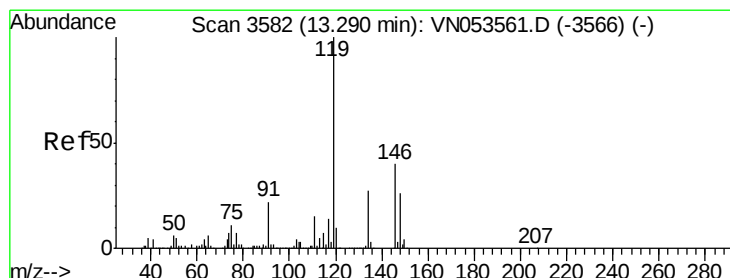
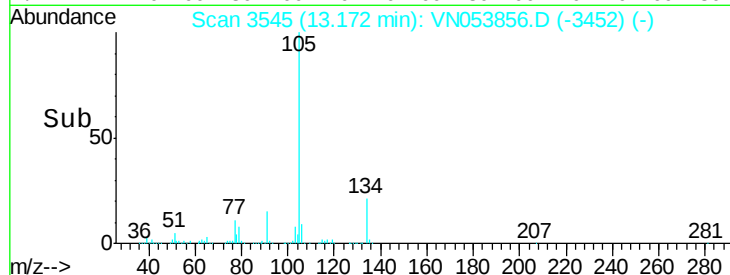
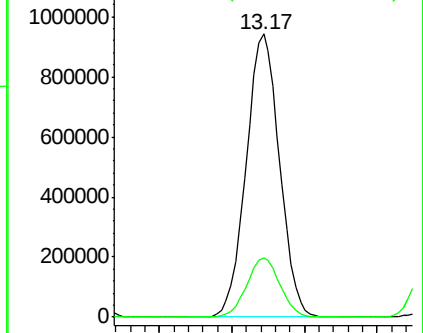
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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 53.884 ug/l

RT: 13.29 min Scan# 3581

Delta R.T. -0.00 min

Lab File: VN053856.D

Acq: 19 Feb 2019 9:02

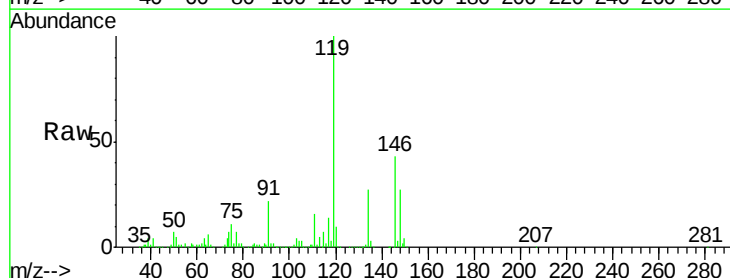
Tgt Ion:119 Resp: 1330649

Ion Ratio Lower Upper

119 100

134 27.6 13.5 40.4

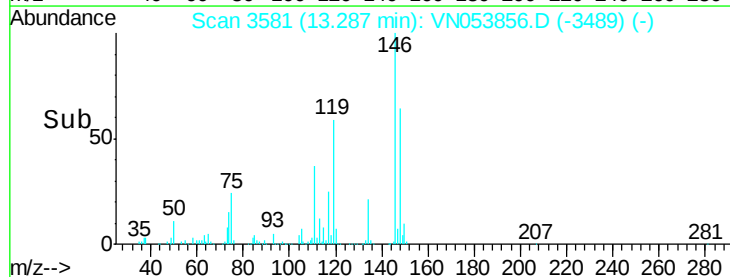
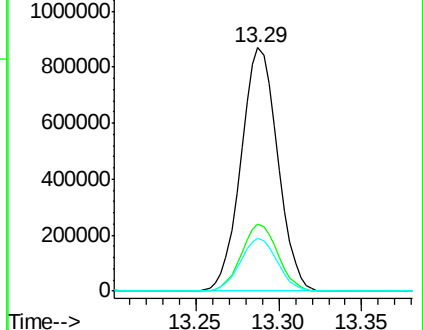
91 21.8 11.0 33.0

