

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN121418\
 Data File : VN052913.D
 Acq On : 15 Dec 2018 2:13
 Operator : MD\SY
 Sample : VSTDCCC050
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 38 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Manual Integrations
 APPROVED

MMDadoda
 12/17/2018 3:06:05 PM

Quant Time: Dec 15 04:25:19 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N121218W.M
 Quant Title : SW846 8260
 QLast Update : Thu Dec 13 01:08:35 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	1221565	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1890846	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1625726	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	702729	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	648762	49.95	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.90%	
35) Dibromofluoromethane	7.59	113	415387	39.36	ug/l	0.00
Spiked Amount	50.000		Recovery	=	78.72%	
50) Toluene-d8	10.09	98	2270515	49.62	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.24%	
62) 4-Bromofluorobenzene	12.40	95	743644	47.96	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.92%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	602471	47.911	ug/l	99
3) Chloromethane	2.06	50	681834	45.178	ug/l	100
4) Vinyl Chloride	2.19	62	741297	49.096	ug/l	99
5) Bromomethane	2.57	94	441873	47.448	ug/l	100
6) Chloroethane	2.71	64	441686	49.490	ug/l	98
7) Trichlorofluoromethane	3.03	101	960594	51.315	ug/l	100
8) Diethyl Ether	3.42	74	355878	52.117	ug/l	98
9) 1,1,2-Trichlorotrifluoroet	3.77	101	590100	50.863	ug/l	99
10) Methyl Iodide	3.96	142	848912	52.249	ug/l	100
11) Tert butyl alcohol	4.77	59	176409	243.071	ug/l #	89
12) 1,1-Dichloroethene	3.75	96	579831	51.628	ug/l	98
13) Acrolein	3.61	56	142927	209.171	ug/l	100
14) Allyl chloride	4.33	41	888532	48.437	ug/l	99
15) Acrylonitrile	4.99	53	1017213	249.836	ug/l	99
16) Acetone	3.82	43	656507	225.049	ug/l	97
17) Carbon Disulfide	4.06	76	1676282	48.586	ug/l	100
18) Methyl Acetate	4.33	43	545228	50.927	ug/l	98
19) Methyl tert-butyl Ether	5.05	73	1580053	51.822	ug/l	98
20) Methylene Chloride	4.56	84	641279	48.848	ug/l	98
21) trans-1,2-Dichloroethene	5.05	96	618031	50.793	ug/l	98
22) Diisopropyl ether	5.95	45	1990540	50.864	ug/l	98
23) Vinyl Acetate	5.90	43	5492716	235.873	ug/l	99
24) 1,1-Dichloroethane	5.86	63	1164815	51.614	ug/l	100
25) 2-Butanone	6.83	43	1068006	235.949	ug/l	98
26) 2,2-Dichloropropane	6.83	77	718062	43.206	ug/l	99
27) cis-1,2-Dichloroethene	6.83	96	707505	51.232	ug/l	98
28) Bromochloromethane	7.20	49	507839	50.112	ug/l	97
29) Tetrahydrofuran	7.21	42	756900	244.941	ug/l	98
30) Chloroform	7.37	83	1129024	51.302	ug/l	100
31) Cyclohexane	7.66	56	1082592	49.176	ug/l	99
32) 1,1,1-Trichloroethane	7.57	97	953721	51.796	ug/l	99
36) 1,1-Dichloropropene	7.80	75	880293	50.556	ug/l	99
37) Ethyl Acetate	6.93	43	514192	49.157	ug/l	100
38) Carbon Tetrachloride	7.78	117	814240	50.804	ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	1038196	48.587	ug/l	99
40) Benzene	8.04	78	2634359	50.408	ug/l	98
41) Methacrylonitrile	7.18	41	322622	55.666	ug/l	89
42) 1,2-Dichloroethane	8.13	62	793526	50.436	ug/l	100
43) Isopropyl Acetate	8.17	43	980440	45.716	ug/l	99
44) Trichloroethene	8.84	130	774710	54.882	ug/l	98
45) 1,2-Dichloropropane	9.12	63	696227	50.863	ug/l	99
46) Dibromomethane	9.21	93	391256	49.286	ug/l	99
47) Bromodichloromethane	9.40	83	841342	51.108	ug/l	100
48) Methyl methacrylate	9.20	41	470710	50.049	ug/l	98
49) 1,4-Dioxane	9.20	88	102635	961.402	ug/l	96
51) 4-Methyl-2-Pentanone	9.99	43	2419428	246.028	ug/l	99
52) Toluene	10.16	92	1589059	50.204	ug/l	100
53) t-1,3-Dichloropropene	10.38	75	827603	49.960	ug/l	99
54) cis-1,3-Dichloropropene	9.84	75	994374	50.374	ug/l	99
55) 1,1,2-Trichloroethane	10.56	97	556450	49.248	ug/l	99
56) Ethyl methacrylate	10.43	69	748403	51.613	ug/l	99
57) 1,3-Dichloropropane	10.71	76	969662	50.045	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.70	63	2100929	259.667	ug/l	99
59) 2-Hexanone	10.75	43	1590701	236.030	ug/l	99
60) Dibromochloromethane	10.90	129	614527	50.324	ug/l	100
61) 1,2-Dibromoethane	11.01	107	551269	49.359	ug/l	99
64) Tetrachloroethene	10.63	164	921218	65.930	ug/l	100
65) Chlorobenzene	11.44	112	1692069	50.168	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.51	131	604761	51.556	ug/l	98
67) Ethyl Benzene	11.51	91	2953534	50.992	ug/l	99
68) m/p-Xylenes	11.62	106	2201670	101.231	ug/l	100
69) o-Xylene	11.95	106	1067632	50.271	ug/l	100
70) Styrene	11.96	104	1747819	51.196	ug/l	99
71) Bromoform	12.13	173	390782	49.037	ug/l #	99
73) Isopropylbenzene	12.25	105	2821972	53.784	ug/l	99
74) N-amyl acetate	12.07	43	806175	55.966	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.51	83	480093	40.828	ug/l	99
76) 1,2,3-Trichloropropane	12.55	75	520371m	50.190	ug/l	
77) Bromobenzene	12.53	156	712801	53.413	ug/l	97
78) n-propylbenzene	12.59	91	3169452	52.966	ug/l	100
79) 2-Chlorotoluene	12.68	91	1848620	52.256	ug/l	99
80) 1,3,5-Trimethylbenzene	12.73	105	2202965	52.012	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.30	75	163079	50.530	ug/l	98
82) 4-Chlorotoluene	12.77	91	1869871	51.697	ug/l	100
83) tert-Butylbenzene	12.99	119	1948803	52.159	ug/l	99
84) 1,2,4-Trimethylbenzene	13.04	105	2227321	51.945	ug/l	99
85) sec-Butylbenzene	13.17	105	2613122	51.643	ug/l	100
86) p-Isopropyltoluene	13.29	119	2242992	51.165	ug/l	100
87) 1,3-Dichlorobenzene	13.28	146	1186964	50.051	ug/l	100
88) 1,4-Dichlorobenzene	13.36	146	1165974	49.647	ug/l	99
89) n-Butylbenzene	13.62	91	1855408	50.276	ug/l	100
90) Hexachloroethane	13.88	117	329250	44.853	ug/l	98
91) 1,2-Dichlorobenzene	13.65	146	1109747	48.646	ug/l	100
92) 1,2-Dibromo-3-Chloropropan	14.27	75	82923	46.782	ug/l	100

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QLast Update : Thu Dec 13 01:08:35 2018
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	611673	49.327	ug/l	100
94) Hexachlorobutadiene	15.01	225	312794	43.579	ug/l	99
95) Naphthalene	15.13	128	1331724	51.852	ug/l	100
96) 1,2,3-Trichlorobenzene	15.32	180	554570	48.739	ug/l	100

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

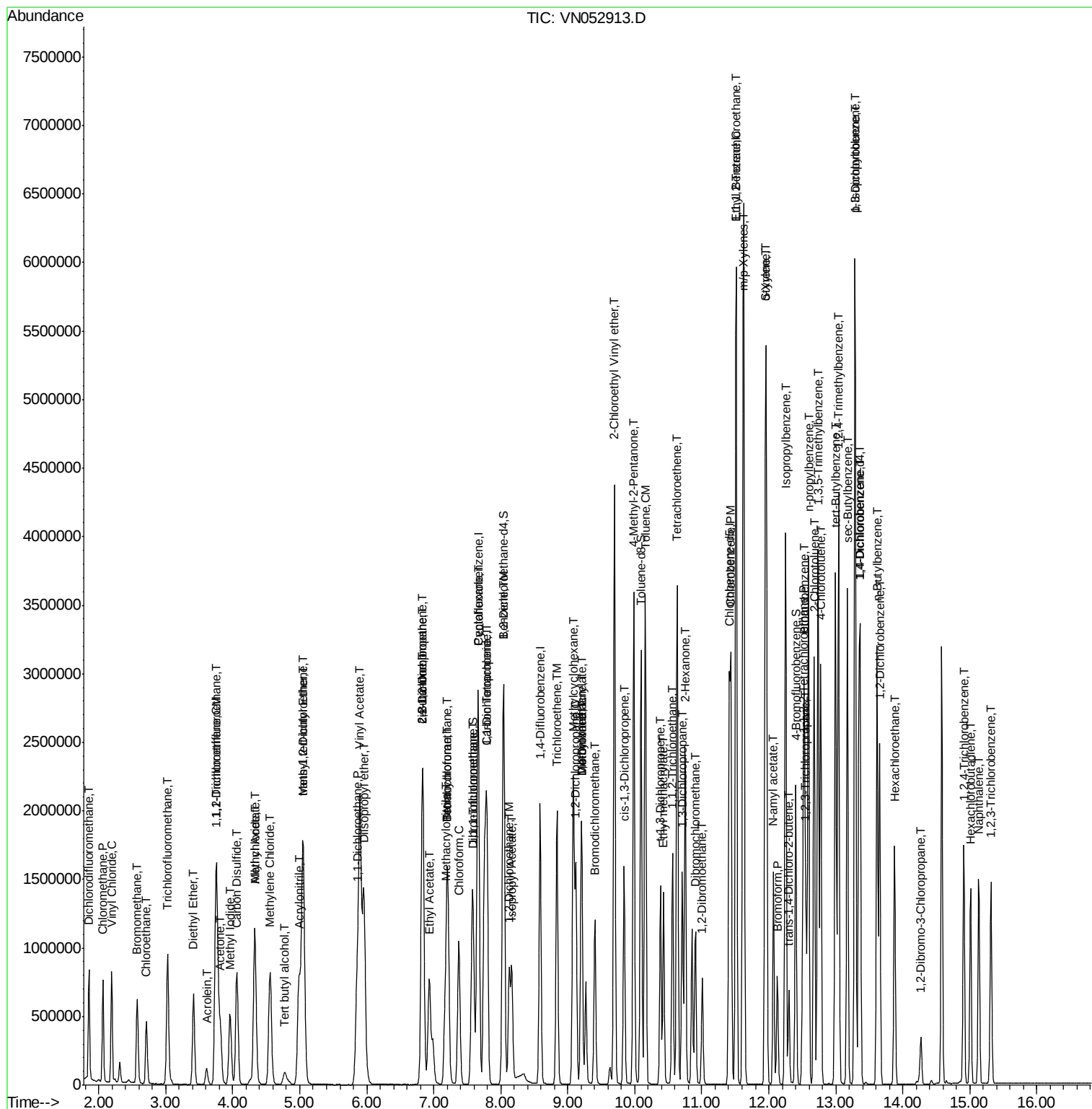
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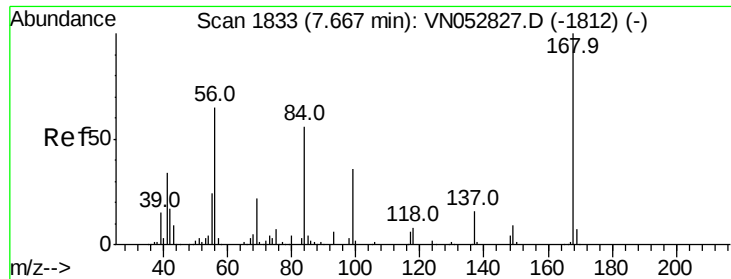
Instrument :
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN052913.D

Acq: 15 Dec 2018 2:13

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion:168 Resp: 1221565

Ion Ratio Lower Upper

168 100

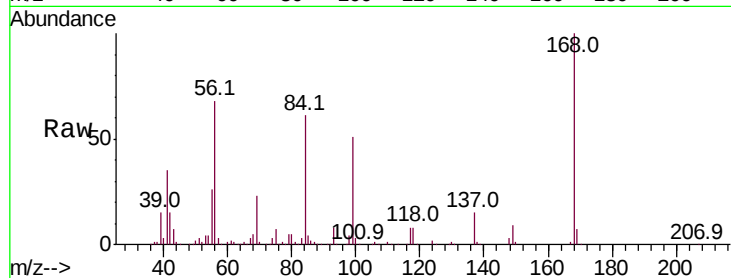
99 50.5 40.2 60.2

Manual Integrations

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12/17/2018 3:06:05 PM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

600000

500000

400000

300000

200000

100000

0

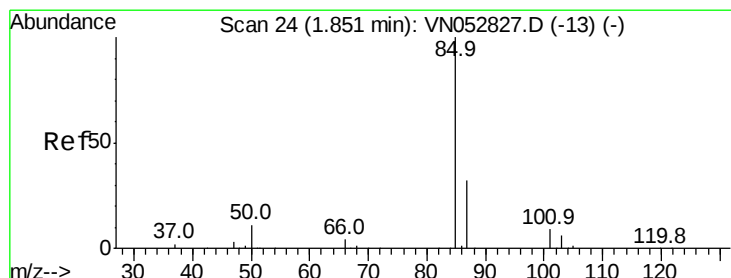
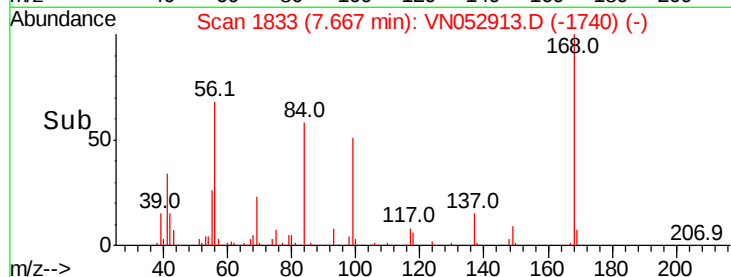
7.67

7.60

7.70

7.80

Time-->



#2

Dichlorodifluoromethane

Concen: 47.911 ug/l

RT: 1.85 min Scan# 25

Delta R.T. 0.00 min

Lab File: VN052913.D

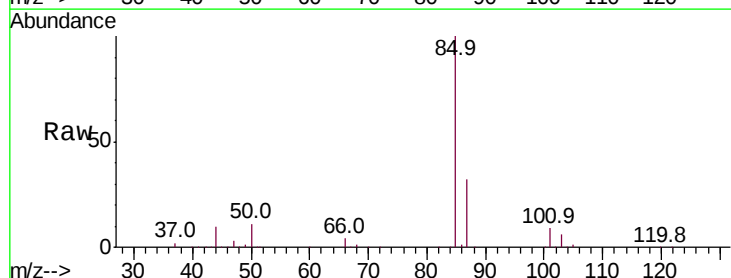
Acq: 15 Dec 2018 2:13

Tgt Ion: 85 Resp: 602471

Ion Ratio Lower Upper

85 100

87 32.1 16.3 48.8



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO

500000

400000

300000

200000

100000

0

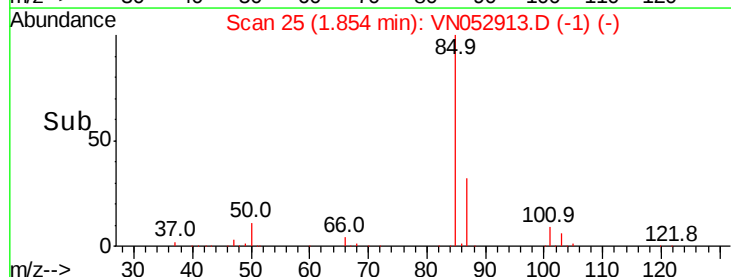
1.85

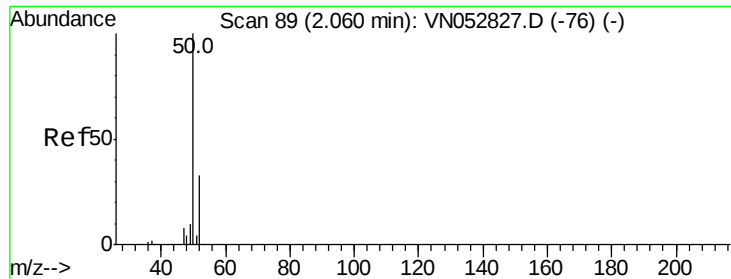
1.80

1.90

1.95

Time-->





#3

Chloromethane

Concen: 45.178 ug/l

RT: 2.06 min Scan# 90

Delta R.T. 0.00 min

Lab File: VN052913.D

Acq: 15 Dec 2018 2:13

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 50 Resp: 681834

Ion Ratio Lower Upper

50 100

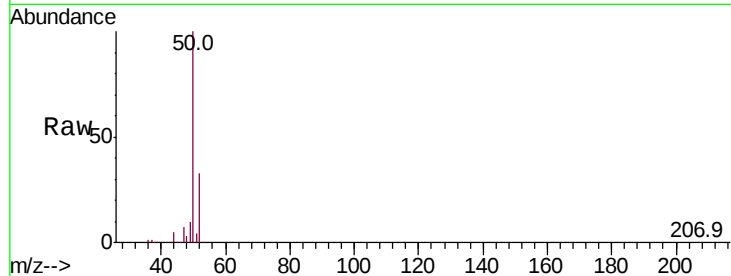
52 32.9 26.2 39.4

Manual Integrations

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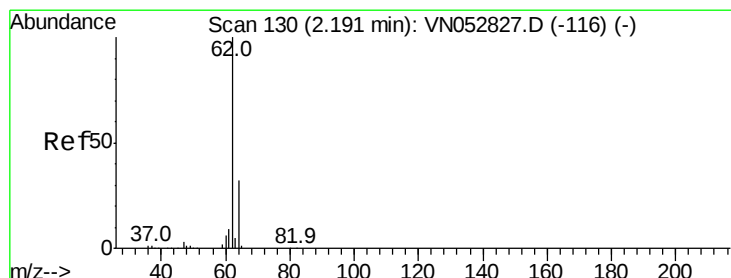
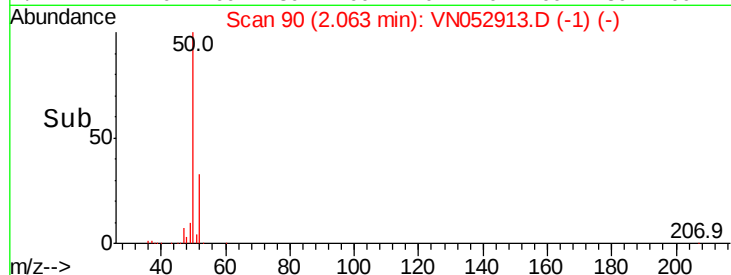
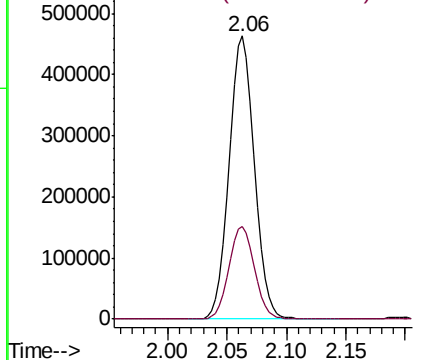
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Abundance Ion 49.90 (49.60 to 50.60): VN0

Ion 51.90 (51.60 to 52.60): VN0



#4

Vinyl Chloride

Concen: 49.096 ug/l

RT: 2.19 min Scan# 130

Delta R.T. 0.00 min

Lab File: VN052913.D

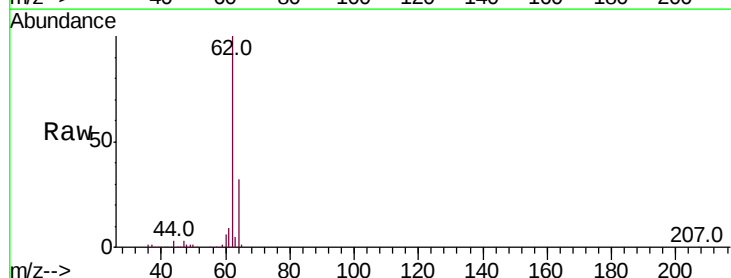
Acq: 15 Dec 2018 2:13

Tgt Ion: 62 Resp: 741297

Ion Ratio Lower Upper

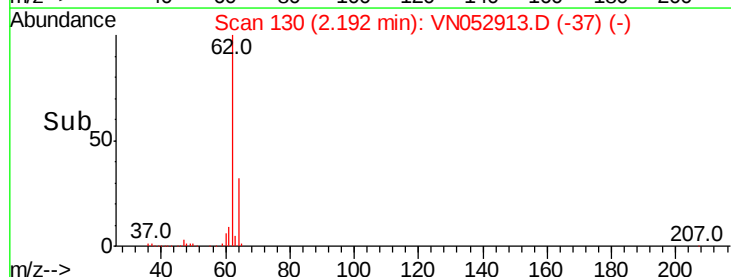
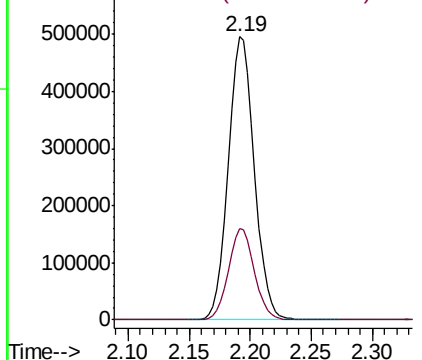
62 100

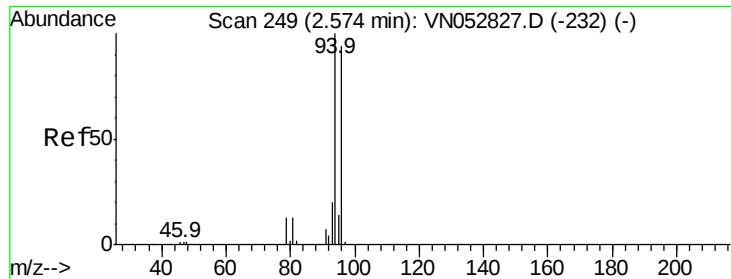
64 32.3 25.5 38.3



Abundance Ion 61.90 (61.60 to 62.60): VN0

Ion 63.90 (63.60 to 64.60): VN0





#5

Bromomethane

Concen: 47.448 ug/l

RT: 2.57 min Scan# 249

Delta R.T. 0.00 min

Lab File: VN052913.D

Acq: 15 Dec 2018 2:13

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 94 Resp: 441873

Ion Ratio Lower Upper

94 100

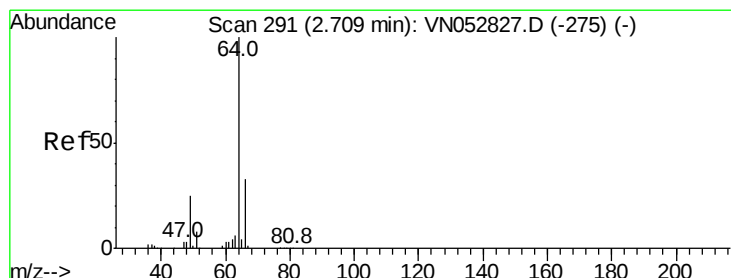
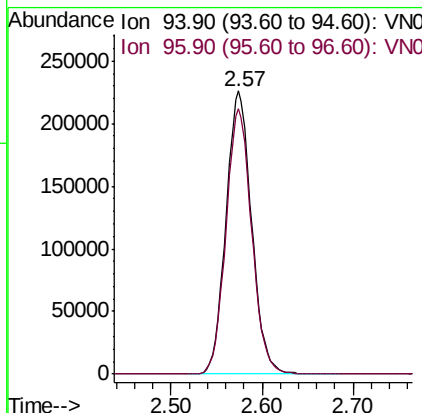
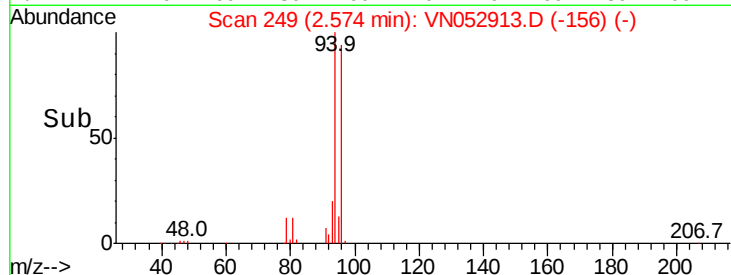
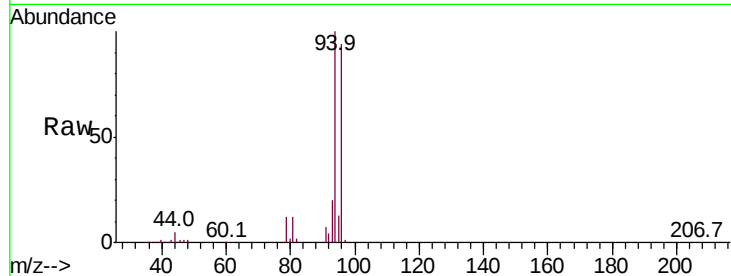
96 93.8 75.0 112.4

Manual Integrations

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#6

Chloroethane

Concen: 49.490 ug/l

RT: 2.71 min Scan# 292

Delta R.T. 0.00 min

Lab File: VN052913.D

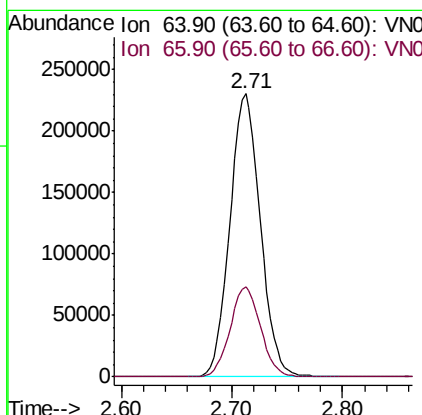
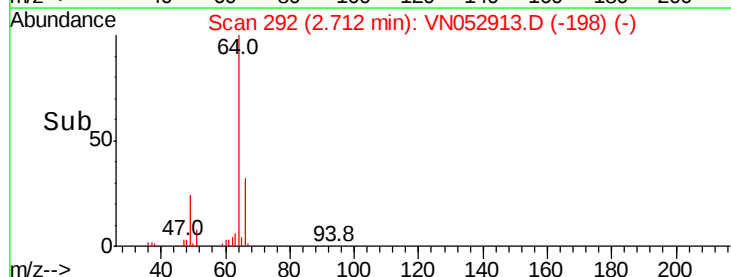
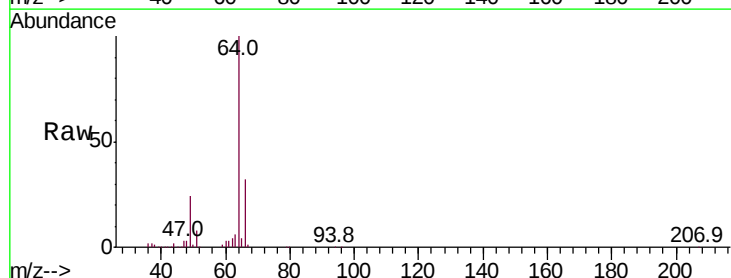
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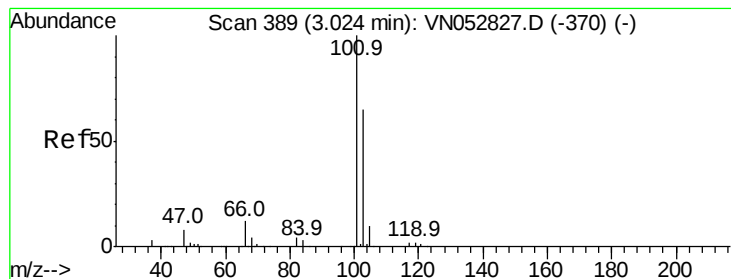
Tgt Ion: 64 Resp: 441686

Ion Ratio Lower Upper

64 100

66 31.7 26.2 39.2





#7

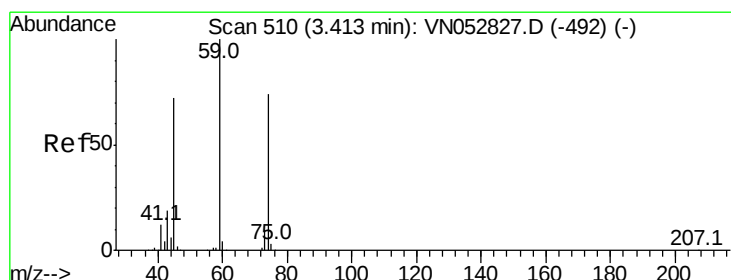
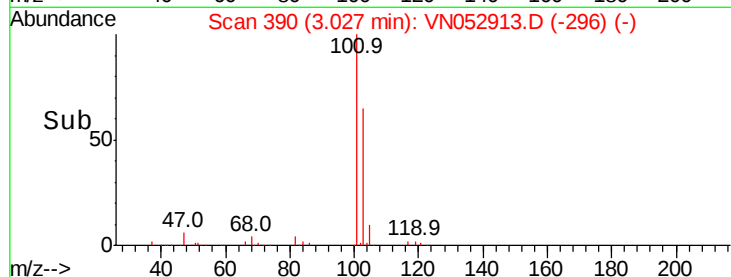
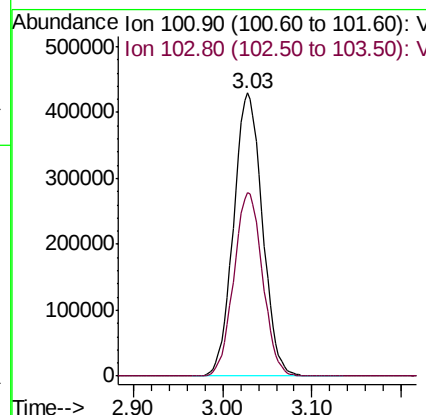
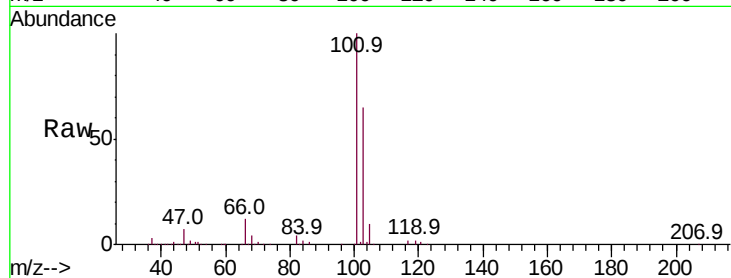
Trichlorofluoromethane
Concen: 51.315 ug/l
RT: 3.03 min Scan# 390
Delta R.T. 0.00 min
Lab File: VN052913.D
Acq: 15 Dec 2018 2:13

Instrument :
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ClientSampleId :
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Tot Ion	Ratio	Lower	Upper
101	100		
103	65.0	51.8	77.6

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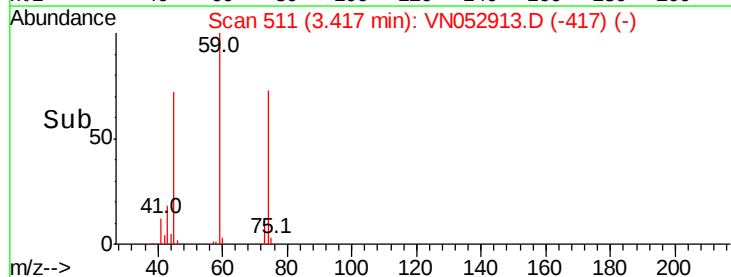
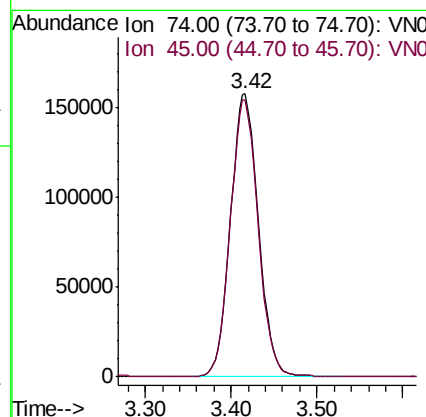
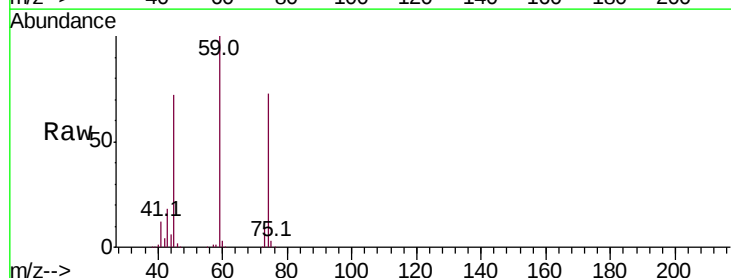
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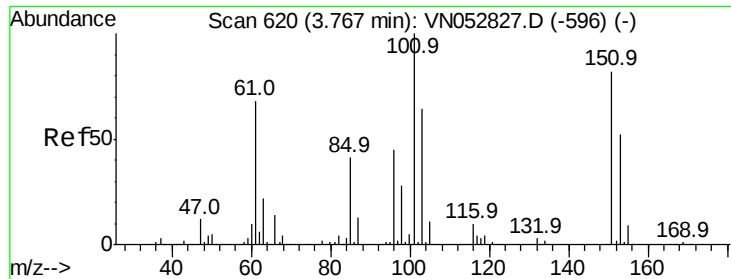


#8

Diethyl Ether
Concen: 52.117 ug/l
RT: 3.42 min Scan# 511
Delta R.T. 0.00 min
Lab File: VN052913.D
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Tgt Ion	Ratio	Lower	Upper
74	100		
45	97.0	49.4	148.0





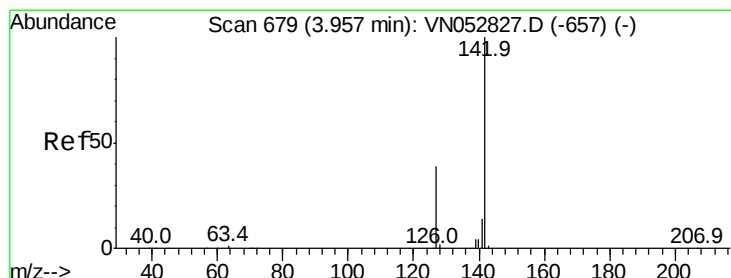
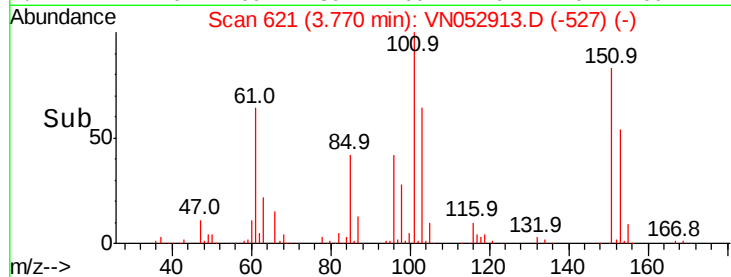
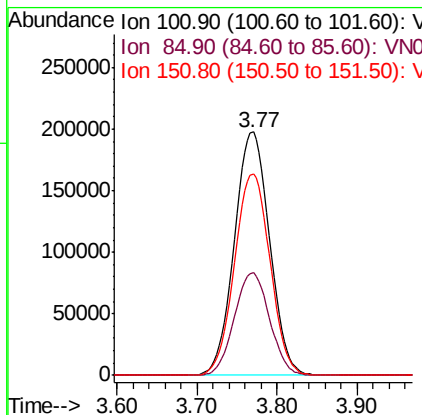
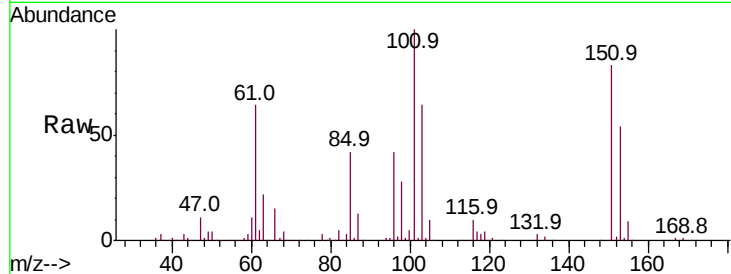
#9
 1,1,2-Trichlorotrifluoroethane
 Concen: 50.863 ug/l
 RT: 3.77 min Scan# 621
 Delta R.T. 0.00 min
 Lab File: VN052913.D
 Acq: 15 Dec 2018 2:13

