

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN072718\
 Data File : VN050157.D
 Acq On : 28 Jul 2018 3:00
 Operator : MD\SY
 Sample : VSTDCCC050
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 36 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

MMDadoda
 7/30/2018 1:37:19 PM

Quant Time: Jul 30 02:04:30 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N072418W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jul 26 18:10:10 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	617678	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	930910	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	851182	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	443535	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	430605	49.97	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.94%	
35) Dibromofluoromethane	7.59	113	386247	50.82	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.64%	
50) Toluene-d8	10.09	98	1428750	51.13	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.26%	
62) 4-Bromofluorobenzene	12.40	95	484198	52.62	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.24%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	435673	49.090	ug/l	100
3) Chloromethane	2.06	50	418250	43.354	ug/l	99
4) Vinyl Chloride	2.18	62	454152	44.703	ug/l	98
5) Bromomethane	2.56	94	146520	25.480	ug/l	100
6) Chloroethane	2.70	64	270117	44.272	ug/l	99
7) Trichlorofluoromethane	3.01	101	602680	45.793	ug/l	99
8) Diethyl Ether	3.41	74	209455	47.739	ug/l	99
9) 1,1,2-Trichlorotrifluoroet	3.76	101	358738	45.329	ug/l	100
10) Methyl Iodide	3.95	142	262421	25.835	ug/l	99
11) Tert butyl alcohol	4.80	59	135620	213.878	ug/l	100
12) 1,1-Dichloroethene	3.73	96	327777	46.042	ug/l	93
13) Acrolein	3.61	56	56141	110.196	ug/l	97
14) Allyl chloride	4.32	41	514168	46.578	ug/l	99
15) Acrylonitrile	4.99	53	652960	236.024	ug/l	99
16) Acetone	3.82	43	468674	230.540	ug/l	100
17) Carbon Disulfide	4.05	76	944399	43.302	ug/l	100
18) Methyl Acetate	4.33	43	426145	54.106	ug/l	100
19) Methyl tert-butyl Ether	5.05	73	954181	50.295	ug/l	99
20) Methylene Chloride	4.55	84	388630	50.883	ug/l	97
21) trans-1,2-Dichloroethene	5.04	96	353981	46.925	ug/l	99
22) Diisopropyl ether	5.96	45	1154902	52.764	ug/l	98
23) Vinyl Acetate	5.90	43	3796082	245.415	ug/l	99
24) 1,1-Dichloroethane	5.85	63	686049	47.932	ug/l	99
25) 2-Butanone	6.84	43	746772	227.179	ug/l	99
26) 2,2-Dichloropropane	6.83	77	337172	30.966	ug/l	97
27) cis-1,2-Dichloroethene	6.83	96	403855	49.733	ug/l	96
28) Bromochloromethane	7.20	49	331205	50.734	ug/l	99
29) Tetrahydrofuran	7.22	42	497344	234.140	ug/l	99
30) Chloroform	7.37	83	699410	47.886	ug/l	99
31) Cyclohexane	7.66	56	569585	47.983	ug/l	100
32) 1,1,1-Trichloroethane	7.57	97	587535	47.027	ug/l	99
36) 1,1-Dichloropropene	7.80	75	510889	48.712	ug/l	99
37) Ethyl Acetate	6.94	43	331439	45.326	ug/l	99
38) Carbon Tetrachloride	7.78	117	527585	47.408	ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	524928	48.652	ug/l	99
40) Benzene	8.04	78	1556706	48.777	ug/l	100
41) Methacrylonitrile	7.17	41	134566	36.139	ug/l	91
42) 1,2-Dichloroethane	8.13	62	501575	47.109	ug/l	100
43) Isopropyl Acetate	8.17	43	684483	49.666	ug/l	97
44) Trichloroethene	8.84	130	397696	46.375	ug/l	100
45) 1,2-Dichloropropane	9.12	63	413500	48.917	ug/l	97
46) Dibromomethane	9.21	93	251006	47.821	ug/l	100
47) Bromodichloromethane	9.41	83	531919	48.016	ug/l	100
48) Methyl methacrylate	9.20	41	306990	48.747	ug/l	99
49) 1,4-Dioxane	9.20	88	79832	931.497	ug/l	99
51) 4-Methyl-2-Pentanone	9.99	43	1743294	242.517	ug/l	100
52) Toluene	10.16	92	961642	51.046	ug/l	100
53) t-1,3-Dichloropropene	10.38	75	499058	47.741	ug/l	99
54) cis-1,3-Dichloropropene	9.84	75	569468	47.666	ug/l	99
55) 1,1,2-Trichloroethane	10.56	97	358160	47.931	ug/l	98
56) Ethyl methacrylate	10.43	69	461259	45.749	ug/l	100
57) 1,3-Dichloropropane	10.71	76	605136	49.732	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.70	63	1035263	219.975	ug/l	99
59) 2-Hexanone	10.75	43	1165814	221.317	ug/l	100
60) Dibromochloromethane	10.90	129	403188	48.735	ug/l	98
61) 1,2-Dibromoethane	11.01	107	352521	47.548	ug/l	97
64) Tetrachloroethene	10.63	164	380216	46.461	ug/l	98
65) Chlorobenzene	11.44	112	1037420	48.250	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.51	131	399893	48.406	ug/l	100
67) Ethyl Benzene	11.51	91	1800402	52.128	ug/l	100
68) m/p-Xylenes	11.62	106	1376979	105.404	ug/l	100
69) o-Xylene	11.95	106	668001	53.639	ug/l	99
70) Styrene	11.97	104	1085565	49.030	ug/l	100
71) Bromoform	12.13	173	286063	47.602	ug/l #	99
73) Isopropylbenzene	12.25	105	1768810	51.421	ug/l	100
74) N-amyl acetate	12.07	43	513094	48.805	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.51	83	467446	50.911	ug/l	99
76) 1,2,3-Trichloropropane	12.56	75	396430m	48.094	ug/l	
77) Bromobenzene	12.53	156	454163	47.637	ug/l	100
78) n-propylbenzene	12.59	91	2016705	52.452	ug/l	100
79) 2-Chlorotoluene	12.68	91	1212521	50.880	ug/l	99
80) 1,3,5-Trimethylbenzene	12.73	105	1453626	53.723	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.30	75	109089	41.978	ug/l	98
82) 4-Chlorotoluene	12.78	91	1219067	51.657	ug/l	99
83) tert-Butylbenzene	12.99	119	1243880	52.679	ug/l	100
84) 1,2,4-Trimethylbenzene	13.04	105	1497693	54.916	ug/l	99
85) sec-Butylbenzene	13.17	105	1651738	52.353	ug/l	100
86) p-Isopropyltoluene	13.29	119	1443697	54.305	ug/l	100
87) 1,3-Dichlorobenzene	13.28	146	804119	49.754	ug/l	100
88) 1,4-Dichlorobenzene	13.36	146	772276	49.025	ug/l	99
89) n-Butylbenzene	13.62	91	1153535	52.767	ug/l	100
90) Hexachloroethane	13.88	117	275901	46.739	ug/l	98
91) 1,2-Dichlorobenzene	13.65	146	791718	49.004	ug/l	100
92) 1,2-Dibromo-3-Chloropropan	14.27	75	72578	47.310	ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	381856	44.902	ug/l	97
94) Hexachlorobutadiene	15.01	225	228000	46.099	ug/l	99
95) Naphthalene	15.14	128	854616	42.881	ug/l	100
96) 1,2,3-Trichlorobenzene	15.32	180	380045	45.737	ug/l	100

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

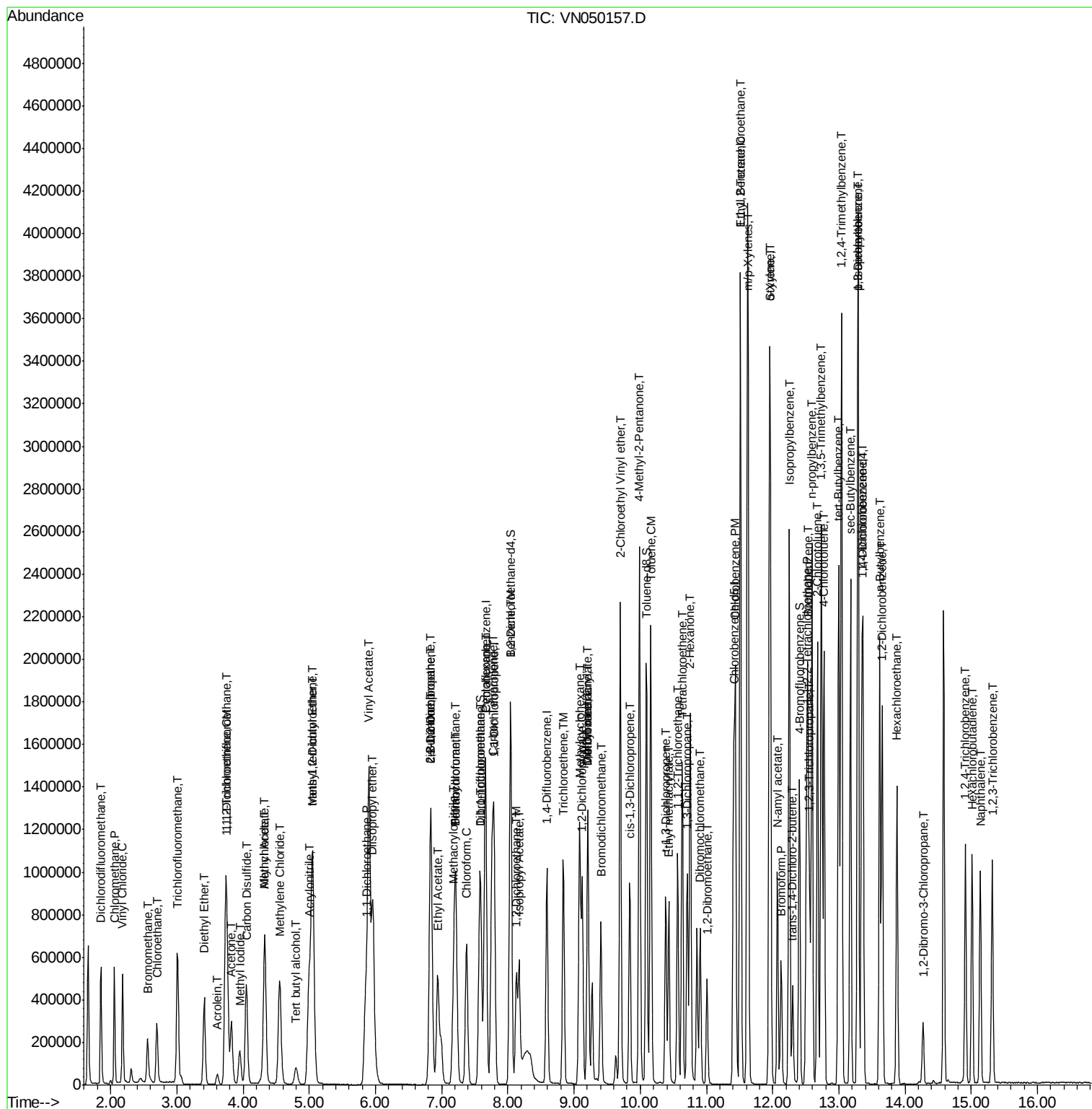
Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN072718\
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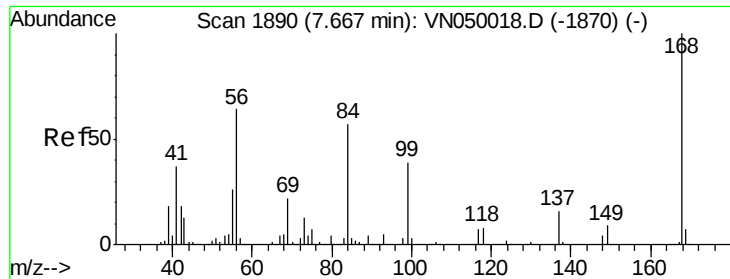
Instrument :
MSVOA_N
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1891

Delta R.T. 0.00 min

Lab File: VN050157.D

Acq: 28 Jul 2018 3:00

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion:168 Resp: 617678

Ion Ratio Lower Upper

168 100

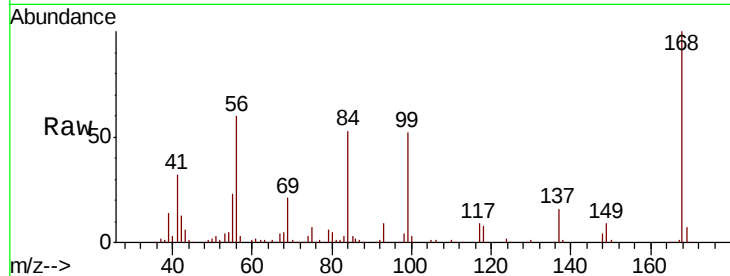
99 51.8 40.0 60.0

Manual Integrations

APPROVED

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7/30/2018 1:37:19 PM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.67

250000

200000

150000

100000

50000

0

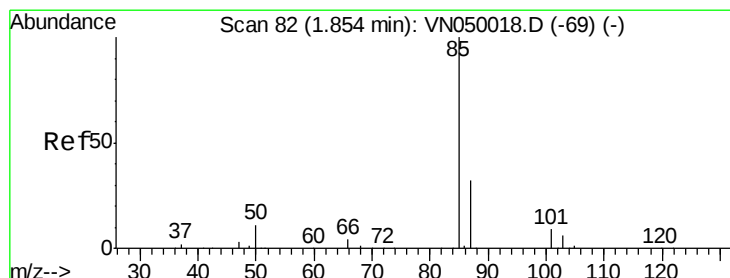
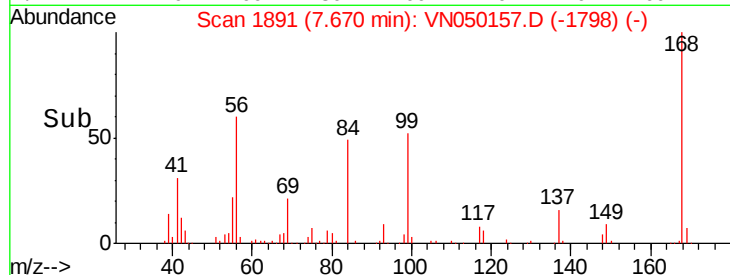
7.50