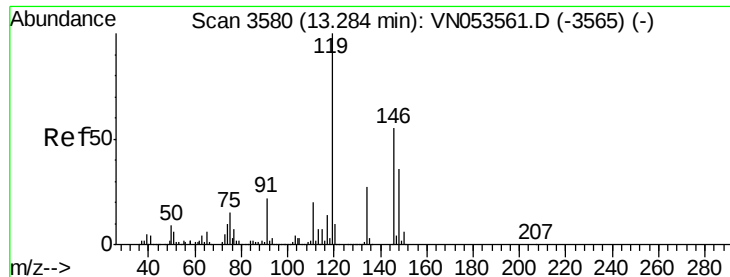


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V





#87

1,3-Dichlorobenzene

Concen: 50.493 ug/l

RT: 13.28 min Scan# 3579

Delta R.T. -0.00 min

Lab File: VN053856.D

Acq: 19 Feb 2019 9:02

Instrument :

MSVOA_N

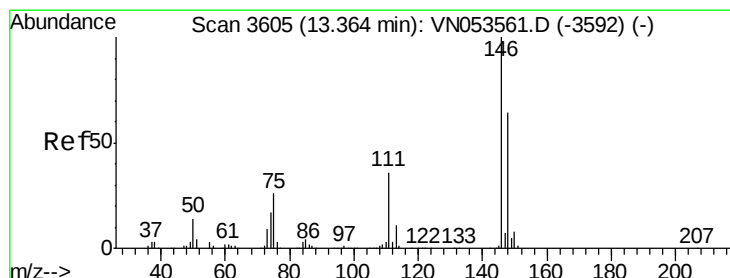
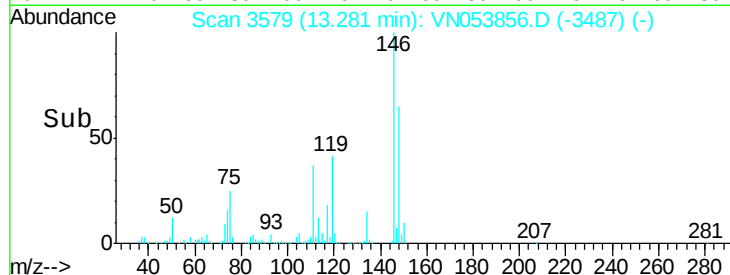
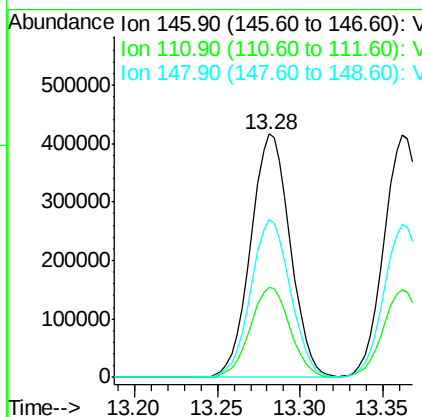
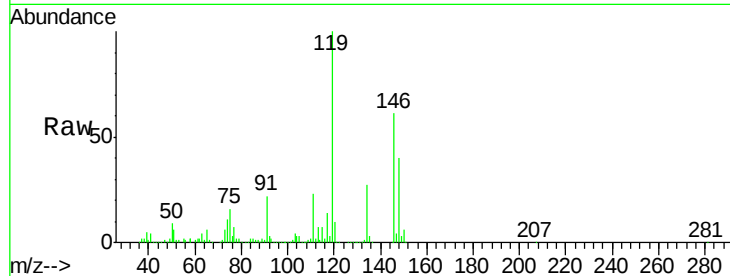
ClientSampleId :