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Resp Lower	Upper
101	100		
85	42.1	33.6	50.4
151	83.6	65.5	98.3

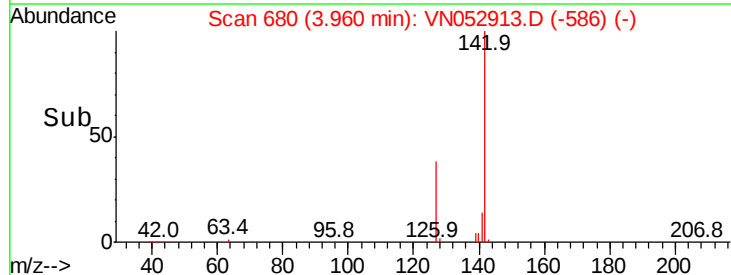
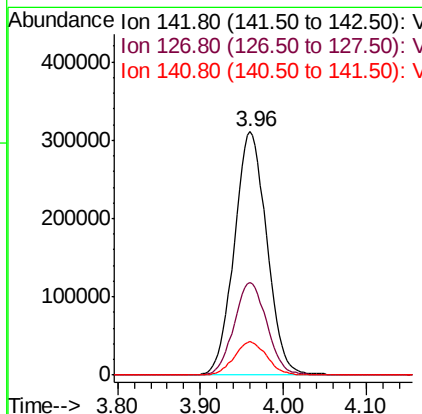
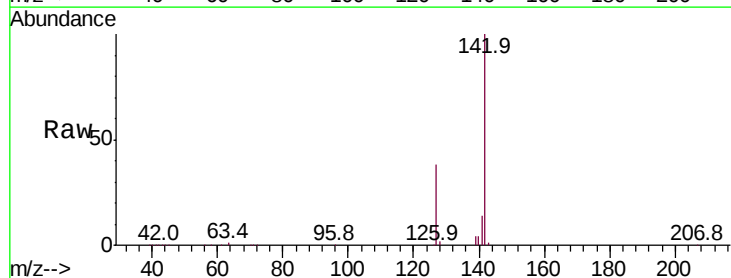
Manual Integrations
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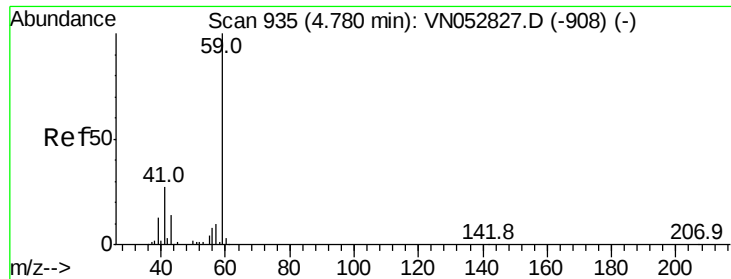
MMDadoda
 12/17/2018 3:06:05 PM



#10
 Methyl Iodide
 Concen: 52.249 ug/l
 RT: 3.96 min Scan# 680
 Delta R.T. 0.00 min
 Lab File: VN052913.D
 Acq: 15 Dec 2018 2:13

Tgt Ion	Ratio	Resp Lower	Upper
142	100		
127	38.6	31.0	46.6
141	13.9	11.2	16.8





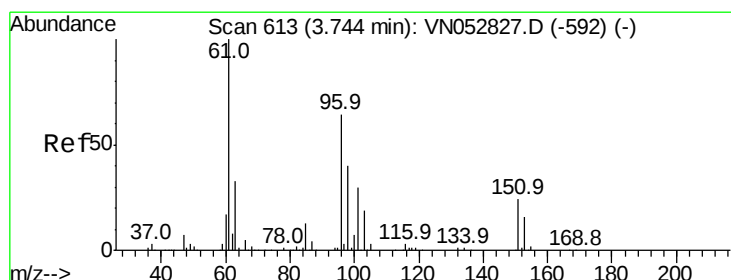
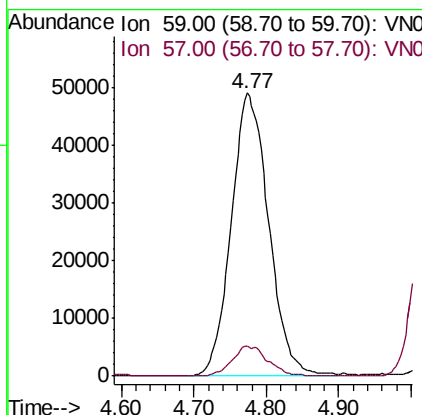
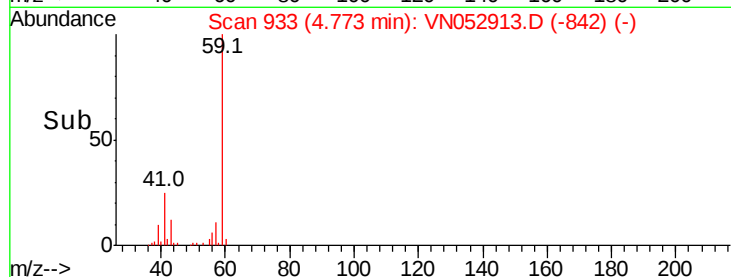
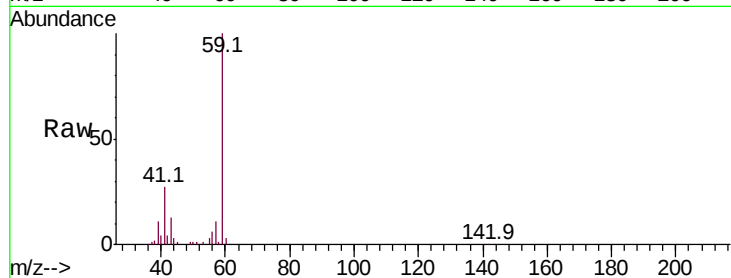
#11
Tert butyl alcohol
Concen: 243.071 ug/l
RT: 4.77 min Scan# 933
Delta R.T. -0.01 min
Lab File: VN052913.D
Acq: 15 Dec 2018 2:13

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion: 59 Resp: 176409
Ion Ratio Lower Upper
59 100
57 5.6 7.7 11.5#

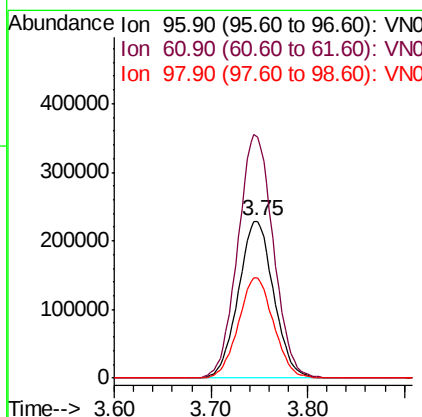
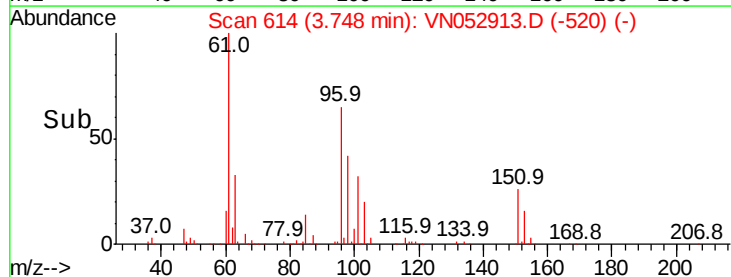
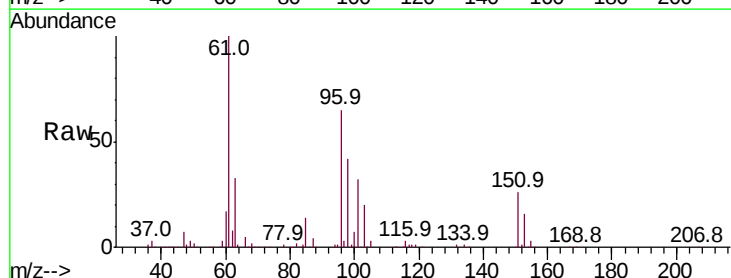
Manual Integrations
APPROVED

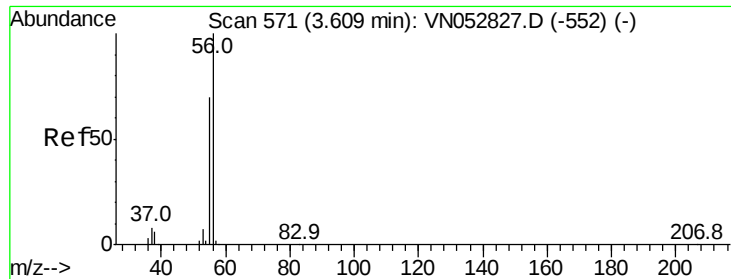
MMDadoda
12/17/2018 3:06:05 PM



#12
1,1-Dichloroethene
Concen: 51.628 ug/l
RT: 3.75 min Scan# 614
Delta R.T. 0.00 min
Lab File: VN052913.D
Acq: 15 Dec 2018 2:13

Tgt Ion: 96 Resp: 579831
Ion Ratio Lower Upper
96 100
61 153.7 125.6 188.4
98 64.0 50.6 75.8





#13

Acrolein

Concen: 209.171 ug/l

RT: 3.61 min Scan# 571

Delta R.T. 0.00 min

Lab File: VN052913.D

Acq: 15 Dec 2018 2:13

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 56 Resp: 142927

Ion Ratio Lower Upper

56 100

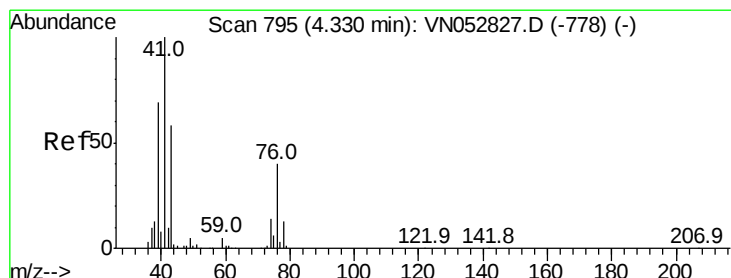
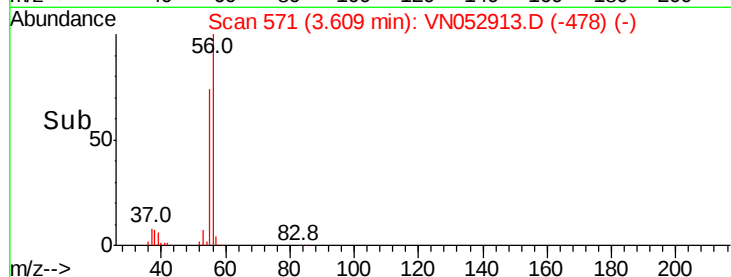
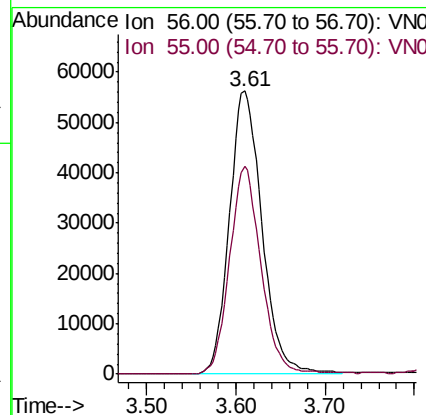
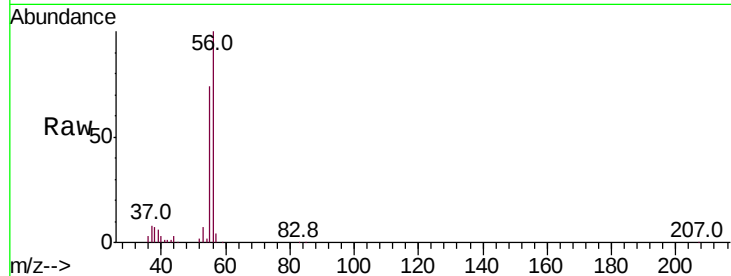
55 70.6 56.6 85.0

Manual Integrations

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MMDadoda

12/17/2018 3:06:05 PM



#14

Allyl chloride

Concen: 48.437 ug/l

RT: 4.33 min Scan# 795

Delta R.T. 0.00 min

Lab File: VN052913.D

Acq: 15 Dec 2018 2:13

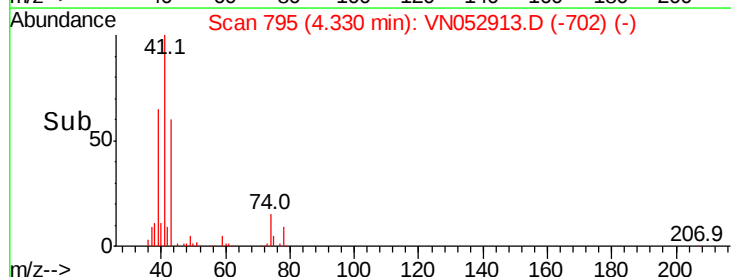
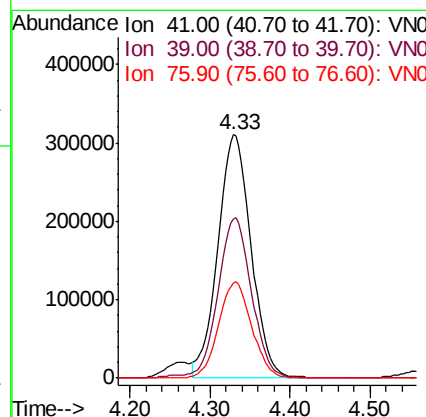
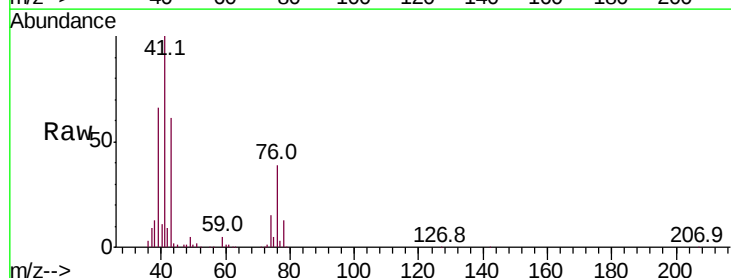
Tgt Ion: 41 Resp: 888532

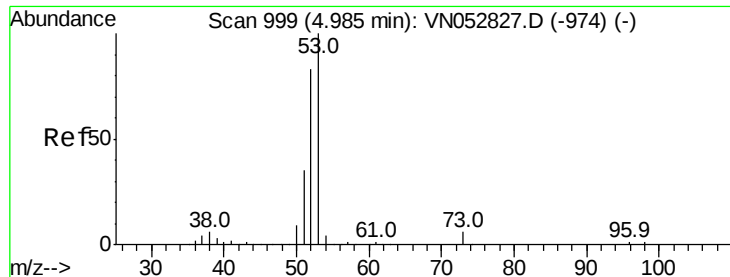
Ion Ratio Lower Upper

41 100

39 67.2 54.1 81.1

76 38.9 30.3 45.5





#15

Acrylonitrile

Concen: 249.836 ug/l

RT: 4.99 min Scan# 1000

Delta R.T. 0.00 min

Lab File: VN052913.D

Acq: 15 Dec 2018 2:13

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 53 Resp: 1017213

Ion Ratio Lower Upper

53 100

52 82.8 65.1 97.7

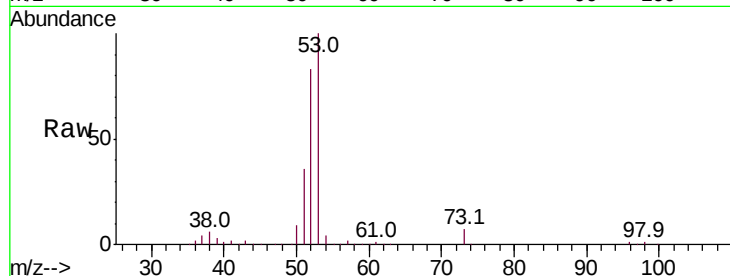
51 35.7 28.1 42.1

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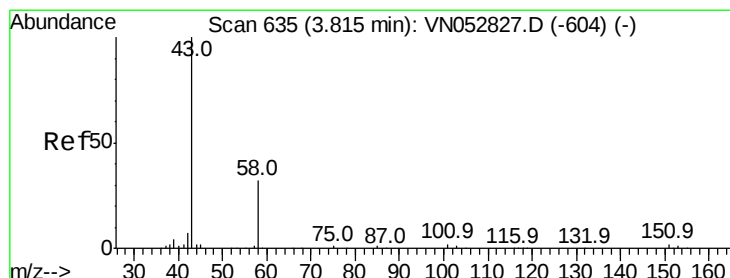
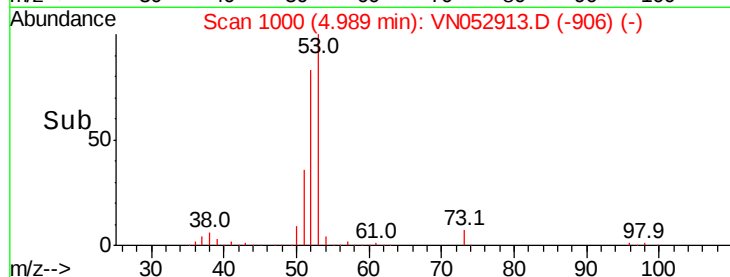
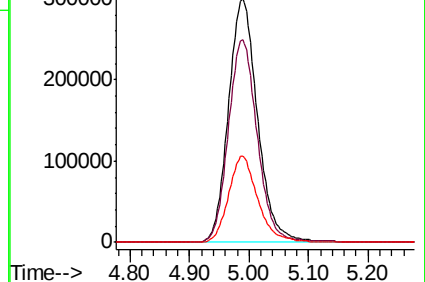
12/17/2018 3:06:05 PM



Abundance Ion 53.00 (52.70 to 53.70): VN0

Ion 52.00 (51.70 to 52.70): VN0

Ion 51.00 (50.70 to 51.70): VN0



#16

Acetone

Concen: 225.049 ug/l

RT: 3.82 min Scan# 635

Delta R.T. 0.00 min

Lab File: VN052913.D

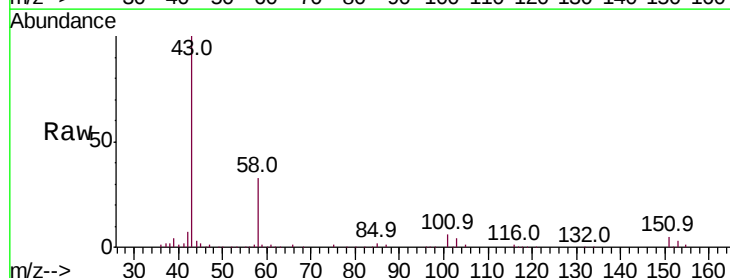
Acq: 15 Dec 2018 2:13

Tgt Ion: 43 Resp: 656507

Ion Ratio Lower Upper

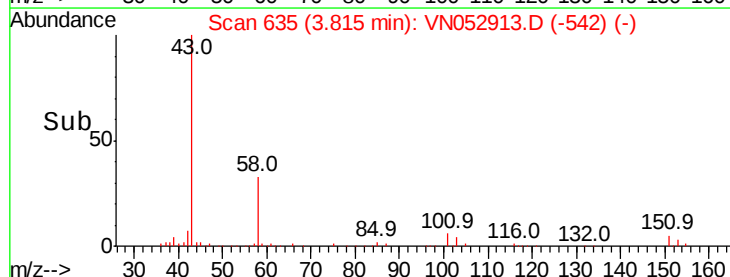
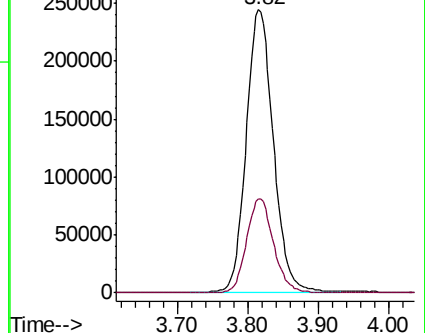
43 100

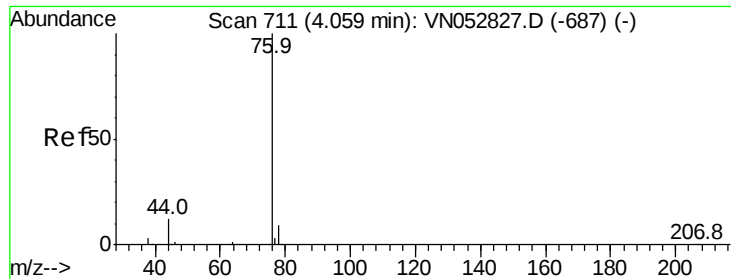
58 33.3 25.4 38.0



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





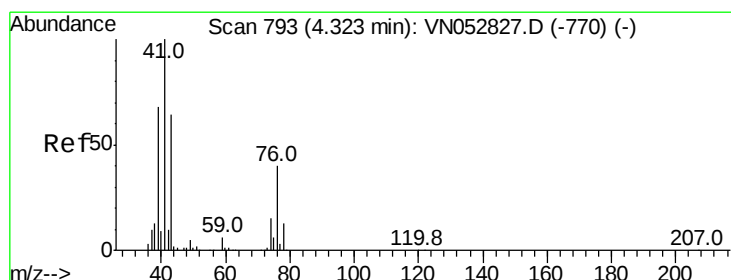
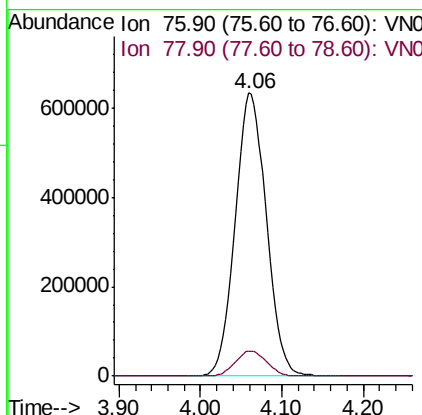
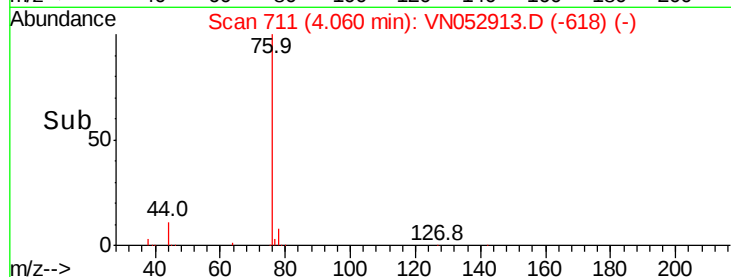
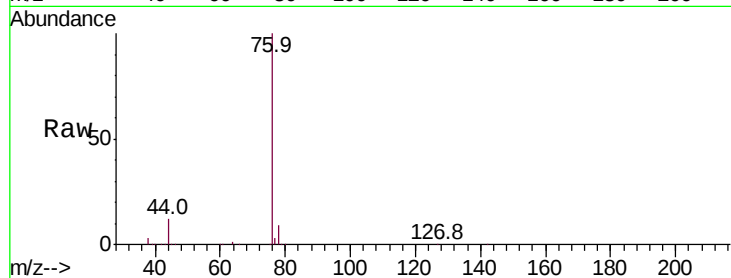
#17
Carbon Disulfide
Concen: 48.586 ug/l
RT: 4.06 min Scan# 711
Delta R.T. 0.00 min
Lab File: VN052913.D
Acq: 15 Dec 2018 2:13

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion: 76 Resp: 1676282
Ion Ratio Lower Upper
76 100
78 8.9 7.1 10.7

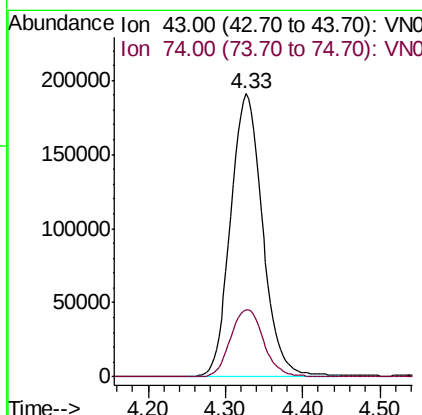
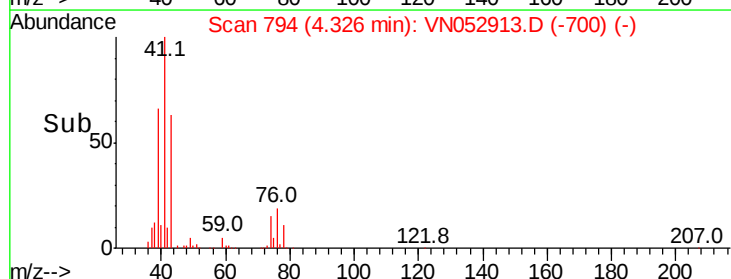
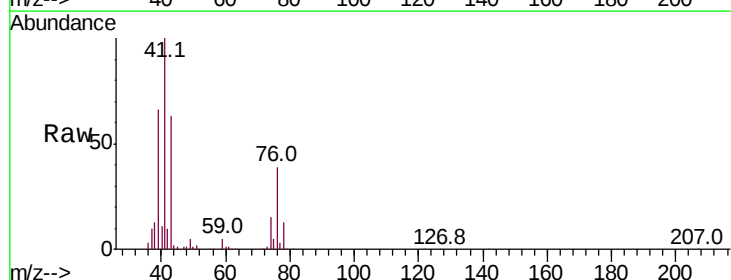
Manual Integrations
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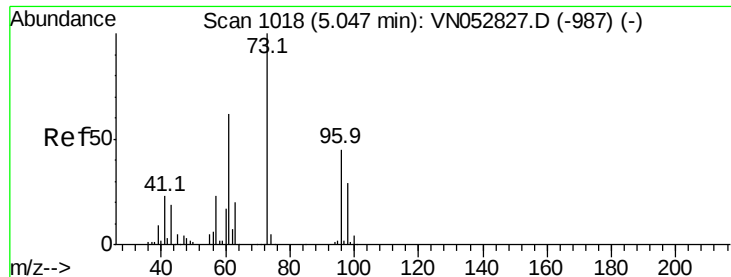
MMDadoda
12/17/2018 3:06:05 PM



#18
Methyl Acetate
Concen: 50.927 ug/l
RT: 4.33 min Scan# 794
Delta R.T. 0.00 min
Lab File: VN052913.D
Acq: 15 Dec 2018 2:13

Tgt Ion: 43 Resp: 545228
Ion Ratio Lower Upper
43 100
74 24.8 19.2 28.8





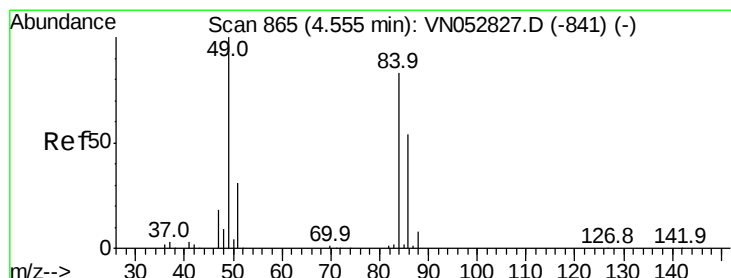
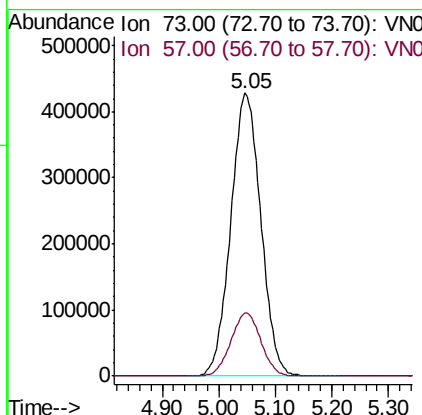
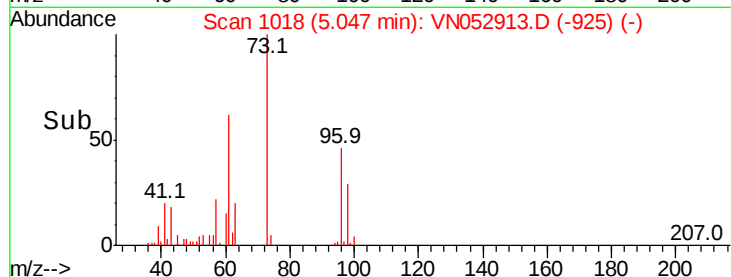
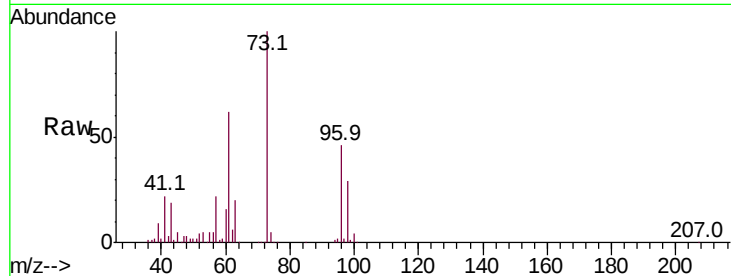
#19
Methvl tert-butvl Ether
Concen: 51.822 ug/l
RT: 5.05 min Scan# 1018
Delta R.T. 0.00 min
Lab File: VN052913.D
Acq: 15 Dec 2018 2:13

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion: 73 Resp: 1580053
Ion Ratio Lower Upper
73 100
57 22.2 18.4 27.6

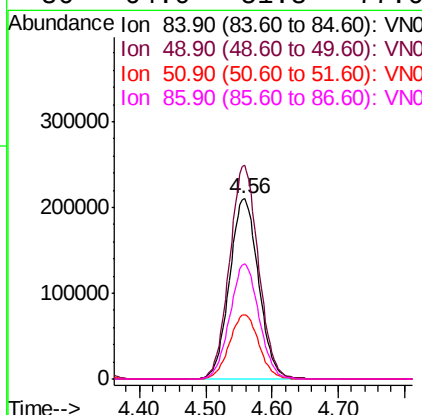
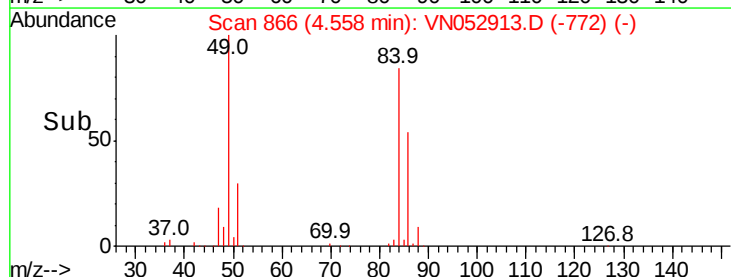
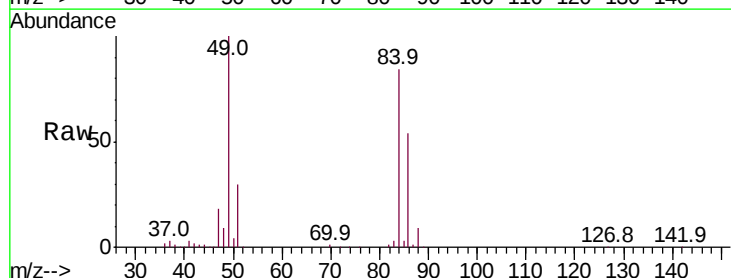
Manual Integrations
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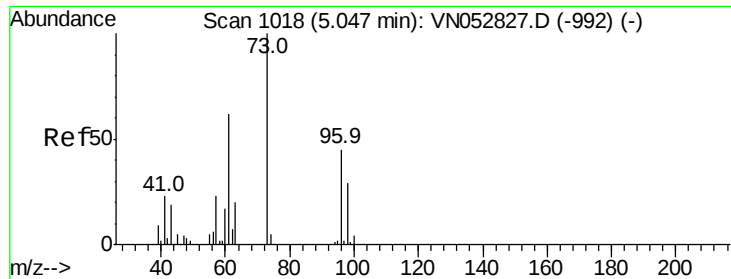
MMDadoda
12/17/2018 3:06:05 PM



#20
Methylene Chloride
Concen: 48.848 ug/l
RT: 4.56 min Scan# 866
Delta R.T. 0.00 min
Lab File: VN052913.D
Acq: 15 Dec 2018 2:13

Tgt Ion: 84 Resp: 641279
Ion Ratio Lower Upper
84 100
49 118.4 96.8 145.2
51 35.8 29.9 44.9
86 64.0 51.8 77.6





#21

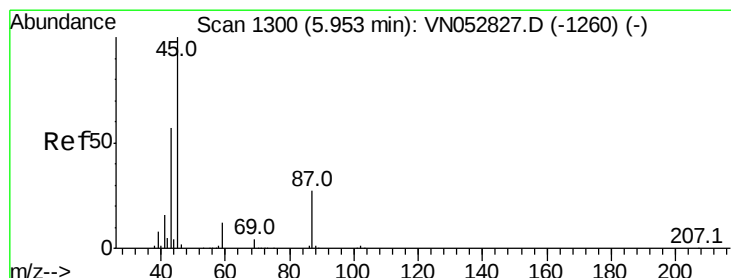
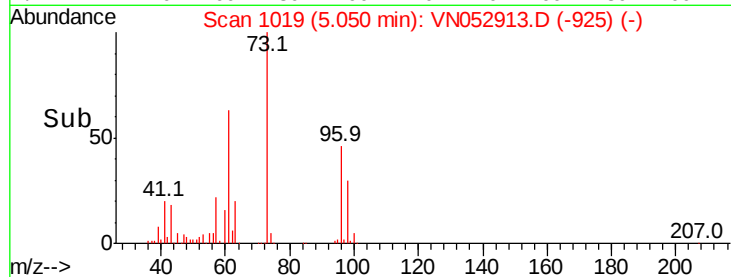
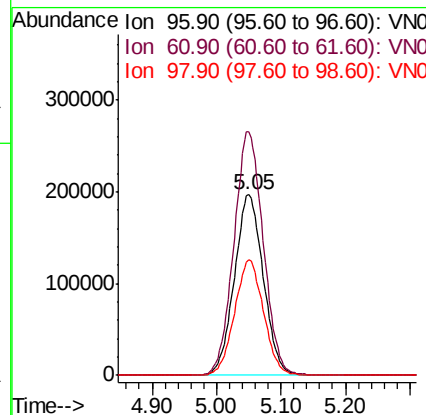
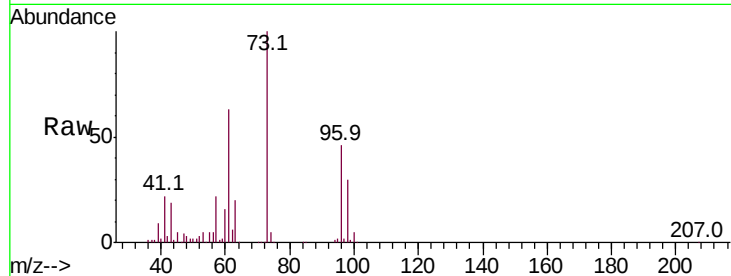
trans-1,2-Dichloroethene
Concen: 50.793 ug/l
RT: 5.05 min Scan# 1019
Delta R.T. 0.00 min
Lab File: VN052913.D
Acq: 15 Dec 2018 2:13