7.60

7.70

7.80

Time-->



#2

Dichlorodifluoromethane

Concen: 49.090 ug/l

RT: 1.85 min Scan# 82

Delta R.T. 0.00 min

Lab File: VN050157.D

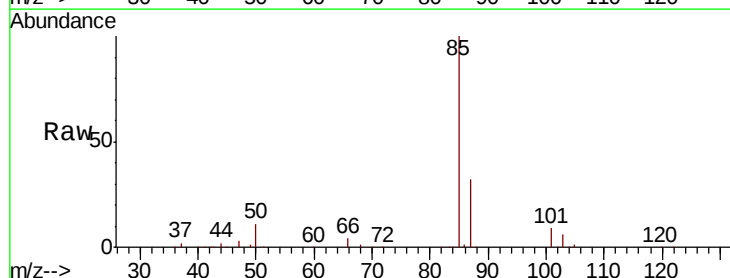
Acq: 28 Jul 2018 3:00

Tgt Ion: 85 Resp: 435673

Ion Ratio Lower Upper

85 100

87 32.3 16.1 48.3



Abundance Ion 84.90 (84.60 to 85.60): VN

Ion 86.90 (86.60 to 87.60): VN

1.85

300000

200000

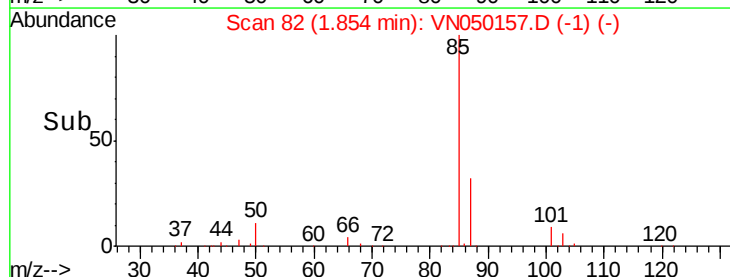
100000

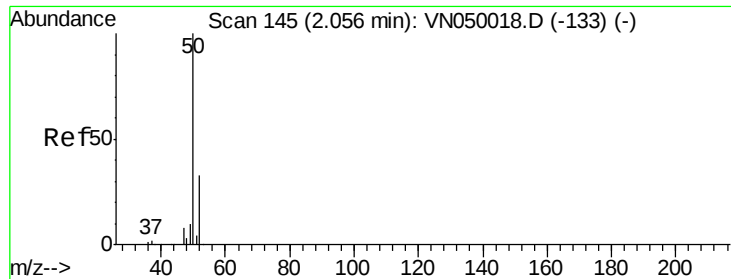
0

1.80

1.90

Time-->





#3

Chloromethane

Concen: 43.354 ug/l

RT: 2.06 min Scan# 145

Delta R.T. 0.00 min

Lab File: VN050157.D

Acq: 28 Jul 2018 3:00

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 50 Resp: 418250

Ion Ratio Lower Upper

50 100

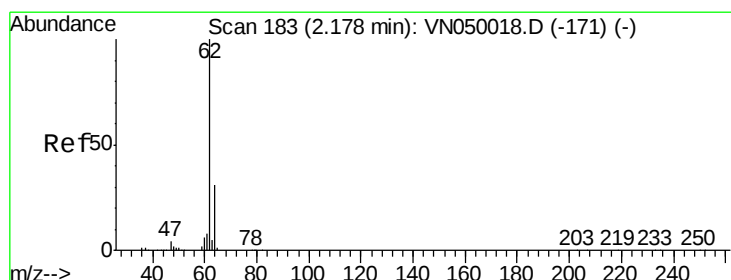
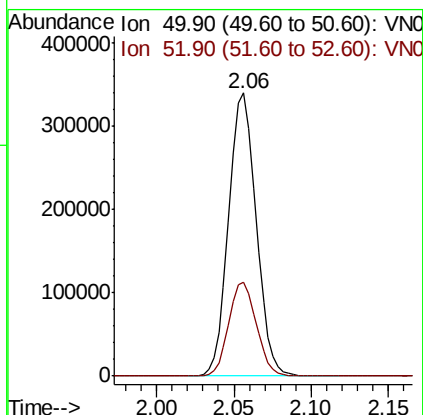
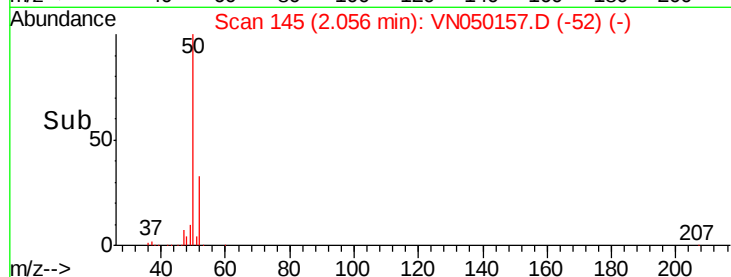
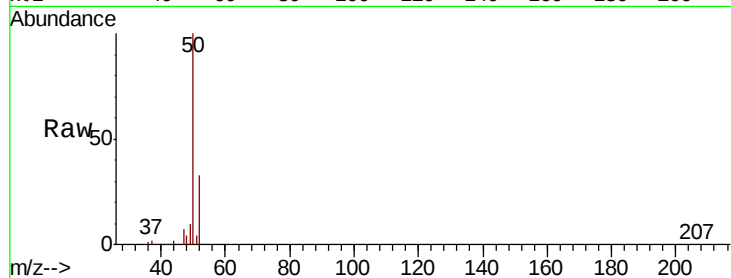
52 33.0 25.9 38.9

Manual Integrations

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#4

Vinyl Chloride

Concen: 44.703 ug/l

RT: 2.18 min Scan# 183

Delta R.T. 0.00 min

Lab File: VN050157.D

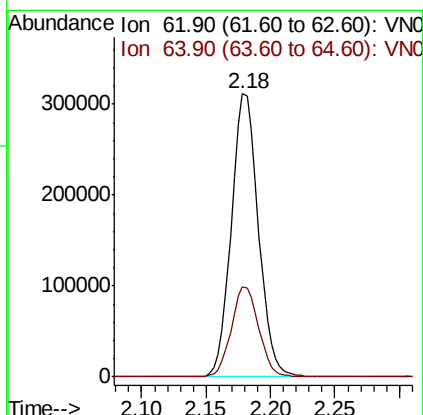
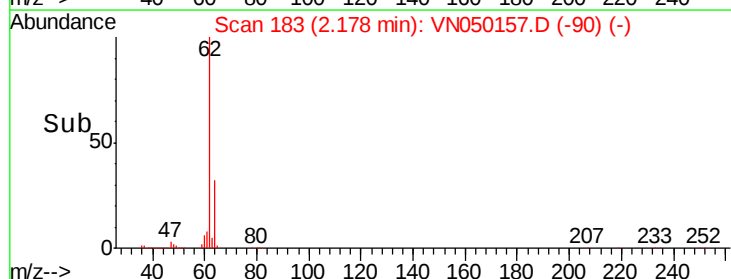
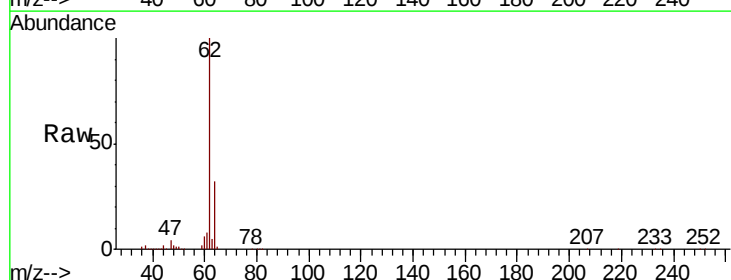
Acq: 28 Jul 2018 3:00

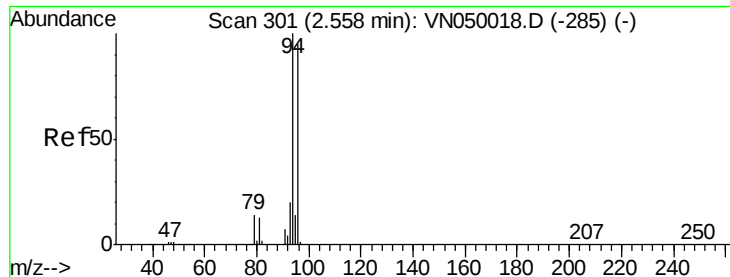
Tgt Ion: 62 Resp: 454152

Ion Ratio Lower Upper

62 100

64 31.8 24.7 37.1





#5

Bromomethane

Concen: 25.480 ug/l

RT: 2.56 min Scan# 301

Delta R.T. 0.01 min

Lab File: VN050157.D

Acq: 28 Jul 2018 3:00

Instrument :

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ClientSampleId :

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Tot Ion: 94 Resp: 146520

Ion Ratio Lower Upper

94 100

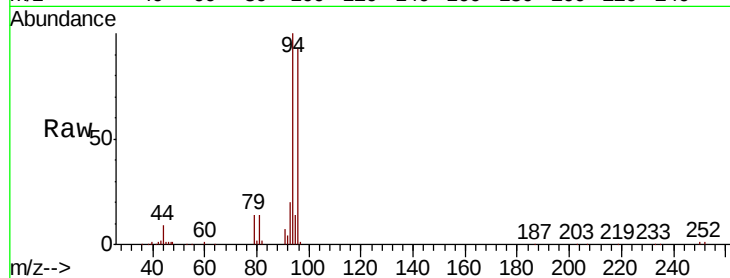
96 93.5 74.6 112.0

Manual Integrations

APPROVED

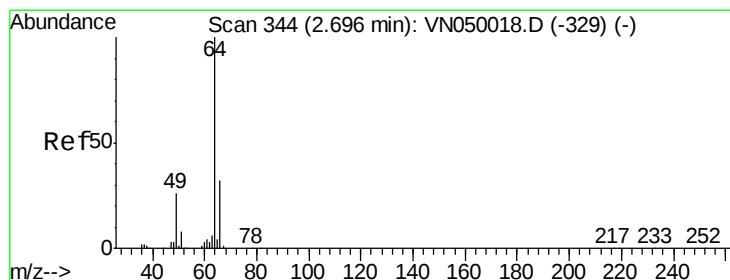
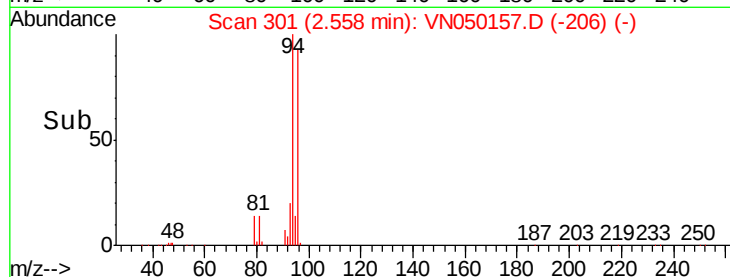
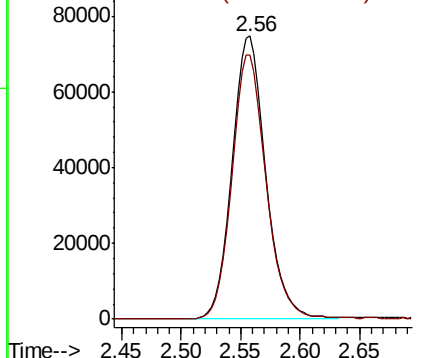
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Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO



#6

Chloroethane

Concen: 44.272 ug/l

RT: 2.70 min Scan# 344

Delta R.T. 0.00 min

Lab File: VN050157.D

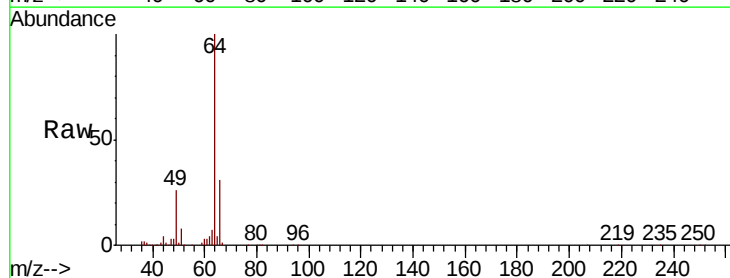
Acq: 28 Jul 2018 3:00

Tgt Ion: 64 Resp: 270117

Ion Ratio Lower Upper

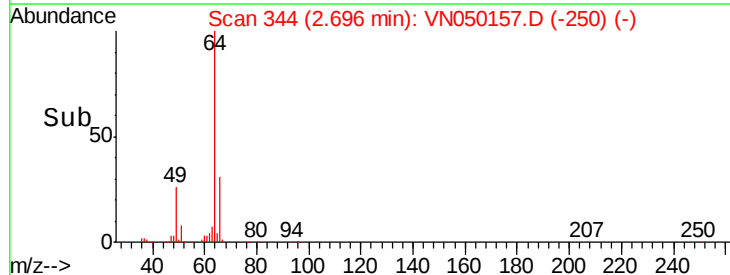
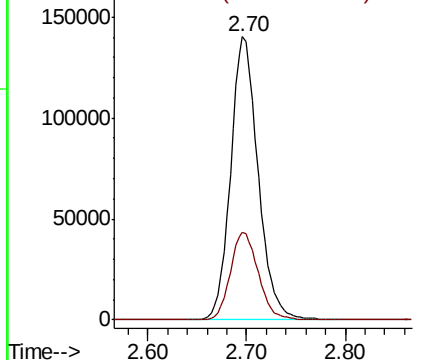
64 100

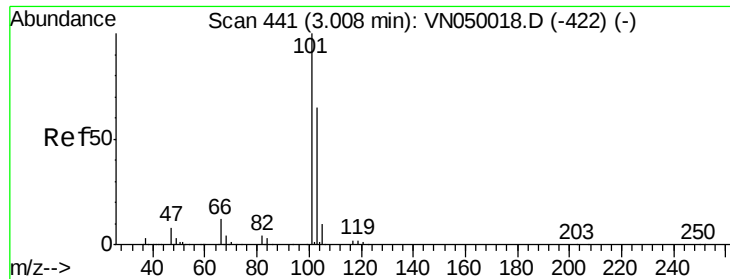
66 31.0 25.3 37.9



Abundance Ion 63.90 (63.60 to 64.60): VNO

Ion 65.90 (65.60 to 66.60): VNO





#7

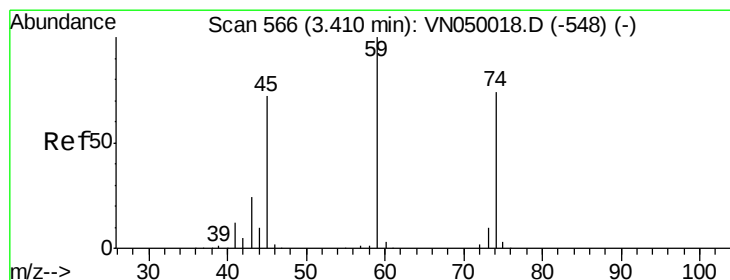
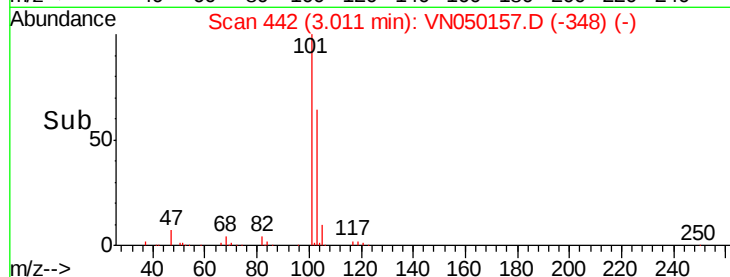
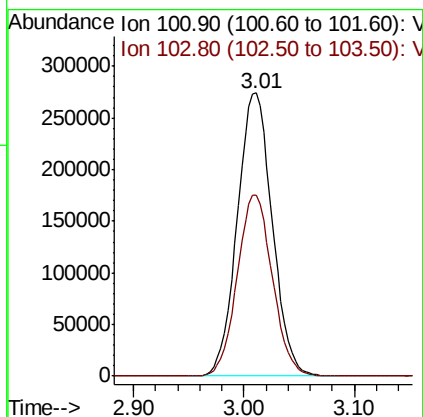
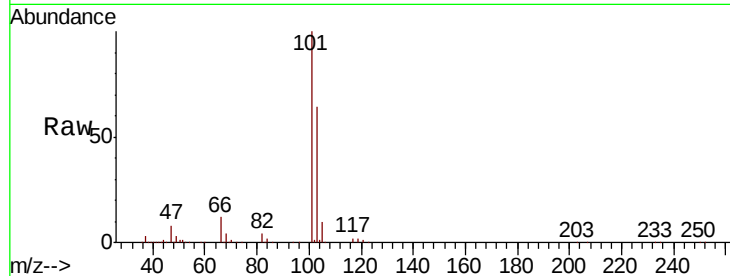
Trichlorofluoromethane
 Concen: 45.793 ug/l
 RT: 3.01 min Scan# 442
 Delta R.T. 0.00 min
 Lab File: VN050157.D
 Acq: 28 Jul 2018 3:00

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
101	100		
103	64.0	51.7	77.5