VSTDCCC050

Tot Ion:	146	Resp:	692563
Ion Ratio	Lower	Upper	
146	100		
111	37.3	18.8	56.3
148	64.8	32.0	96.2

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#88

1,4-Dichlorobenzene

Concen: 50.643 ug/l

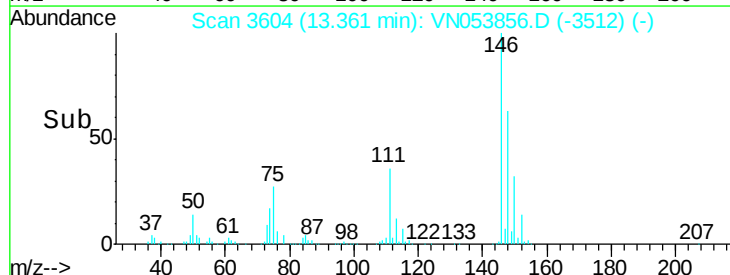
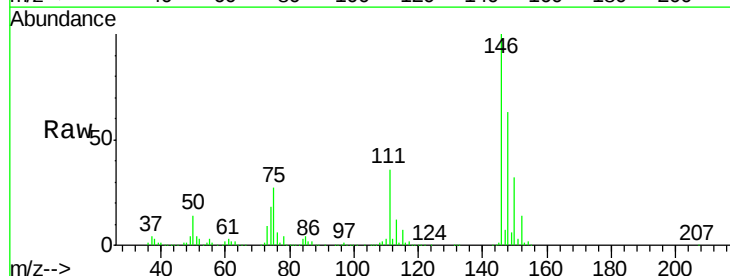
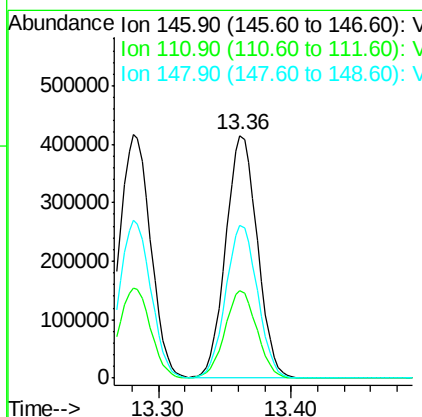
RT: 13.36 min Scan# 3604

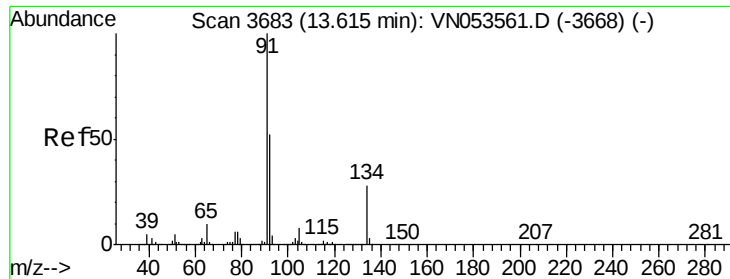
Delta R.T. -0.00 min

Lab File: VN053856.D

Acq: 19 Feb 2019 9:02

Tgt Ion:	146	Resp:	687116
Ion Ratio	Lower	Upper	
146	100		
111	36.2	18.6	55.8
148	63.3	32.4	97.0