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
96	100		
61	134.7	110.8	166.2
98	64.3	51.4	77.2

Manual Integrations
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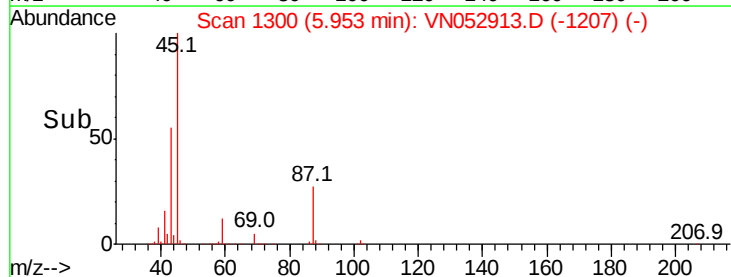
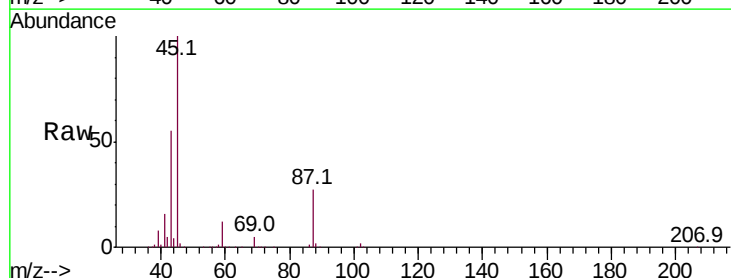
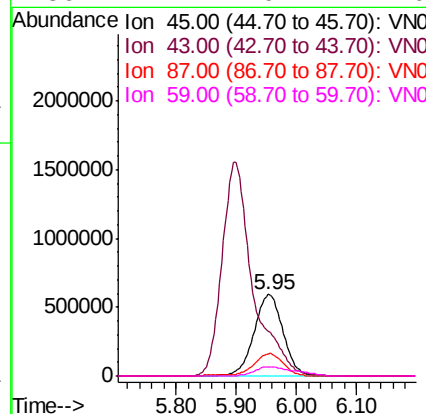
MMDadoda
12/17/2018 3:06:05 PM

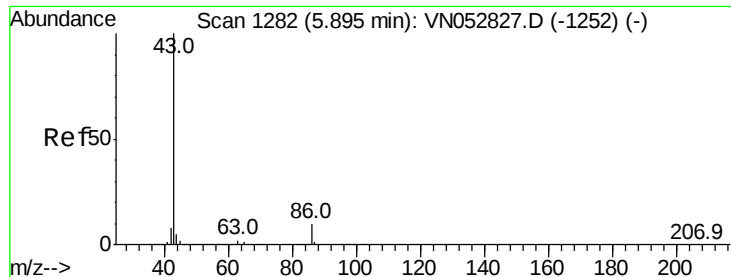


#22

Diisopropyl ether
Concen: 50.864 ug/l
RT: 5.95 min Scan# 1300
Delta R.T. 0.00 min
Lab File: VN052913.D
Acq: 15 Dec 2018 2:13

Tgt Ion	Ratio	Lower	Upper
45	100		
43	54.8	45.5	68.3
87	27.4	22.0	33.0
59	11.7	9.4	14.0





#23

Vinyl Acetate

Concen: 235.873 ug/l

RT: 5.90 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VN052913.D

Acq: 15 Dec 2018 2:13

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 43 Resp: 5492716

Ion Ratio Lower Upper

43 100

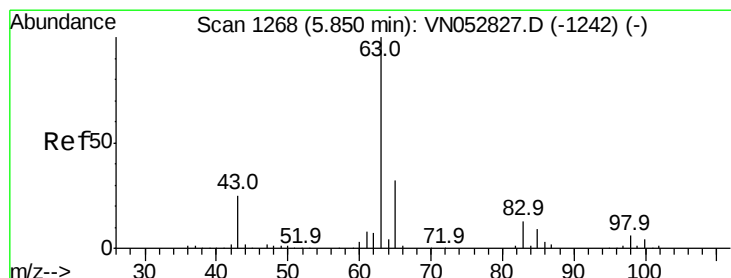
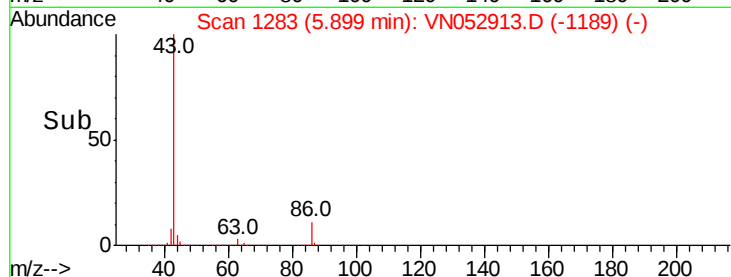
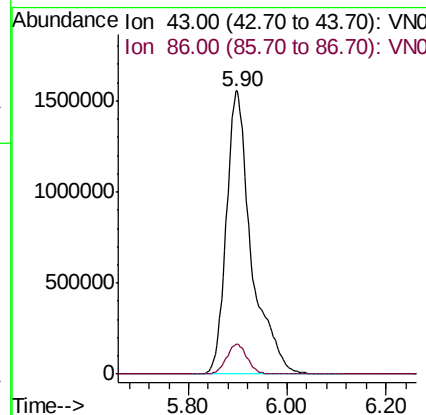
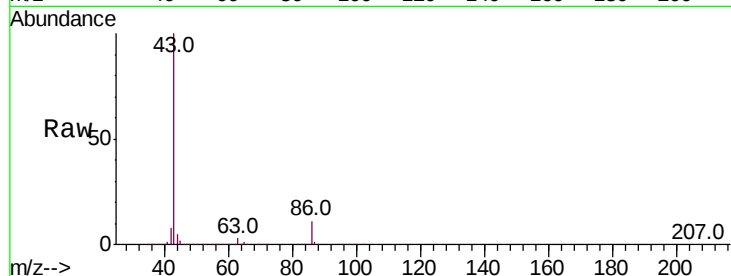
86 10.6 8.1 12.1

Manual Integrations

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MMDadoda

12/17/2018 3:06:05 PM



#24

1,1-Dichloroethane

Concen: 51.614 ug/l

RT: 5.86 min Scan# 1270

Delta R.T. 0.01 min

Lab File: VN052913.D

Acq: 15 Dec 2018 2:13

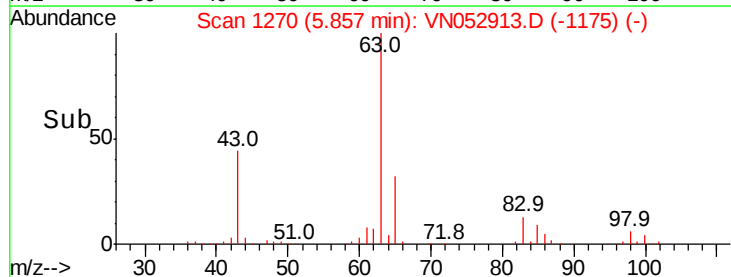
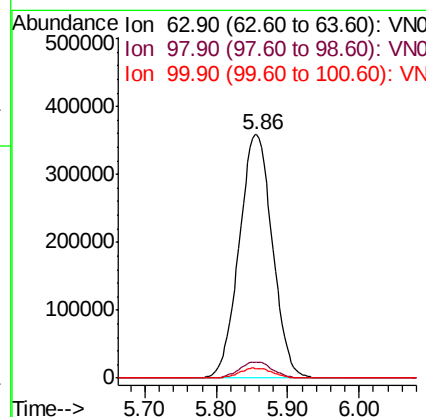
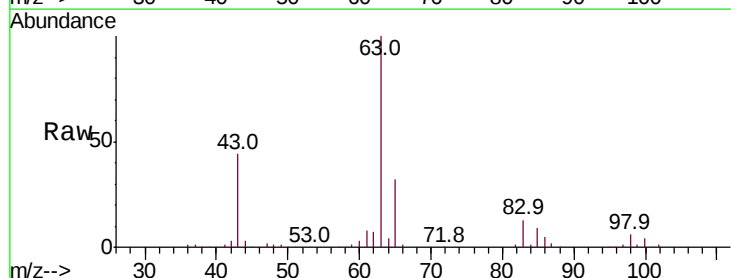
Tgt Ion: 63 Resp: 1164815

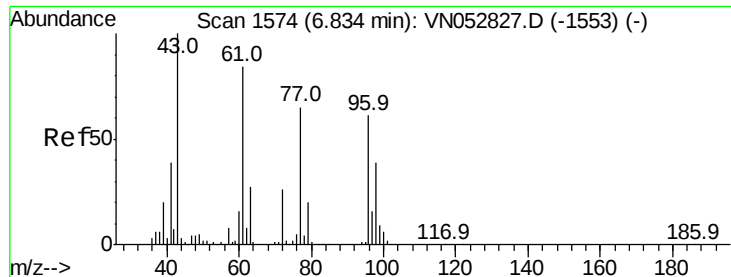
Ion Ratio Lower Upper

63 100

98 6.4 3.1 9.4

100 4.1 2.0 5.8





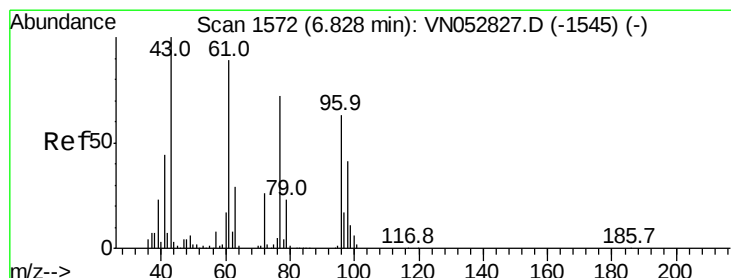
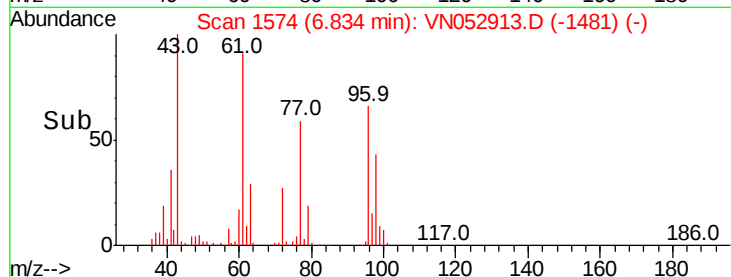
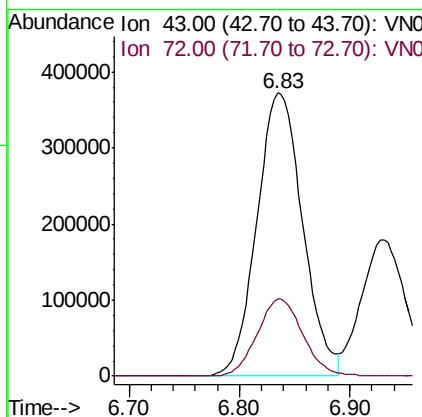
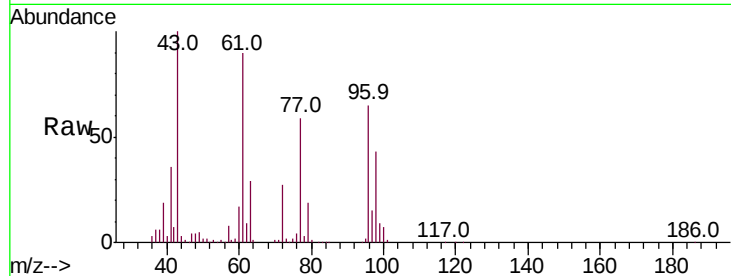
#25
 2-Butanone
 Concen: 235.949 ug/l
 RT: 6.83 min Scan# 1574
 Delta R.T. 0.00 min
 Lab File: VN052913.D
 Acq: 15 Dec 2018 2:13

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tot Ion: 43 Resp: 1068006
 Ion Ratio Lower Upper
 43 100
 72 27.4 21.0 31.6

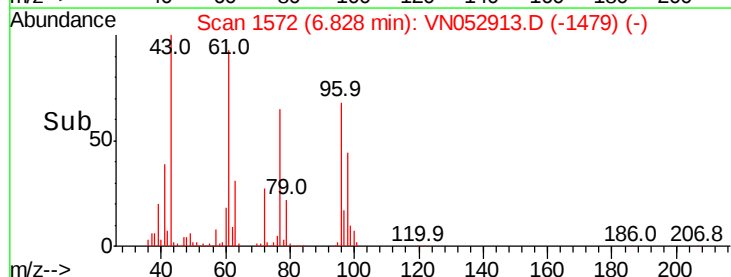
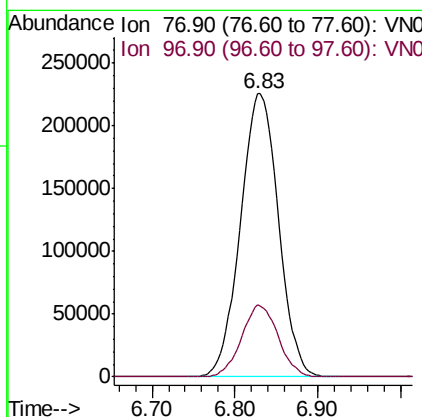
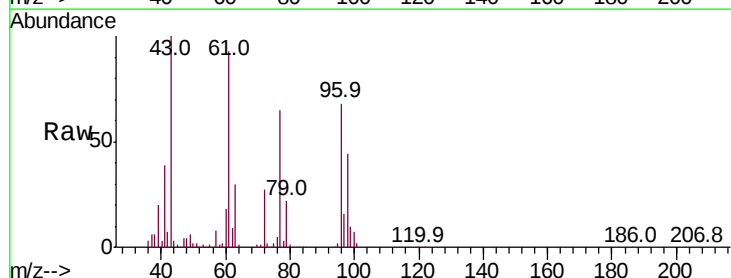
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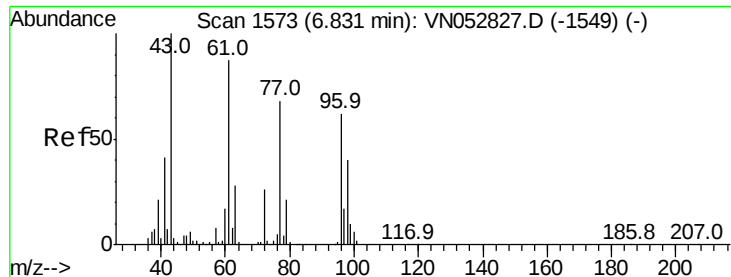
MMDadoda
 12/17/2018 3:06:05 PM



#26
 2,2-Dichloropropane
 Concen: 43.206 ug/l
 RT: 6.83 min Scan# 1572
 Delta R.T. 0.00 min
 Lab File: VN052913.D
 Acq: 15 Dec 2018 2:13

Tgt Ion: 77 Resp: 718062
 Ion Ratio Lower Upper
 77 100
 97 24.5 11.9 35.9





#27

cis-1,2-Dichloroethene

Concen: 51.232 ug/l

RT: 6.83 min Scan# 1573

Delta R.T. 0.00 min

Lab File: VN052913.D

Acq: 15 Dec 2018 2:13

Instrument :

MSVOA_N

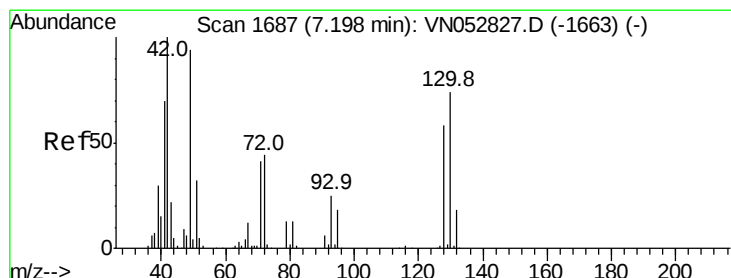
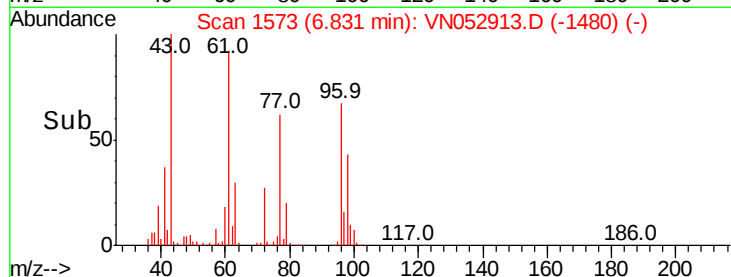
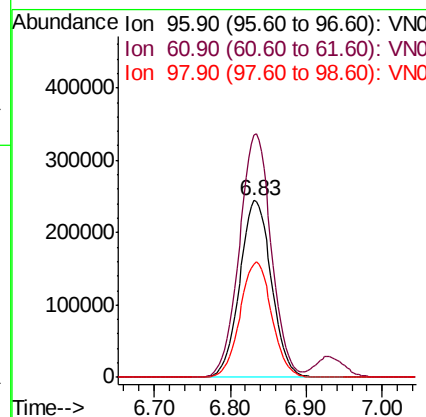
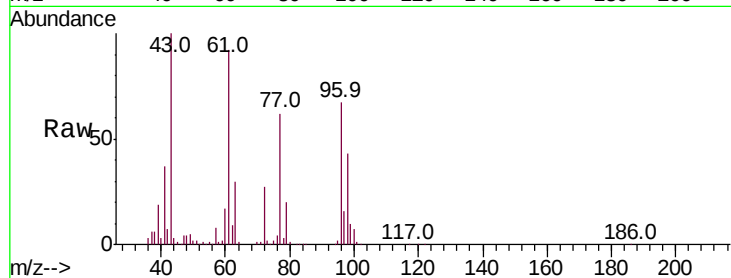
ClientSampleId :

VSTDCCC050EC

Tot Ion:	96	Resp:	707505
Ion Ratio	Lower	Upper	
96	100		
61	138.7	0.0	284.2
98	65.1	0.0	129.2

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#28

Bromochloromethane

Concen: 50.112 ug/l

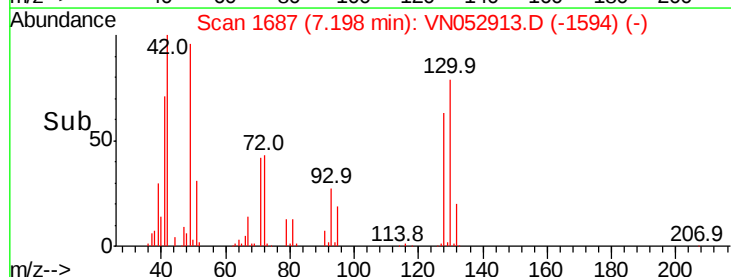
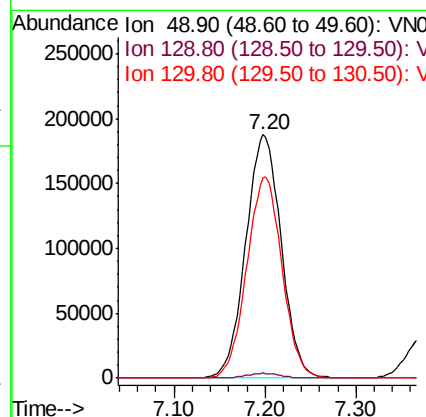
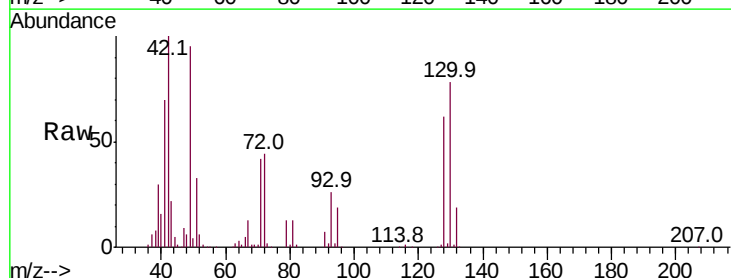
RT: 7.20 min Scan# 1687

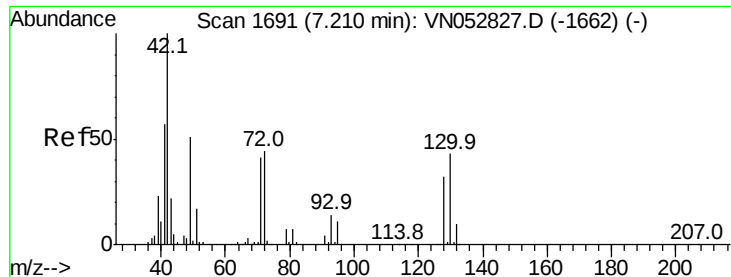
Delta R.T. 0.00 min

Lab File: VN052913.D

Acq: 15 Dec 2018 2:13

Tgt Ion:	49	Resp:	507839
Ion Ratio	Lower	Upper	
49	100		
129	1.9	0.0	4.0
130	82.2	63.3	94.9





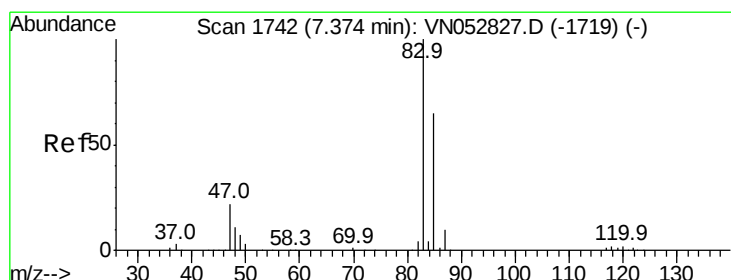
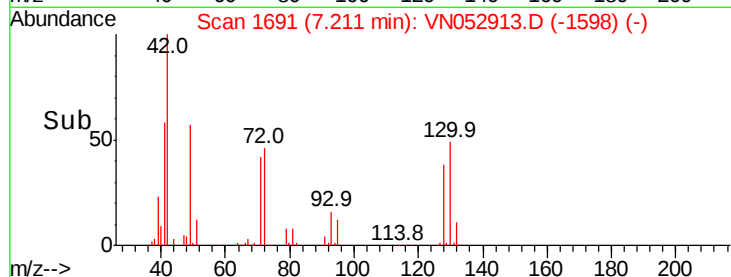
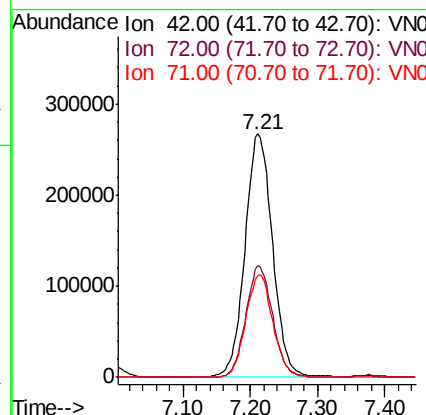
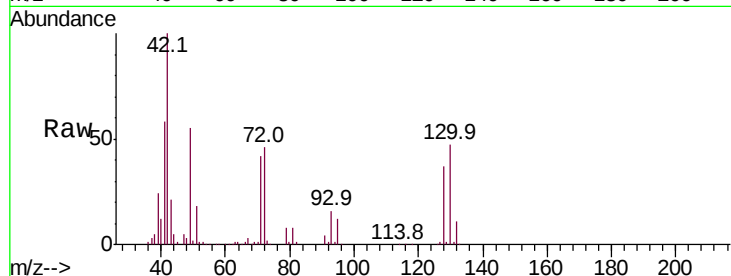
#29
Tetrahydrofuran
Concen: 244.941 ug/l
RT: 7.21 min Scan# 1691
Delta R.T. 0.00 min
Lab File: VN052913.D
Acq: 15 Dec 2018 2:13

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
42	100		
72	44.8	34.7	52.1
71	41.5	32.3	48.5

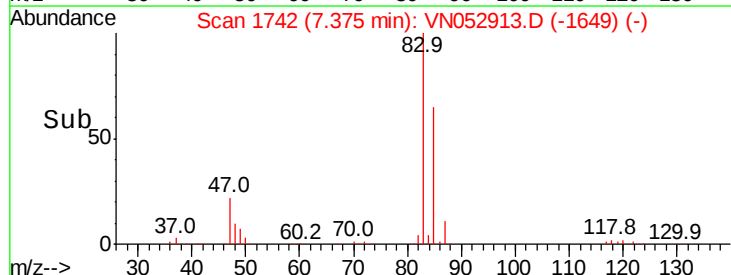
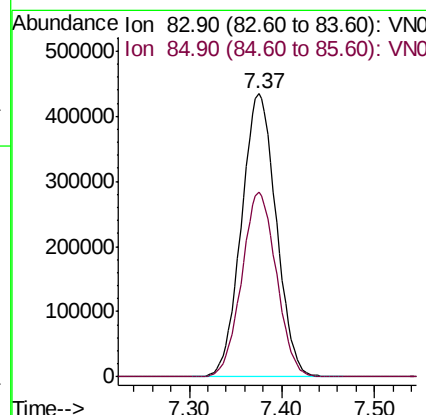
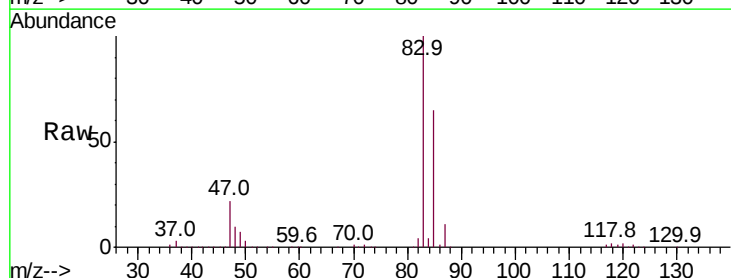
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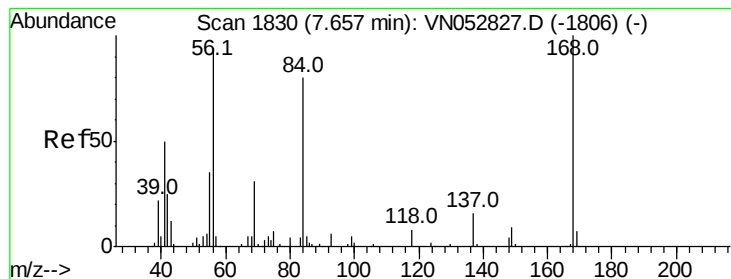
MMDadoda
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#30
Chloroform
Concen: 51.302 ug/l
RT: 7.37 min Scan# 1742
Delta R.T. 0.00 min
Lab File: VN052913.D
Acq: 15 Dec 2018 2:13

Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.1	52.1	78.1





#31

Cyclohexane

Concen: 49.176 ug/l

RT: 7.66 min Scan# 1830

Delta R.T. 0.00 min

Lab File: VN052913.D

Acq: 15 Dec 2018 2:13

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 56 Resp: 1082592

Ion Ratio Lower Upper

56 100

69 32.7 26.6 39.8

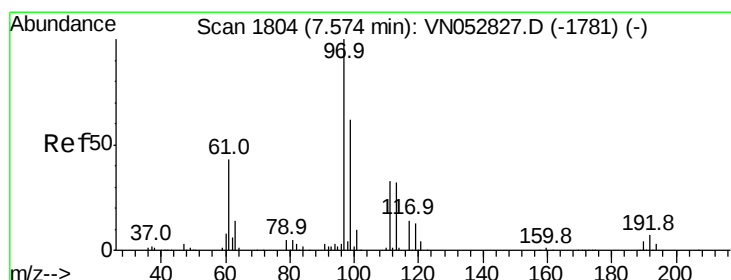
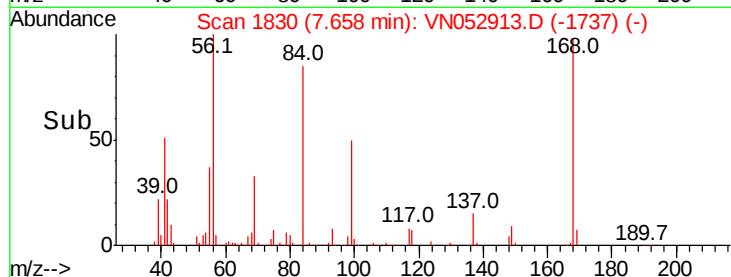
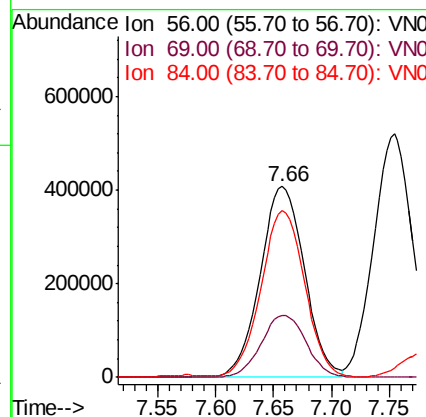
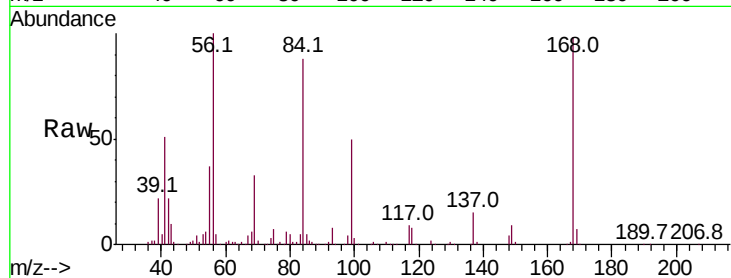
84 86.3 68.4 102.6

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#32

1,1,1-Trichloroethane

Concen: 51.796 ug/l

RT: 7.57 min Scan# 1804

Delta R.T. 0.00 min

Lab File: VN052913.D

Acq: 15 Dec 2018 2:13

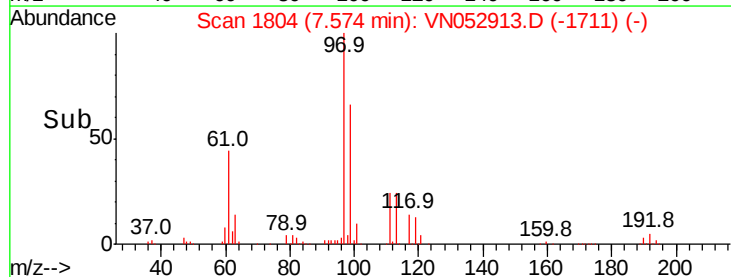
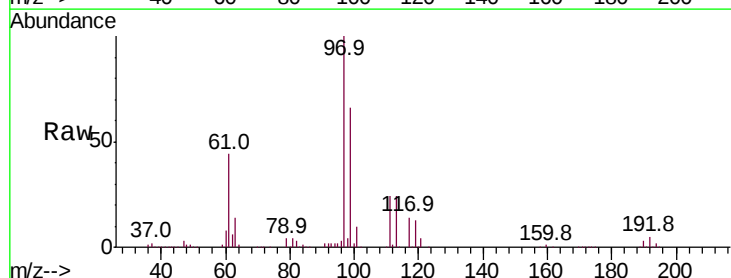
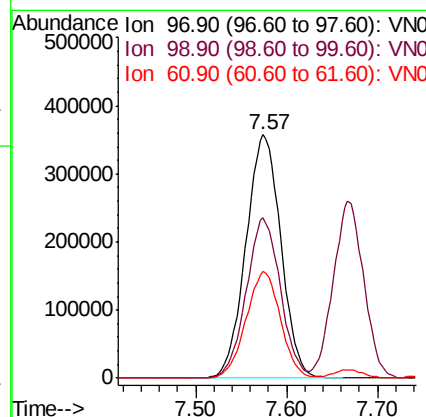
Tgt Ion: 97 Resp: 953721

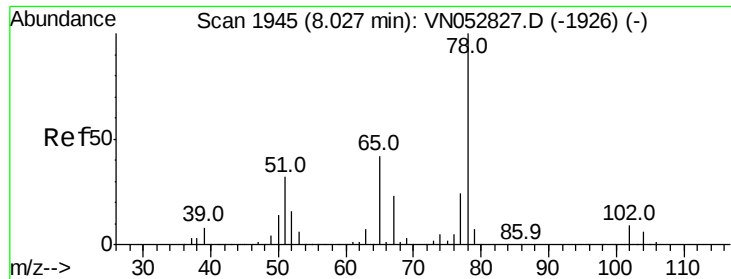
Ion Ratio Lower Upper

97 100

99 64.2 51.1 76.7

61 43.1 35.0 52.6





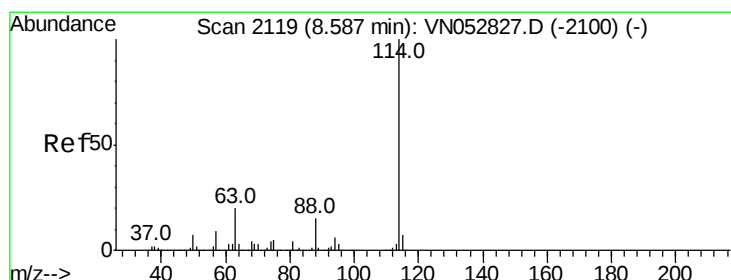
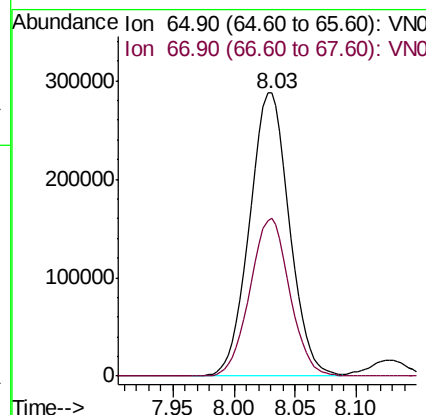
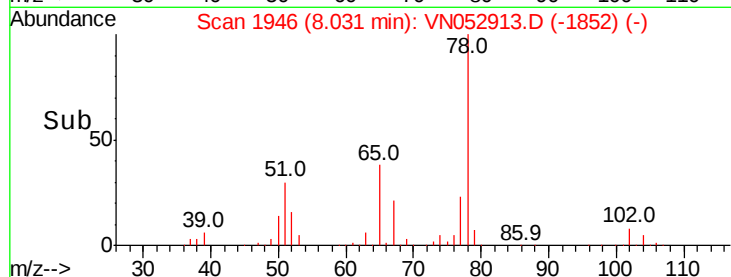
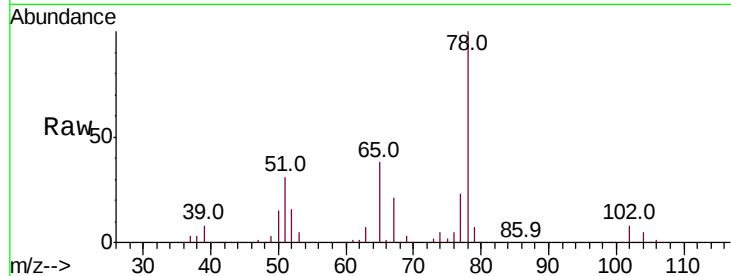
#33
 1,2-Dichloroethane-d4
 Concen: 51.796 ug/l
 RT: 8.03 min Scan# 1946
 Delta R.T. 0.00 min
 Lab File: VN052913.D
 Acq: 15 Dec 2018 2:13