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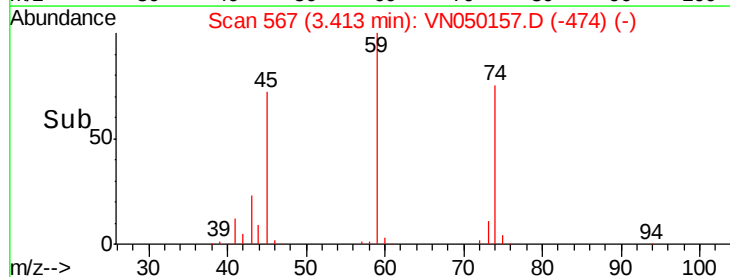
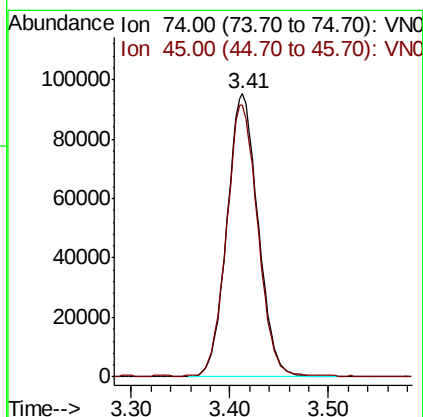
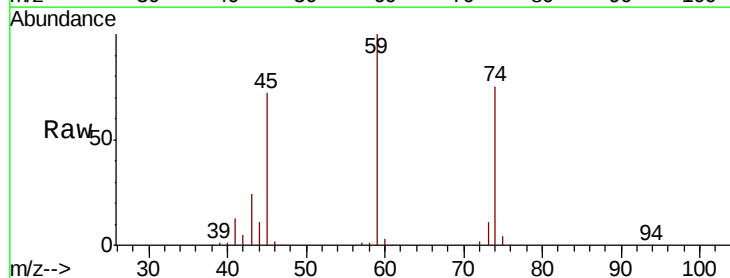
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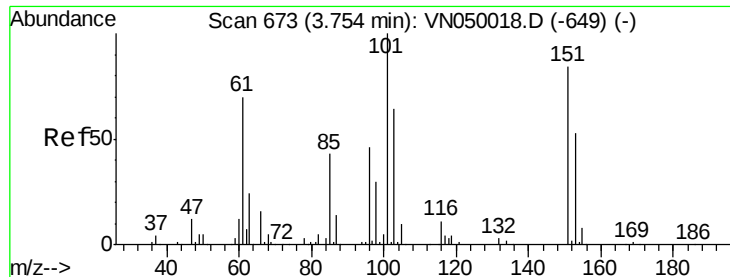


#8

Diethyl Ether
 Concen: 47.739 ug/l
 RT: 3.41 min Scan# 567
 Delta R.T. 0.00 min
 Lab File: VN050157.D
 Acq: 28 Jul 2018 3:00

Tgt Ion	Ratio	Lower	Upper
74	100		
45	95.9	47.6	142.8





#9

1,1,2-Trichlorotrifluoroethane

Concen: 45.329 ug/l

RT: 3.76 min Scan# 674

Delta R.T. 0.00 min

Lab File: VN050157.D

Acq: 28 Jul 2018 3:00

Instrument :

MSVOA_N

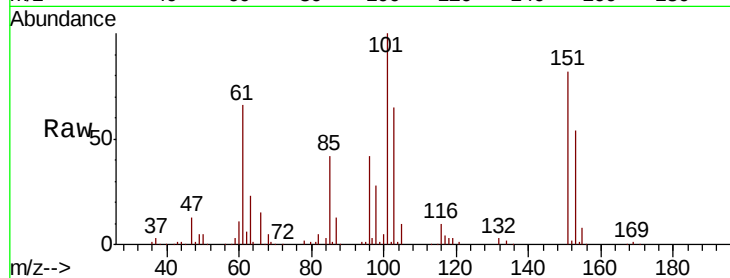
ClientSampleId :

VSTDCCC050

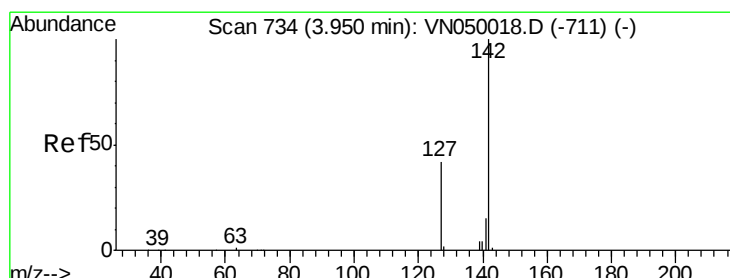
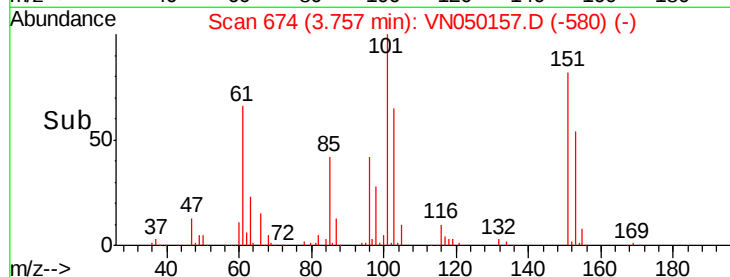
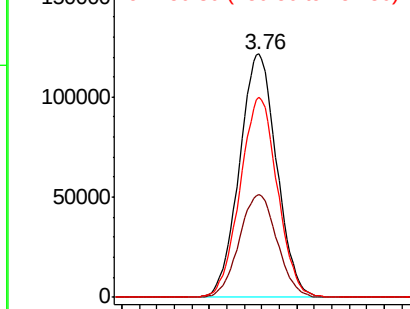
Tot Ion:	101	Resp:	358738
Ion Ratio	Lower	Upper	
101	100		
85	42.8	34.2	51.2
151	82.5	66.3	99.5

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



#10

Methyl Iodide

Concen: 25.835 ug/l

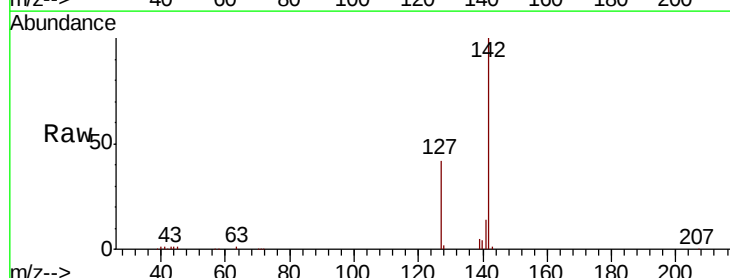
RT: 3.95 min Scan# 734

Delta R.T. 0.00 min

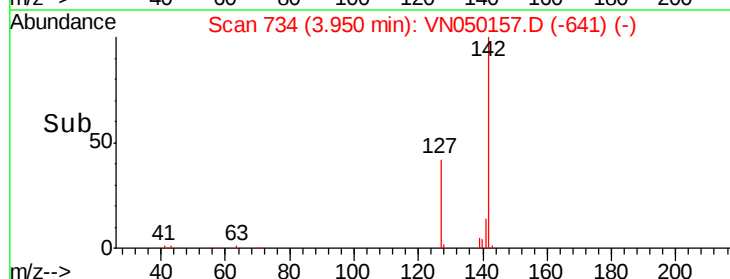
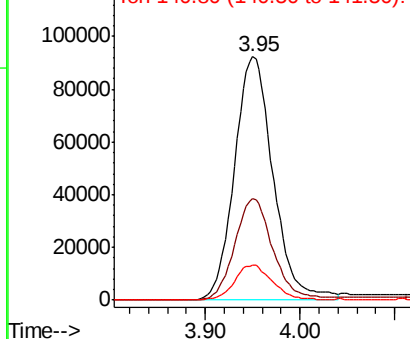
Lab File: VN050157.D

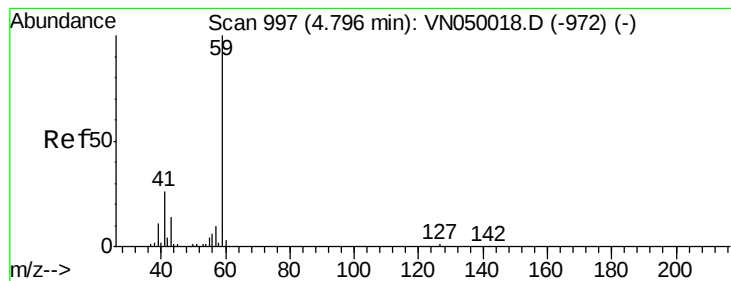
Acq: 28 Jul 2018 3:00

Tgt Ion:	142	Resp:	262421
Ion Ratio	Lower	Upper	
142	100		
127	41.1	33.4	50.2
141	14.2	11.6	17.4



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





#11

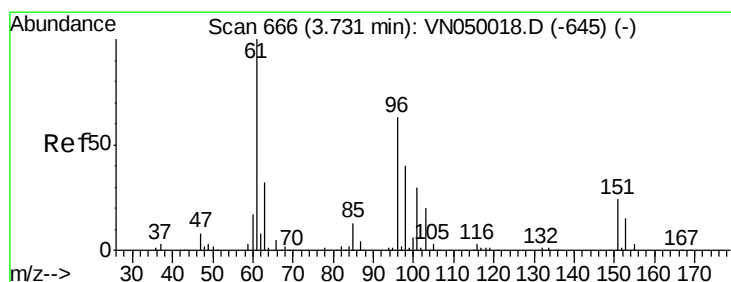
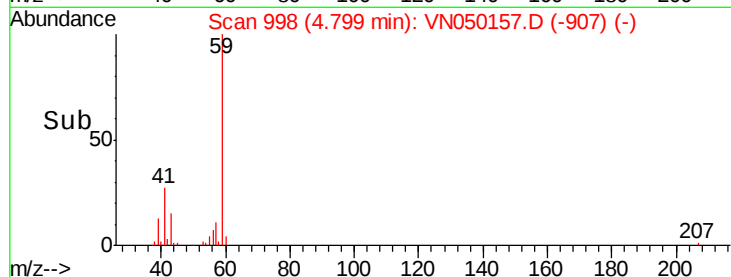
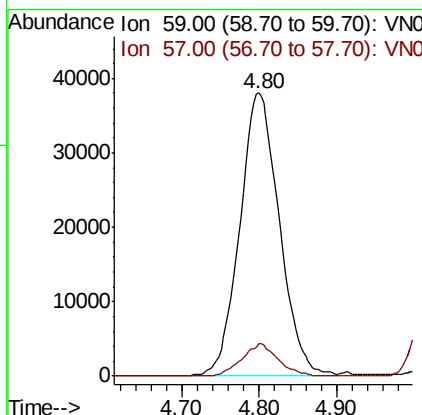
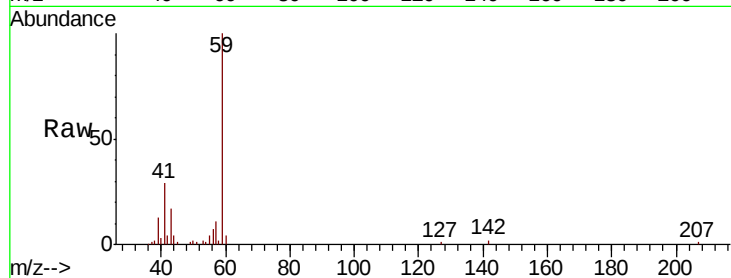
Tert butyl alcohol
 Concen: 213.878 ug/l
 RT: 4.80 min Scan# 998
 Delta R.T. -0.01 min
 Lab File: VN050157.D
 Acq: 28 Jul 2018 3:00

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
59	100		
57	10.4	8.5	12.7

Manual Integrations
 APPROVED

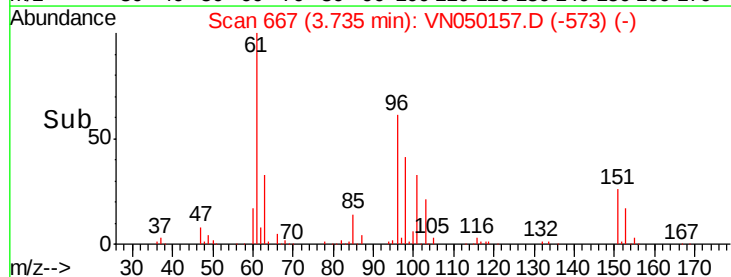
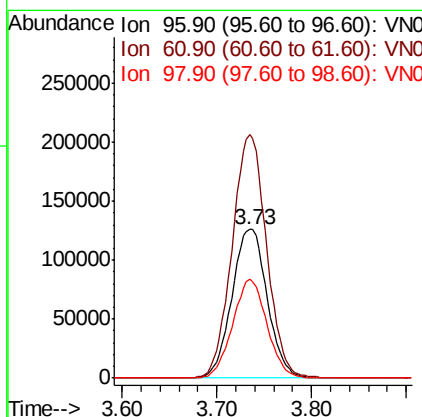
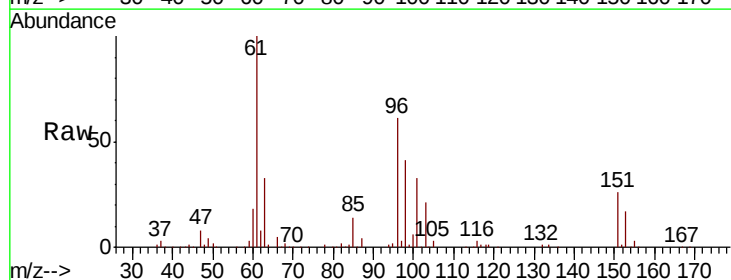
MMDadoda
 7/30/2018 1:37:19 PM

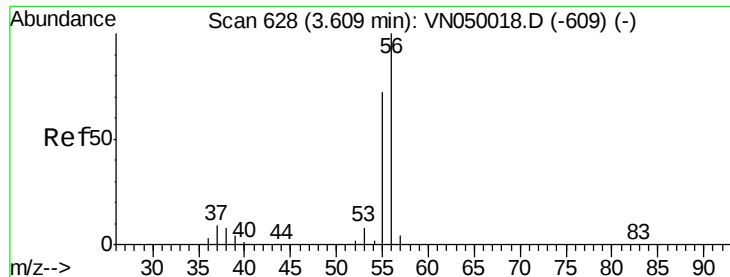


#12

1,1-Dichloroethene
 Concen: 46.042 ug/l
 RT: 3.73 min Scan# 667
 Delta R.T. 0.00 min
 Lab File: VN050157.D
 Acq: 28 Jul 2018 3:00

Tgt Ion	Ratio	Lower	Upper
96	100		
61	163.6	124.4	186.6
98	66.8	48.3	72.5





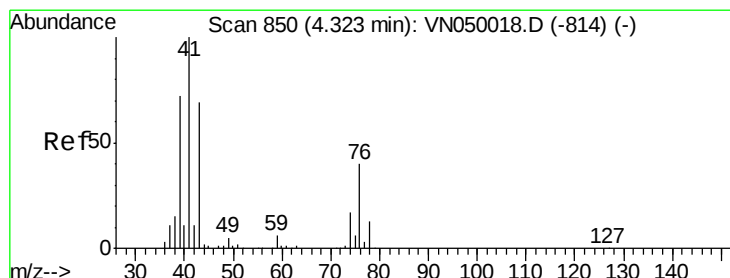
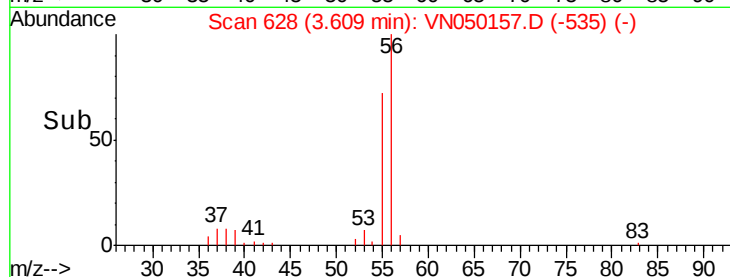
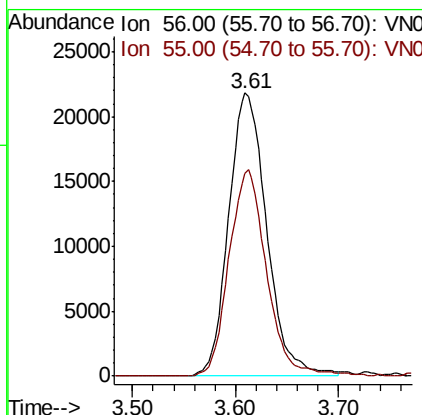
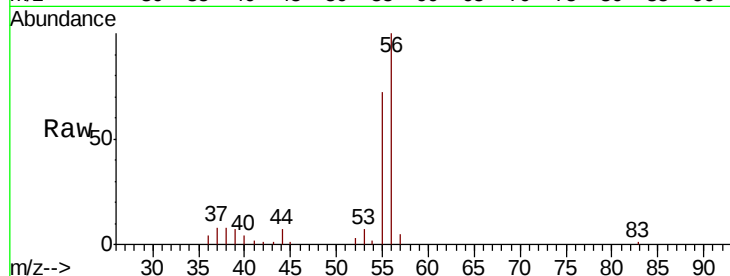
#13
Acrolein
Concen: 110.196 ug/l
RT: 3.61 min Scan# 628
Delta R.T. 0.00 min
Lab File: VN050157.D
Acq: 28 Jul 2018 3:00