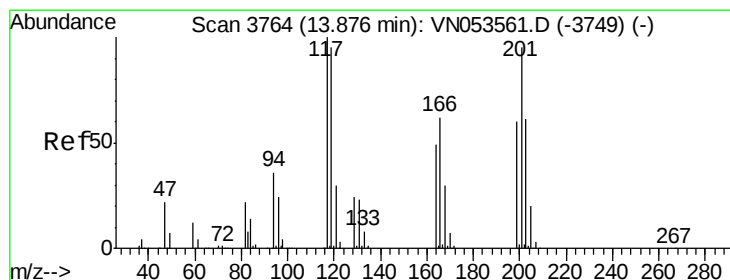
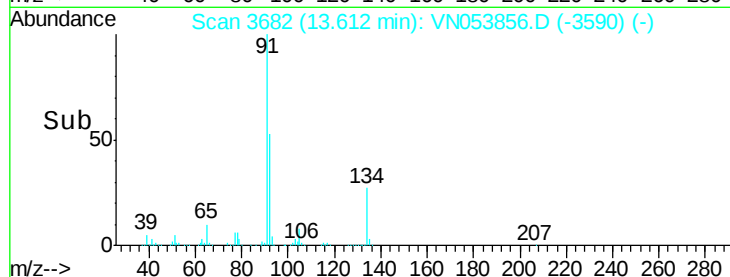
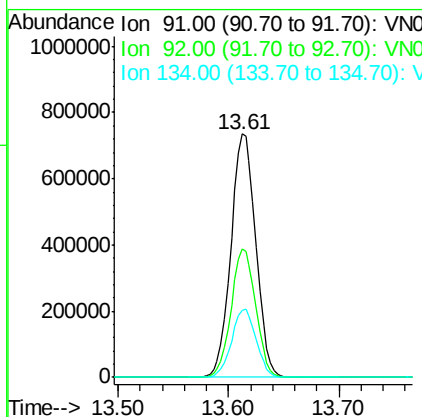
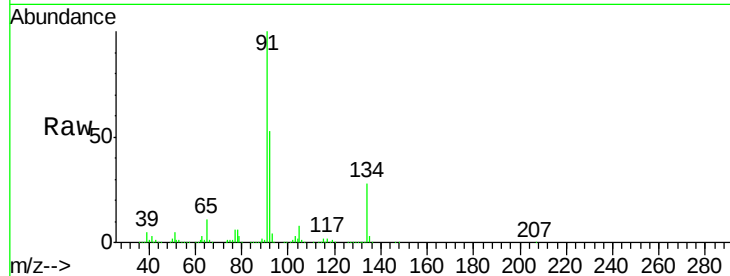
#89
n-Butylbenzene
Concen: 53.615 ug/l
RT: 13.61 min Scan# 3682
Delta R.T. -0.00 min
Lab File: VN053856.D
Acq: 19 Feb 2019 9:02

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
91	100		
92	52.2	26.3	78.8
134	27.6	13.5	40.5

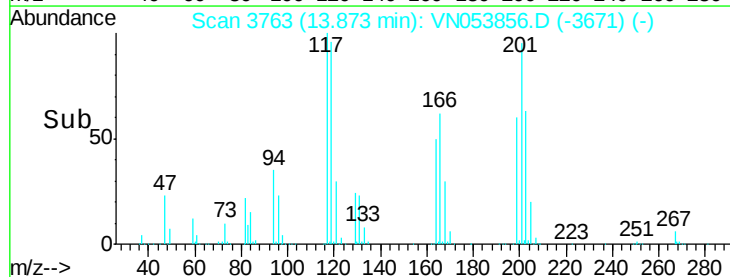
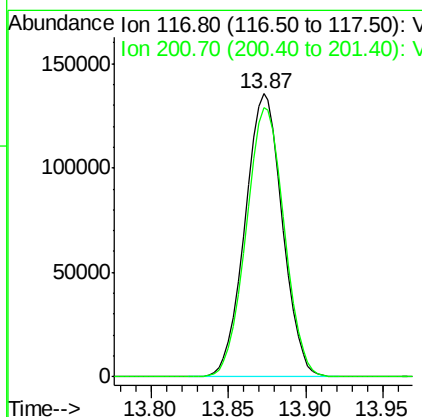
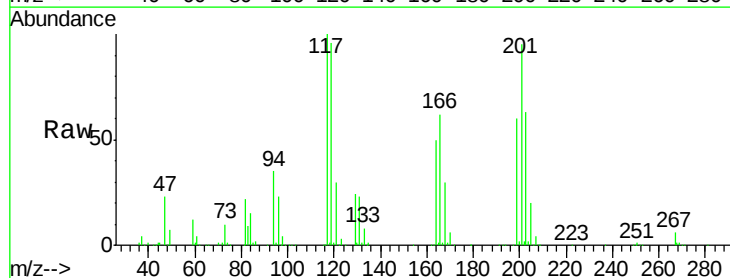
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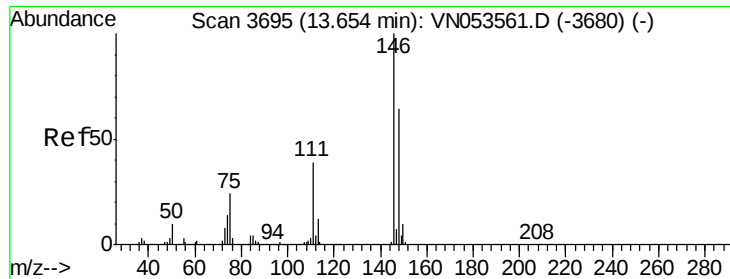
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#90
Hexachloroethane
Concen: 56.120 ug/l
RT: 13.87 min Scan# 3763
Delta R.T. -0.00 min
Lab File: VN053856.D
Acq: 19 Feb 2019 9:02