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

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

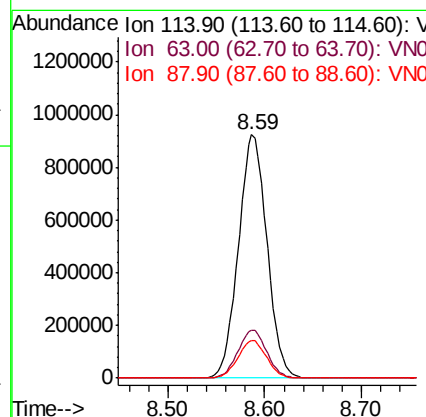
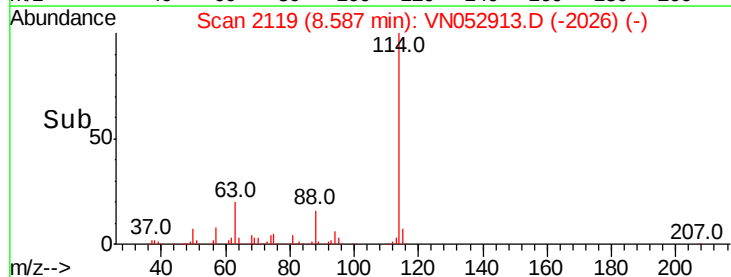
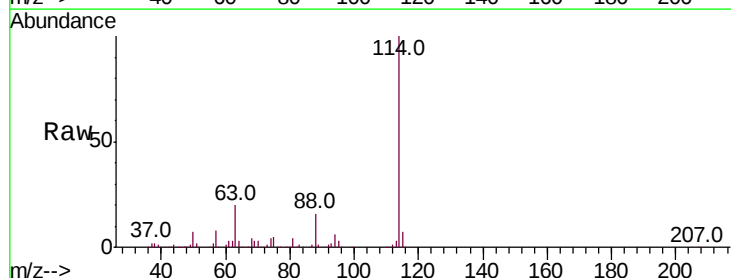
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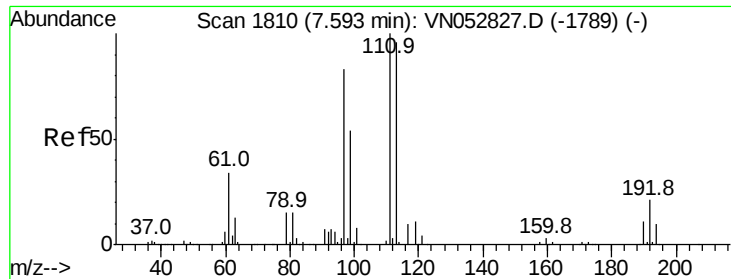
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#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN052913.D
 Acq: 15 Dec 2018 2:13

Tgt Ion	Ratio	Resp	Lower	Upper
114	100			
63	19.8	0.0	39.8	
88	15.7	0.0	31.0	





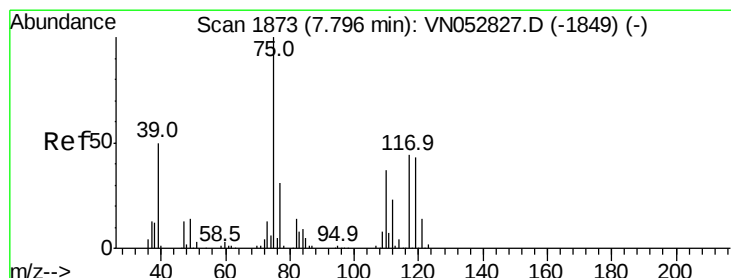
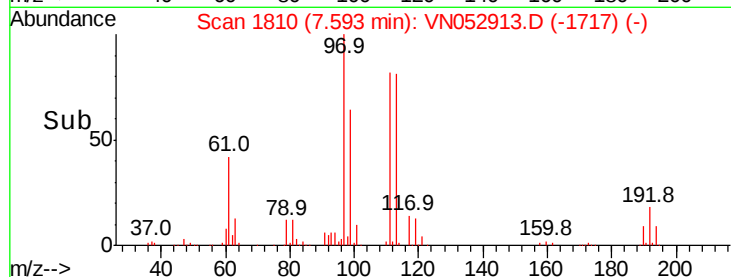
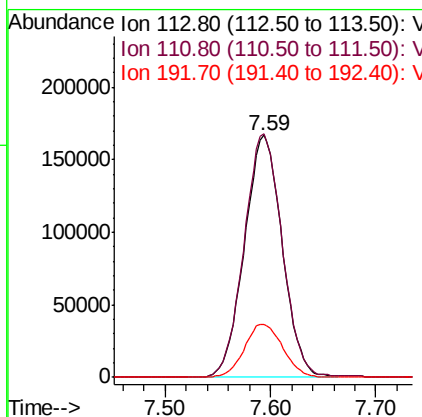
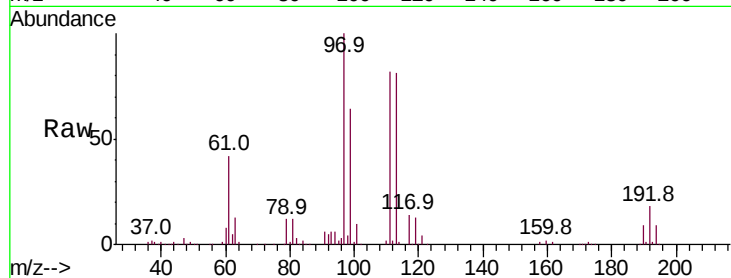
#35
Dibromofluoromethane
Concen: 50.000 ug/l
RT: 7.59 min Scan# 1810
Delta R.T. 0.00 min
Lab File: VN052913.D
Acq: 15 Dec 2018 2:13

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Resp	Lower	Upper
113	100			
111	102.1	83.0	124.4	
192	22.3	17.5	26.3	

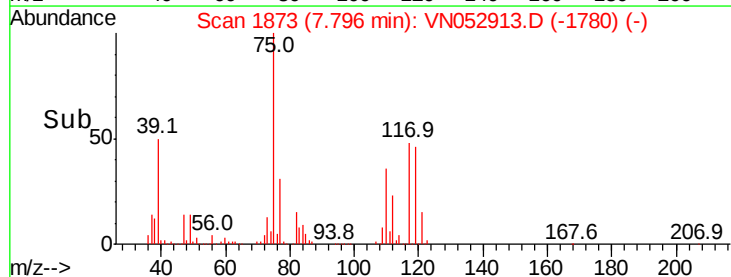
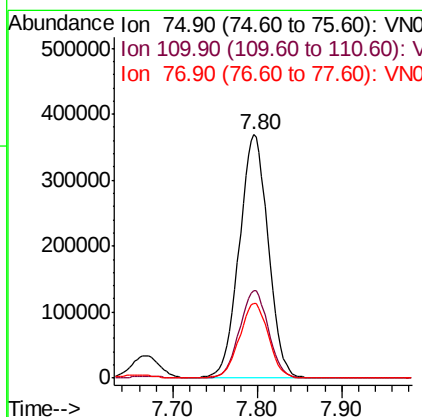
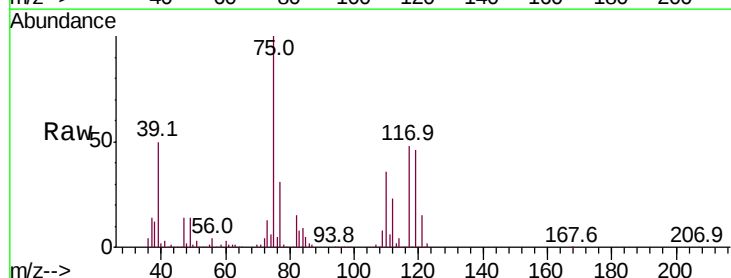
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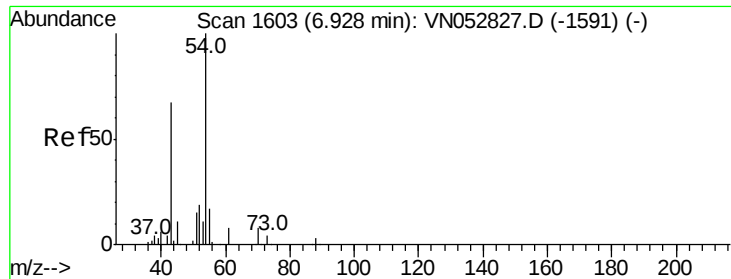
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#36
1,1-Dichloropropene
Concen: 50.556 ug/l
RT: 7.80 min Scan# 1873
Delta R.T. 0.00 min
Lab File: VN052913.D
Acq: 15 Dec 2018 2:13

Tgt Ion	Ratio	Resp	Lower	Upper
75	100			
110	35.9	18.2	54.6	
77	31.0	24.9	37.3	





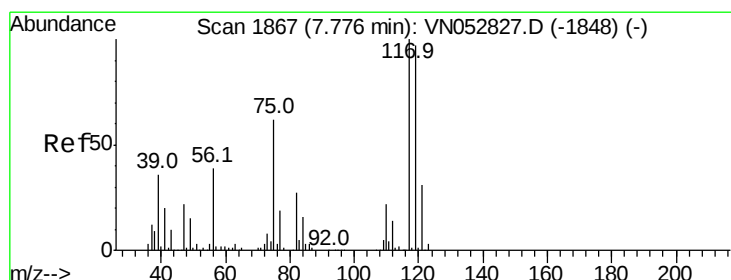
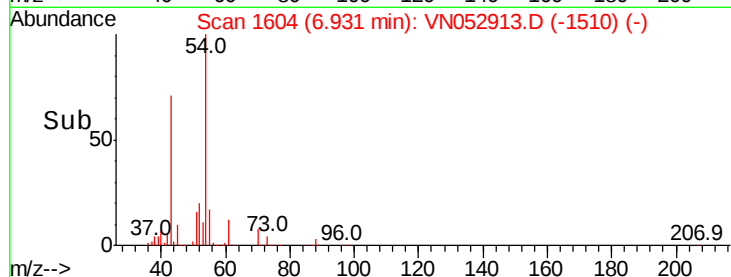
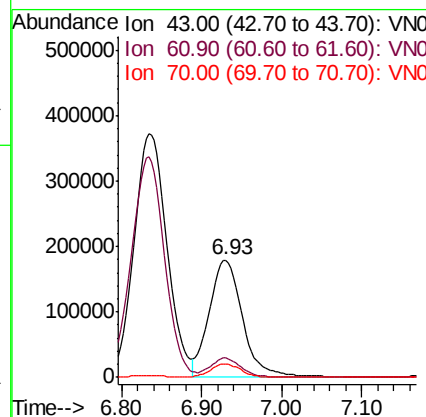
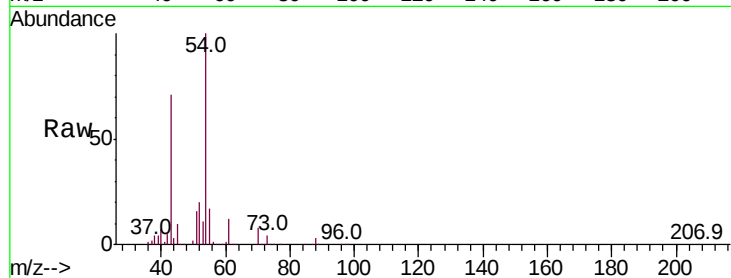
#37
Ethyl Acetate
Concen: 49.157 ug/l
RT: 6.93 min Scan# 1604
Delta R.T. 0.00 min
Lab File: VN052913.D
Acq: 15 Dec 2018 2:13

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
43	100		
61	14.7	11.8	17.6
70	10.4	8.4	12.6

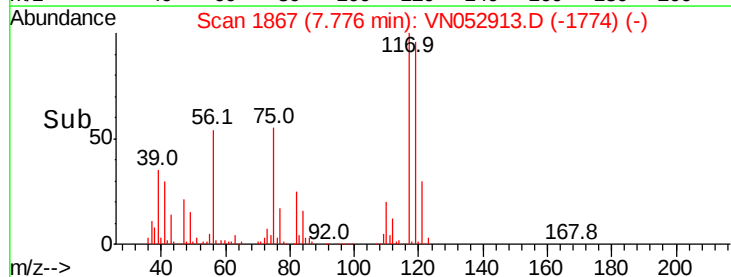
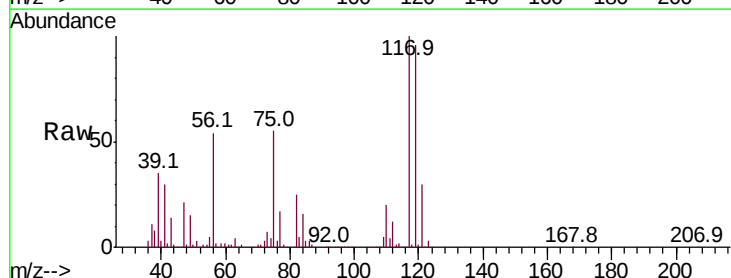
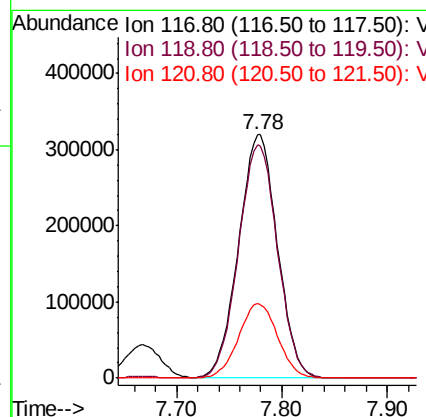
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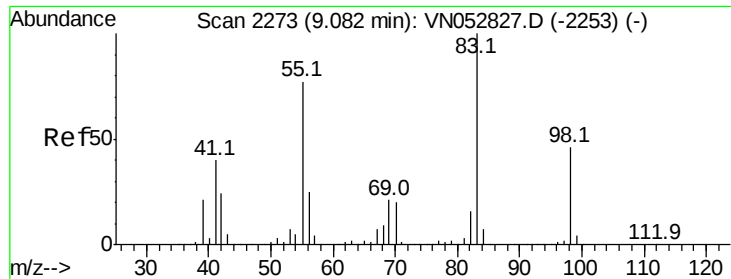
MMDadoda
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#38
Carbon Tetrachloride
Concen: 50.804 ug/l
RT: 7.78 min Scan# 1867
Delta R.T. 0.00 min
Lab File: VN052913.D
Acq: 15 Dec 2018 2:13

Tgt Ion	Ratio	Lower	Upper
117	100		
119	95.9	77.1	115.7
121	30.5	24.9	37.3





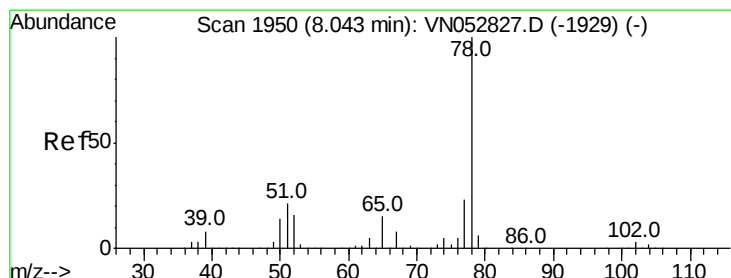
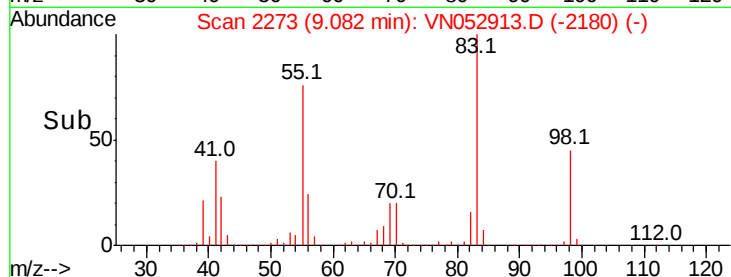
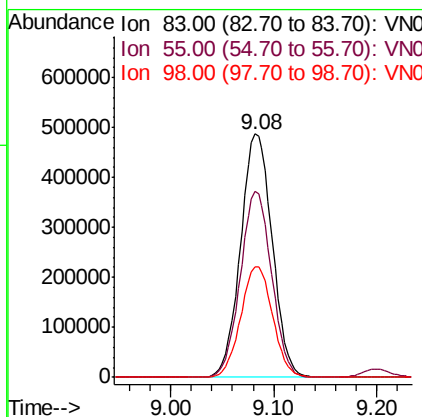
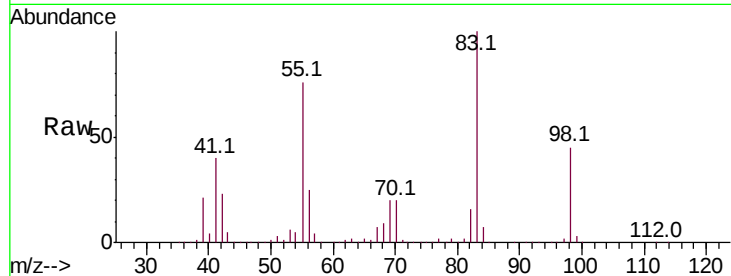
#39
Methylvlcyclohexane
Concen: 48.587 ug/l
RT: 9.08 min Scan# 2273
Delta R.T. 0.00 min
Lab File: VN052913.D
Acq: 15 Dec 2018 2:13

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion: 83 Resp: 1038196
Ion Ratio Lower Upper
83 100
55 76.2 61.3 91.9
98 45.5 37.0 55.4

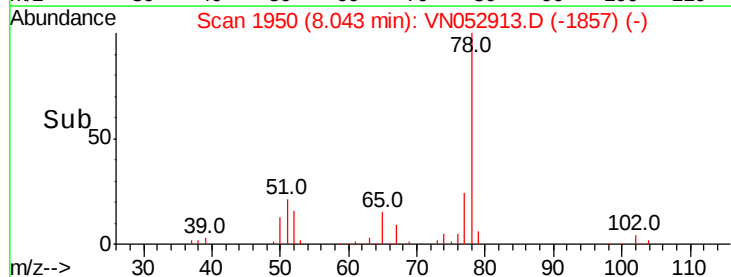
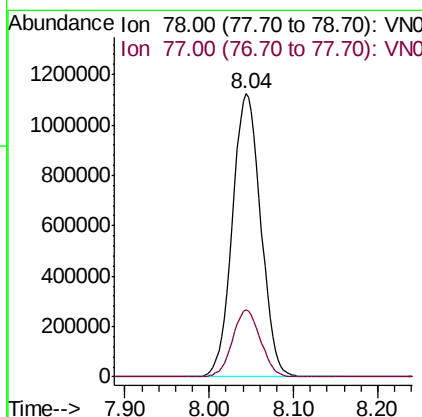
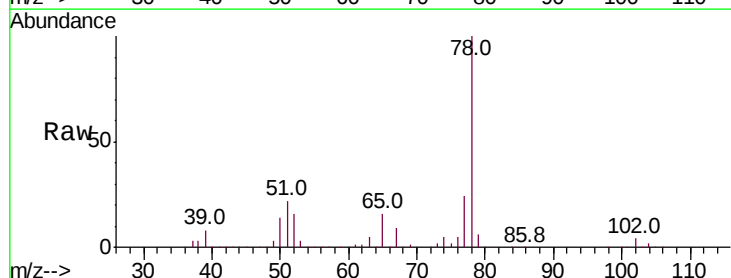
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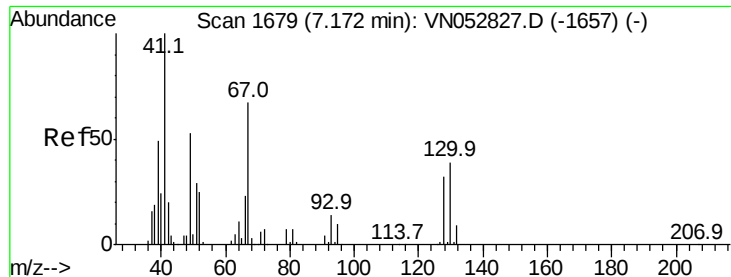
MMDadoda
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#40
Benzene
Concen: 50.408 ug/l
RT: 8.04 min Scan# 1950
Delta R.T. 0.00 min
Lab File: VN052913.D
Acq: 15 Dec 2018 2:13

Tgt Ion: 78 Resp: 2634359
Ion Ratio Lower Upper
78 100
77 23.8 18.5 27.7





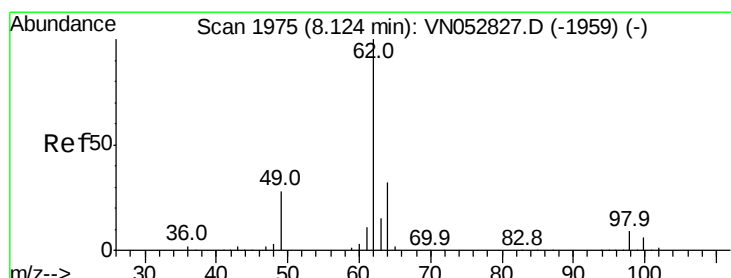
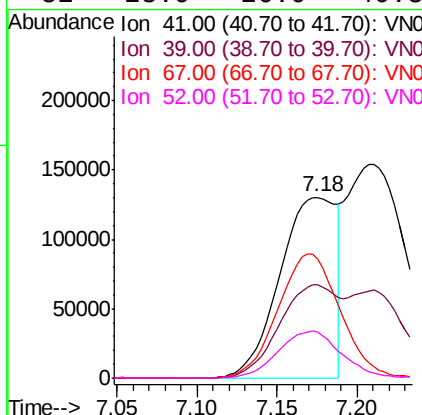
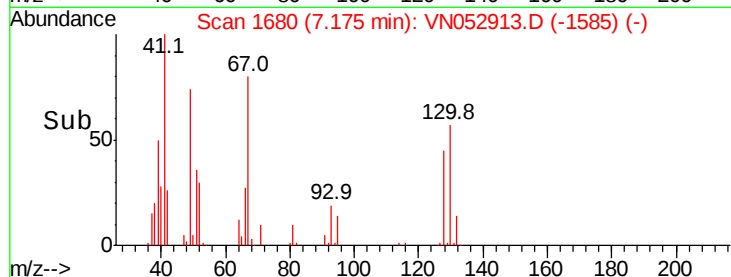
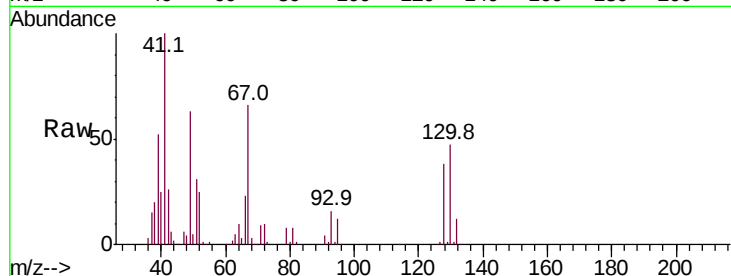
#41
Methacrylonitrile
Concen: 55.666 ug/l
RT: 7.18 min Scan# 1680
Delta R.T. 0.00 min
Lab File: VN052913.D
Acq: 15 Dec 2018 2:13

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
41	100		
39	54.2	48.0	72.0
67	75.4	70.3	105.5
52	28.9	26.9	40.3

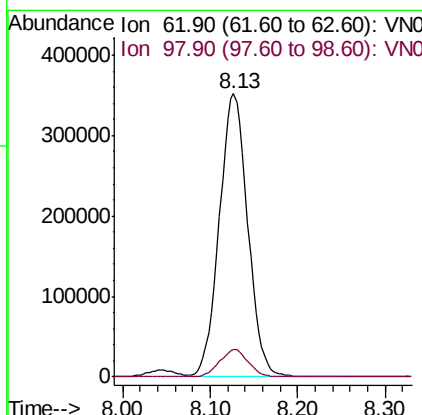
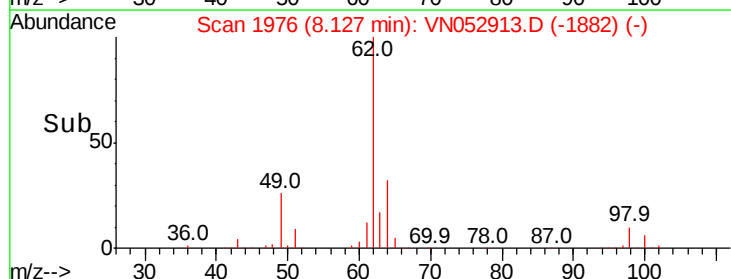
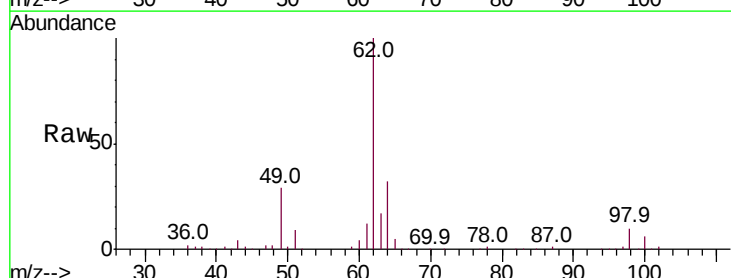
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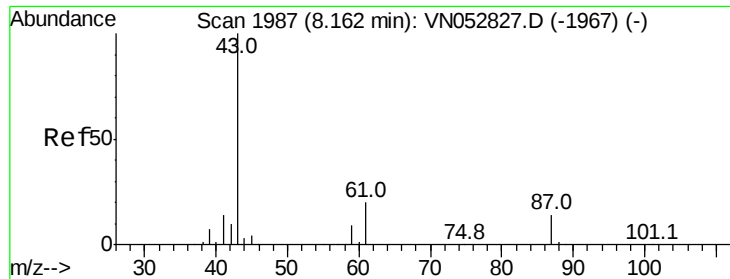
MMDadoda
12/17/2018 3:06:05 PM



#42
1,2-Dichloroethane
Concen: 50.436 ug/l
RT: 8.13 min Scan# 1976
Delta R.T. 0.00 min
Lab File: VN052913.D
Acq: 15 Dec 2018 2:13

Tgt Ion	Ratio	Lower	Upper
62	100		
98	9.6	0.0	19.0





#43

Isopropyl Acetate

Concen: 45.716 ug/l

RT: 8.17 min Scan# 1988

Delta R.T. 0.00 min

Lab File: VN052913.D

Acq: 15 Dec 2018 2:13

Instrument :

MSVOA_N

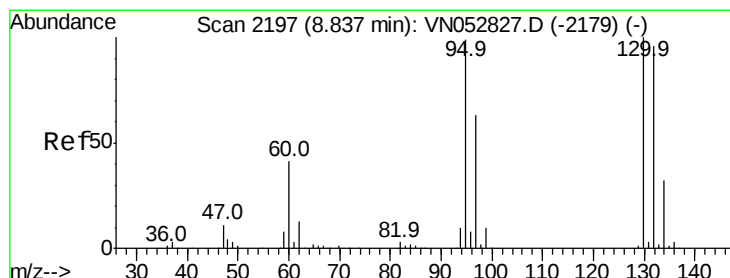
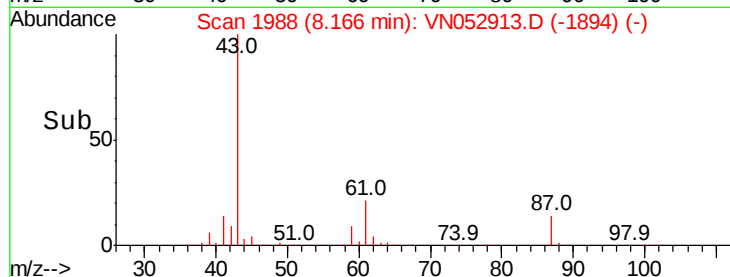
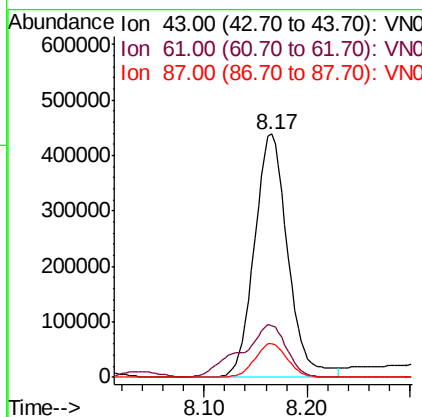
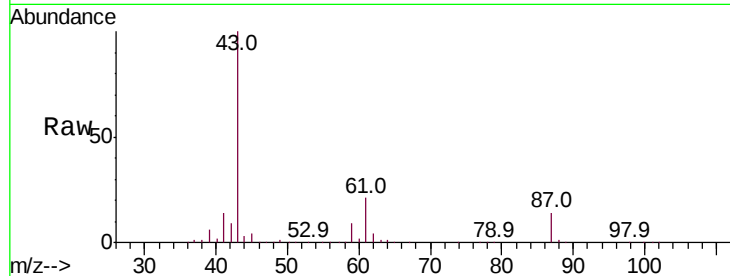
ClientSampleId :

VSTDCCC050EC

Tot Ion:	43	Resp:	980440
Ion	Ratio	Lower	Upper
43	100		
61	29.3	22.9	34.3
87	13.5	10.6	15.8

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#44

Trichloroethene

Concen: 54.882 ug/l

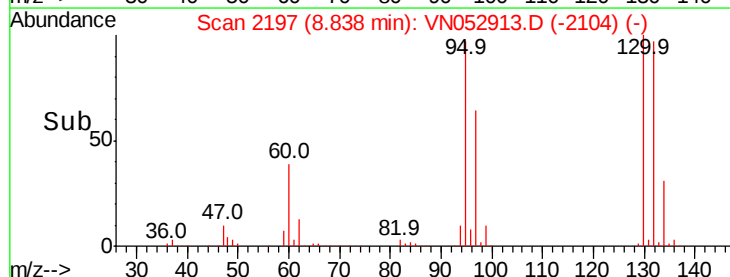
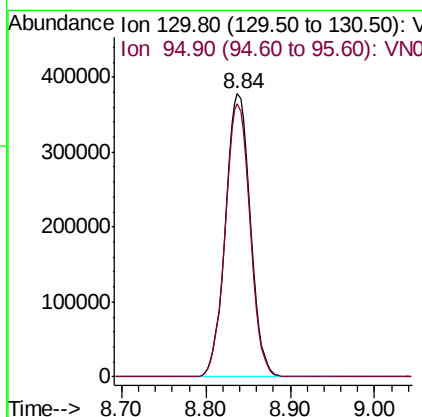
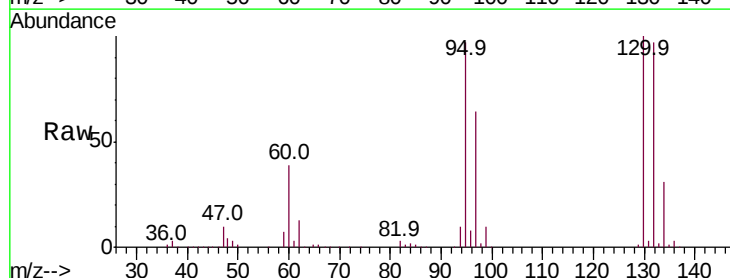
RT: 8.84 min Scan# 2197

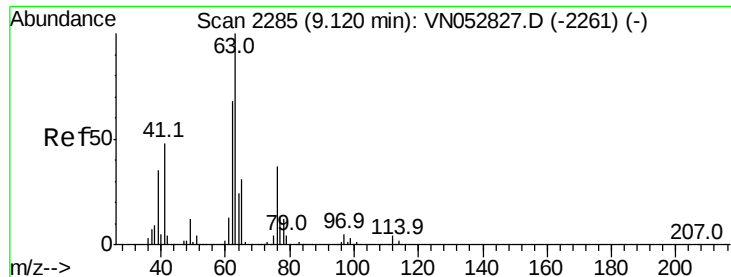
Delta R.T. 0.00 min

Lab File: VN052913.D

Acq: 15 Dec 2018 2:13

Tgt Ion:	130	Resp:	774710
Ion	Ratio	Lower	Upper
130	100		
95	96.5	0.0	197.8





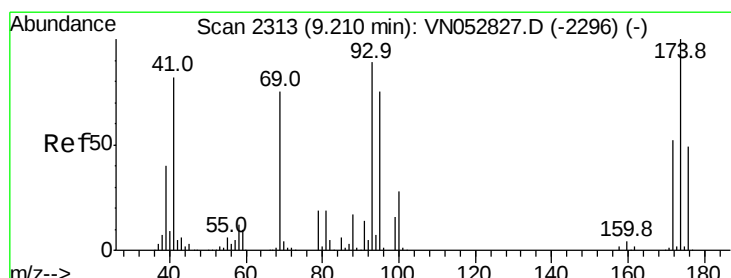
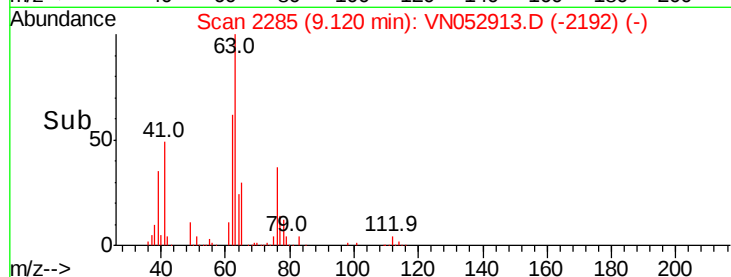
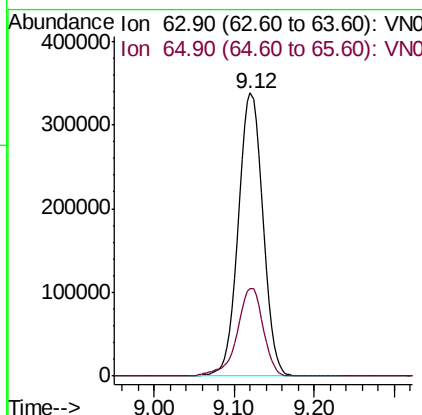
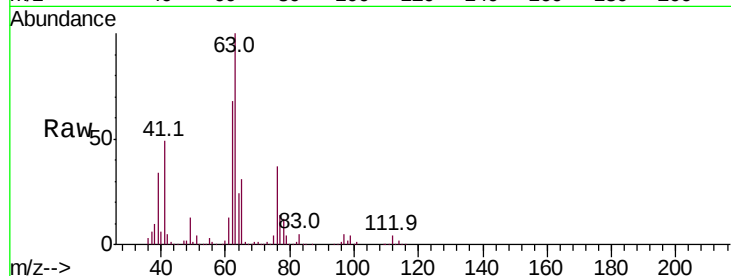
#45
 1,2-Dichloropropane
 Concen: 50.863 ug/l
 RT: 9.12 min Scan# 2285
 Delta R.T. 0.00 min
 Lab File: VN052913.D
 Acq: 15 Dec 2018 2:13

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
63	100		
65	31.1	24.6	37.0

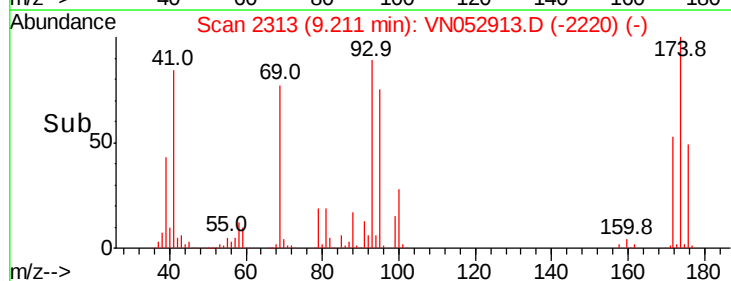
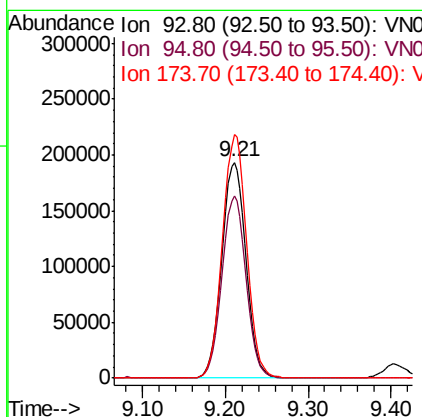
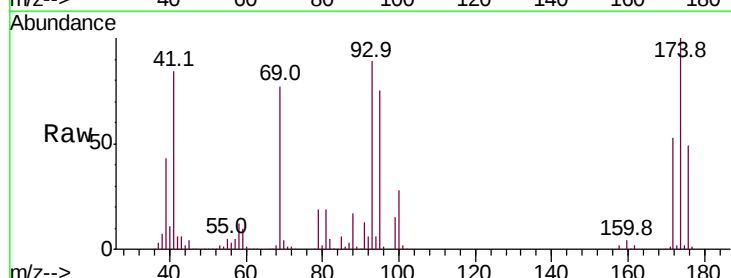
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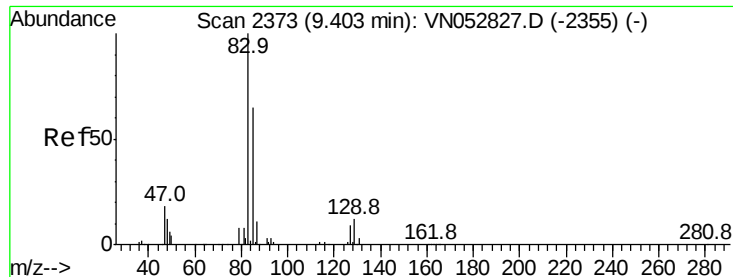
MMDadoda
 12/17/2018 3:06:05 PM