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	56	55	Resp	Lower	Upper
56141	100	72.0		55.8	83.6

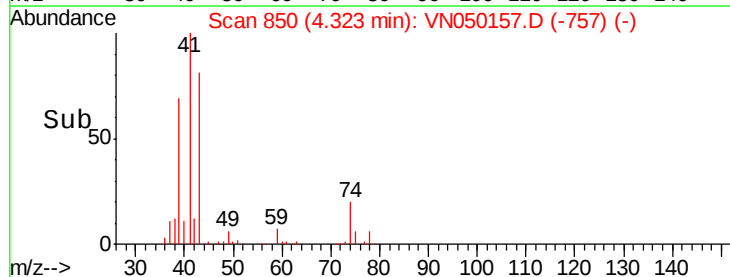
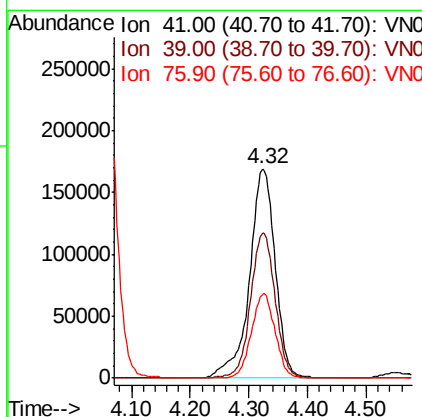
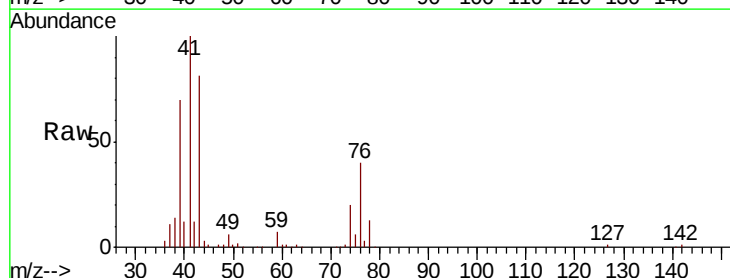
Manual Integrations
APPROVED

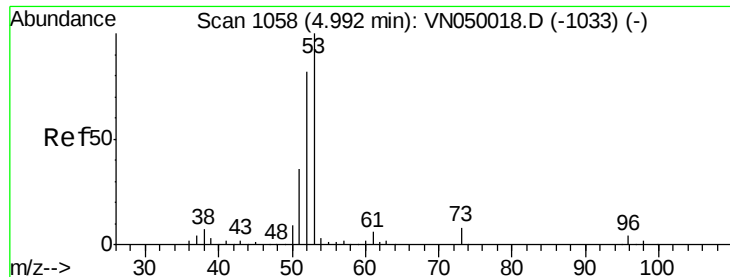
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#14
Allyl chloride
Concen: 46.578 ug/l
RT: 4.32 min Scan# 850
Delta R.T. 0.00 min
Lab File: VN050157.D
Acq: 28 Jul 2018 3:00

Tgt Ion	41	39	76	Resp	Lower	Upper
514168	100	66.2	36.5		54.2	81.4





#15

Acrylonitrile

Concen: 236.024 ug/l

RT: 4.99 min Scan# 1059

Delta R.T. 0.00 min

Lab File: VN050157.D

Acq: 28 Jul 2018 3:00

Instrument :

MSVOA_N

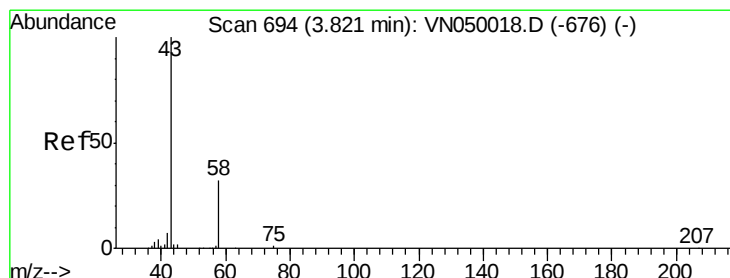
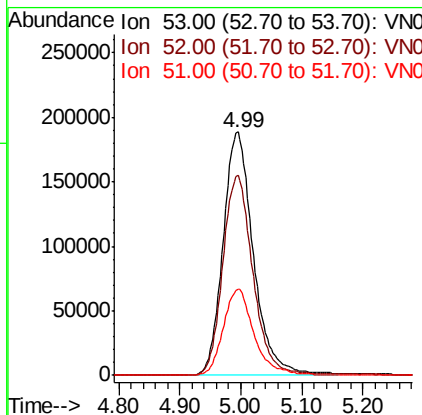
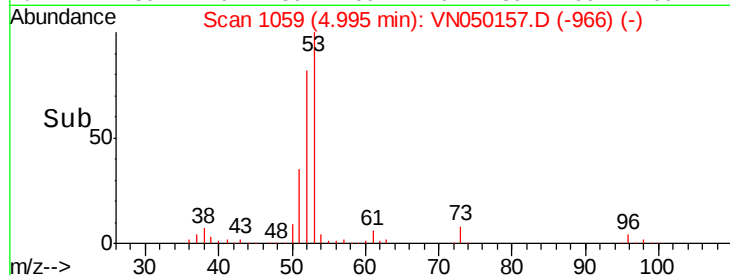
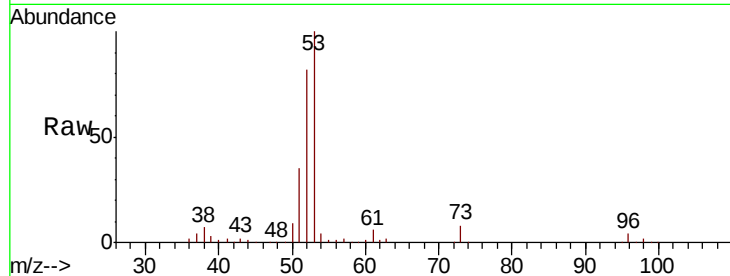
ClientSampleId :

VSTDCCC050

Tot Ion:	53	Resp:	652960
Ion	Ratio	Lower	Upper
53	100		
52	81.3	66.2	99.2
51	35.9	29.3	43.9

Manual Integrations
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#16

Acetone

Concen: 230.540 ug/l

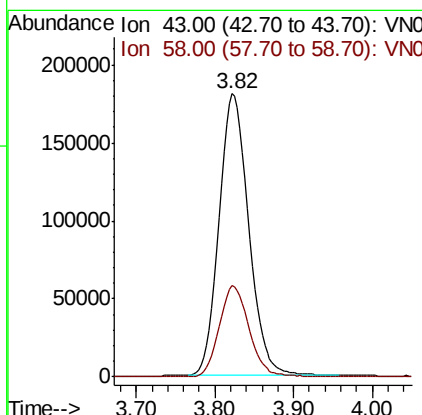
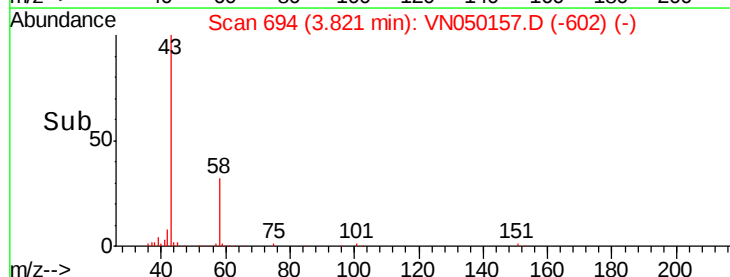
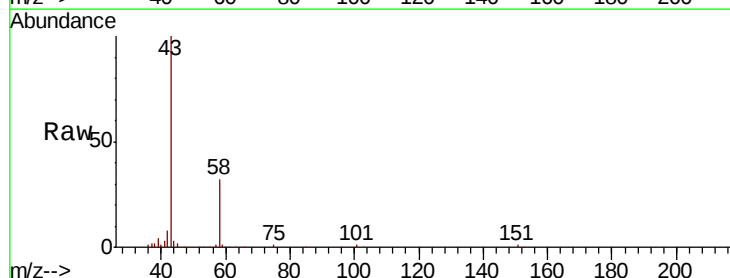
RT: 3.82 min Scan# 694

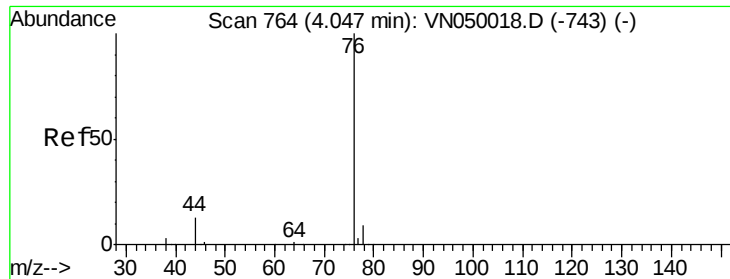
Delta R.T. -0.00 min

Lab File: VN050157.D

Acq: 28 Jul 2018 3:00

Tgt Ion:	43	Resp:	468674
Ion	Ratio	Lower	Upper
43	100		
58	32.2	25.8	38.8





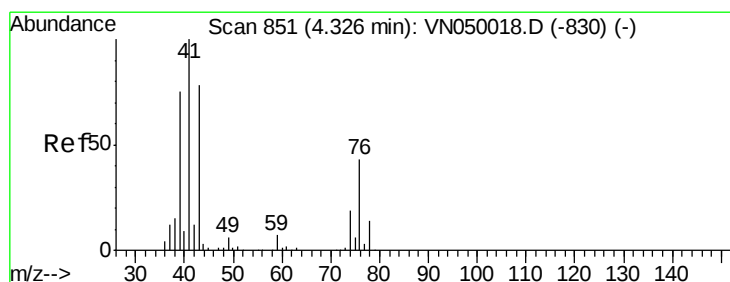
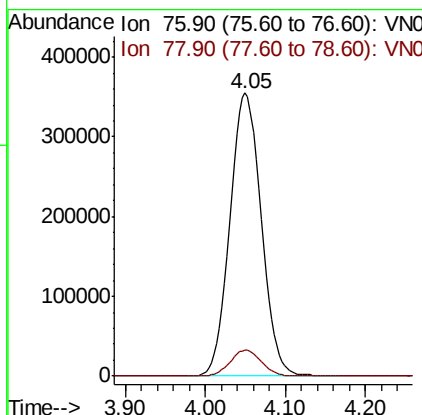
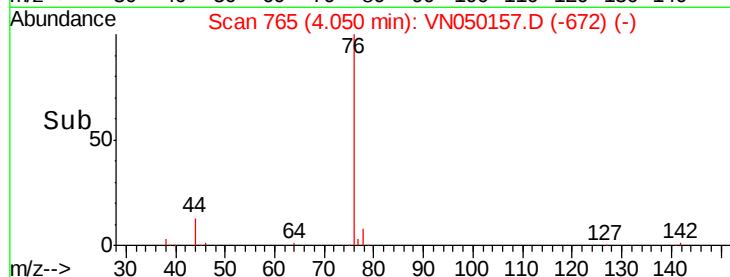
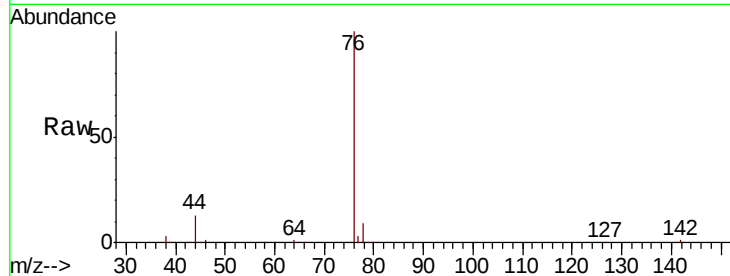
#17
Carbon Disulfide
Concen: 43.302 ug/l
RT: 4.05 min Scan# 765
Delta R.T. 0.00 min
Lab File: VN050157.D
Acq: 28 Jul 2018 3:00

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
76	100		
78	9.1	7.3	10.9

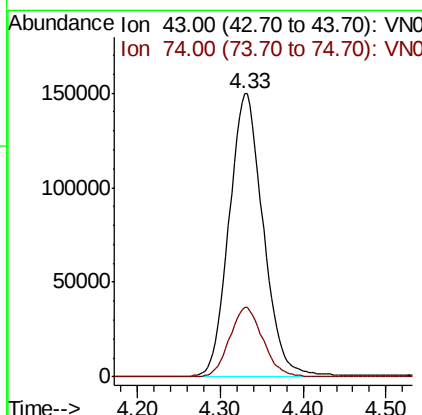
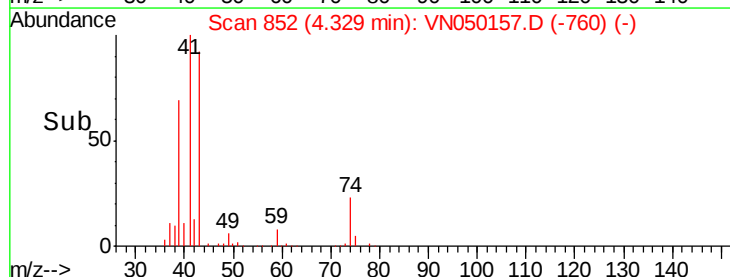
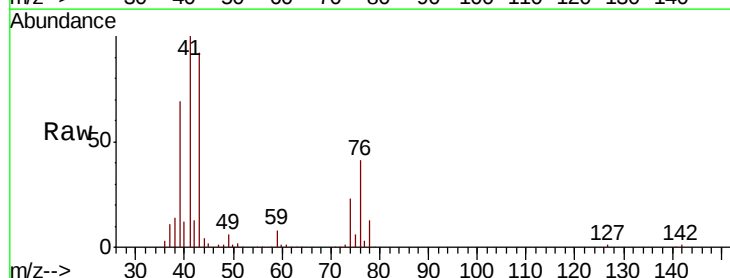
Manual Integrations
APPROVED

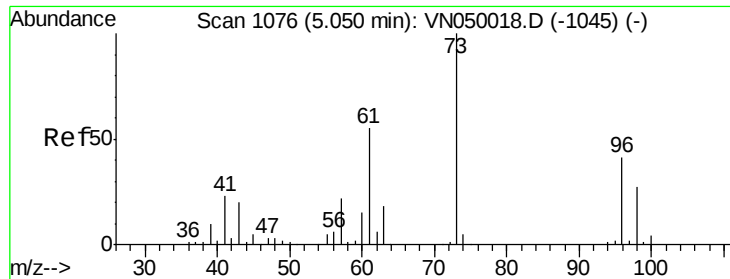
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#18
Methyl Acetate
Concen: 54.106 ug/l
RT: 4.33 min Scan# 852
Delta R.T. -0.00 min
Lab File: VN050157.D
Acq: 28 Jul 2018 3:00