Tgt Ion	Ratio	Lower	Upper
117	100		
201	96.3	46.8	140.4





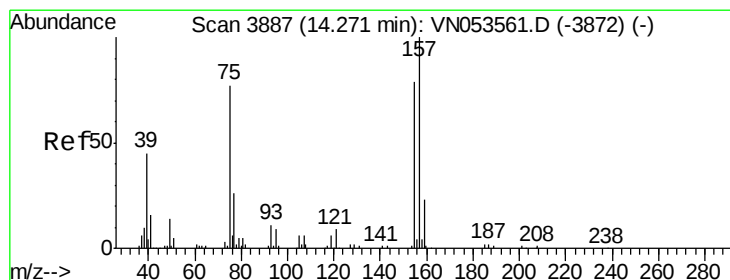
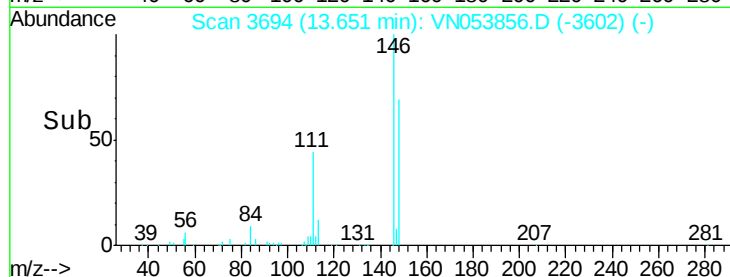
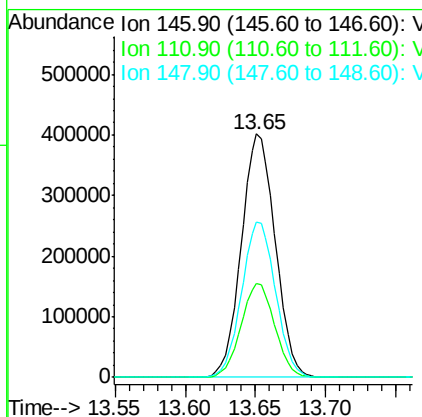
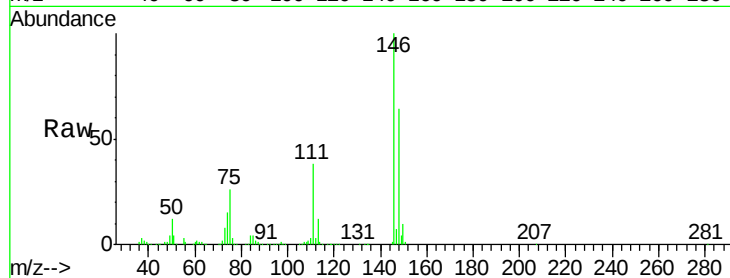
#91
 1,2-Dichlorobenzene
 Concen: 51.510 ug/l
 RT: 13.65 min Scan# 3694
 Delta R.T. -0.00 min
 Lab File: VN053856.D
 Acq: 19 Feb 2019 9:02