#46
 Dibromomethane
 Concen: 49.286 ug/l
 RT: 9.21 min Scan# 2313
 Delta R.T. 0.00 min
 Lab File: VN052913.D
 Acq: 15 Dec 2018 2:13

Tgt Ion	Ratio	Lower	Upper
93	100		
95	84.3	67.8	101.6
174	113.2	89.0	133.4





#47

Bromodichloromethane

Concen: 51.108 ug/l

RT: 9.40 min Scan# 2373

Delta R.T. 0.00 min

Lab File: VN052913.D

Acq: 15 Dec 2018 2:13

Instrument :

MSVOA_N

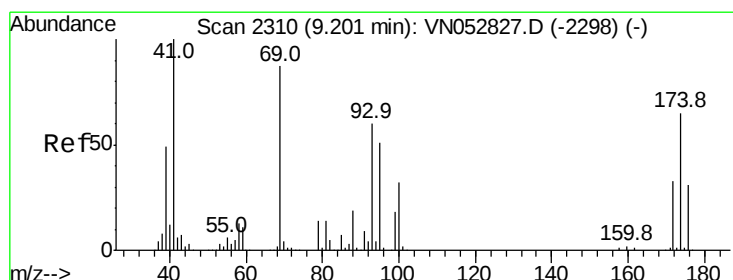
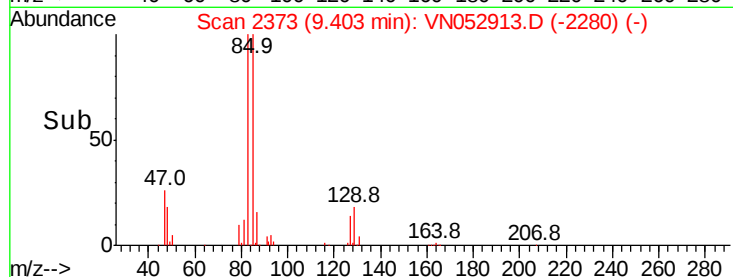
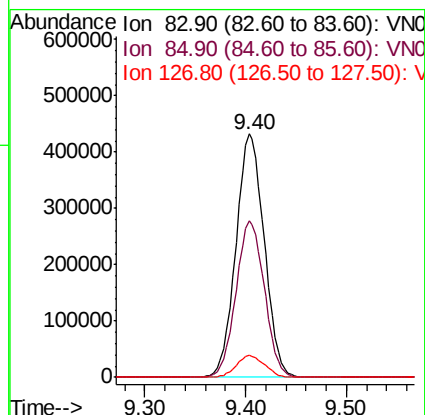
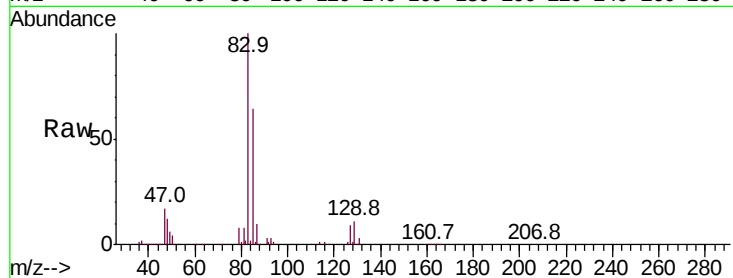
ClientSampleId :

VSTDCCC050EC

Tot Ion:	83	Resp:	841342
Ion Ratio	Lower	Upper	
83	100		
85	64.1	51.6	77.4
127	9.0	7.1	10.7

Manual Integrations
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#48

Methyl methacrylate

Concen: 50.049 ug/l

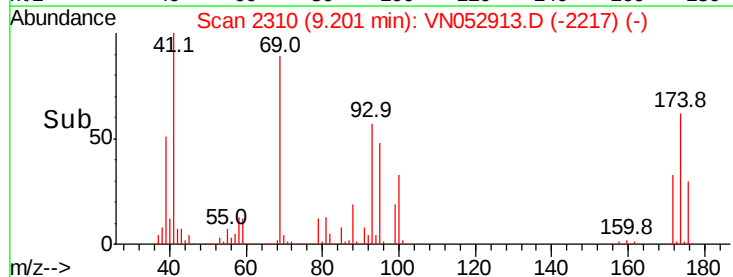
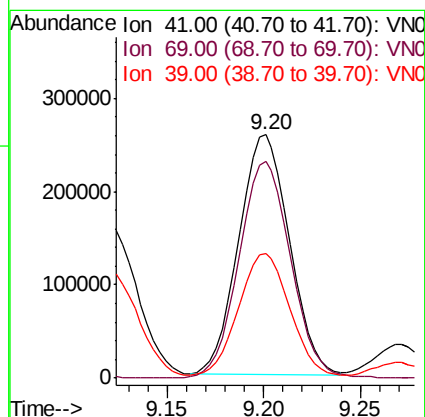
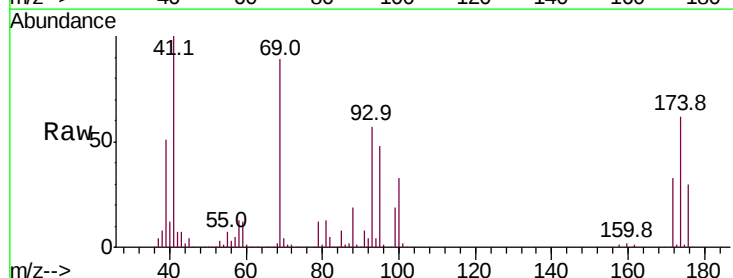
RT: 9.20 min Scan# 2310

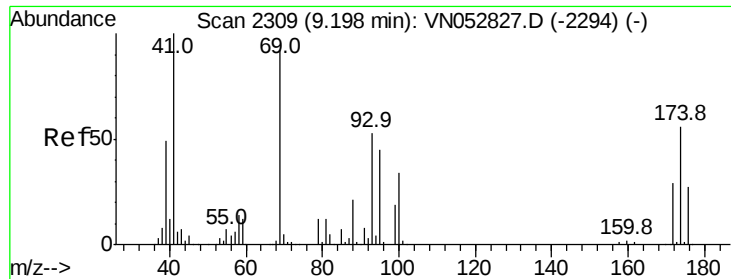
Delta R.T. 0.00 min

Lab File: VN052913.D

Acq: 15 Dec 2018 2:13

Tgt Ion:	41	Resp:	470710
Ion Ratio	Lower	Upper	
41	100		
69	92.4	72.2	108.2
39	53.5	41.9	62.9





#49

1,4-Dioxane

Concen: 961.402 ug/l

RT: 9.20 min Scan# 2310

Delta R.T. 0.00 min

Lab File: VN052913.D

Acq: 15 Dec 2018 2:13

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 88 Resp: 102635

Ion Ratio Lower Upper

88 100

43 33.3 26.6 40.0

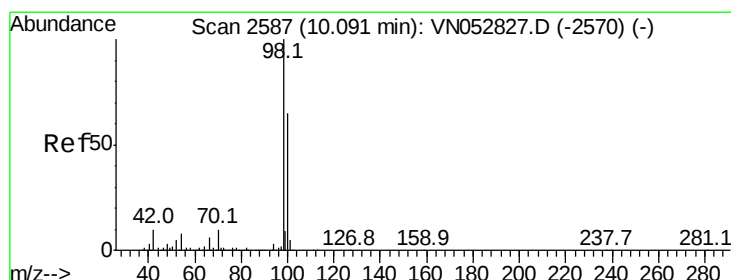
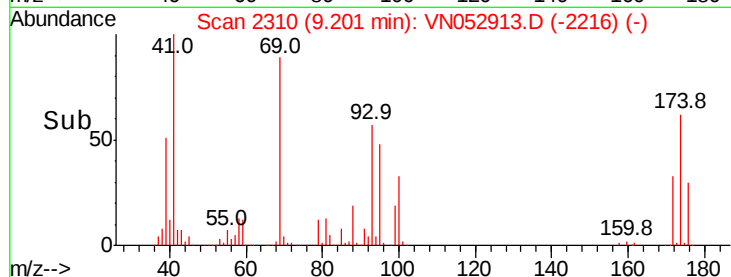
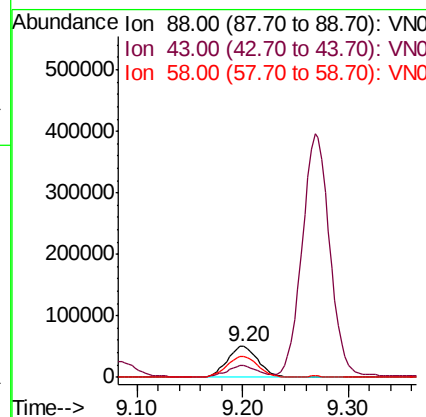
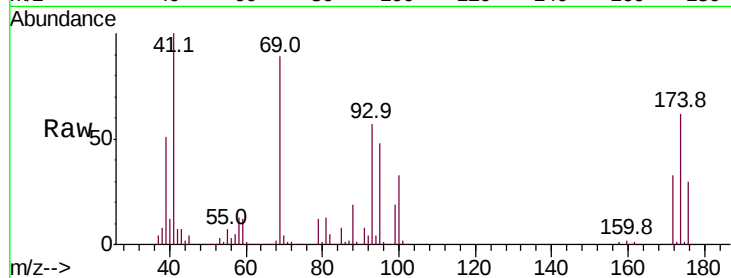
58 68.3 58.4 87.6

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#50

Toluene-d8

Concen: 961.402 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN052913.D

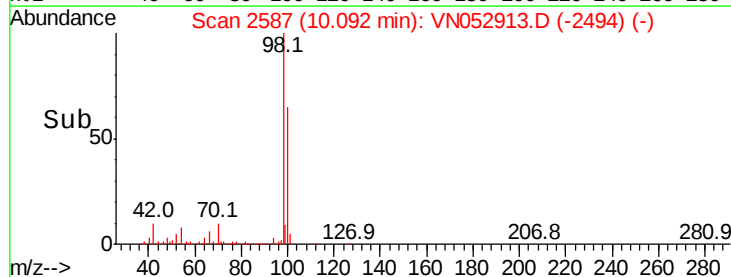
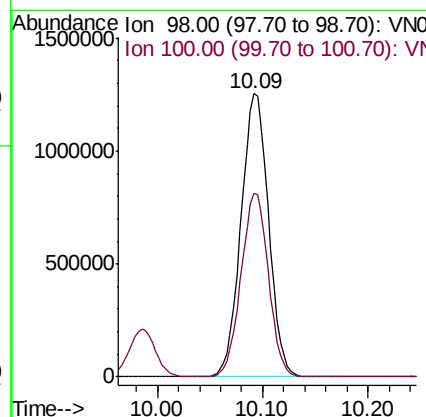
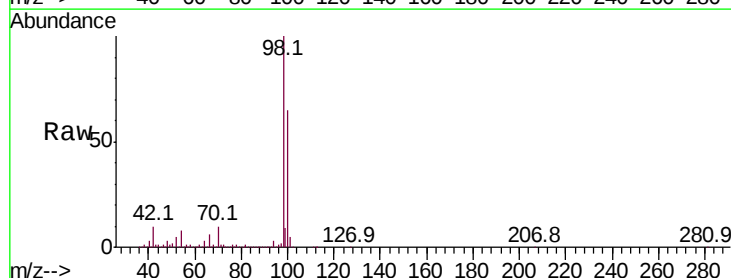
Acq: 15 Dec 2018 2:13

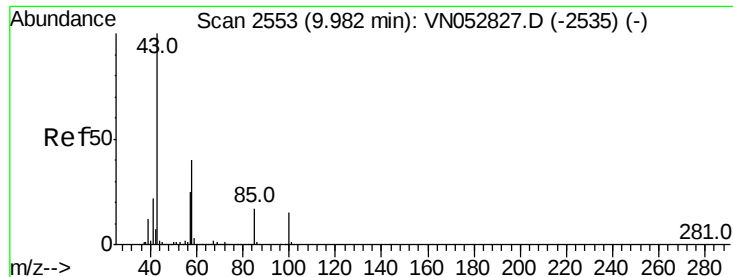
Tgt Ion: 98 Resp: 2270515

Ion Ratio Lower Upper

98 100

100 64.5 51.6 77.4





#51

4-Methyl-2-Pentanone

Concen: 246.028 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. 0.00 min

Lab File: VN052913.D

Acq: 15 Dec 2018 2:13

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 43 Resp: 2419428

Ion Ratio Lower Upper

43 100

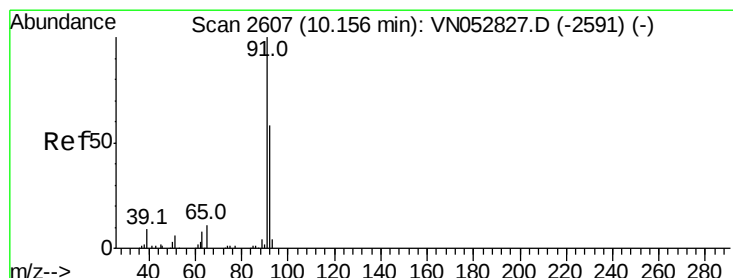
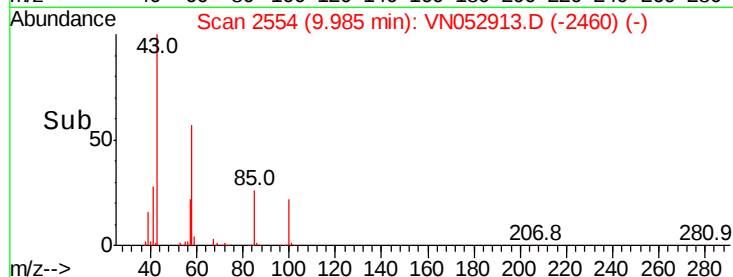
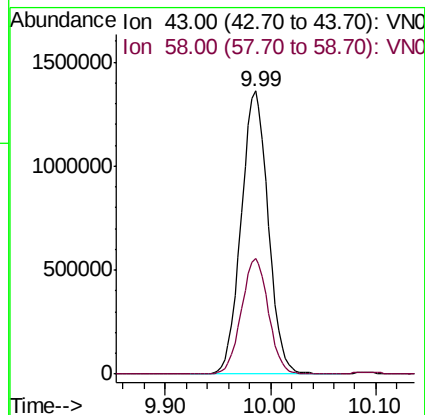
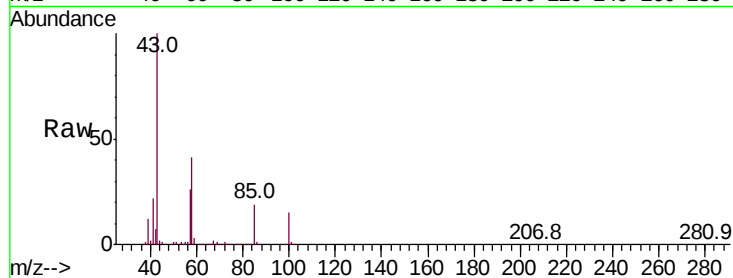
58 40.9 32.2 48.4

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#52

Toluene

Concen: 50.204 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VN052913.D

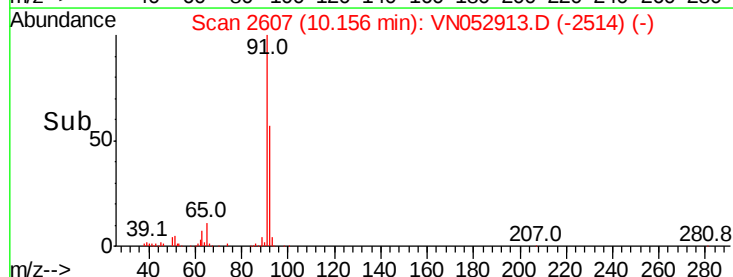
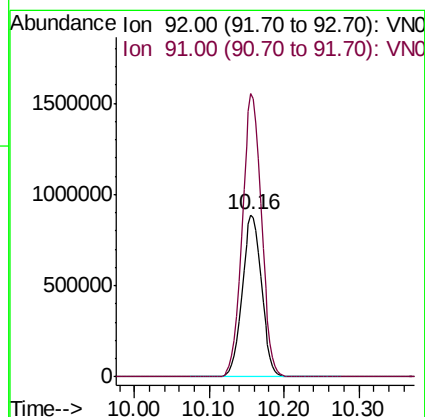
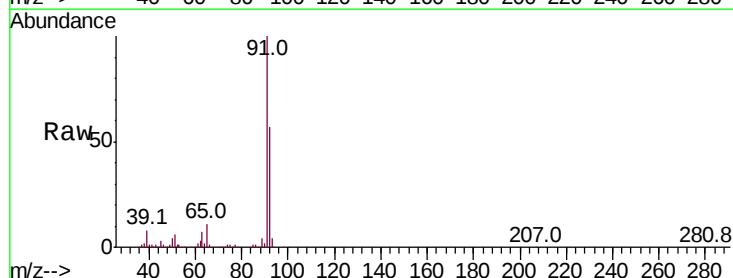
Acq: 15 Dec 2018 2:13

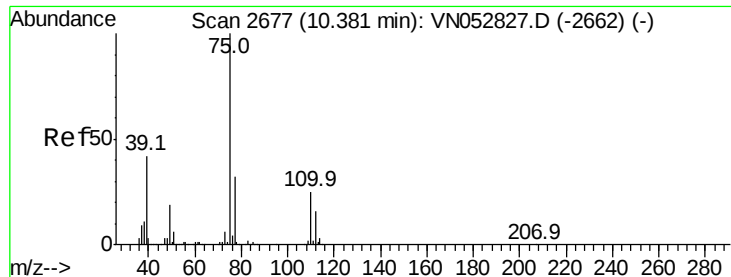
Tgt Ion: 92 Resp: 1589059

Ion Ratio Lower Upper

92 100

91 174.2 139.8 209.6





#53

t-1,3-Dichloropropene

Concen: 49.960 ug/l

RT: 10.38 min Scan# 2678

Delta R.T. 0.00 min

Lab File: VN052913.D

Acq: 15 Dec 2018 2:13

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 75 Resp: 827603

Ion Ratio Lower Upper

75 100

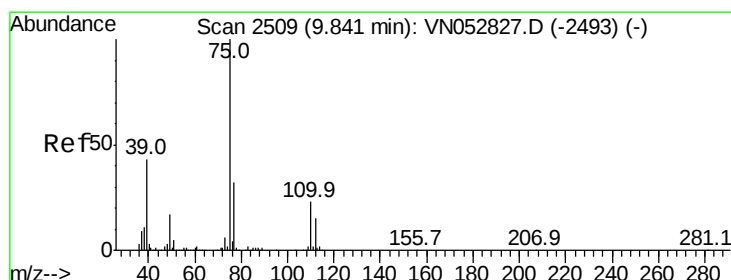
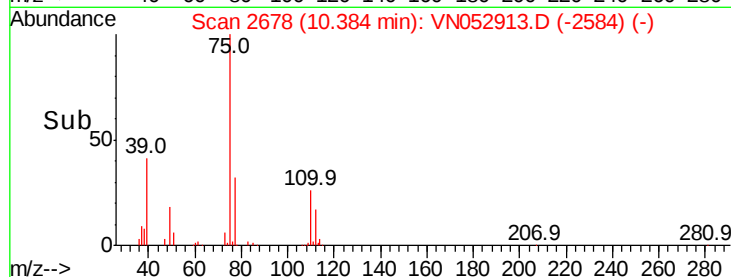
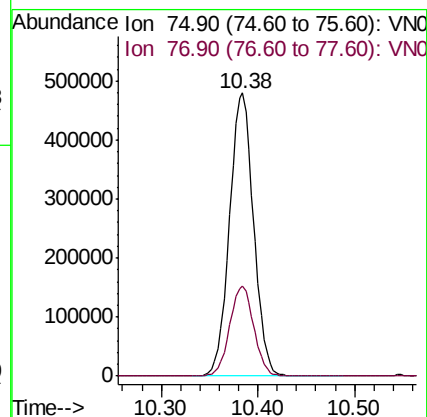
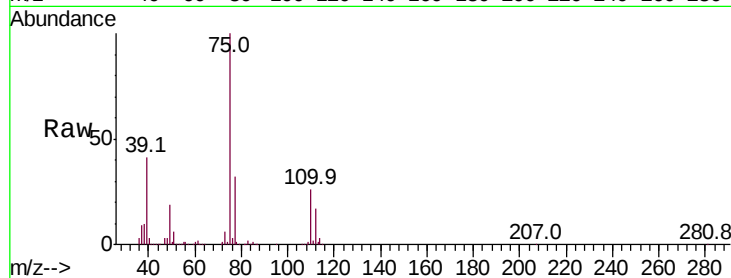
77 31.7 25.6 38.4

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#54

cis-1,3-Dichloropropene

Concen: 50.374 ug/l

RT: 9.84 min Scan# 2509

Delta R.T. 0.00 min

Lab File: VN052913.D

Acq: 15 Dec 2018 2:13

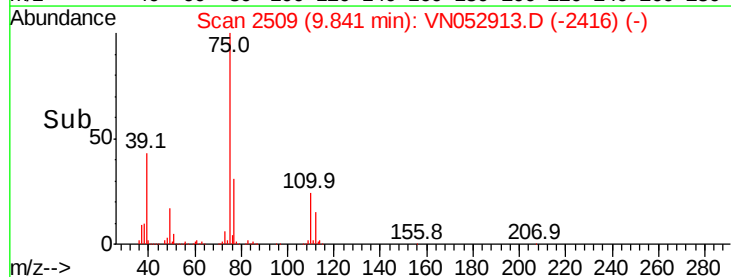
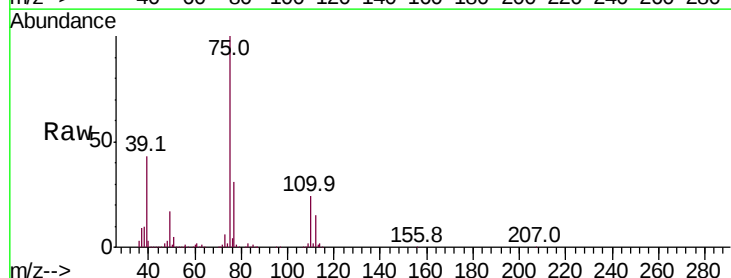
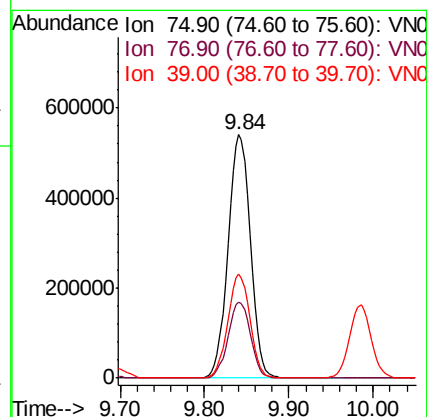
Tgt Ion: 75 Resp: 994374

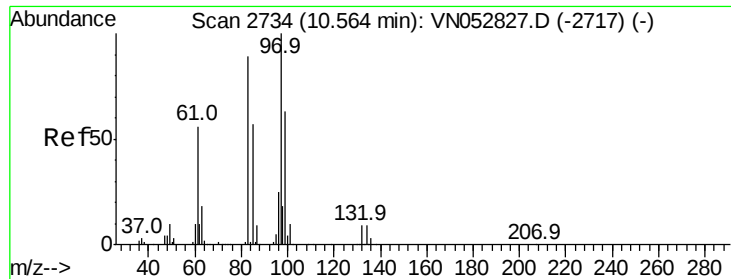
Ion Ratio Lower Upper

75 100

77 31.3 25.8 38.8

39 42.8 34.8 52.2





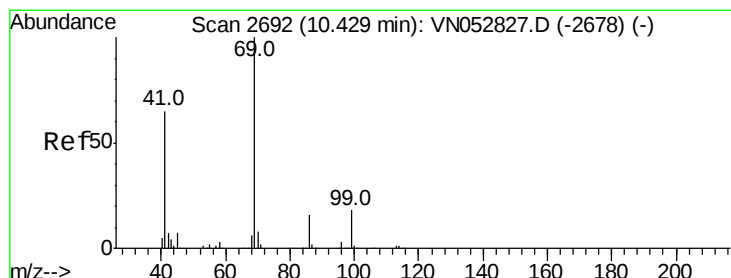
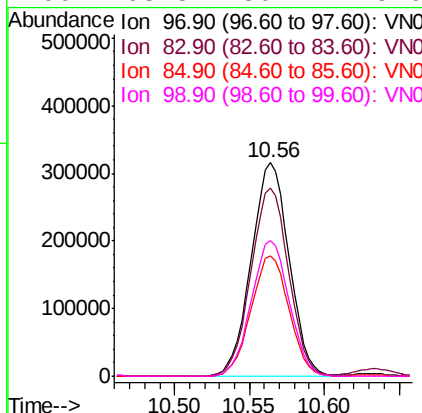
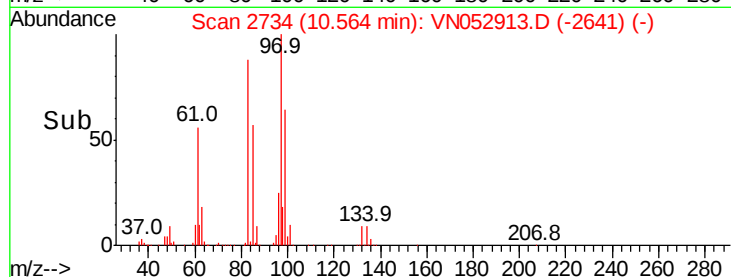
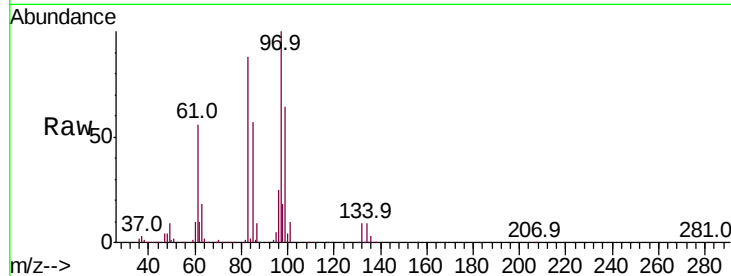
#55
 1,1,2-Trichloroethane
 Concen: 49.248 ug/l
 RT: 10.56 min Scan# 2734
 Delta R.T. 0.00 min
 Lab File: VN052913.D
 Acq: 15 Dec 2018 2:13

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tot Ion:	97	Resp:	556450
Ion	Ratio	Lower	Upper
97	100		
83	88.3	70.9	106.3
85	56.6	45.4	68.2
99	63.8	50.4	75.6

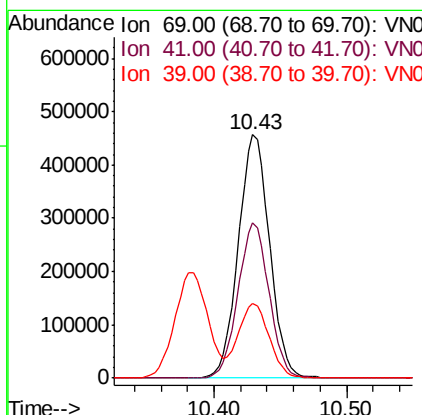
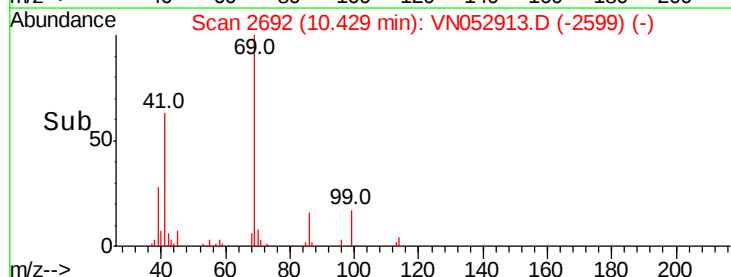
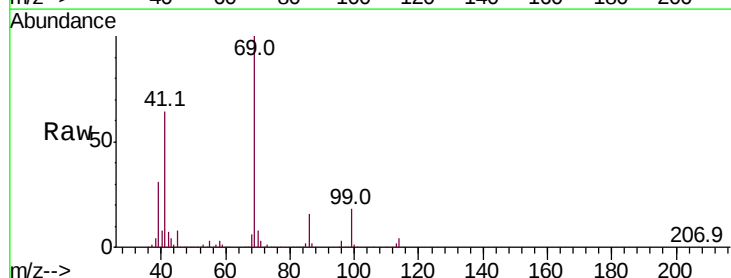
Manual Integrations
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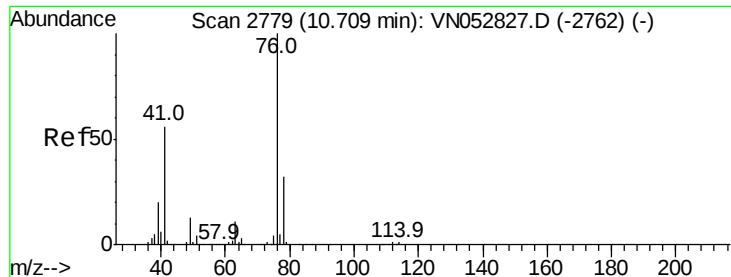
MMDadoda
 12/17/2018 3:06:05 PM



#56
 Ethyl methacrylate
 Concen: 51.613 ug/l
 RT: 10.43 min Scan# 2692
 Delta R.T. 0.00 min
 Lab File: VN052913.D
 Acq: 15 Dec 2018 2:13

Tgt Ion:	69	Resp:	748403
Ion	Ratio	Lower	Upper
69	100		
41	63.5	51.7	77.5
39	30.7	24.6	37.0





#57

1,3-Dichloropropane

Concen: 50.045 ug/l

RT: 10.71 min Scan# 2779

Delta R.T. 0.00 min

Lab File: VN052913.D

Acq: 15 Dec 2018 2:13

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 76 Resp: 969662

Ion Ratio Lower Upper

76 100

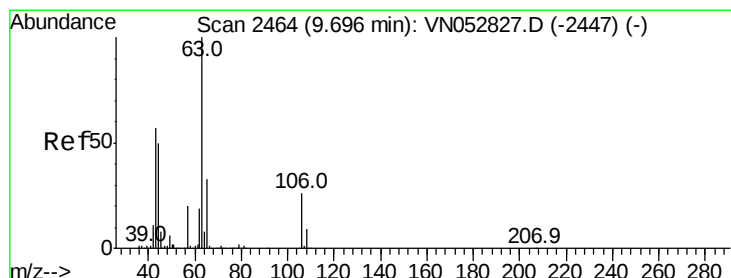
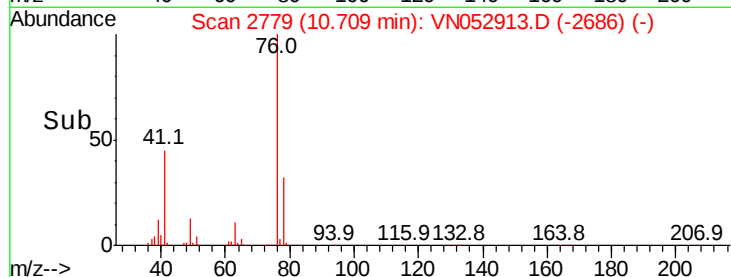
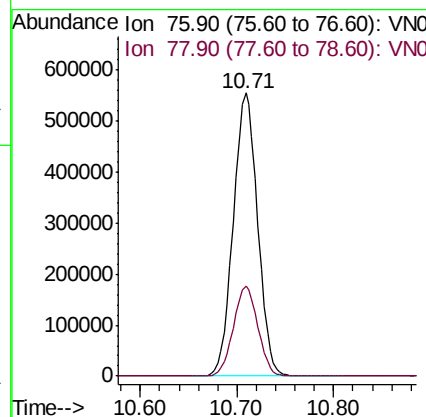
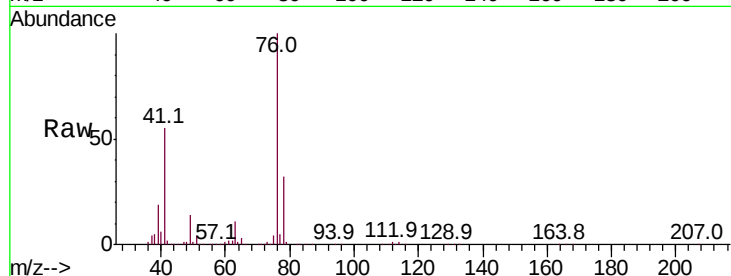
78 32.0 25.8 38.8

Manual Integrations

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#58

2-Chloroethyl Vinyl ether

Concen: 259.667 ug/l

RT: 9.70 min Scan# 2464

Delta R.T. 0.00 min

Lab File: VN052913.D

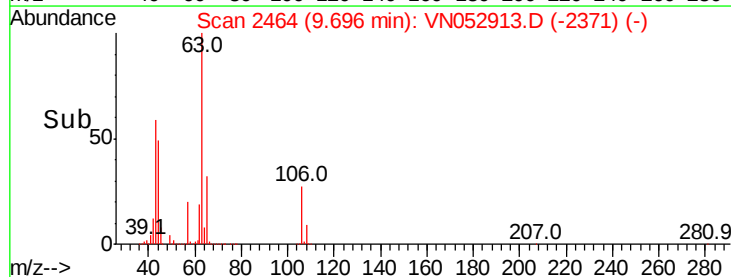
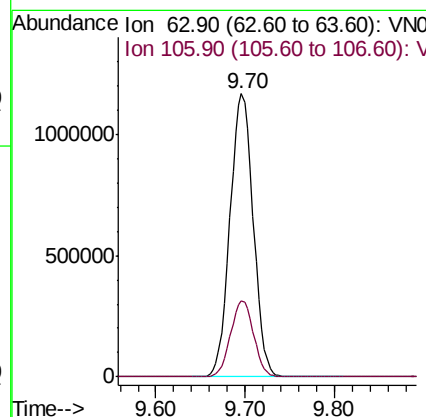
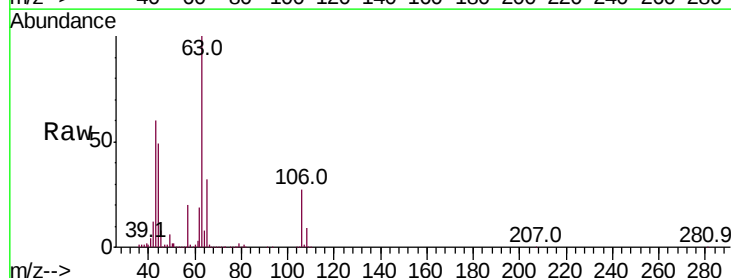
Acq: 15 Dec 2018 2:13