Tgt Ion	Ratio	Lower	Upper
43	100		
74	24.1	19.2	28.8





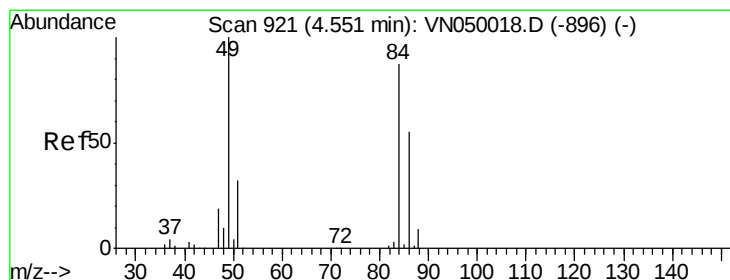
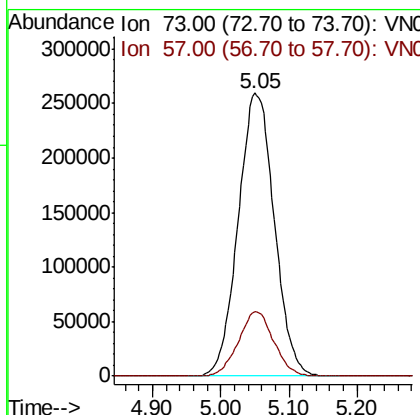
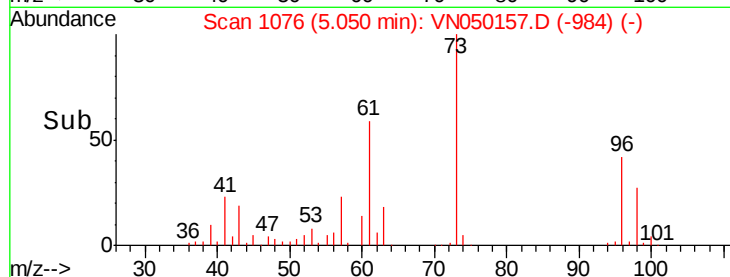
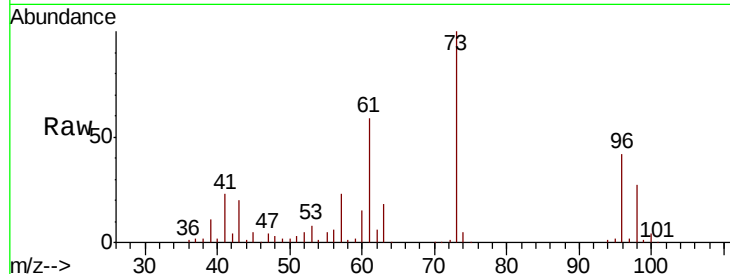
#19
Methyl tert-butyl Ether
Concen: 50.295 ug/l
RT: 5.05 min Scan# 1076
Delta R.T. -0.00 min
Lab File: VN050157.D
Acq: 28 Jul 2018 3:00

Instrument :
MSVOA_N
ClientSampled :
VSTDCCC050

Tot Ion: 73 Resp: 954181
Ion Ratio Lower Upper
73 100
57 22.8 18.0 27.0

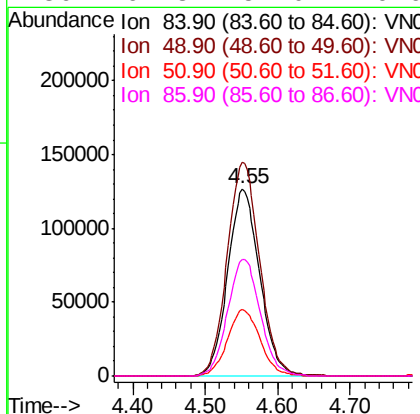
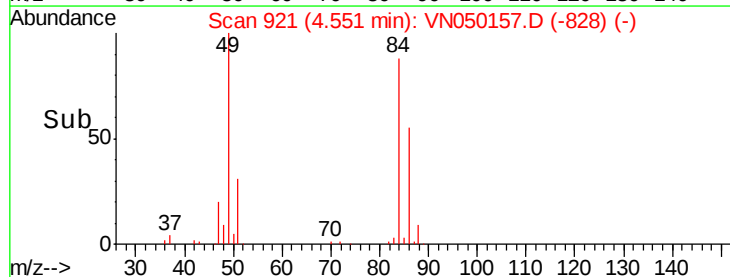
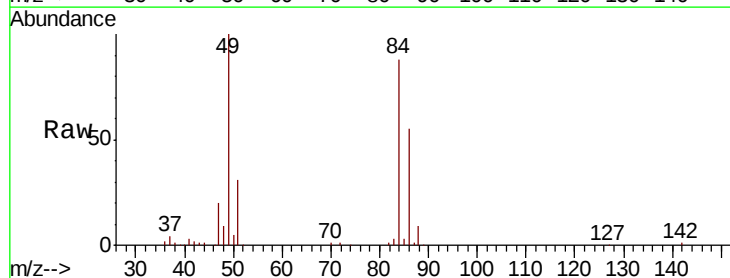
Manual Integrations
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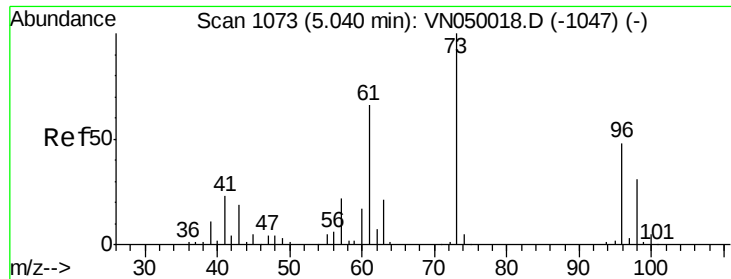
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#20
Methylene Chloride
Concen: 50.883 ug/l
RT: 4.55 min Scan# 921
Delta R.T. 0.00 min
Lab File: VN050157.D
Acq: 28 Jul 2018 3:00

Tgt Ion: 84 Resp: 388630
Ion Ratio Lower Upper
84 100
49 114.2 94.8 142.2
51 35.6 28.3 42.5
86 62.3 51.0 76.6





#21

trans-1,2-Dichloroethene

Concen: 46.925 ug/l

RT: 5.04 min Scan# 1074

Delta R.T. 0.00 min

Lab File: VN050157.D

Acq: 28 Jul 2018 3:00

Instrument :

MSVOA_N

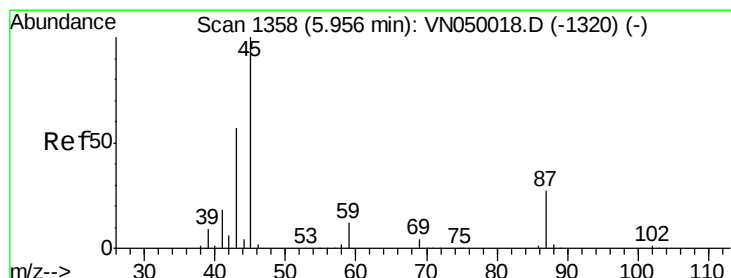
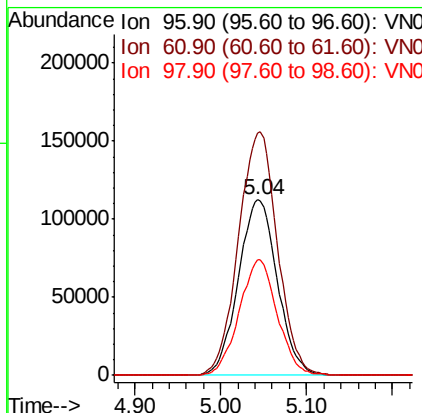
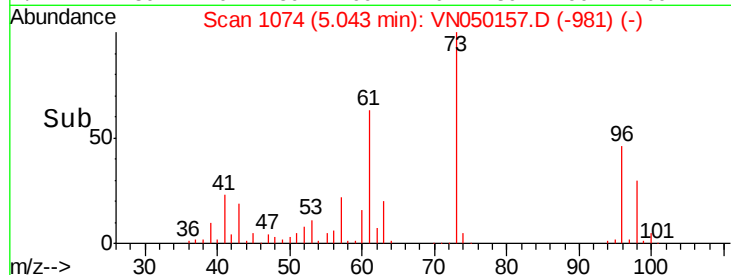
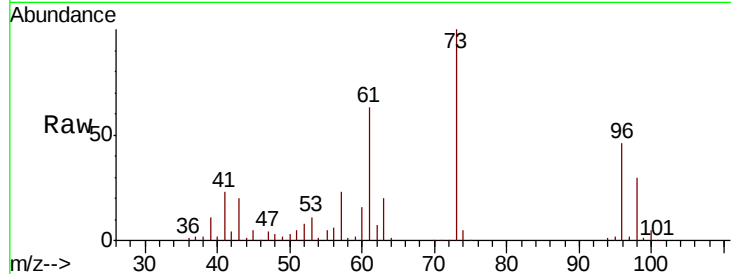
ClientSampled :

VSTDCCC050

Tot Ion:	96	Resp:	353981
Ion	Ratio	Lower	Upper
96	100		
61	138.0	110.7	166.1
98	66.1	51.6	77.4

Manual Integrations
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#22

Diisopropyl ether

Concen: 52.764 ug/l

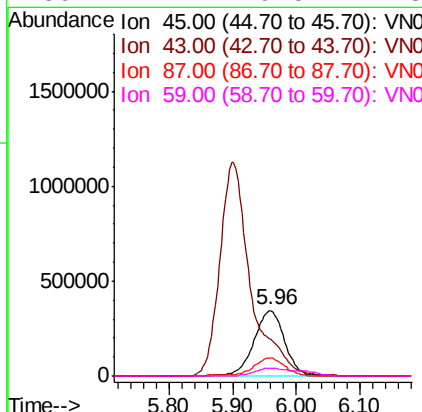
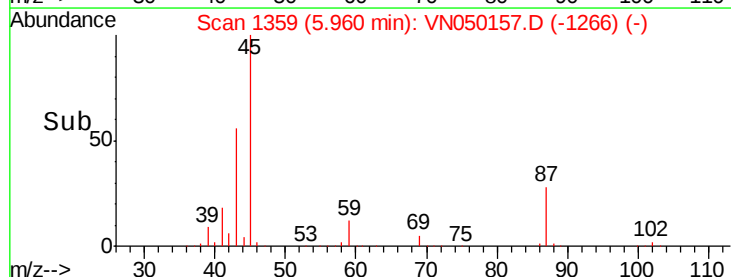
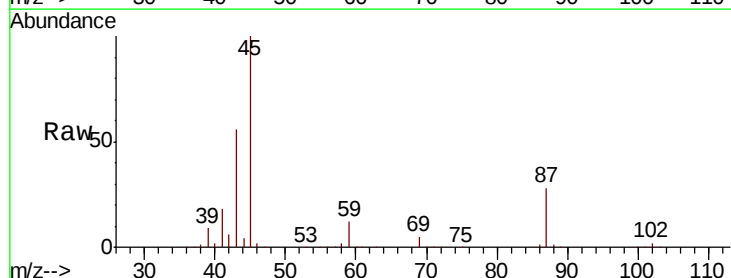
RT: 5.96 min Scan# 1359

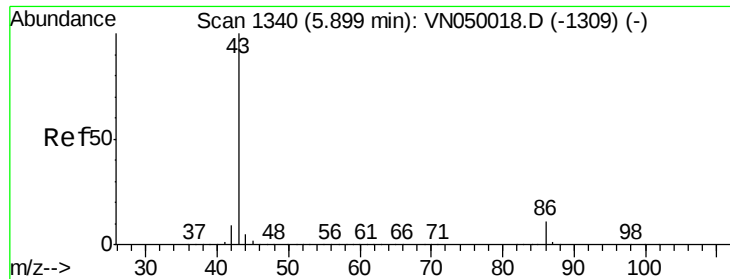
Delta R.T. 0.00 min

Lab File: VN050157.D

Acq: 28 Jul 2018 3:00

Tgt Ion:	45	Resp:	1154902
Ion	Ratio	Lower	Upper
45	100		
43	55.8	45.7	68.5
87	27.6	22.7	34.1
59	12.1	9.5	14.3





#23

Vinyl Acetate

Concen: 245.415 ug/l

RT: 5.90 min Scan# 1341

Delta R.T. 0.00 min

Lab File: VN050157.D

Acq: 28 Jul 2018 3:00

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 3796082

Ion Ratio Lower Upper

43 100

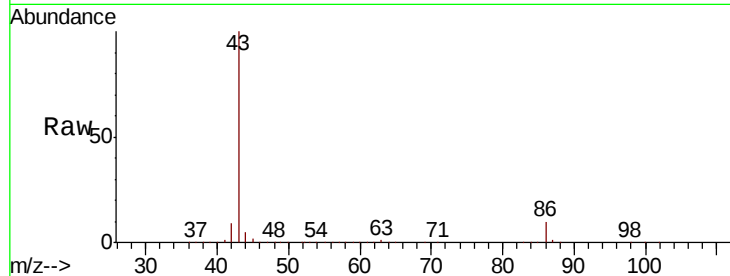
86 10.4 8.6 13.0

Manual Integrations

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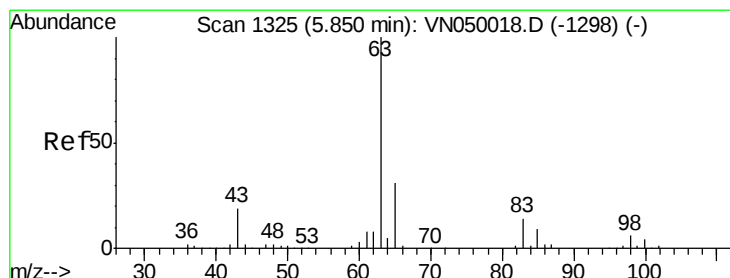
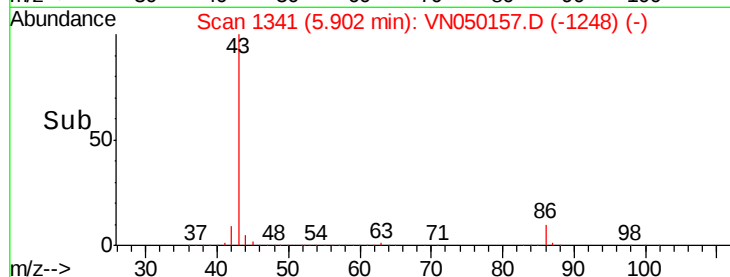
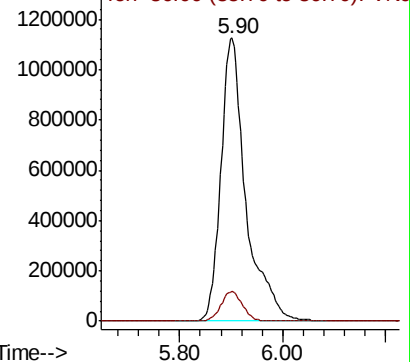
MMDadoda

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Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 86.00 (85.70 to 86.70): VN0



#24

1,1-Dichloroethane

Concen: 47.932 ug/l

RT: 5.85 min Scan# 1326

Delta R.T. 0.00 min

Lab File: VN050157.D

Acq: 28 Jul 2018 3:00

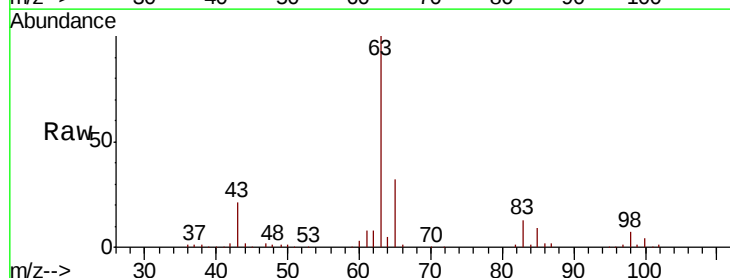
Tgt Ion: 63 Resp: 686049

Ion Ratio Lower Upper

63 100

98 6.7 3.3 9.8

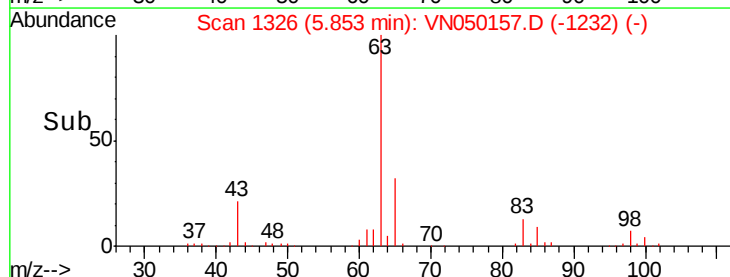
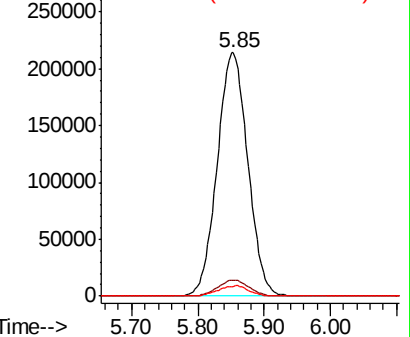
100 4.1 2.1 6.3