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.4	19.5	58.5
148	64.0	31.9	95.9

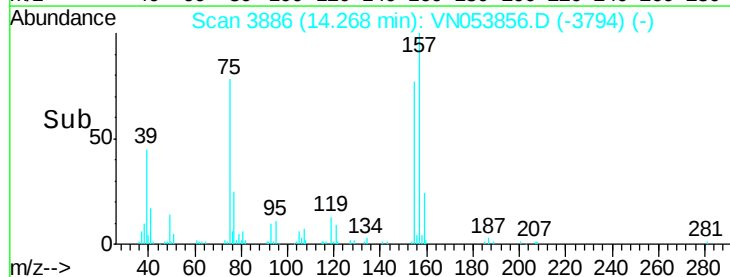
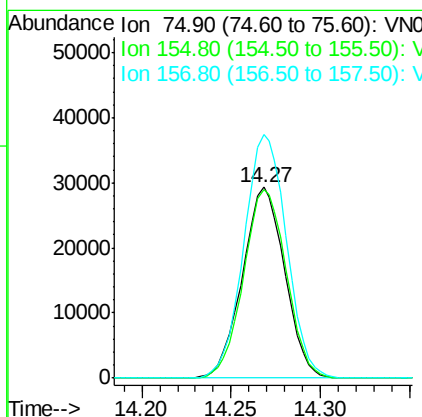
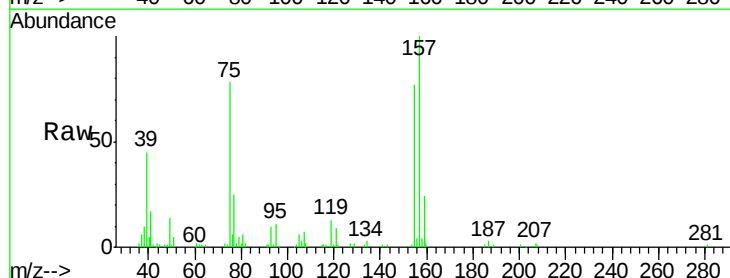
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#92
 1,2-Dibromo-3-Chloropropane
 Concen: 50.434 ug/l
 RT: 14.27 min Scan# 3886
 Delta R.T. -0.00 min
 Lab File: VN053856.D
 Acq: 19 Feb 2019 9:02

Tgt Ion	Ratio	Lower	Upper
75	100		
155	99.6	48.9	146.7
157	128.9	63.7	191.3





#93

1,2,4-Trichlorobenzene

Concen: 51.992 ug/l

RT: 14.91 min Scan# 4085

Delta R.T. 0.00 min

Lab File: VN053856.D

Acq: 19 Feb 2019 9:02

Instrument :

MSVOA_N

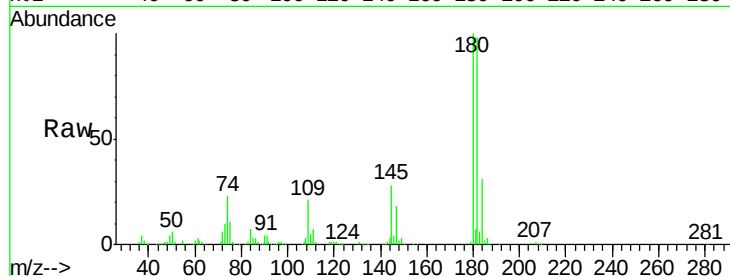
ClientSampleId :