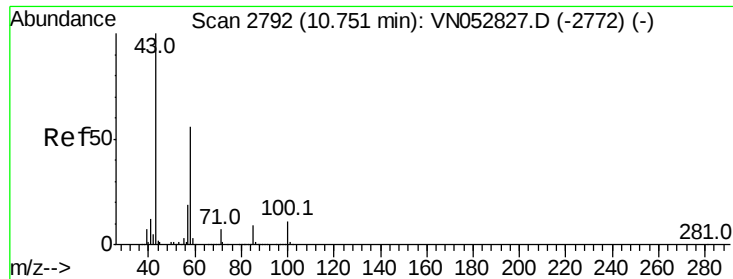
Tgt Ion: 63 Resp: 2100929

Ion Ratio Lower Upper

63 100

106 26.8 21.0 31.6





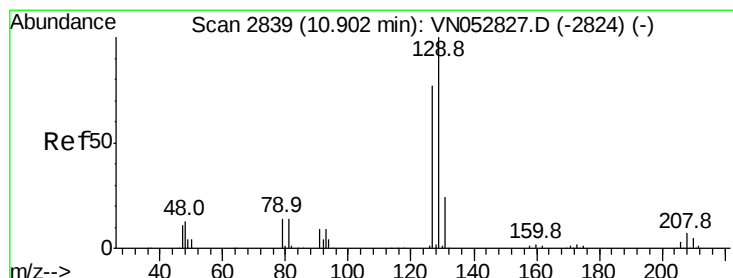
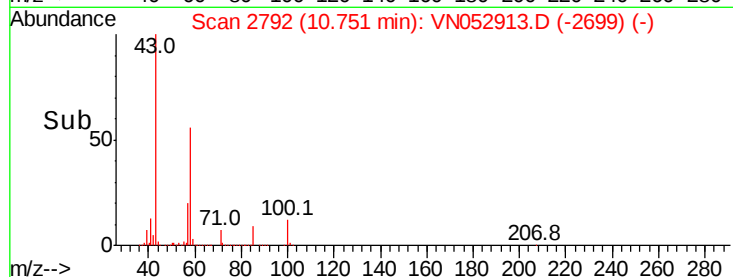
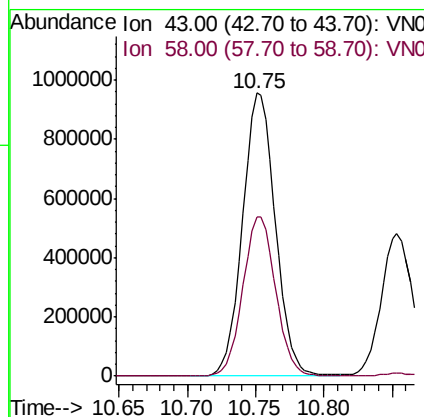
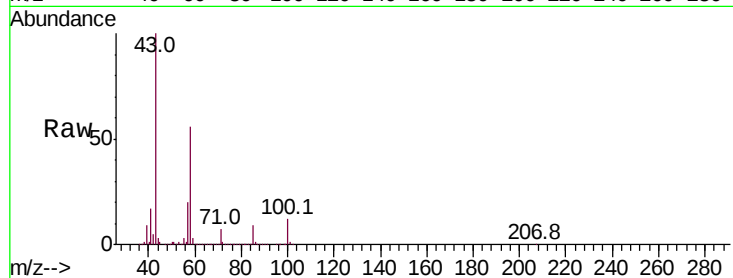
#59
2-Hexanone
Concen: 236.030 ug/l
RT: 10.75 min Scan# 2792
Delta R.T. 0.00 min
Lab File: VN052913.D
Acq: 15 Dec 2018 2:13

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion: 43 Resp: 1590701
Ion Ratio Lower Upper
43 100
58 56.6 28.1 84.3

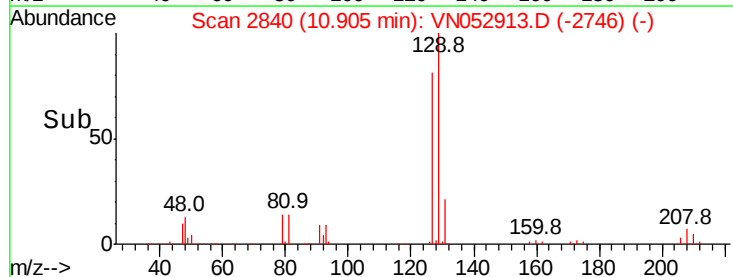
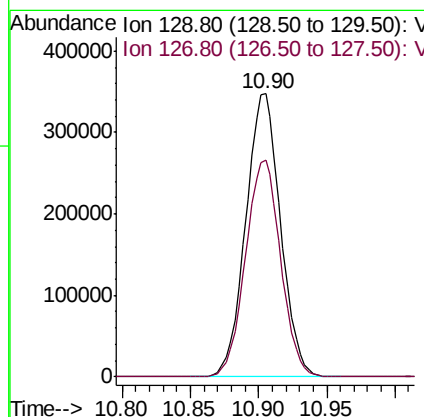
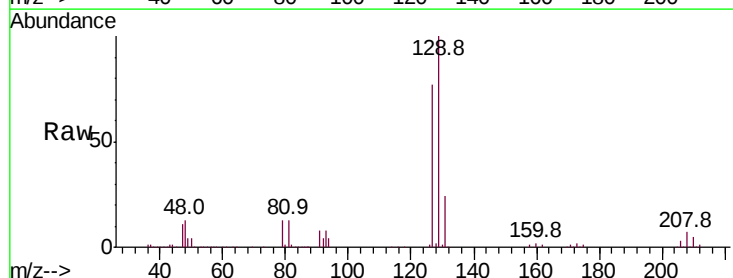
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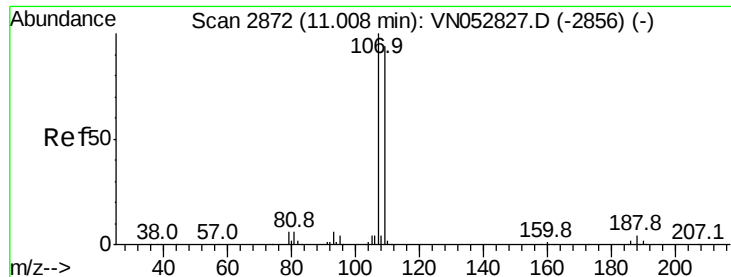
MMDadoda
12/17/2018 3:06:05 PM



#60
Dibromochloromethane
Concen: 50.324 ug/l
RT: 10.90 min Scan# 2840
Delta R.T. 0.00 min
Lab File: VN052913.D
Acq: 15 Dec 2018 2:13

Tgt Ion: 129 Resp: 614527
Ion Ratio Lower Upper
129 100
127 77.3 38.6 116.0





#61

1,2-Dibromoethane

Concen: 49.359 ug/l

RT: 11.01 min Scan# 2872

Delta R.T. 0.00 min

Lab File: VN052913.D

Acq: 15 Dec 2018 2:13

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion:107 Resp: 551269

Ion Ratio Lower Upper

107 100

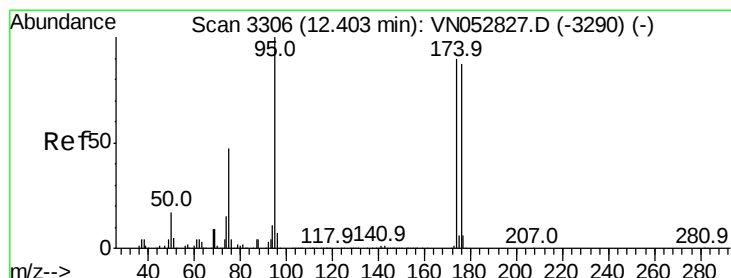
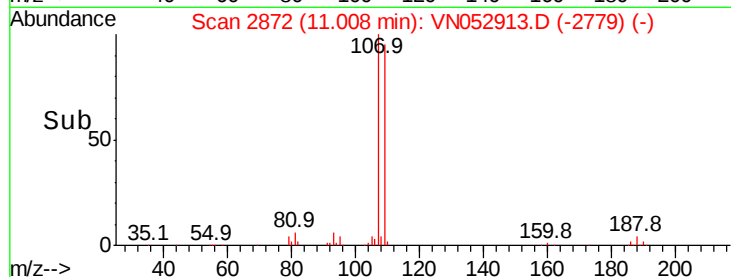
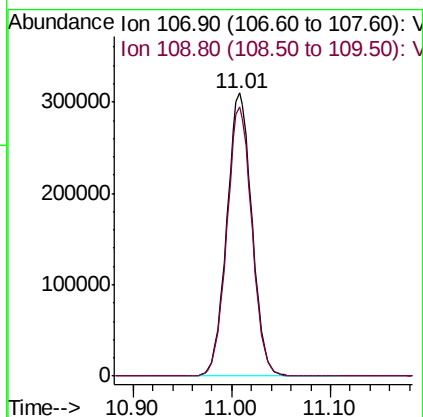
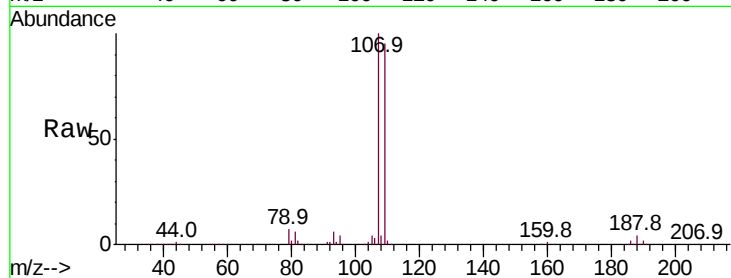
109 95.2 75.4 113.0

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#62

4-Bromofluorobenzene

Concen: 49.359 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN052913.D

Acq: 15 Dec 2018 2:13

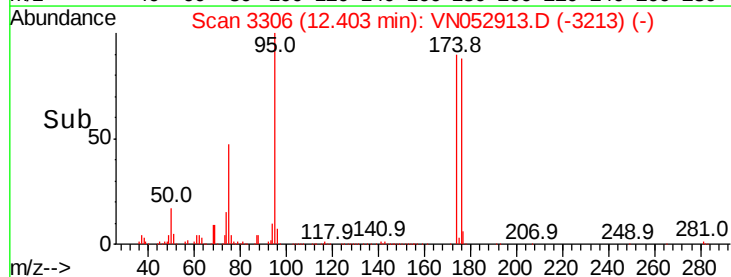
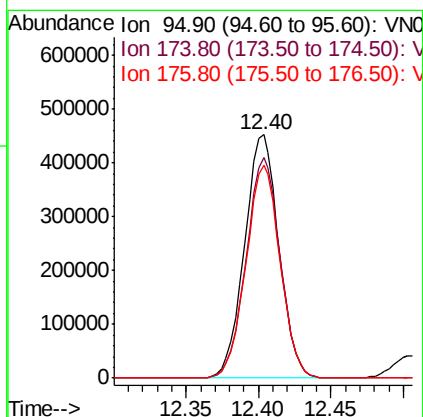
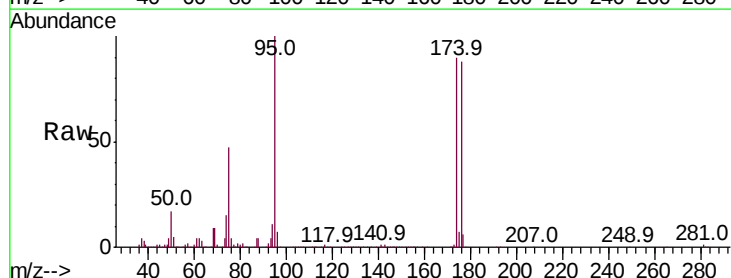
Tgt Ion: 95 Resp: 743644

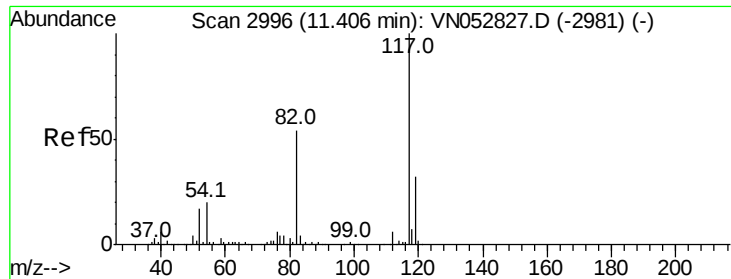
Ion Ratio Lower Upper

95 100

174 90.1 0.0 178.8

176 87.1 0.0 173.8





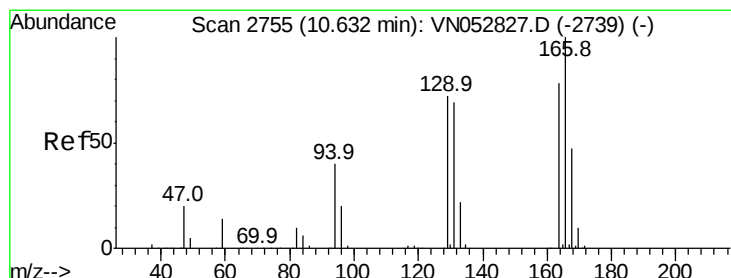
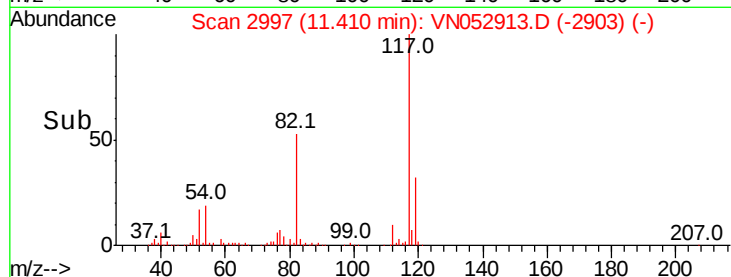
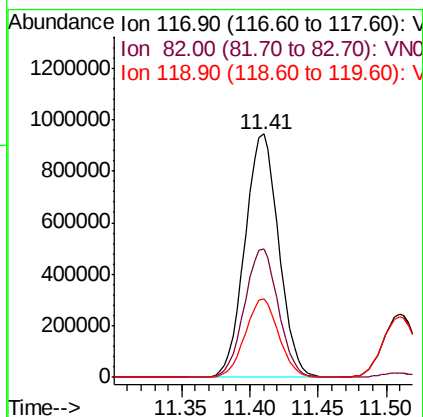
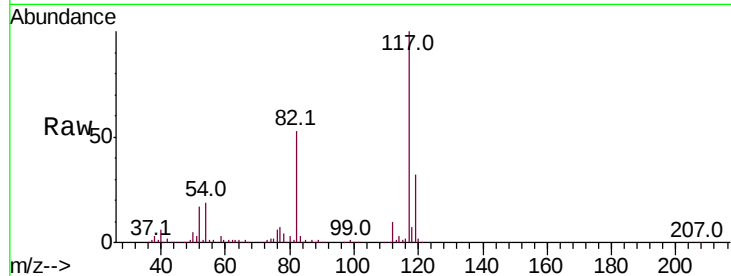
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN052913.D
Acq: 15 Dec 2018 2:13

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion:117 Resp: 1625726
Ion Ratio Lower Upper
117 100
82 52.7 42.8 64.2
119 32.3 25.5 38.3

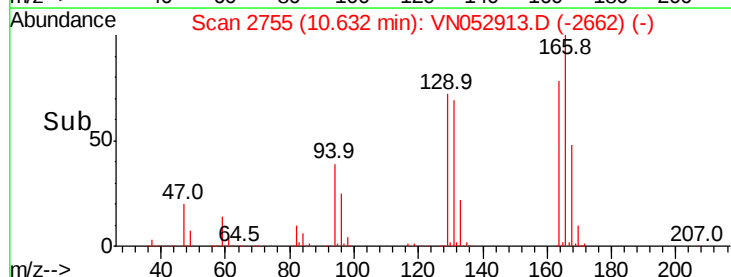
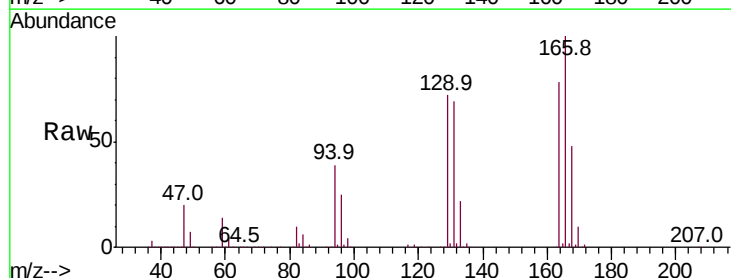
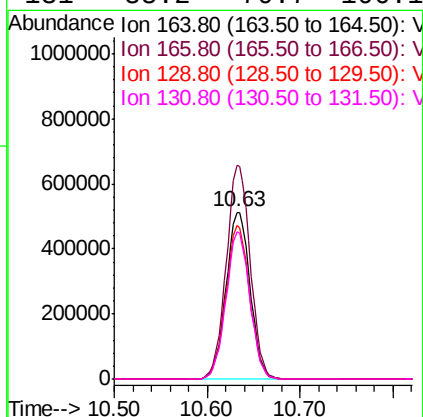
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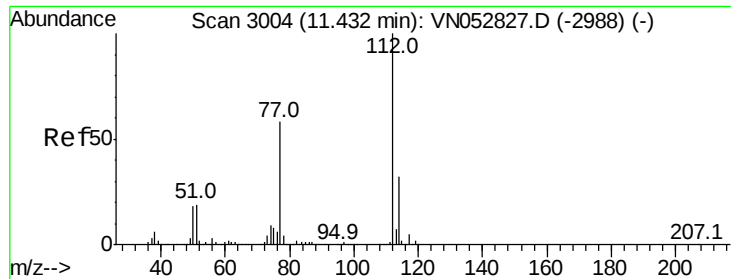
MMDadoda
12/17/2018 3:06:05 PM



#64
Tetrachloroethene
Concen: 65.930 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. 0.00 min
Lab File: VN052913.D
Acq: 15 Dec 2018 2:13

Tgt Ion:164 Resp: 921218
Ion Ratio Lower Upper
164 100
166 127.9 102.9 154.3
129 91.8 73.7 110.5
131 88.2 70.7 106.1





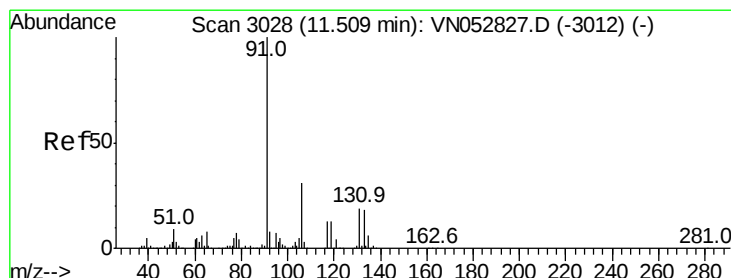
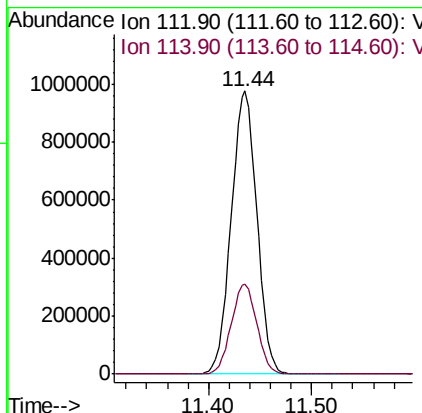
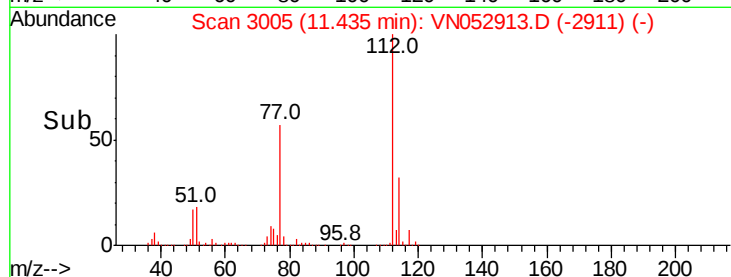
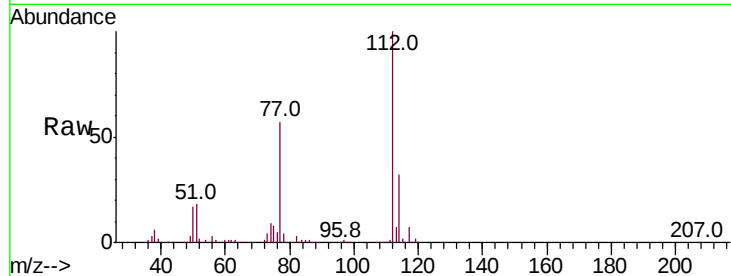
#65
Chlorobenzene
Concen: 50.168 ug/l
RT: 11.44 min Scan# 3005
Delta R.T. 0.00 min
Lab File: VN052913.D
Acq: 15 Dec 2018 2:13

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion:112 Resp: 1692069
Ion Ratio Lower Upper
112 100
114 31.9 25.5 38.3

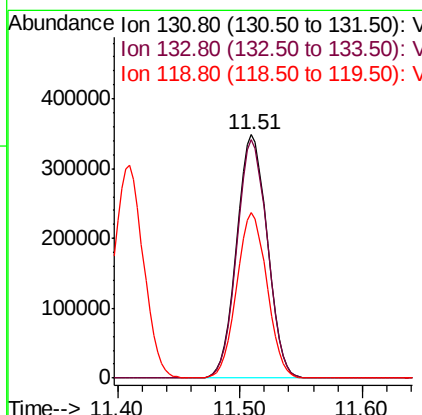
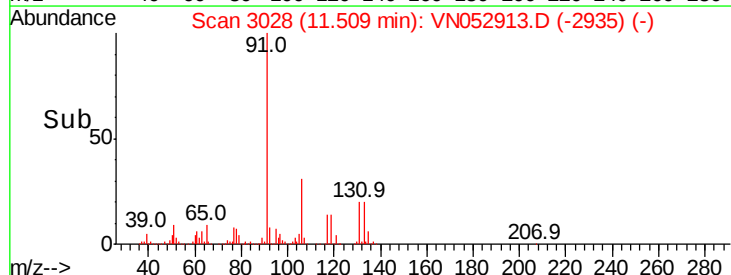
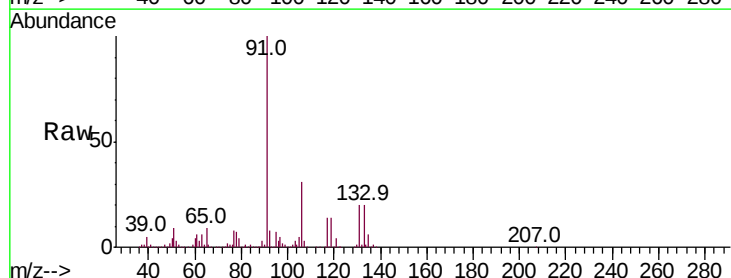
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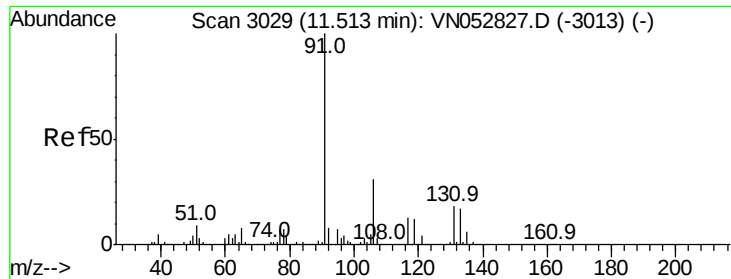
MMDadoda
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#66
1,1,1,2-Tetrachloroethane
Concen: 51.556 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. 0.00 min
Lab File: VN052913.D
Acq: 15 Dec 2018 2:13

Tgt Ion:131 Resp: 604761
Ion Ratio Lower Upper
131 100
133 97.4 47.6 142.9
119 67.2 33.3 99.8





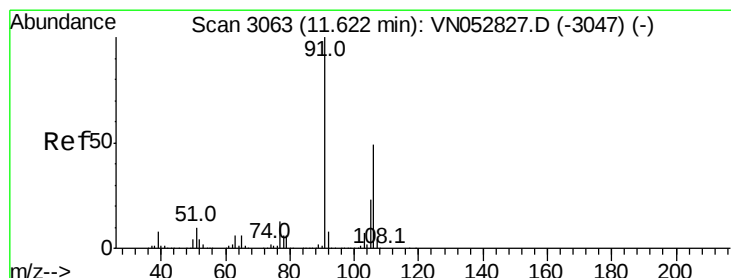
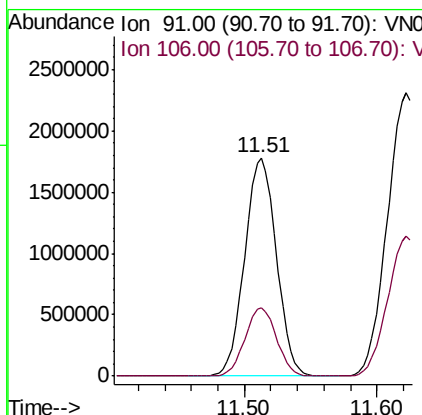
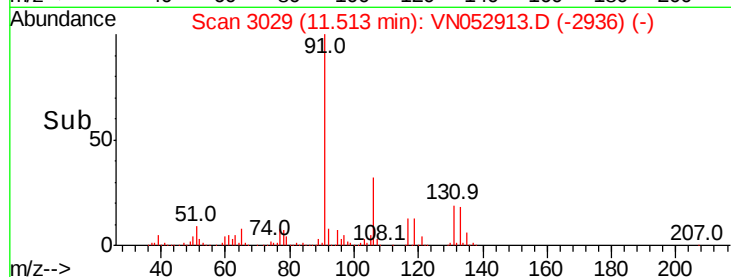
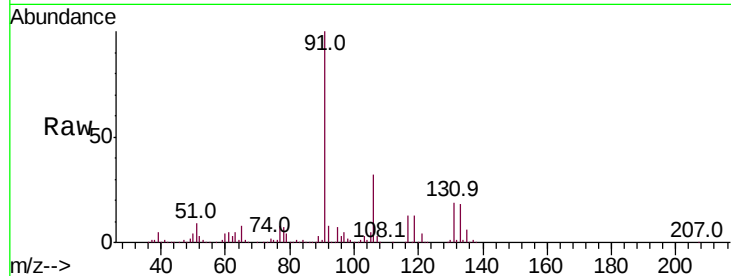
#67
Ethyl Benzene
Concen: 50.992 ug/l
RT: 11.51 min Scan# 3029
Delta R.T. 0.00 min
Lab File: VN052913.D
Acq: 15 Dec 2018 2:13

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion: 91 Resp: 2953534
Ion Ratio Lower Upper
91 100
106 31.5 24.9 37.3

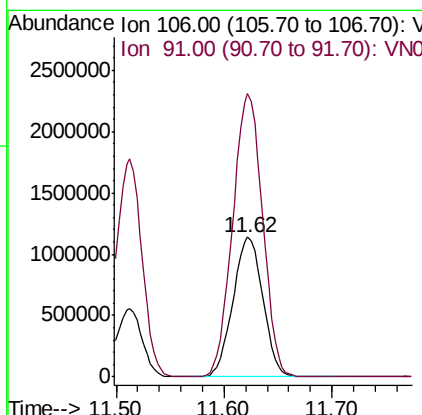
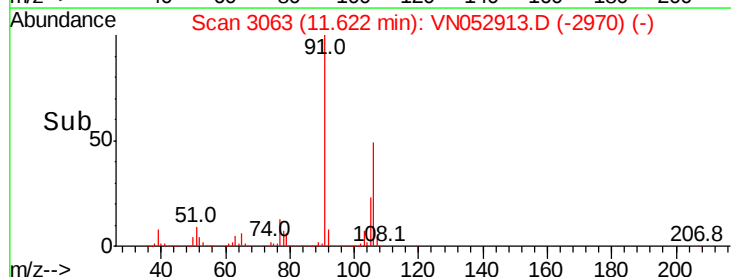
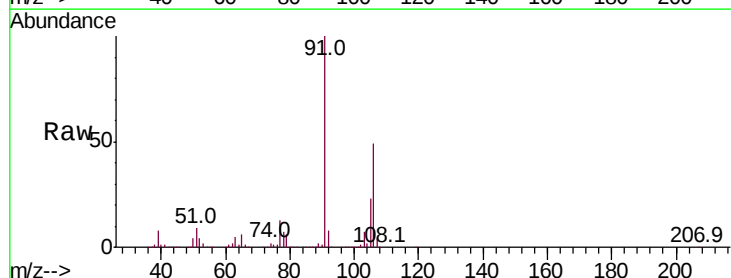
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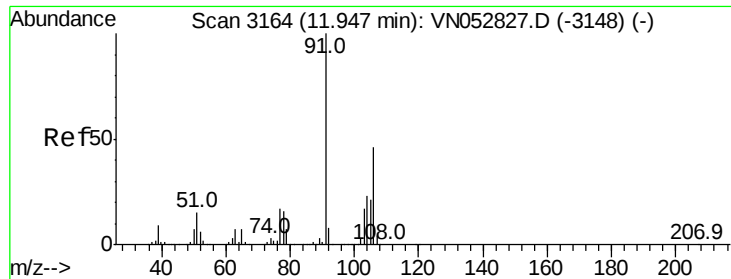
MMDadoda
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#68
m/p-Xylenes
Concen: 101.231 ug/l
RT: 11.62 min Scan# 3063
Delta R.T. 0.00 min
Lab File: VN052913.D
Acq: 15 Dec 2018 2:13

Tgt Ion: 106 Resp: 2201670
Ion Ratio Lower Upper
106 100
91 202.7 162.2 243.4





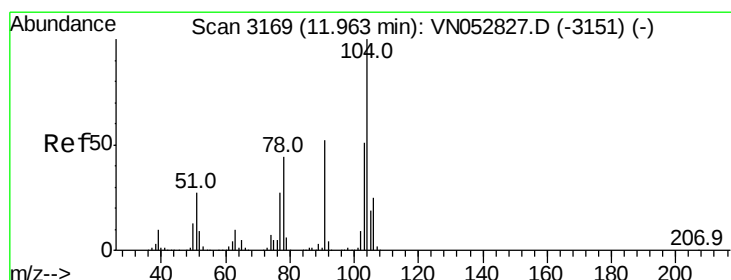
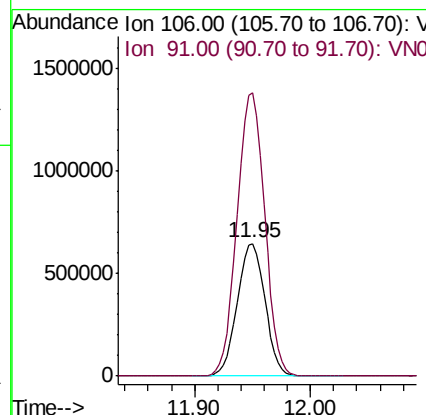
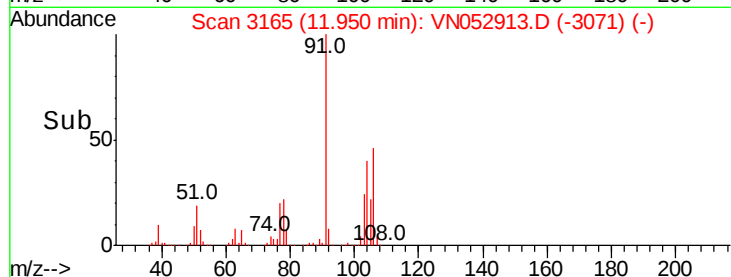
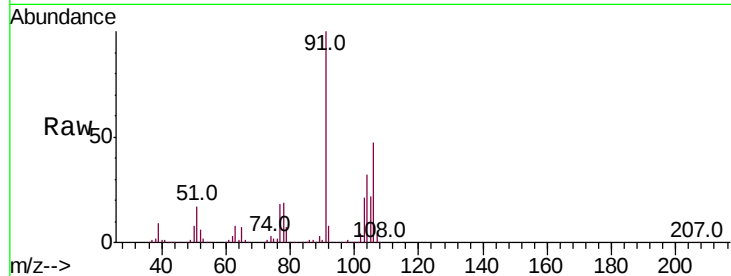
#69
o-Xylene
Concen: 50.271 ug/l
RT: 11.95 min Scan# 3165
Delta R.T. 0.00 min
Lab File: VN052913.D
Acq: 15 Dec 2018 2:13

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion:106 Resp: 1067632
Ion Ratio Lower Upper
106 100
91 213.9 106.6 319.8

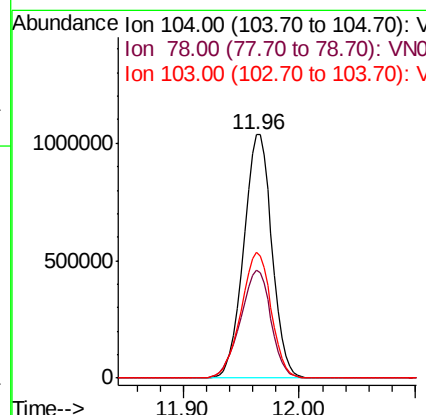
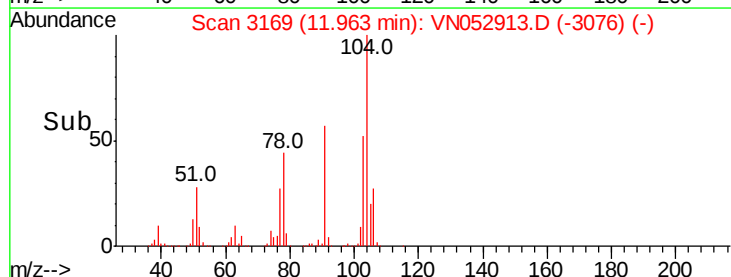
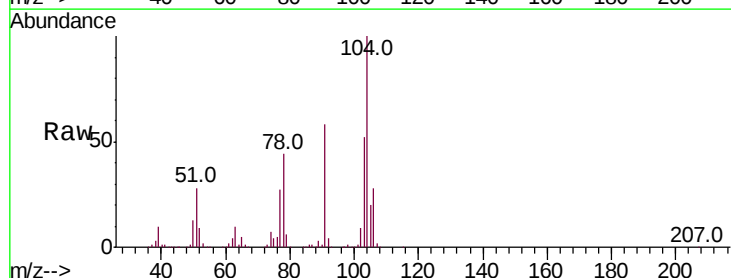
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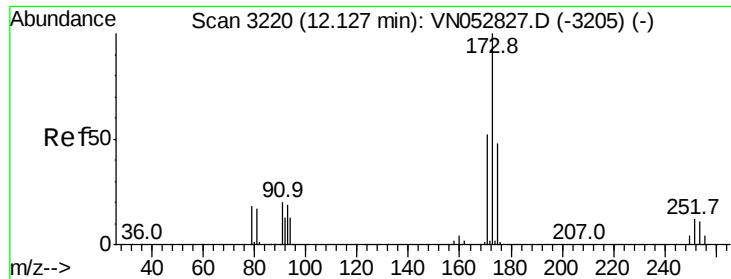
MMDadoda
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#70
Styrene
Concen: 51.196 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. 0.00 min
Lab File: VN052913.D
Acq: 15 Dec 2018 2:13

Tgt Ion:104 Resp: 1747819
Ion Ratio Lower Upper
104 100
78 48.0 38.9 58.3
103 55.2 44.3 66.5