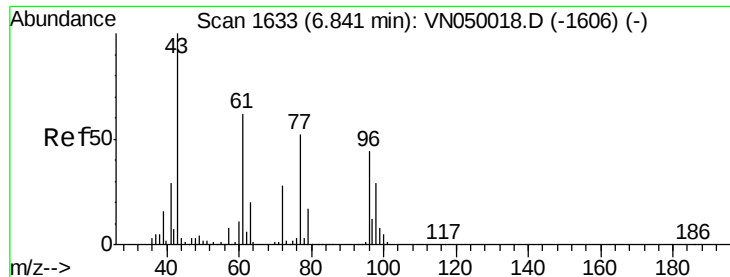


Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 97.90 (97.60 to 98.60): VN0

Ion 99.90 (99.60 to 100.60): VN0





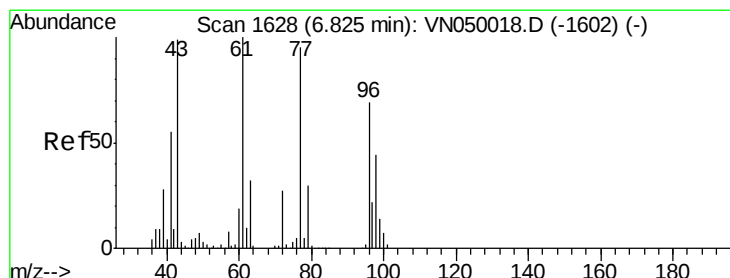
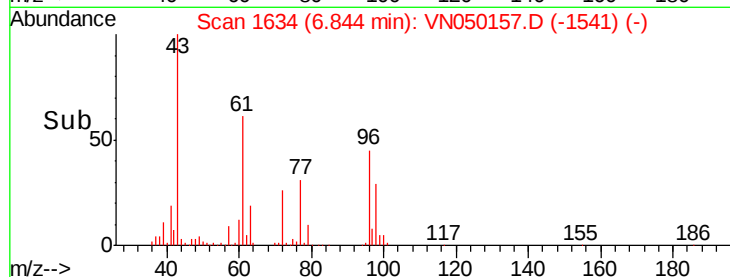
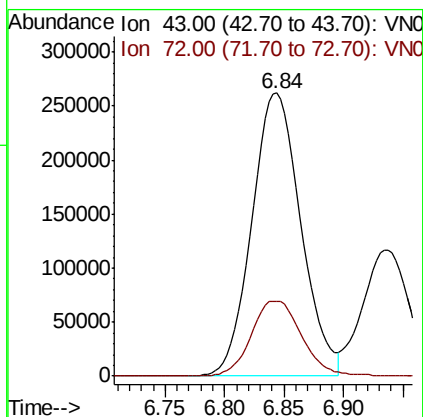
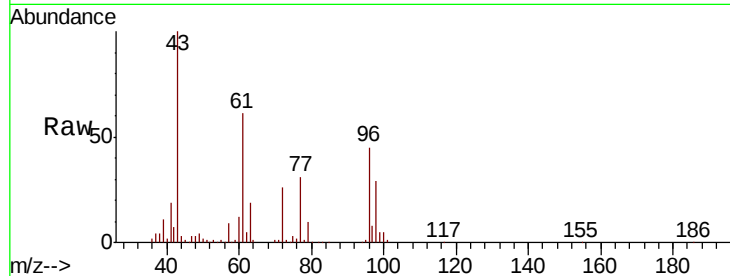
#25
2-Butanone
Concen: 227.179 ug/l
RT: 6.84 min Scan# 1634
Delta R.T. 0.00 min
Lab File: VN050157.D
Acq: 28 Jul 2018 3:00

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion: 43 Resp: 746772
Ion Ratio Lower Upper
43 100
72 26.4 21.5 32.3

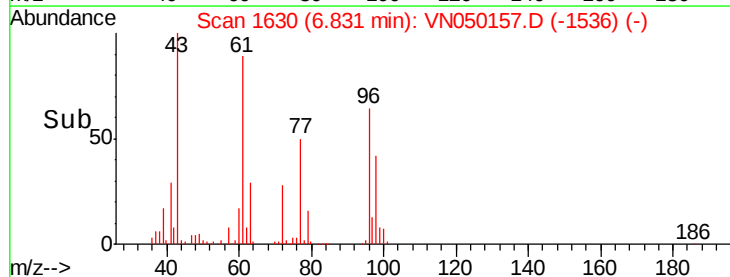
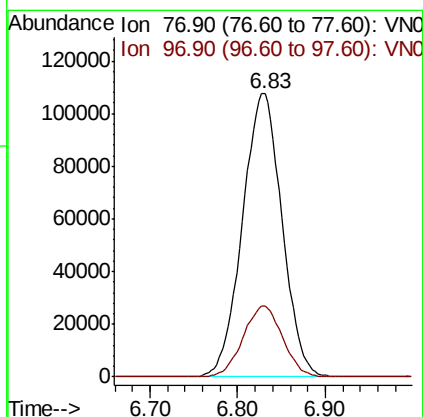
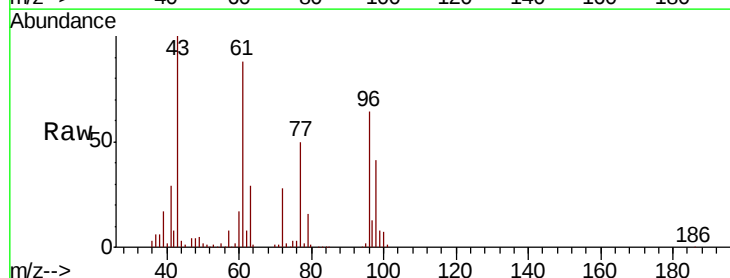
Manual Integrations
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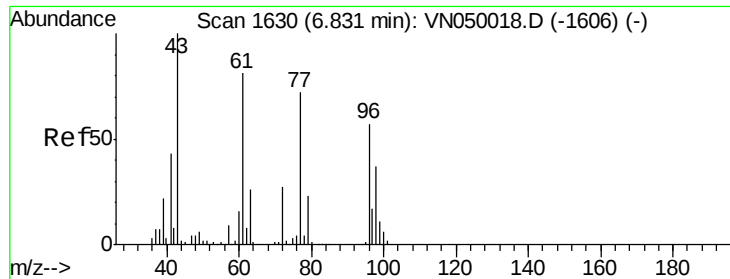
MMDadoda
7/30/2018 1:37:19 PM



#26
2,2-Dichloropropane
Concen: 30.966 ug/l
RT: 6.83 min Scan# 1630
Delta R.T. 0.00 min
Lab File: VN050157.D
Acq: 28 Jul 2018 3:00

Tgt Ion: 77 Resp: 337172
Ion Ratio Lower Upper
77 100
97 24.9 11.8 35.3





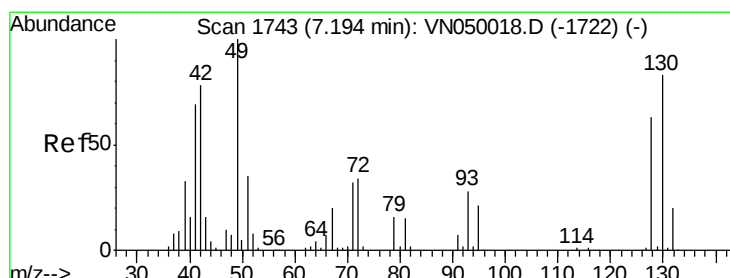
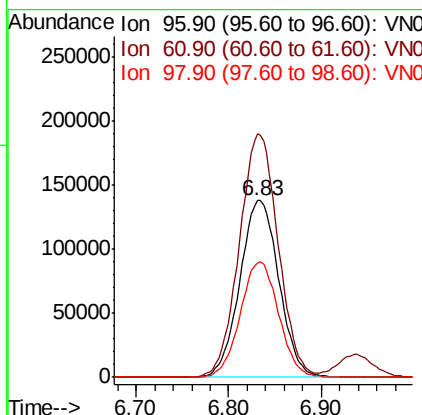
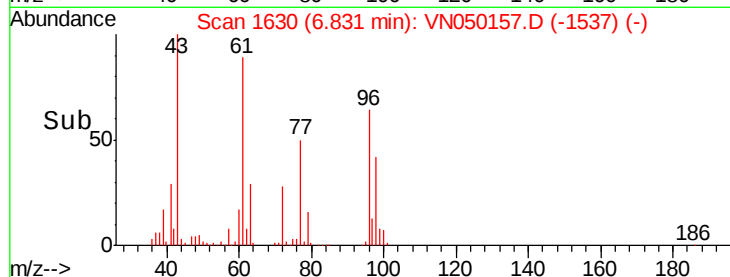
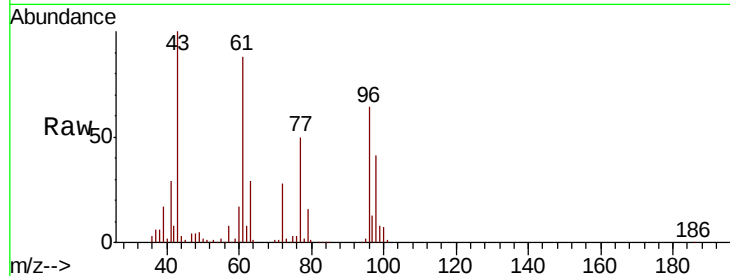
#27
 cis-1,2-Dichloroethene
 Concen: 49.733 ug/l
 RT: 6.83 min Scan# 1630
 Delta R.T. 0.00 min
 Lab File: VN050157.D
 Acq: 28 Jul 2018 3:00

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
96	100			
61	136.5	0.0	285.0	
98	64.1	0.0	129.2	

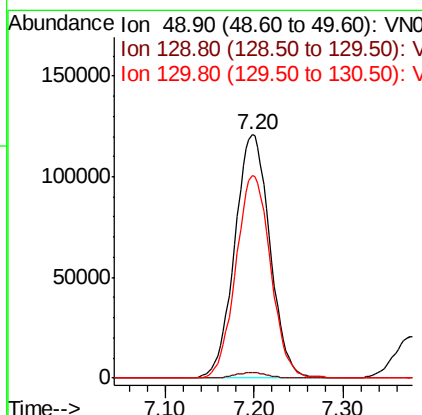
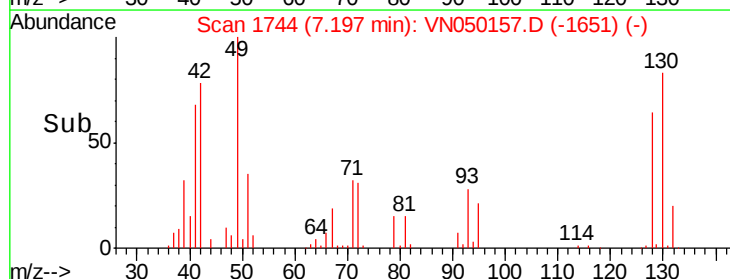
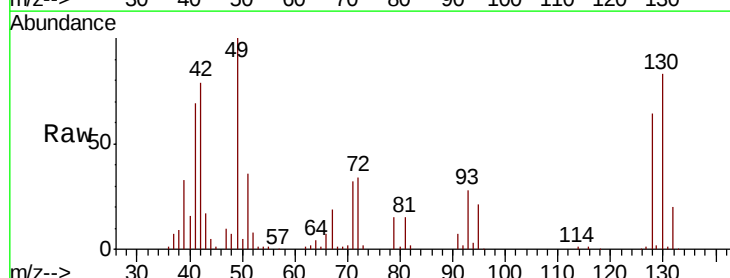
Manual Integrations
 APPROVED

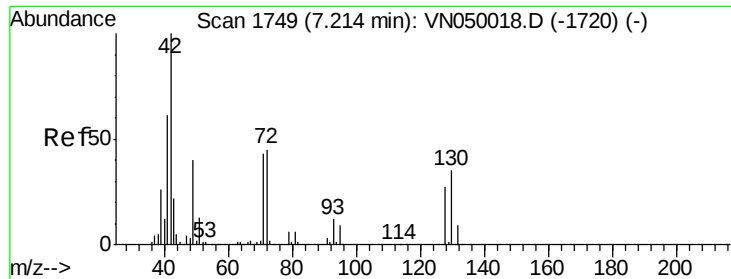
MMDadoda
 7/30/2018 1:37:19 PM



#28
 Bromochloromethane
 Concen: 50.734 ug/l
 RT: 7.20 min Scan# 1744
 Delta R.T. 0.00 min
 Lab File: VN050157.D
 Acq: 28 Jul 2018 3:00

Tgt Ion	Ratio	Resp	Lower	Upper
49	100			
129	2.0	0.0	4.0	
130	82.3	66.3	99.5	





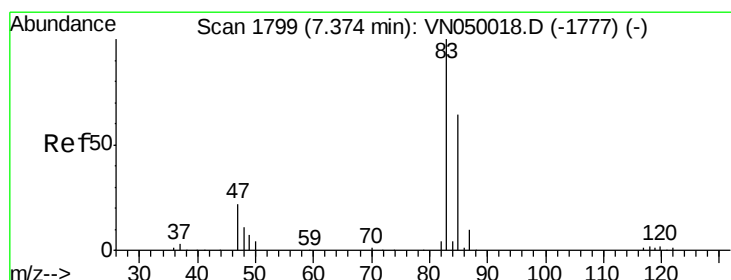
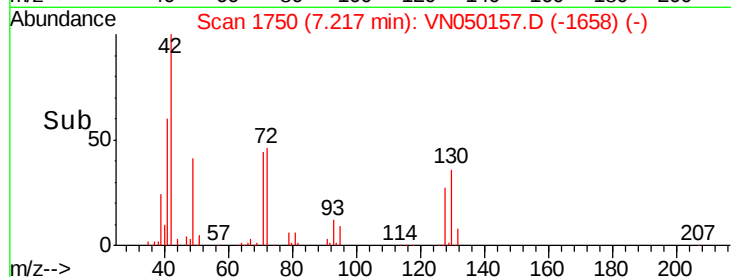
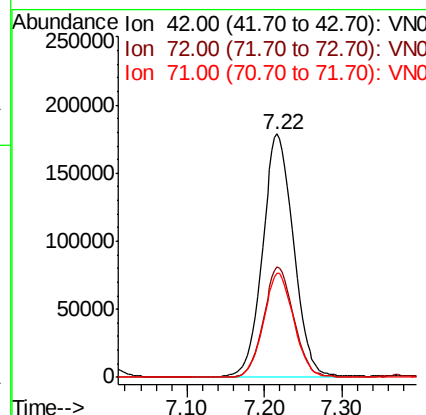
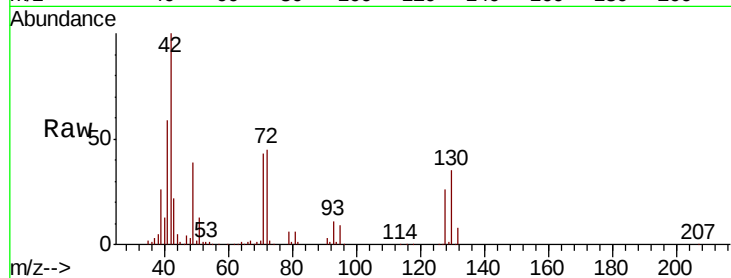
#29
Tetrahydrofuran
Concen: 234.140 ug/l
RT: 7.22 min Scan# 1750
Delta R.T. -0.00 min
Lab File: VN050157.D
Acq: 28 Jul 2018 3:00

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
42	100		
72	44.4	35.9	53.9
71	41.9	33.7	50.5