VSTDCCC050

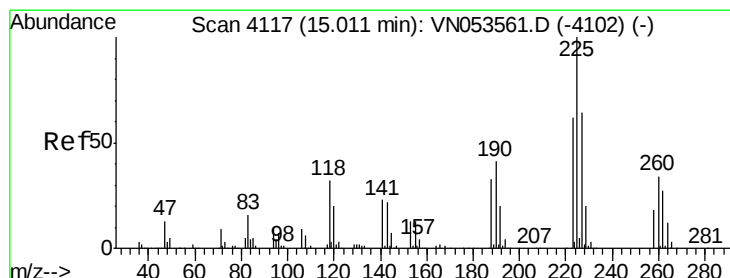
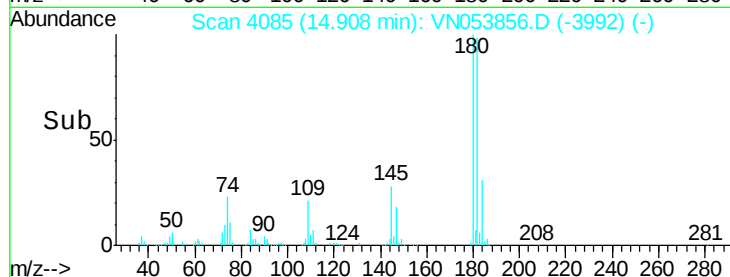
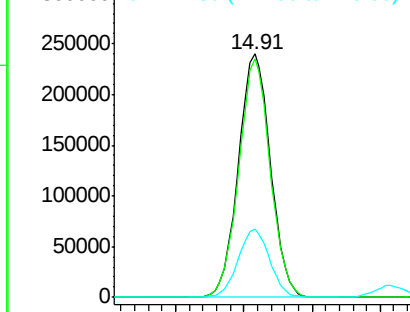
Tot Ion:	180	Resp:	391555
Ion Ratio	Lower	Upper	
180	100		
182	95.8	48.1	144.3
145	27.8	13.9	41.6

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



#94

Hexachlorobutadiene

Concen: 57.041 ug/l

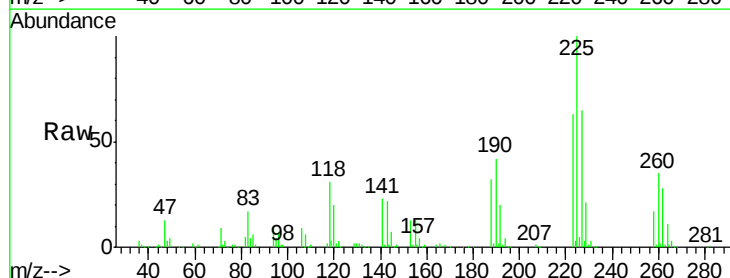
RT: 15.01 min Scan# 4116

Delta R.T. -0.00 min

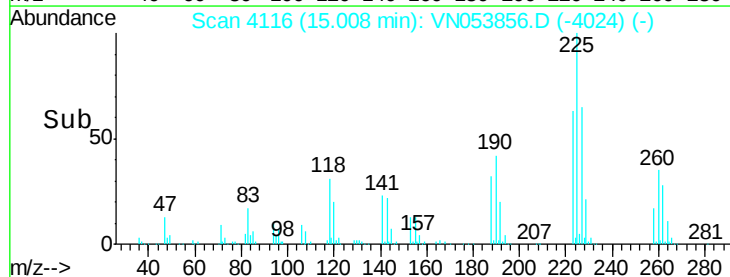
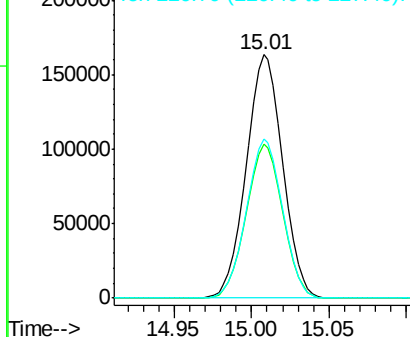
Lab File: VN053856.D