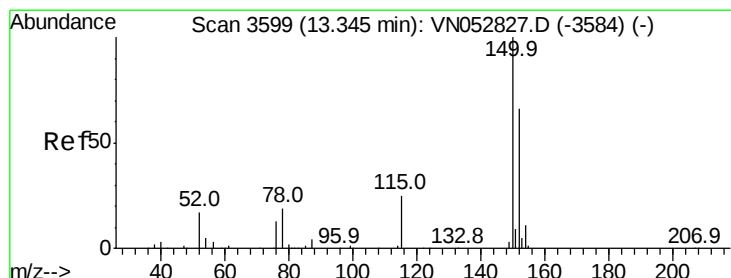
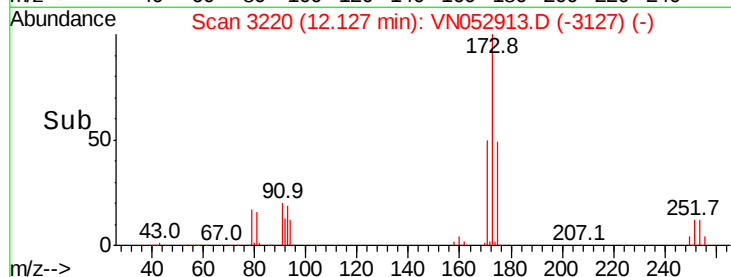
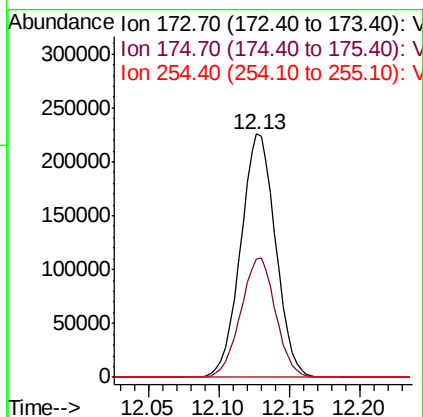
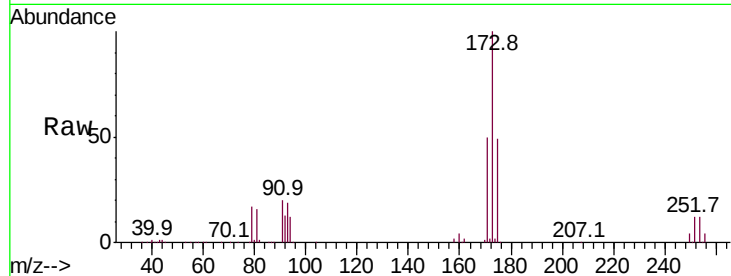
#71
Bromoform
Concen: 49.037 ug/l
RT: 12.13 min Scan# 3220
Delta R.T. 0.00 min
Lab File: VN052913.D
Acq: 15 Dec 2018 2:13

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
173	100		
175	49.1	24.3	72.9
254	0.0	0.1	0.1#

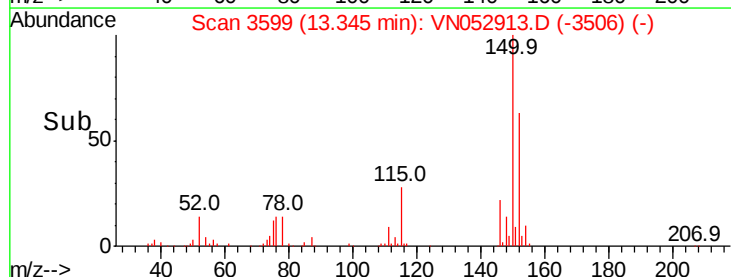
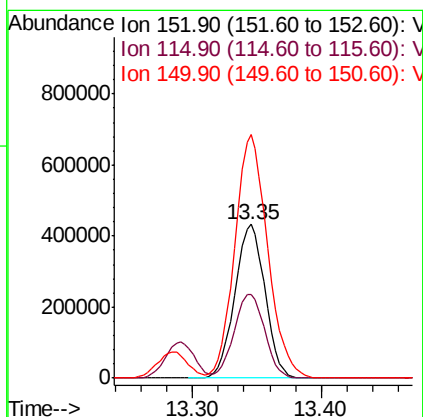
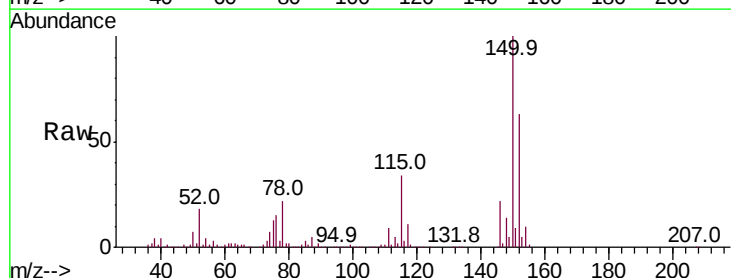
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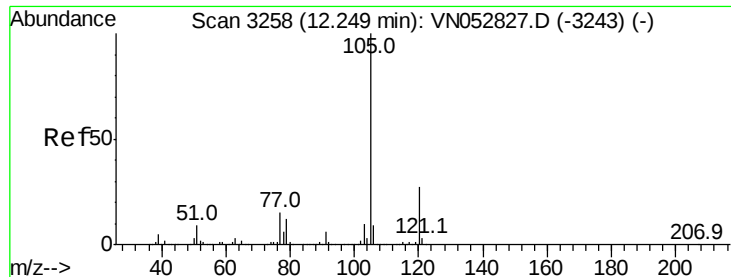
MMDadoda
12/17/2018 3:06:05 PM



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3599
Delta R.T. 0.00 min
Lab File: VN052913.D
Acq: 15 Dec 2018 2:13

Tgt Ion	Ratio	Lower	Upper
152	100		
115	55.6	28.3	85.0
150	172.5	0.0	347.8





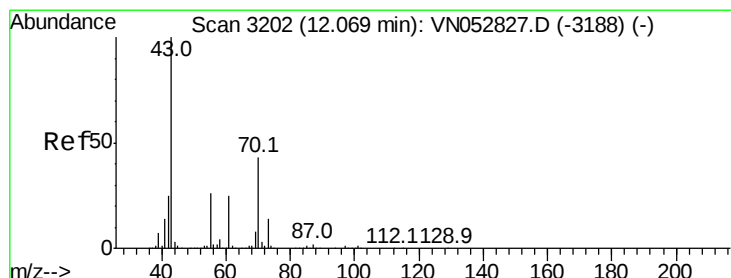
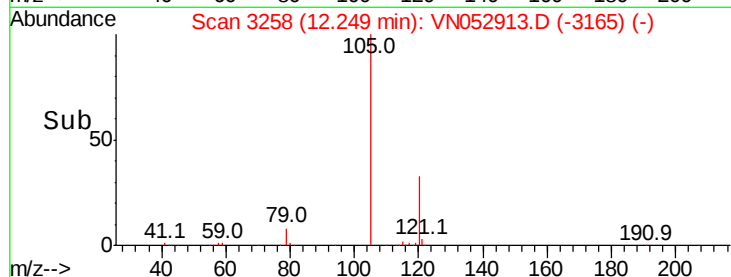
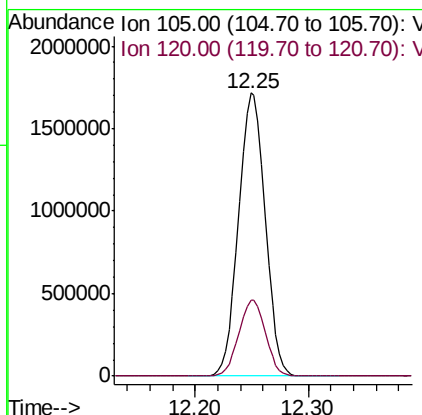
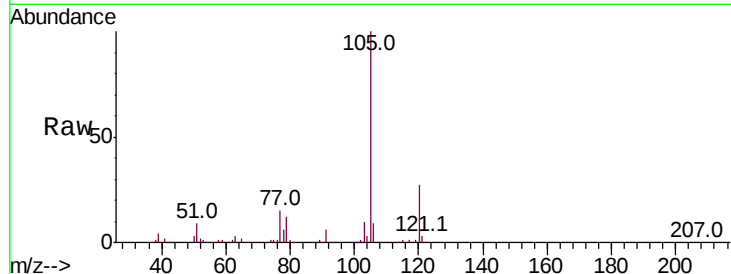
#73
Isopropylbenzene
Concen: 53.784 ug/l
RT: 12.25 min Scan# 3258
Delta R.T. 0.00 min
Lab File: VN052913.D
Acq: 15 Dec 2018 2:13

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion:105 Resp: 2821972
Ion Ratio Lower Upper
105 100
120 26.9 13.3 39.9

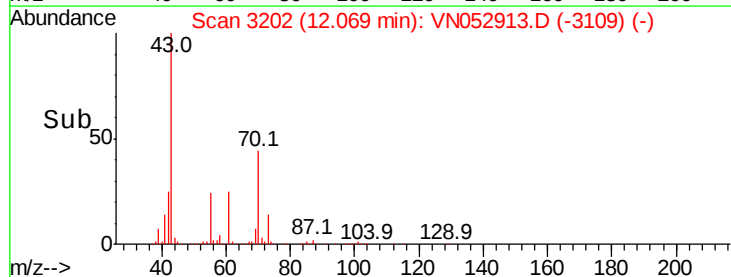
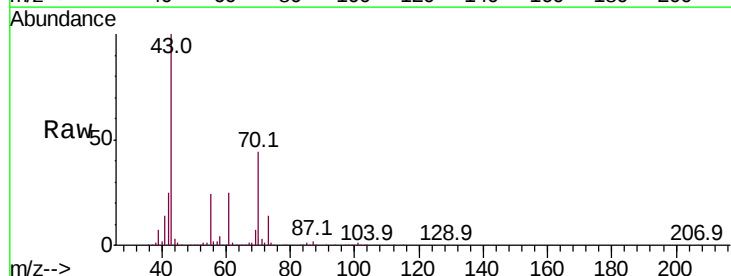
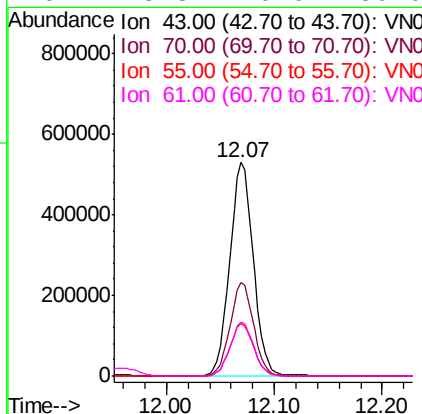
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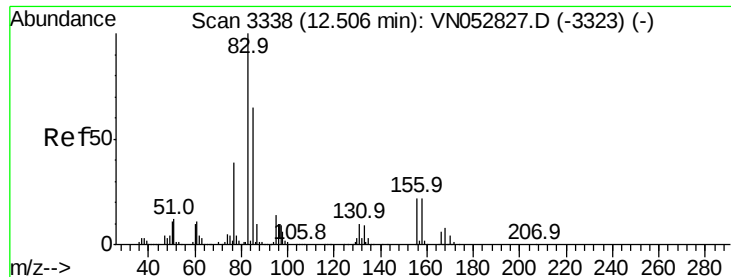
MMDadoda
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#74
N-ethyl acetate
Concen: 55.966 ug/l
RT: 12.07 min Scan# 3202
Delta R.T. 0.00 min
Lab File: VN052913.D
Acq: 15 Dec 2018 2:13

Tgt Ion: 43 Resp: 806175
Ion Ratio Lower Upper
43 100
70 44.0 34.2 51.4
55 24.9 20.3 30.5
61 25.3 20.0 30.0





#75

1,1,2,2-Tetrachloroethane

Concen: 40.828 ug/l

RT: 12.51 min Scan# 3338

Delta R.T. 0.00 min

Lab File: VN052913.D

Acq: 15 Dec 2018 2:13

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 83 Resp: 480093
Ion Ratio Lower Upper

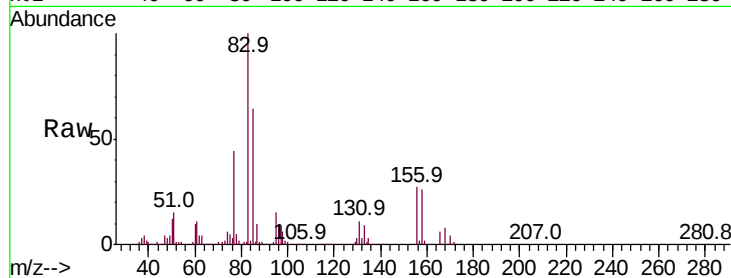
83 100

131 10.8 5.2 15.6

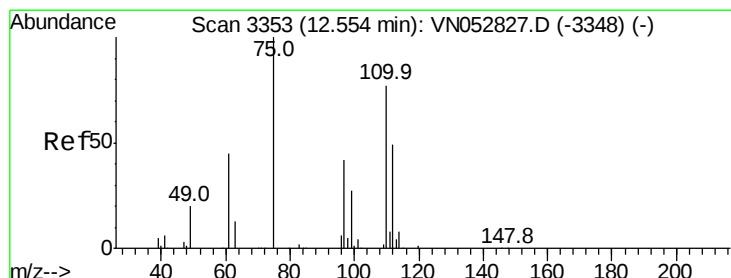
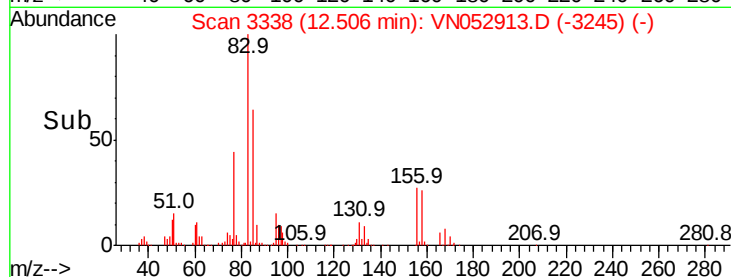
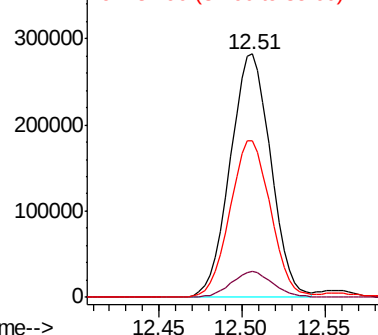
85 64.3 32.4 97.0

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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: 50.190 ug/l m

RT: 12.55 min Scan# 3353

Delta R.T. 0.00 min

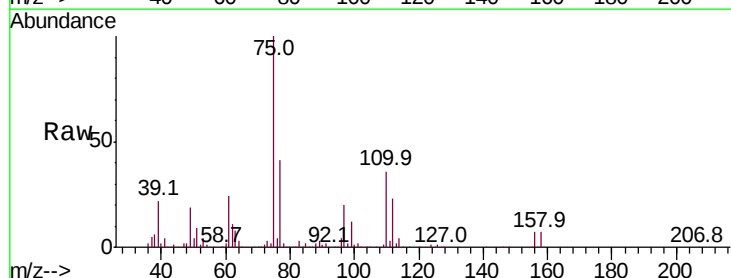
Lab File: VN052913.D

Acq: 15 Dec 2018 2:13

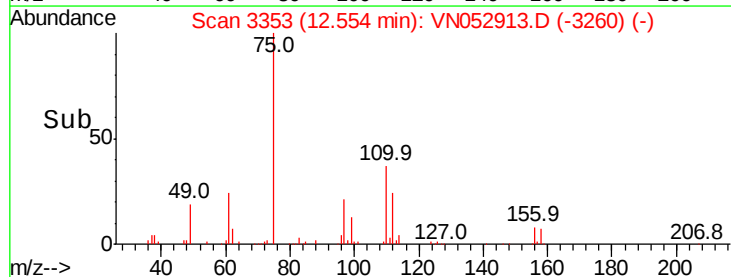
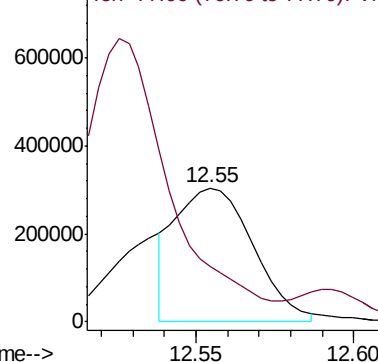
Tgt Ion: 75 Resp: 520371
Ion Ratio Lower Upper

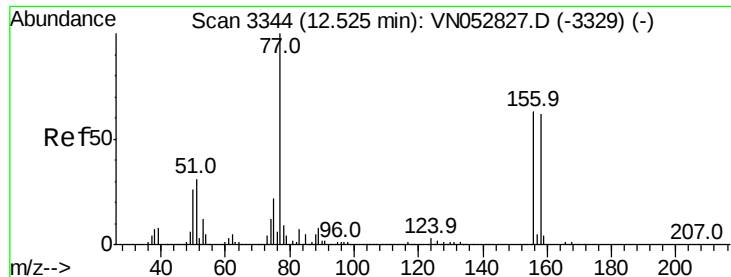
75 100

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: 53.413 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. 0.00 min

Lab File: VN052913.D

Acq: 15 Dec 2018 2:13

Instrument :

MSVOA_N

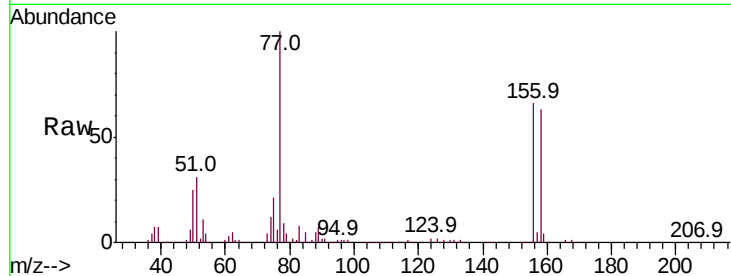
ClientSampleId :

VSTDCCC050EC

Tot Ion:	156	Resp:	712801
Ion Ratio	Lower	Upper	
156	100		
77	177.4	91.3	273.8
158	96.4	49.0	147.2

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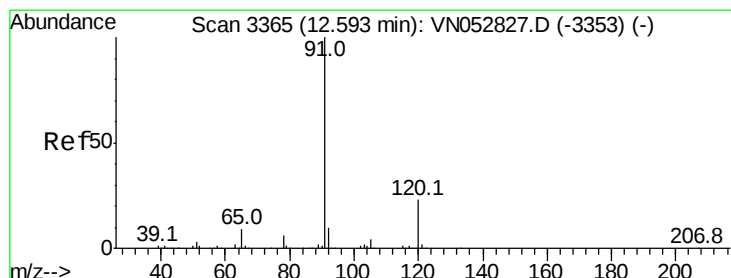
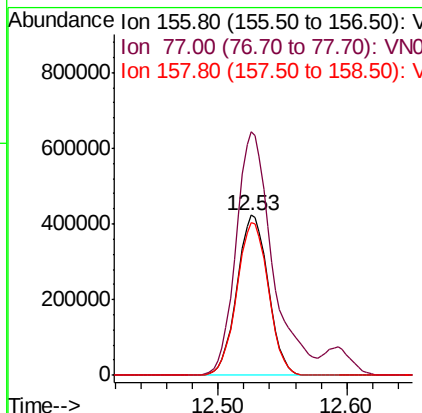
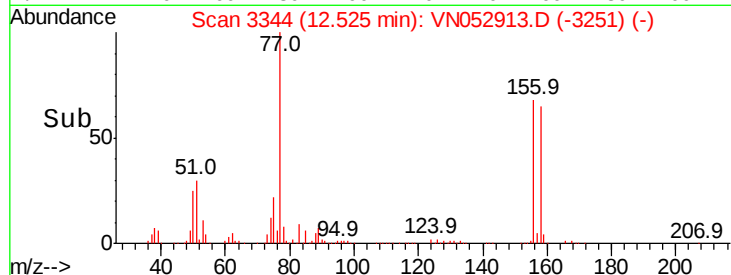
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Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VN0

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 52.966 ug/l

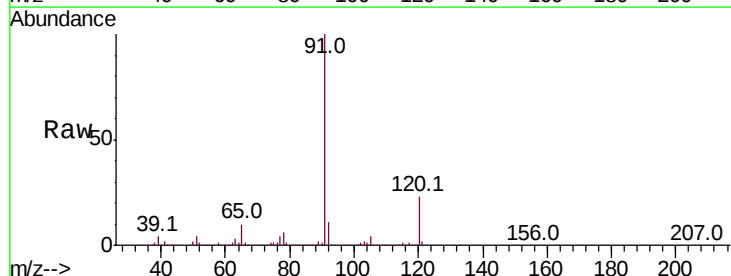
RT: 12.59 min Scan# 3365

Delta R.T. 0.00 min

Lab File: VN052913.D

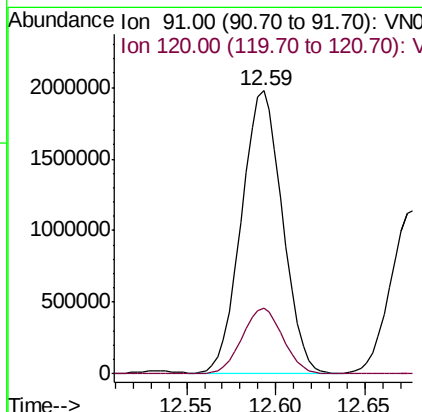
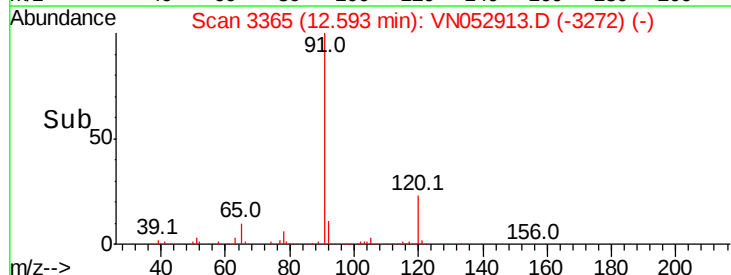
Acq: 15 Dec 2018 2:13

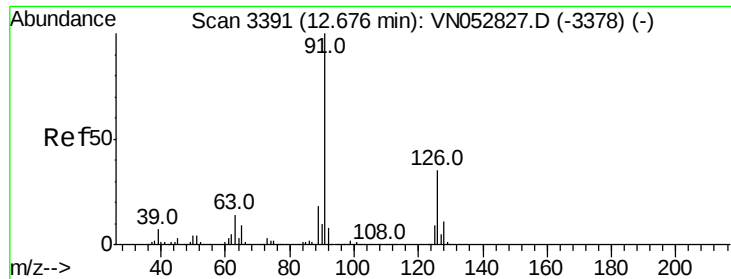
Tgt Ion:	91	Resp:	3169452
Ion Ratio	Lower	Upper	
91	100		
120	23.2	11.5	34.5



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V





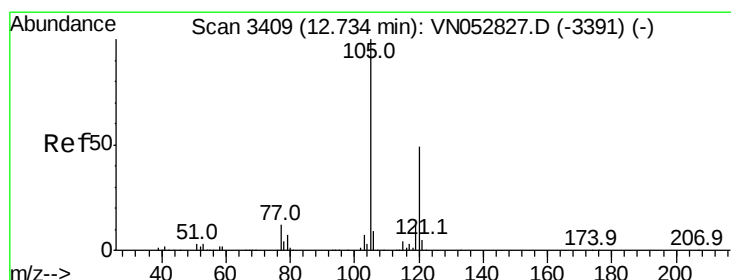
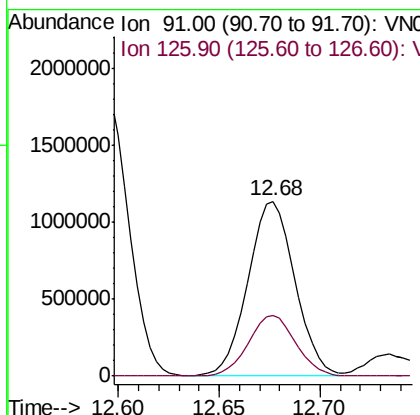
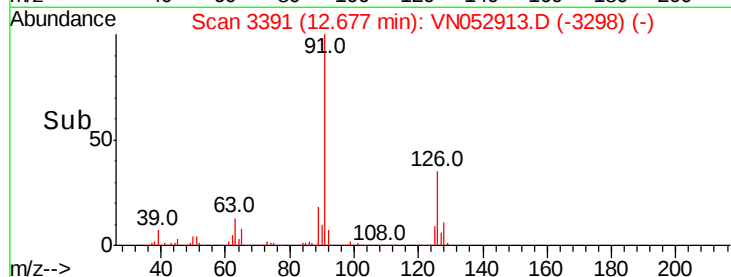
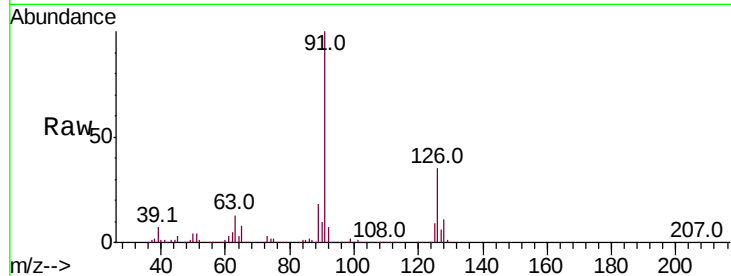
#79
2-Chlorotoluene
Concen: 52.256 ug/l
RT: 12.68 min Scan# 3391
Delta R.T. 0.00 min
Lab File: VN052913.D
Acq: 15 Dec 2018 2:13

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion: 91 Resp: 1848620
Ion Ratio Lower Upper
91 100
126 35.2 17.4 52.3

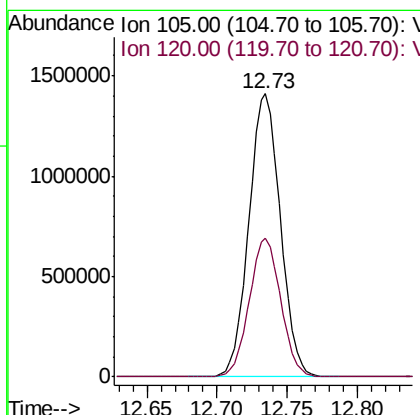
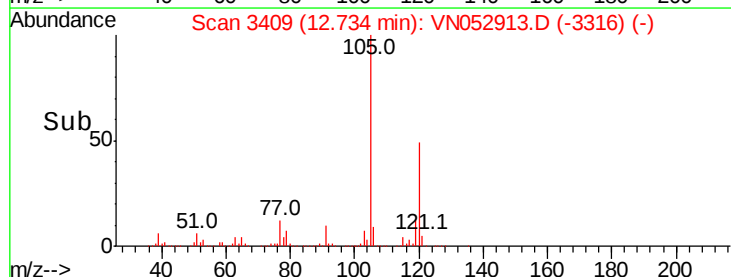
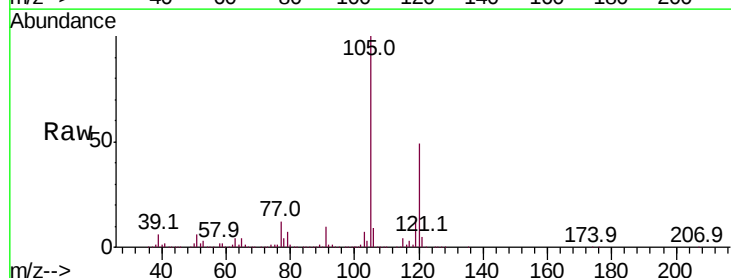
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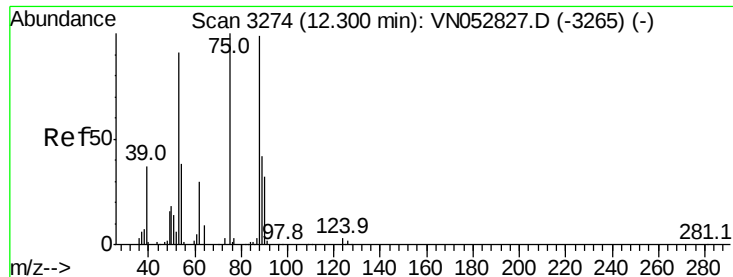
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#80
1,3,5-Trimethylbenzene
Concen: 52.012 ug/l
RT: 12.73 min Scan# 3409
Delta R.T. 0.00 min
Lab File: VN052913.D
Acq: 15 Dec 2018 2:13

Tgt Ion:105 Resp: 2202965
Ion Ratio Lower Upper
105 100
120 49.1 24.4 73.2





#81

trans-1,4-Dichloro-2-butene

Concen: 50.530 ug/l

RT: 12.30 min Scan# 3274

Delta R.T. 0.00 min

Lab File: VN052913.D

Acq: 15 Dec 2018 2:13

Instrument :

MSVOA_N

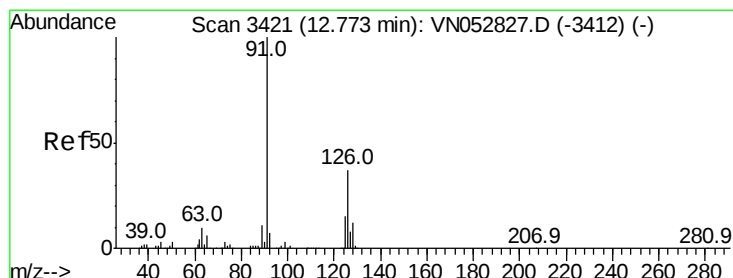
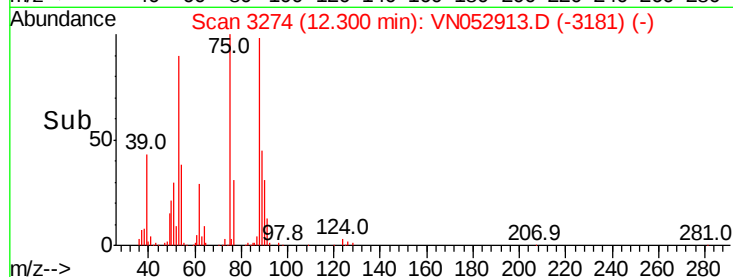
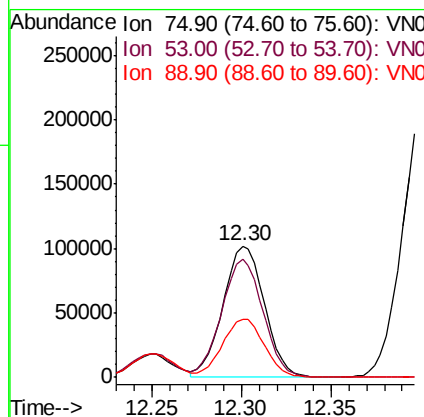
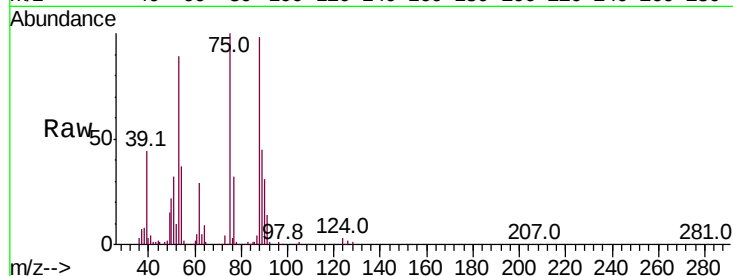
ClientSampleId :

VSTDCCC050EC

Tot Ion:	75	Resp:	163079
Ion Ratio	Lower	Upper	
75	100		
53	91.2	74.7	112.1
89	44.9	36.1	54.1

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#82

4-Chlorotoluene

Concen: 51.697 ug/l

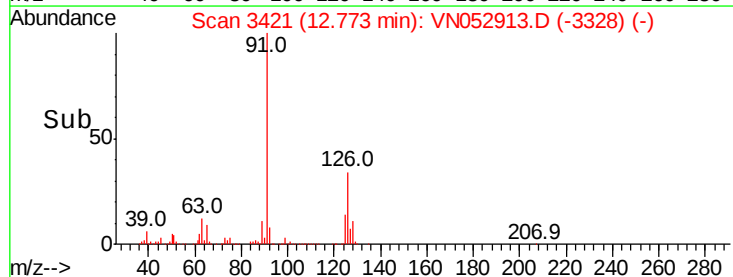
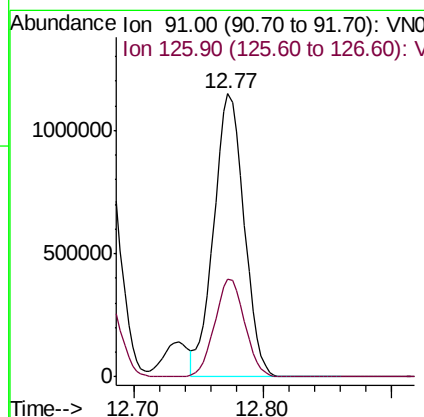
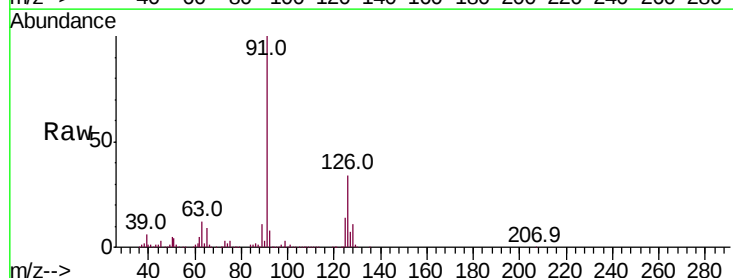
RT: 12.77 min Scan# 3421

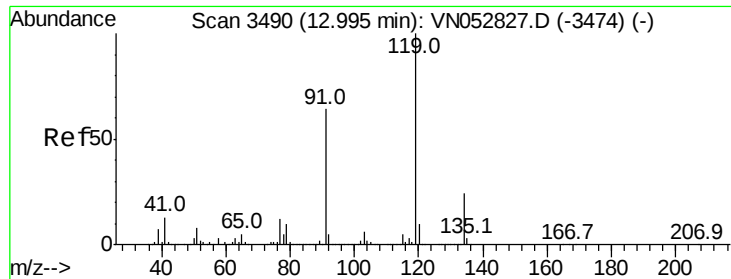
Delta R.T. 0.00 min

Lab File: VN052913.D

Acq: 15 Dec 2018 2:13

Tgt Ion:	91	Resp:	1869871
Ion Ratio	Lower	Upper	
91	100		
126	34.2	17.3	51.7





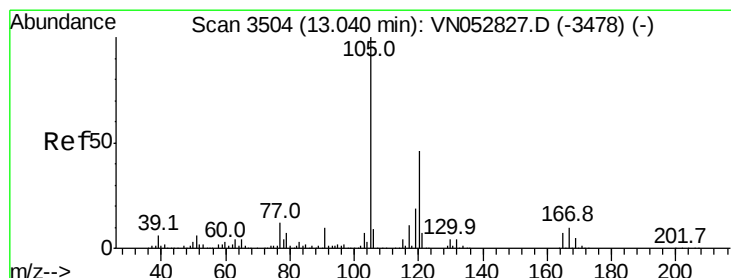
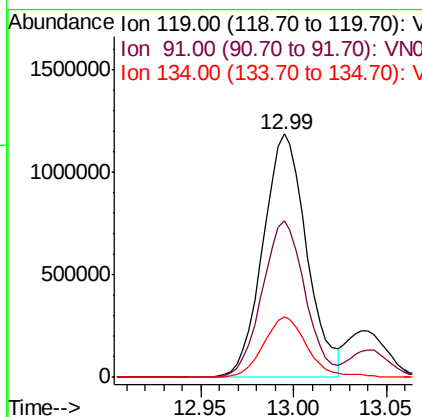
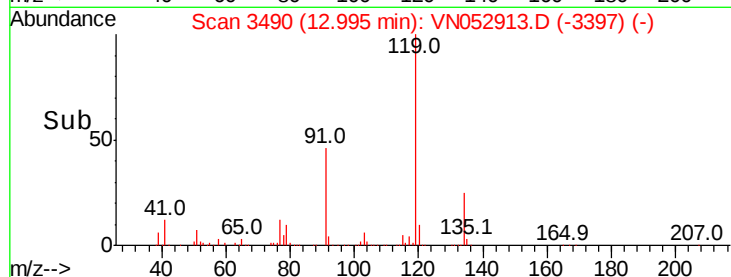
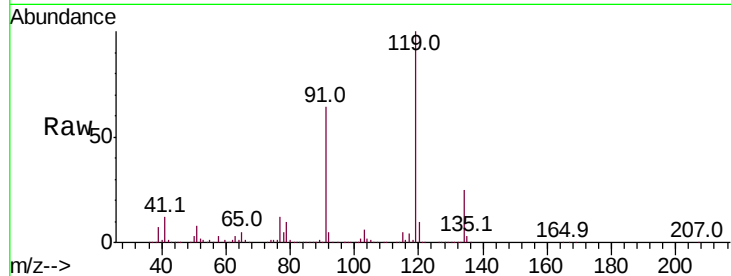
#83
tert-Butylbenzene
Concen: 52.159 ug/l
RT: 12.99 min Scan# 3490
Delta R.T. 0.00 min
Lab File: VN052913.D
Acq: 15 Dec 2018 2:13