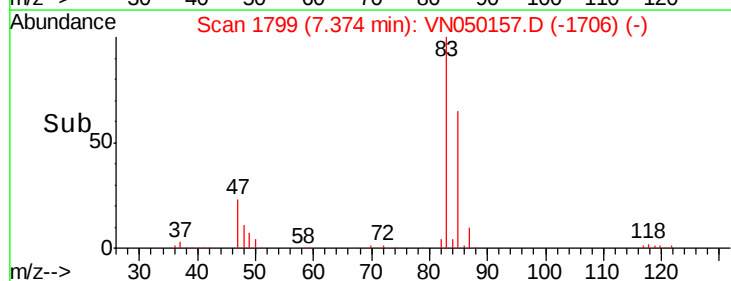
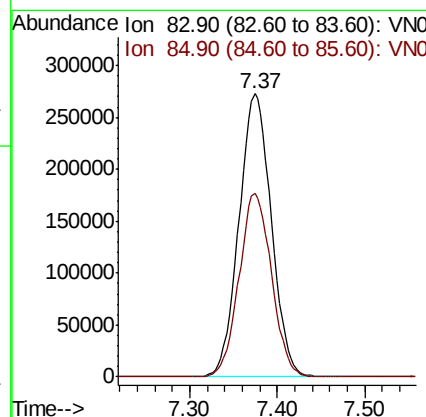
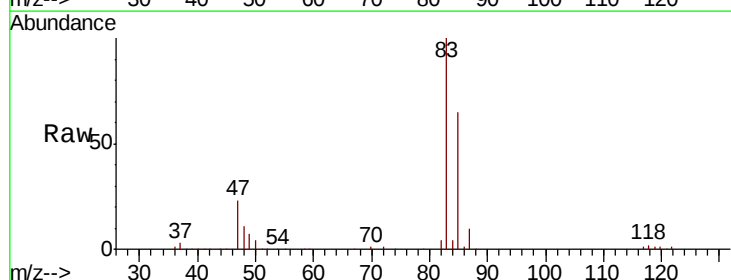
Manual Integrations
APPROVED

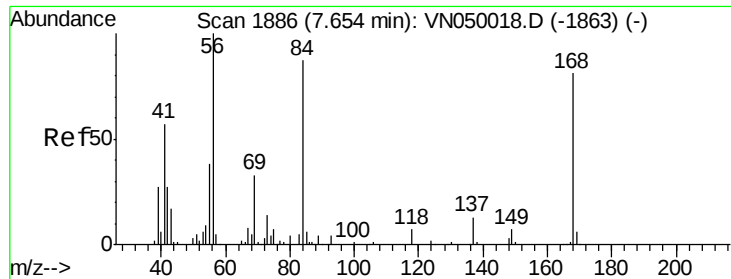
MMDadoda
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#30
Chloroform
Concen: 47.886 ug/l
RT: 7.37 min Scan# 1799
Delta R.T. 0.00 min
Lab File: VN050157.D
Acq: 28 Jul 2018 3:00

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.7	52.5	78.7





#31

Cvclohexane

Concen: 47.983 ug/l

RT: 7.66 min Scan# 1887

Delta R.T. 0.00 min

Lab File: VN050157.D

Acq: 28 Jul 2018 3:00

Instrument :

MSVOA_N

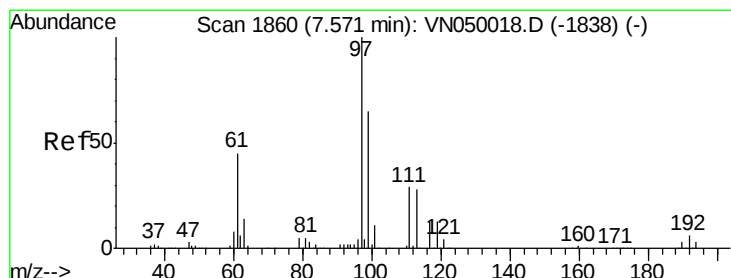
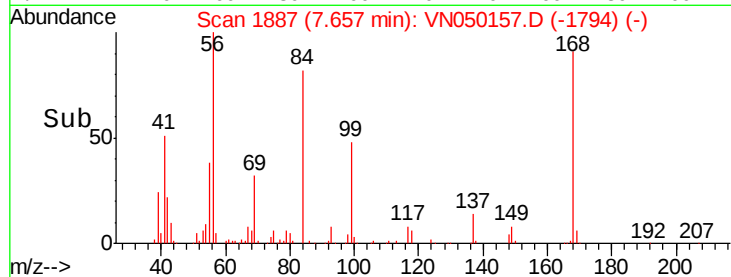
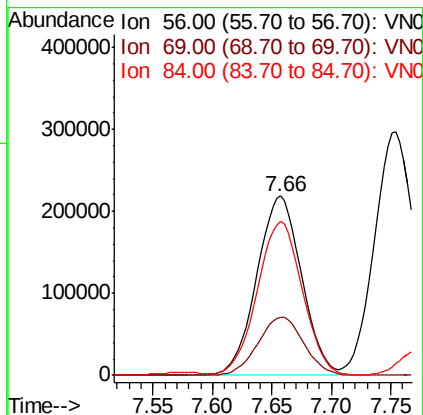
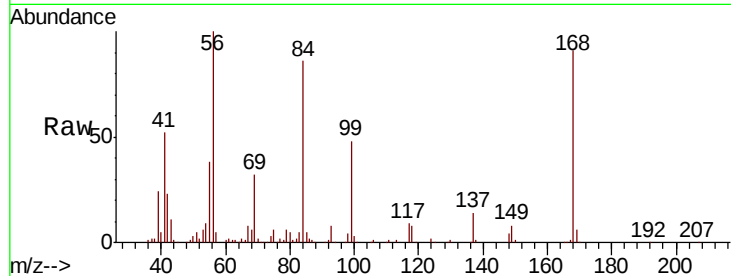
ClientSampled :

VSTDCCC050

Tot Ion:	56	Resp:	569585
Ion Ratio	Lower	Upper	
56	100		
69	32.4	26.2	39.4
84	84.2	67.4	101.0

Manual Integrations
APPROVED

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#32

1,1,1-Trichloroethane

Concen: 47.027 ug/l

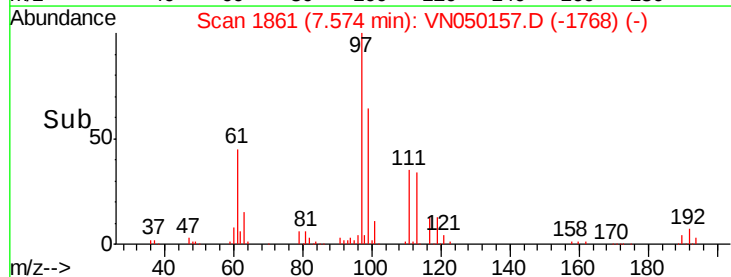
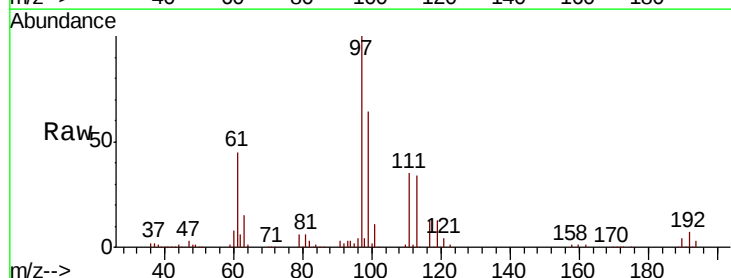
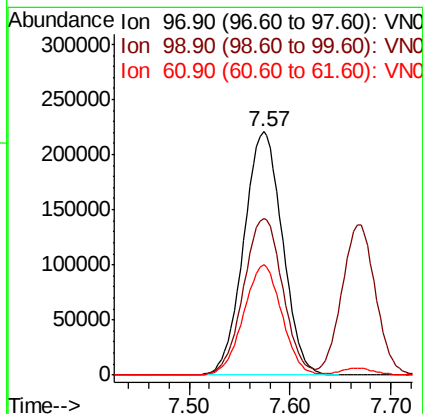
RT: 7.57 min Scan# 1861

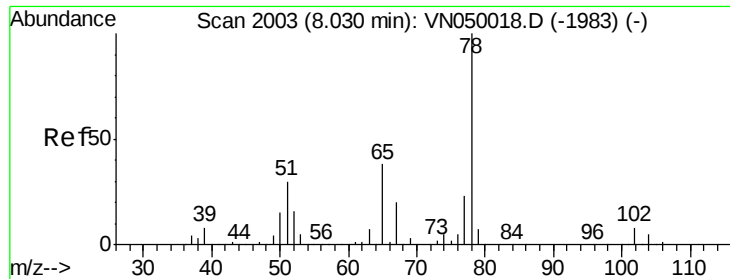
Delta R.T. 0.00 min

Lab File: VN050157.D

Acq: 28 Jul 2018 3:00

Tgt Ion:	97	Resp:	587535
Ion Ratio	Lower	Upper	
97	100		
99	65.2	51.4	77.0
61	44.7	35.4	53.0





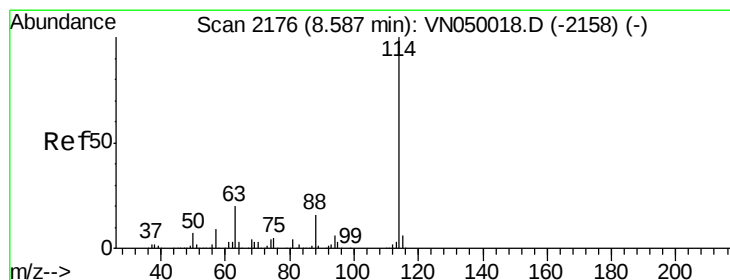
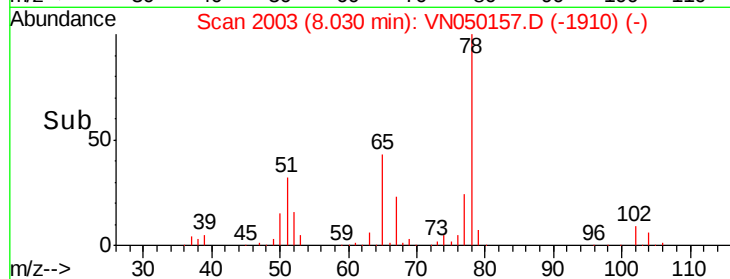
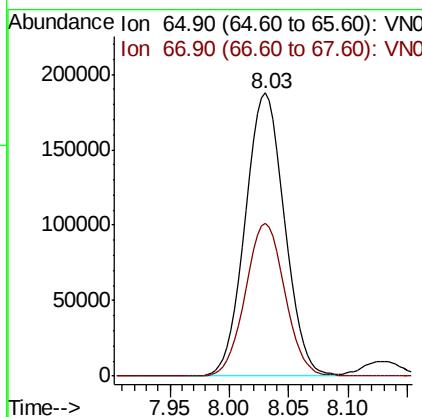
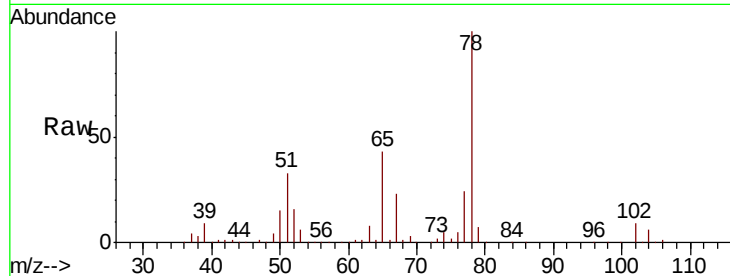
#33
 1,2-Dichloroethane-d4
 Concen: 49.966 ug/l
 RT: 8.03 min Scan# 2003
 Delta R.T. 0.00 min
 Lab File: VN050157.D
 Acq: 28 Jul 2018 3:00

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
65	100	430605		
67	54.3	0.0	108.4	

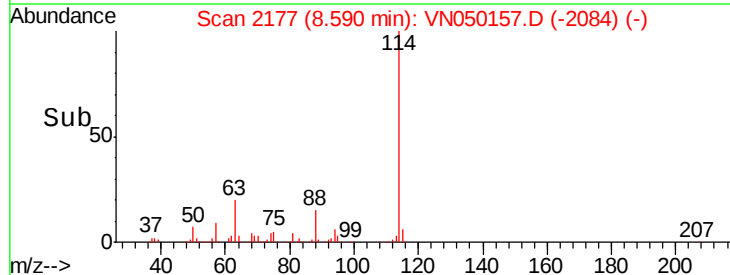
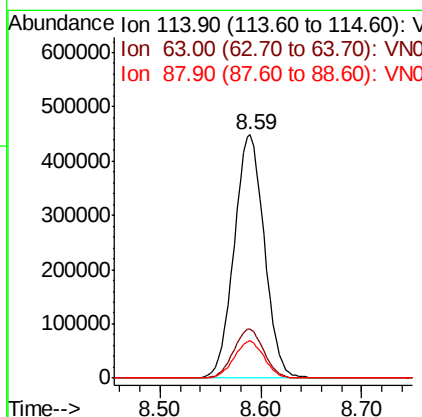
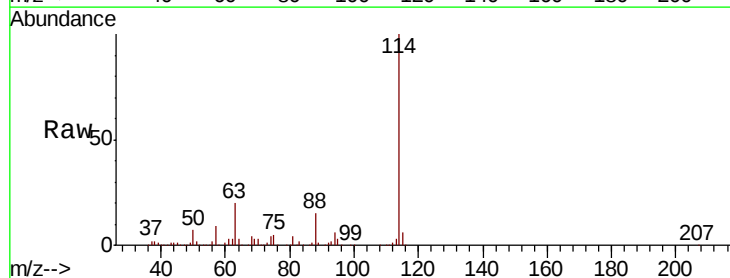
Manual Integrations
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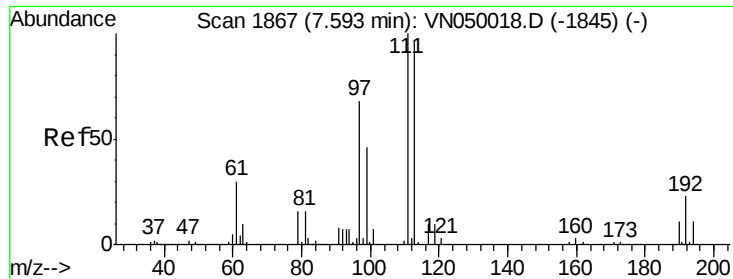
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 7/30/2018 1:37:19 PM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2177
 Delta R.T. 0.00 min
 Lab File: VN050157.D
 Acq: 28 Jul 2018 3:00

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	930910		
63	20.2	0.0	40.0	
88	15.2	0.0	31.2	





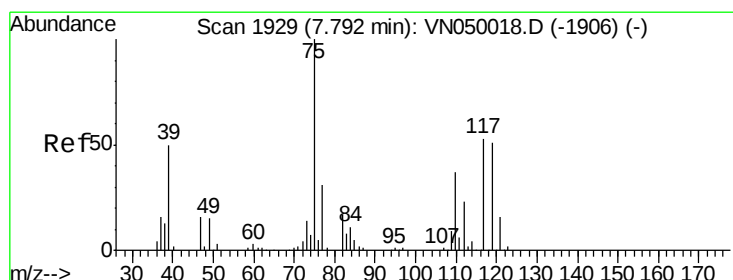
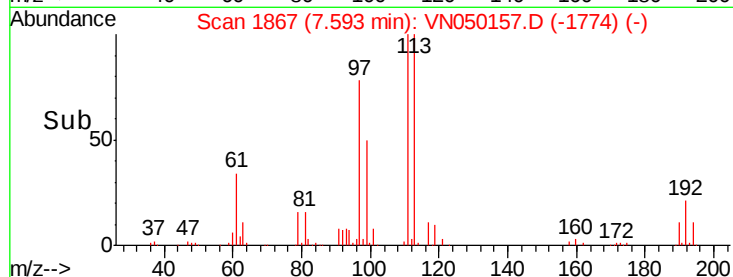
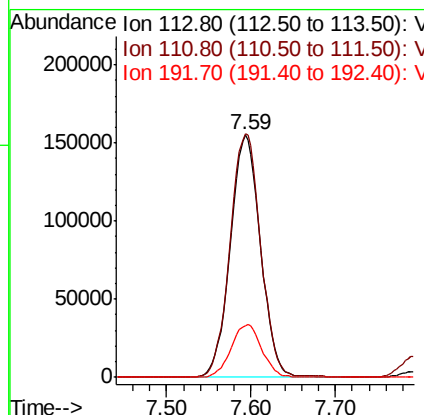
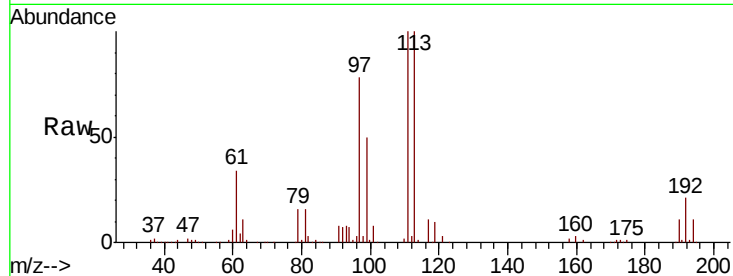
#35
 Dibromofluoromethane
 Concen: 50.818 ug/l
 RT: 7.59 min Scan# 1867
 Delta R.T. 0.00 min
 Lab File: VN050157.D
 Acq: 28 Jul 2018 3:00