Acq: 19 Feb 2019 9:02

Tgt Ion:	225	Resp:	267524
Ion Ratio	Lower	Upper	
225	100		
223	63.3	31.1	93.2
227	65.1	32.0	96.2



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





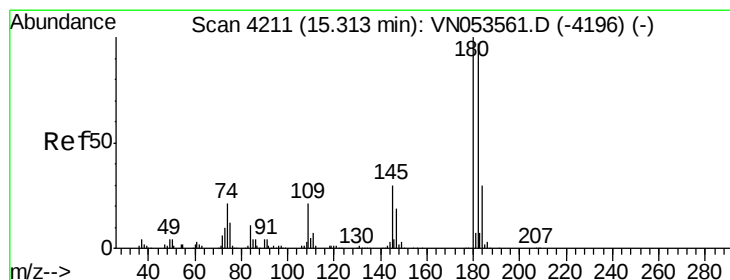
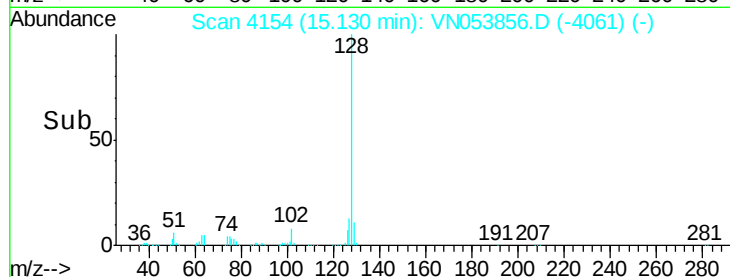
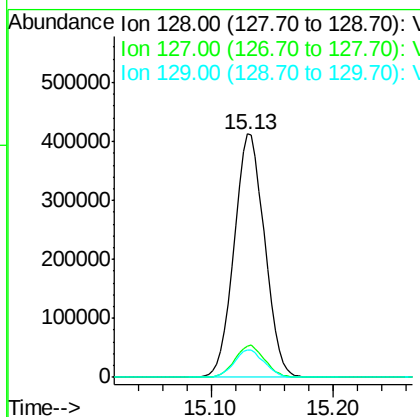
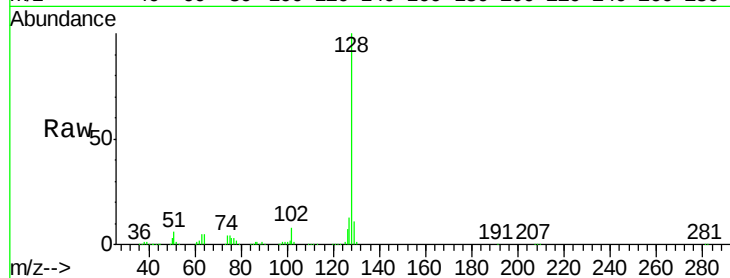
#95
Naphthalene
Concen: 40.634 ug/l
RT: 15.13 min Scan# 4154
Delta R.T. -0.00 min
Lab File: VN053856.D
Acq: 19 Feb 2019 9:02

Instrument :
MSVOA_N
ClientSampled :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
128	100	712897		
127	12.9		10.3	15.5
129	11.1		8.6	13.0

Manual Integrations
APPROVED

MMDadoda
2/20/2019 10:14:47 AM



#96
1,2,3-Trichlorobenzene
Concen: 52.445 ug/l
RT: 15.31 min Scan# 4211
Delta R.T. 0.00 min
Lab File: VN053856.D
Acq: 19 Feb 2019 9:02

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	366477		
182	95.5		47.9	143.8
145	28.8		14.7	44.1