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
119	100		
91	63.2	31.9	95.5
134	25.1	12.8	38.4

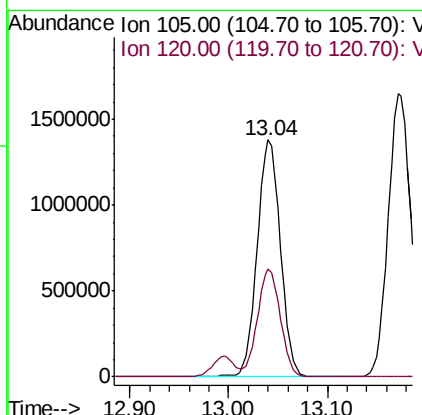
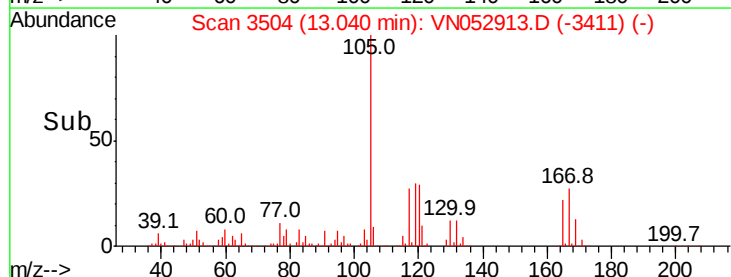
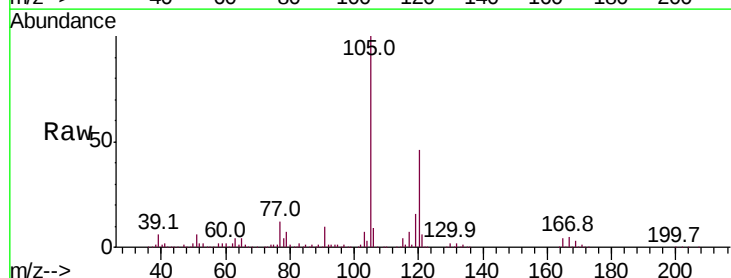
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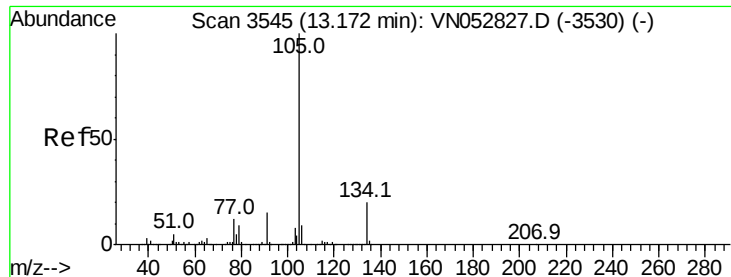
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#84
1,2,4-Trimethylbenzene
Concen: 51.945 ug/l
RT: 13.04 min Scan# 3504
Delta R.T. 0.00 min
Lab File: VN052913.D
Acq: 15 Dec 2018 2:13

Tgt Ion	Ratio	Lower	Upper
105	100		
120	45.2	22.9	68.8





#85

sec-Butylbenzene

Concen: 51.643 ug/l

RT: 13.17 min Scan# 3545

Delta R.T. 0.00 min

Lab File: VN052913.D

Acq: 15 Dec 2018 2:13

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion:105 Resp: 2613122

Ion Ratio Lower Upper

105 100

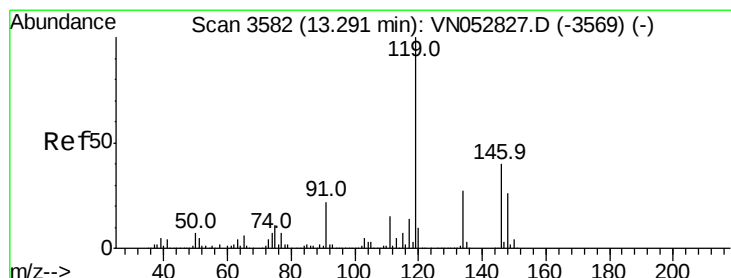
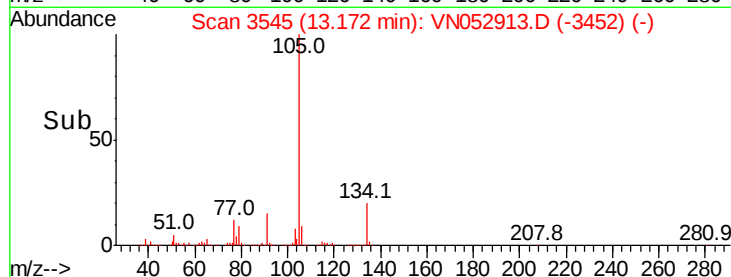
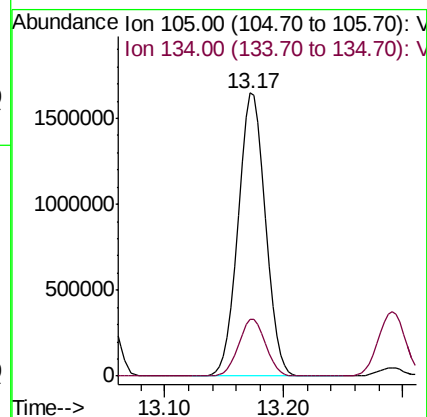
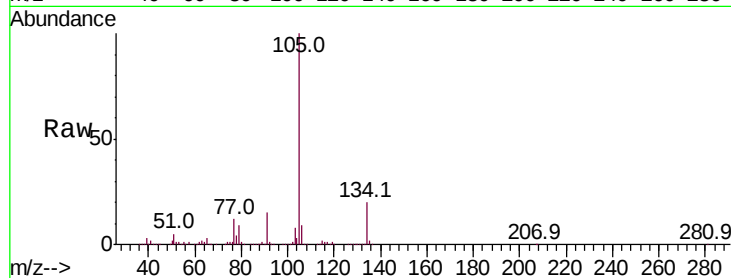
134 20.1 10.1 30.3

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#86

p-Isopropyltoluene

Concen: 51.165 ug/l

RT: 13.29 min Scan# 3582

Delta R.T. 0.00 min

Lab File: VN052913.D

Acq: 15 Dec 2018 2:13

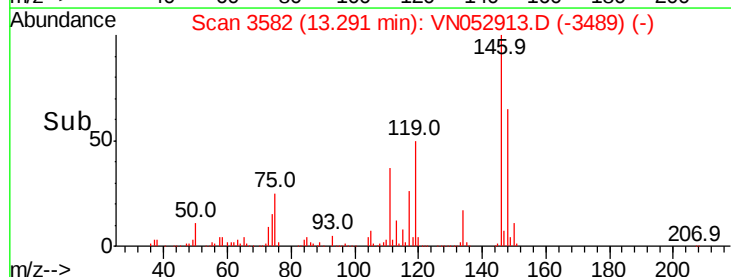
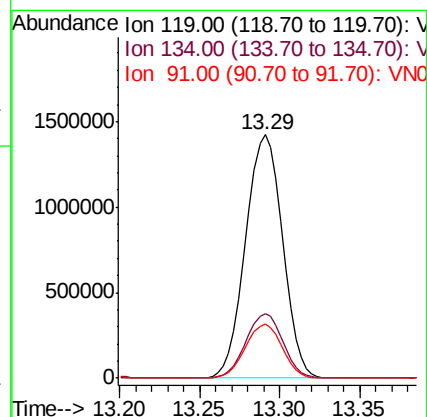
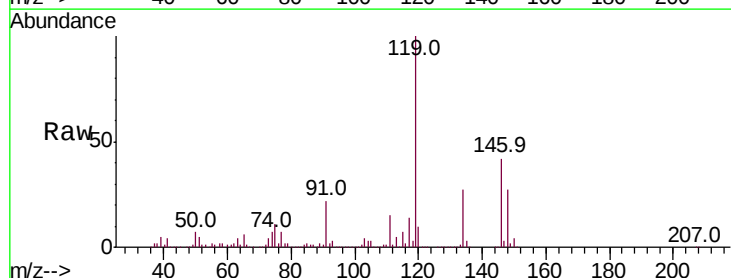
Tgt Ion:119 Resp: 2242992

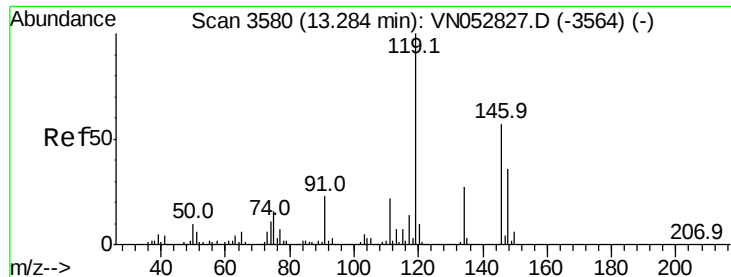
Ion Ratio Lower Upper

119 100

134 26.5 13.4 40.2

91 22.0 11.1 33.3





#87

1,3-Dichlorobenzene

Concen: 50.051 ug/l

RT: 13.28 min Scan# 3580

Delta R.T. 0.00 min

Lab File: VN052913.D

Acq: 15 Dec 2018 2:13

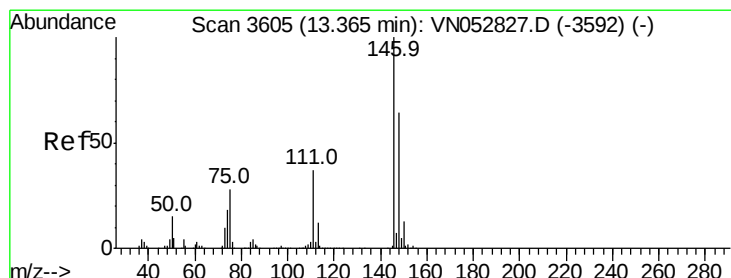
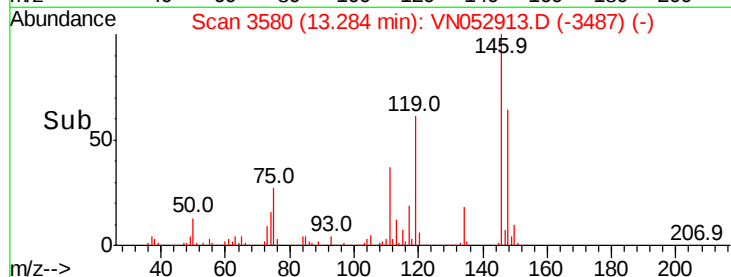
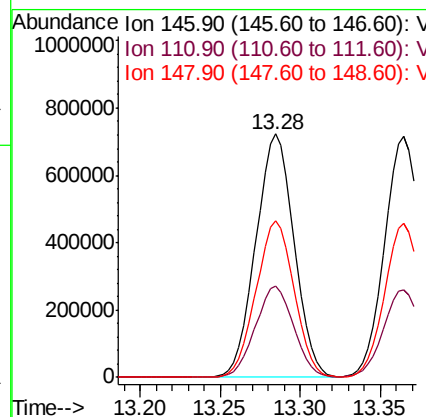
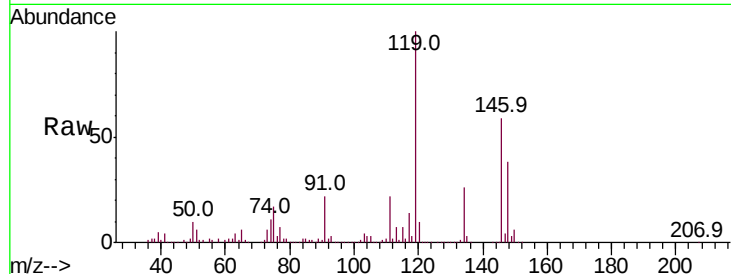
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion:146 Resp: 1186964

Ion	Ratio	Lower	Upper
146	100		
111	37.4	19.1	57.1
148	64.0	32.0	96.0

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#88

1,4-Dichlorobenzene

Concen: 49.647 ug/l

RT: 13.36 min Scan# 3605

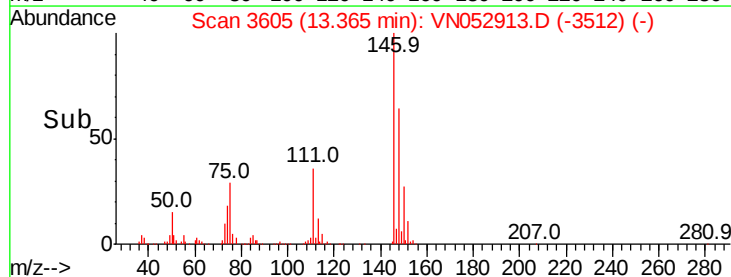
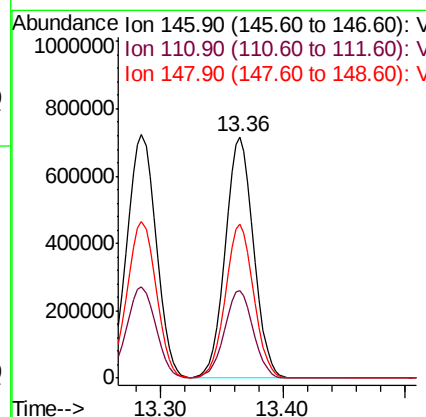
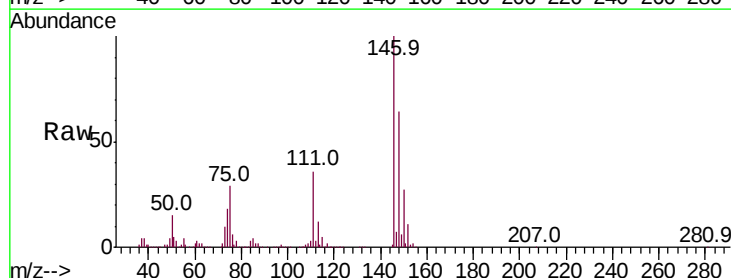
Delta R.T. 0.00 min

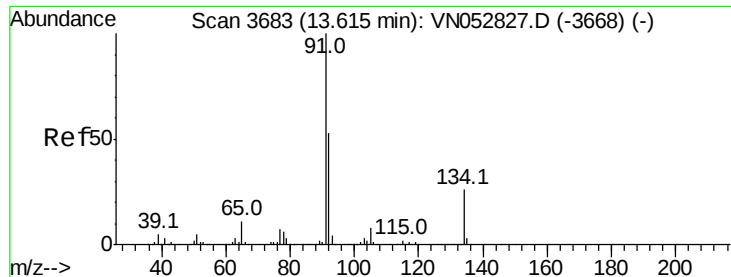
Lab File: VN052913.D

Acq: 15 Dec 2018 2:13

Tgt Ion:146 Resp: 1165974

Ion	Ratio	Lower	Upper
146	100		
111	36.9	18.6	55.8
148	63.7	32.1	96.5





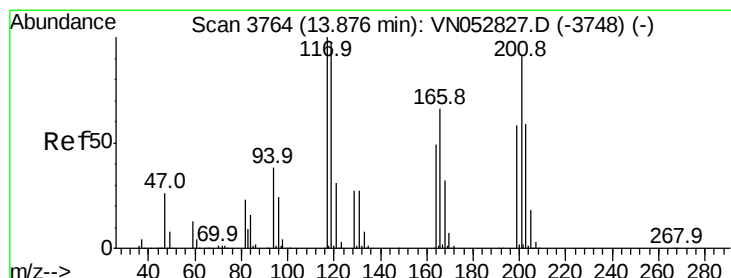
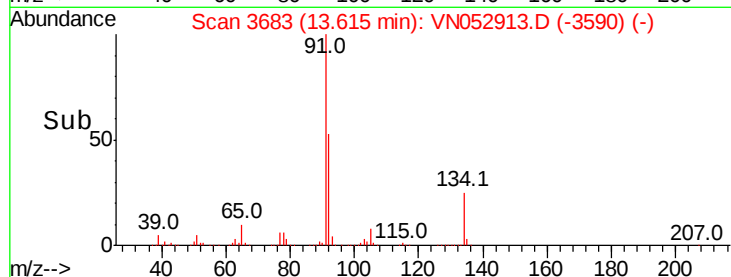
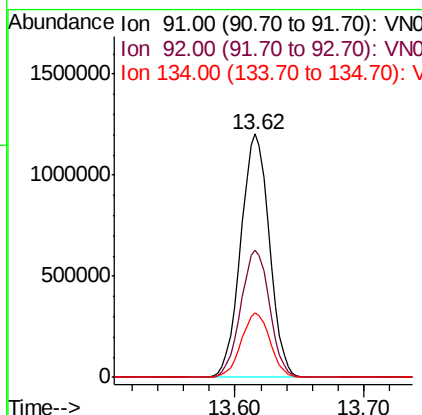
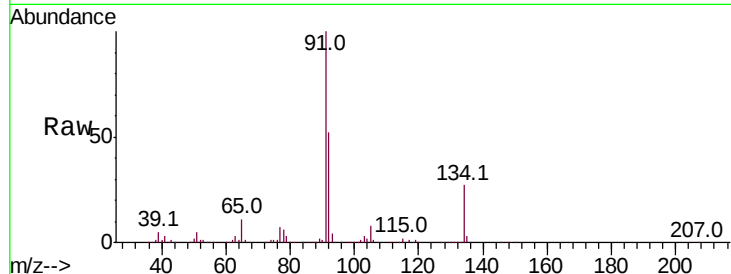
#89
n-Butylbenzene
Concen: 50.276 ug/l
RT: 13.62 min Scan# 3683
Delta R.T. 0.00 min
Lab File: VN052913.D
Acq: 15 Dec 2018 2:13

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion: 91 Resp: 1855408
Ion Ratio Lower Upper
91 100
92 52.7 26.3 78.9
134 26.7 13.3 39.8

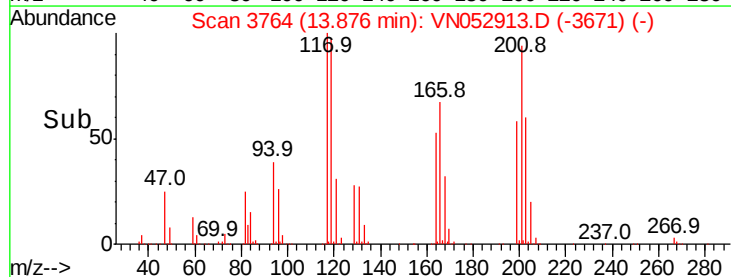
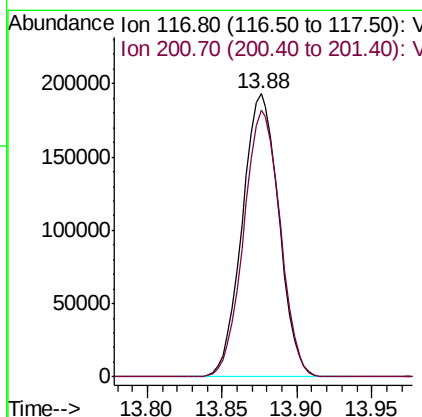
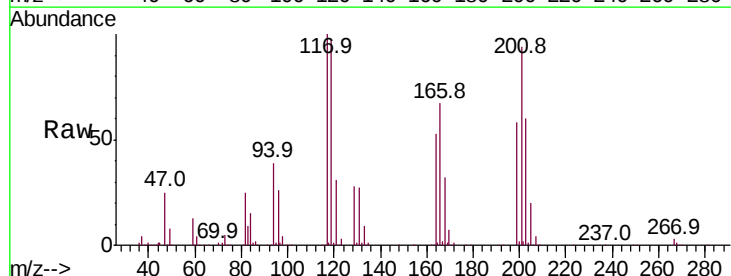
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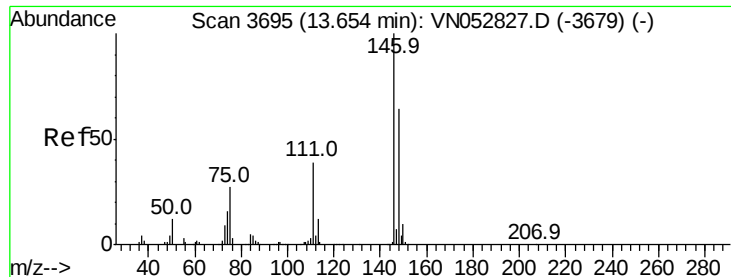
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#90
Hexachloroethane
Concen: 44.853 ug/l
RT: 13.88 min Scan# 3764
Delta R.T. 0.00 min
Lab File: VN052913.D
Acq: 15 Dec 2018 2:13

Tgt Ion: 117 Resp: 329250
Ion Ratio Lower Upper
117 100
201 93.6 45.7 137.1





#91

1,2-Dichlorobenzene

Concen: 48.646 ug/l

RT: 13.65 min Scan# 3695

Delta R.T. 0.00 min

Lab File: VN052913.D

Acq: 15 Dec 2018 2:13

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion:146 Resp: 1109747

Ion Ratio Lower Upper

146 100

111 39.4 19.7 59.0

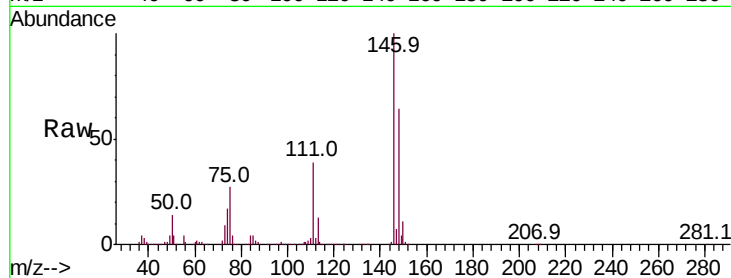
148 63.8 32.0 96.0

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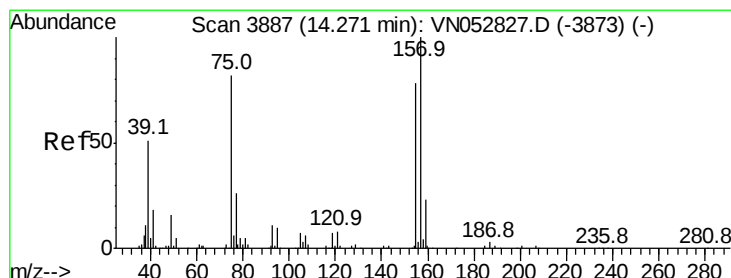
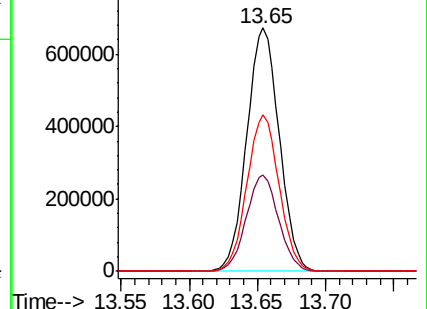
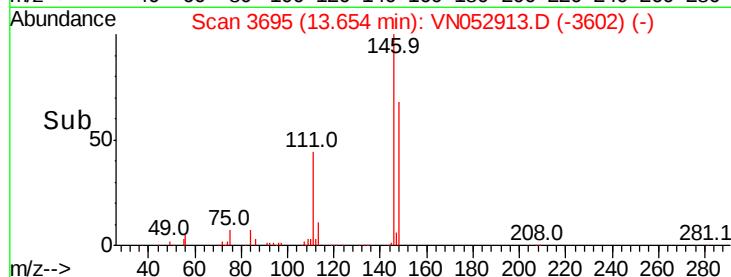
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Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 46.782 ug/l

RT: 14.27 min Scan# 3887

Delta R.T. 0.00 min

Lab File: VN052913.D

Acq: 15 Dec 2018 2:13

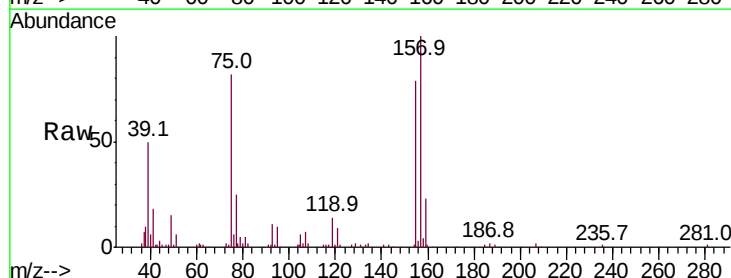
Tgt Ion: 75 Resp: 82923

Ion Ratio Lower Upper

75 100

155 96.6 48.2 144.6

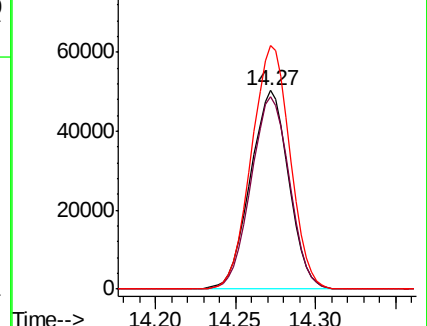
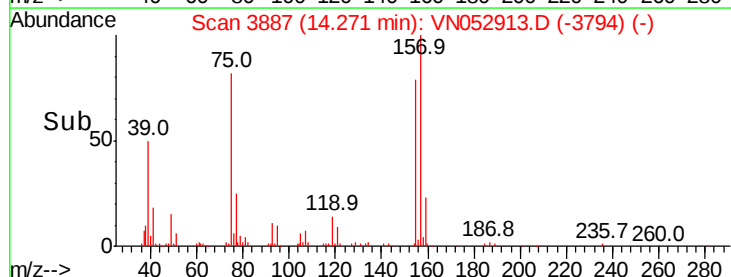
157 122.5 61.2 183.5

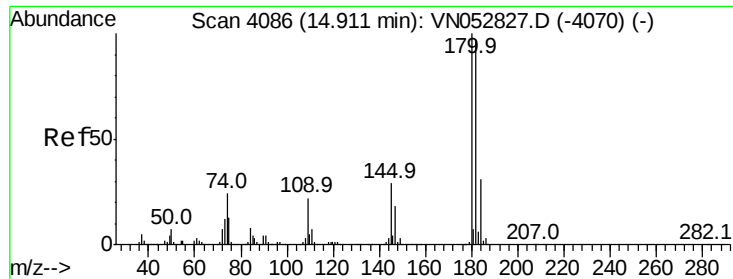


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V





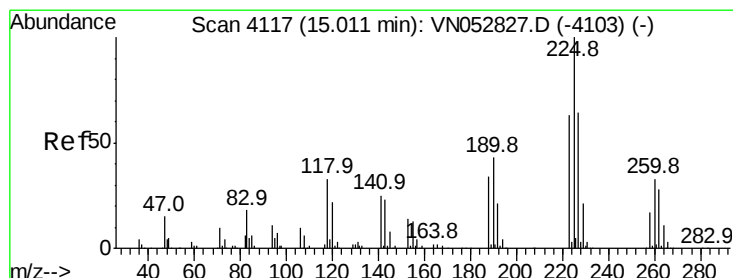
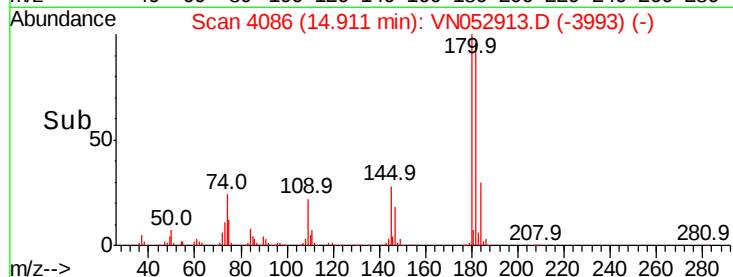
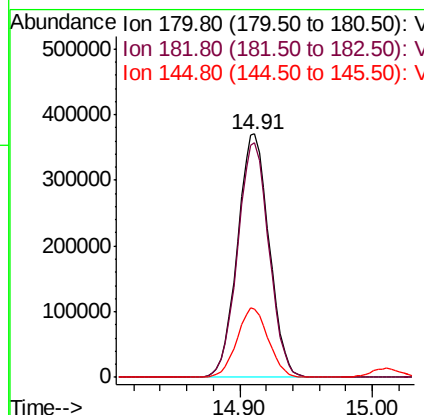
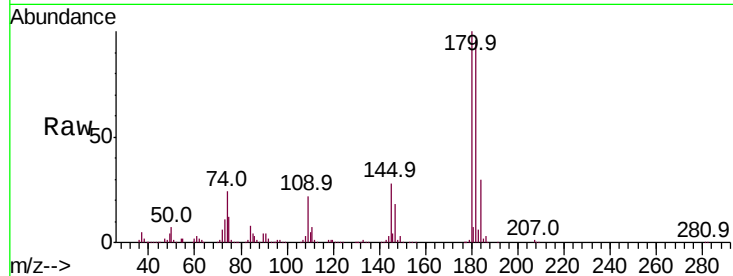
#93
 1,2,4-Trichlorobenzene
 Concen: 49.327 ug/l
 RT: 14.91 min Scan# 4086
 Delta R.T. 0.00 min
 Lab File: VN052913.D
 Acq: 15 Dec 2018 2:13

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Resp	Lower	Upper
180	100			
182	95.8	47.8	143.3	
145	28.4	14.2	42.6	

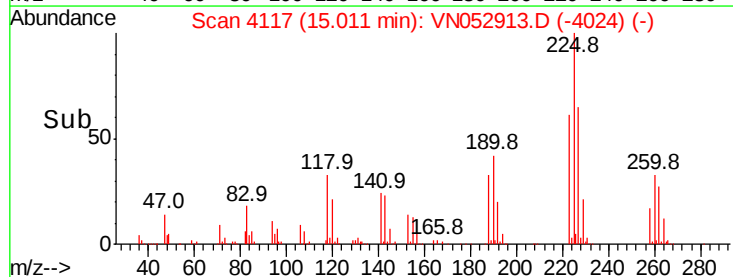
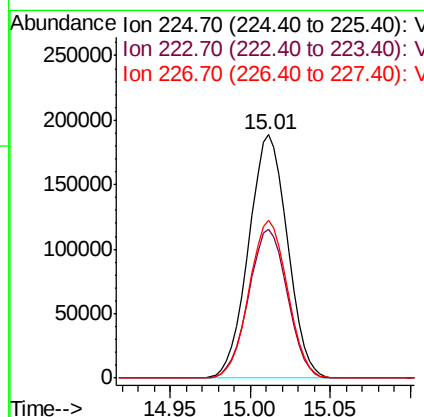
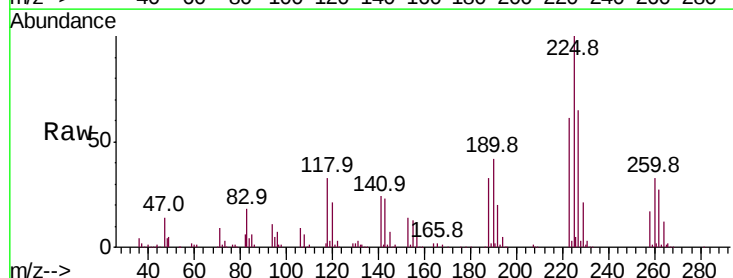
Manual Integrations
 APPROVED

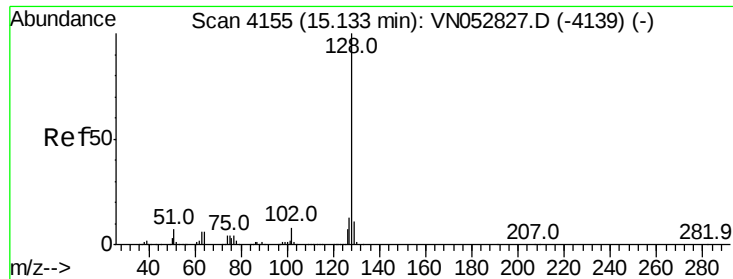
MMDadoda
 12/17/2018 3:06:05 PM



#94
 Hexachlorobutadiene
 Concen: 43.579 ug/l
 RT: 15.01 min Scan# 4117
 Delta R.T. 0.00 min
 Lab File: VN052913.D
 Acq: 15 Dec 2018 2:13

Tgt Ion	Ratio	Resp	Lower	Upper
225	100			
223	61.2	31.5	94.5	
227	64.1	31.9	95.7	





#95

Naphthalene

Concen: 51.852 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN052913.D

Acq: 15 Dec 2018 2:13

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion:128 Resp: 1331724

Ion Ratio Lower Upper

128 100

127 12.8 10.2 15.4

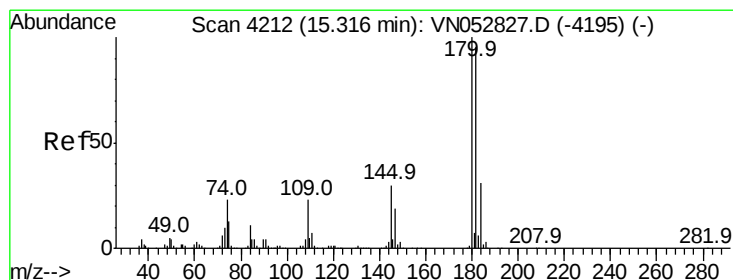
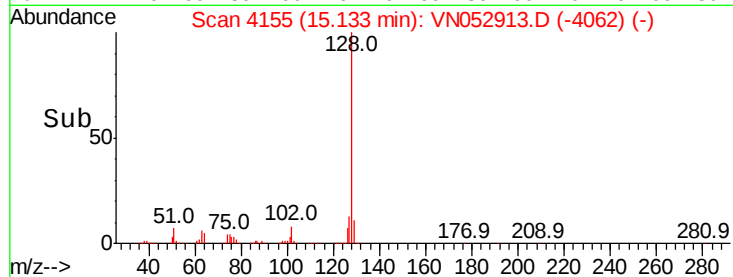
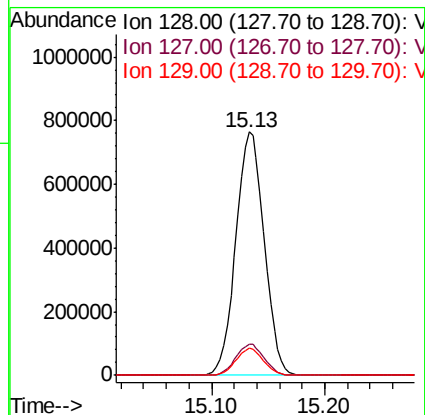
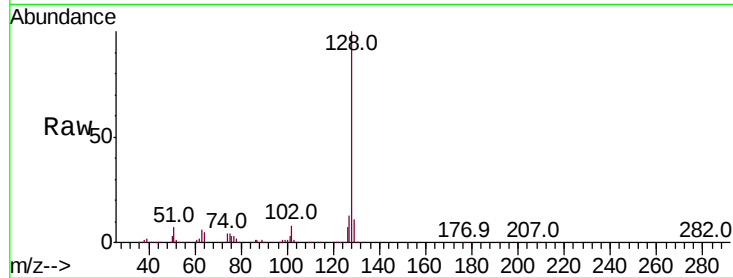
129 10.8 8.6 13.0

Manual Integrations

APPROVED

MMDadoda

12/17/2018 3:06:05 PM



#96

1,2,3-Trichlorobenzene

Concen: 48.739 ug/l

RT: 15.32 min Scan# 4212

Delta R.T. 0.00 min

Lab File: VN052913.D

Acq: 15 Dec 2018 2:13

Tgt Ion:180 Resp: 554570

Ion Ratio Lower Upper

180 100

182 95.4 47.9 143.7

145 29.7 15.0 45.0