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
113	100			
111	101.7	80.7	121.1	
192	22.1	17.8	26.6	

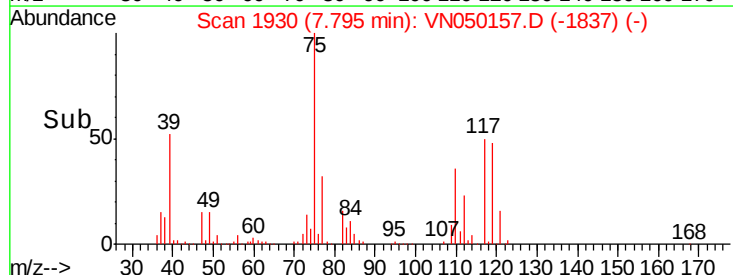
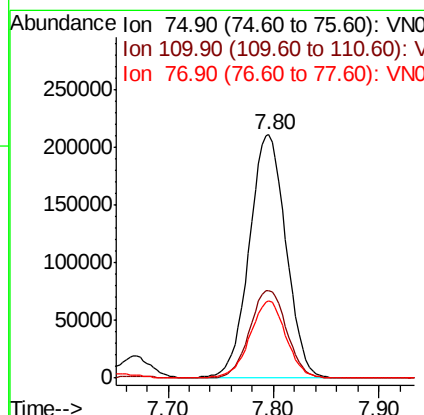
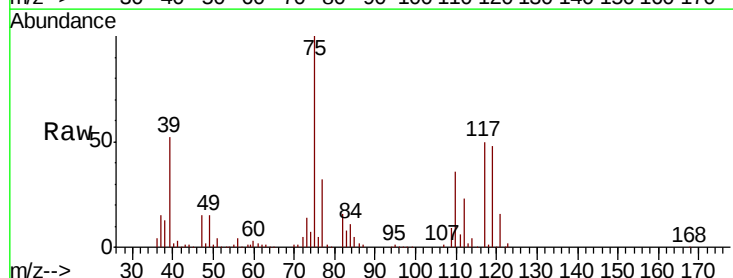
Manual Integrations
 APPROVED

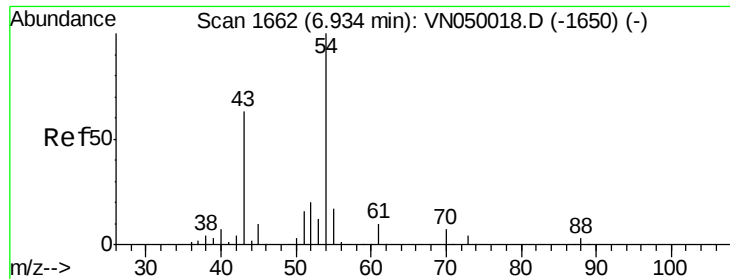
MMDadoda
 7/30/2018 1:37:19 PM



#36
 1,1-Dichloropropene
 Concen: 48.712 ug/l
 RT: 7.80 min Scan# 1930
 Delta R.T. 0.00 min
 Lab File: VN050157.D
 Acq: 28 Jul 2018 3:00

Tgt Ion	Ratio	Resp	Lower	Upper
75	100			
110	36.3	18.4	55.2	
77	31.4	25.3	37.9	





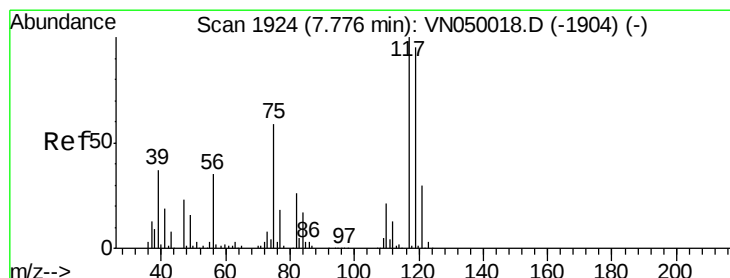
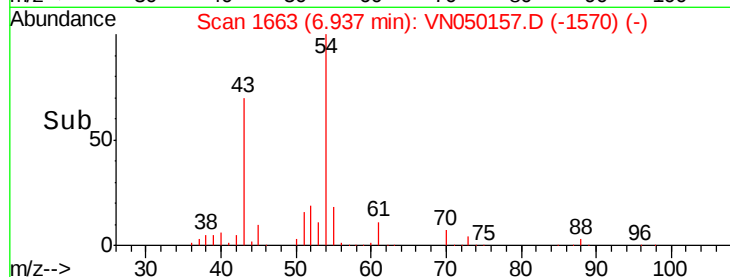
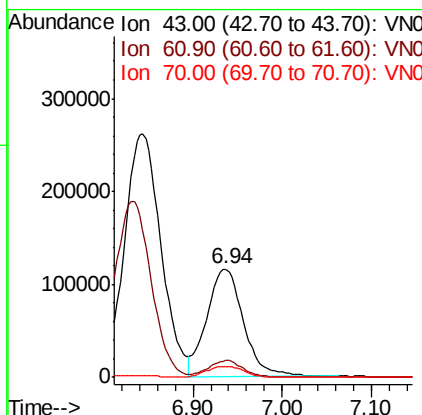
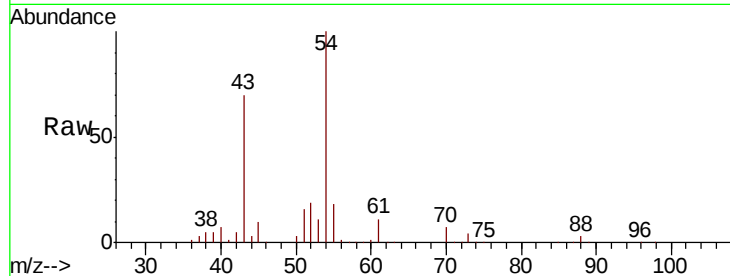
#37
Ethyl Acetate
Concen: 45.326 ug/l
RT: 6.94 min Scan# 1663
Delta R.T. 0.00 min
Lab File: VN050157.D
Acq: 28 Jul 2018 3:00

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
43	100		
61	14.3	11.8	17.8
70	10.7	8.4	12.6

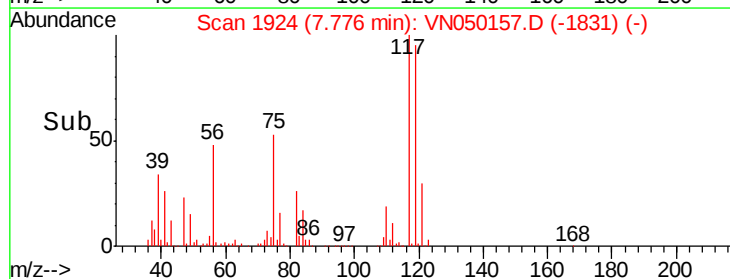
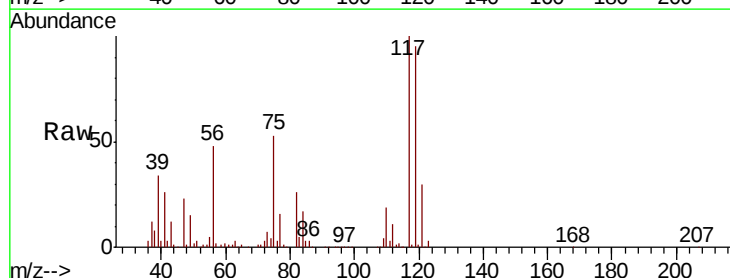
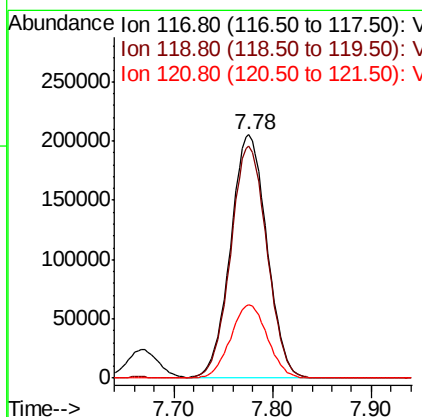
Manual Integrations
APPROVED

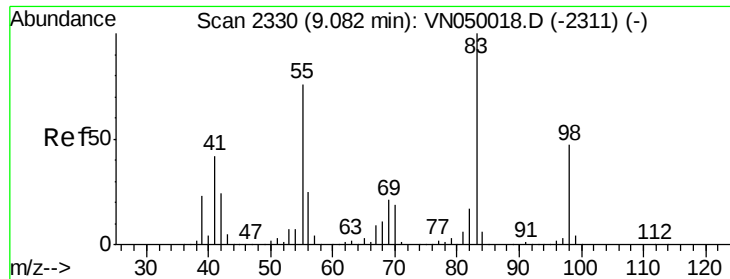
MMDadoda
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#38
Carbon Tetrachloride
Concen: 47.408 ug/l
RT: 7.78 min Scan# 1924
Delta R.T. 0.00 min
Lab File: VN050157.D
Acq: 28 Jul 2018 3:00

Tgt Ion	Ratio	Lower	Upper
117	100		
119	95.1	77.4	116.0
121	30.0	23.9	35.9





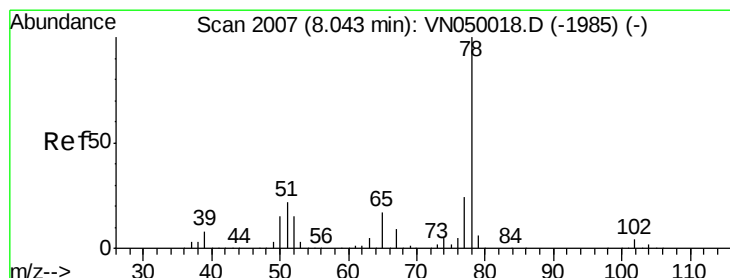
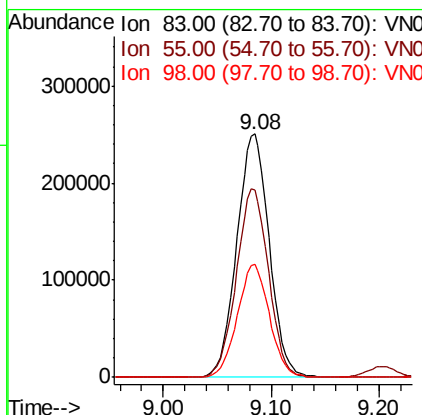
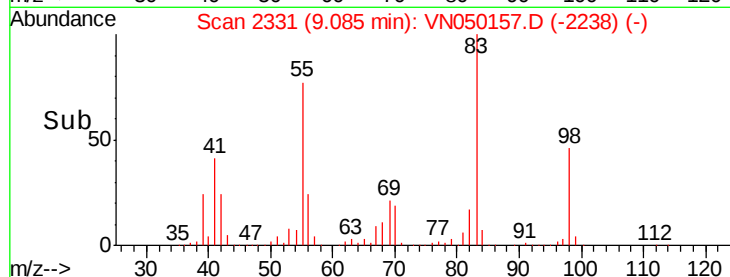
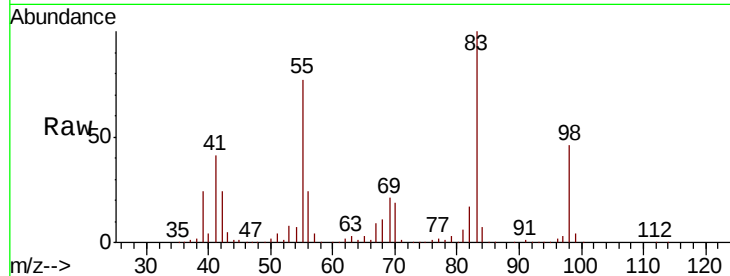
#39
Methvlcvclohexane
Concen: 48.652 ug/l
RT: 9.08 min Scan# 2331
Delta R.T. 0.00 min
Lab File: VN050157.D
Acq: 28 Jul 2018 3:00

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	83.00	Resp	524928
Ion Ratio	100	Lower	Upper
83	100		
55	77.1	61.8	92.8
98	46.3	36.5	54.7

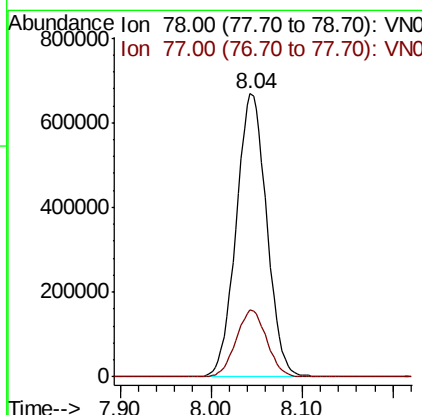
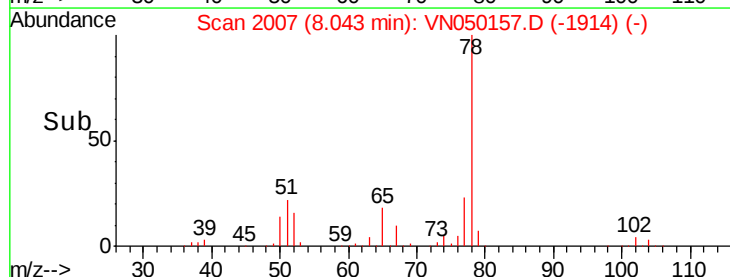
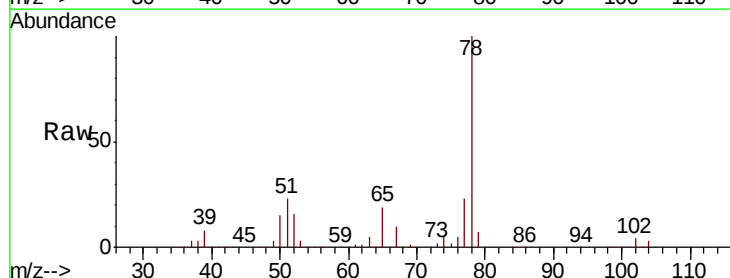
Manual Integrations
APPROVED

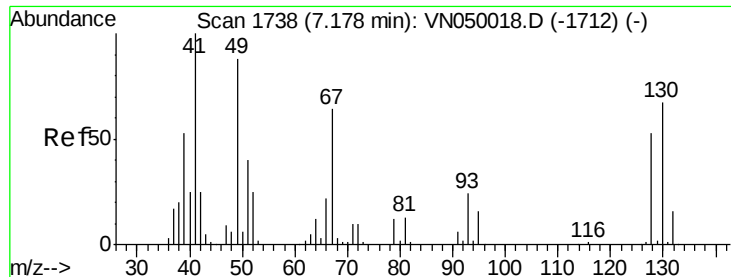
MMDadoda
7/30/2018 1:37:19 PM



#40
Benzene
Concen: 48.777 ug/l
RT: 8.04 min Scan# 2007
Delta R.T. 0.00 min
Lab File: VN050157.D
Acq: 28 Jul 2018 3:00

Tgt Ion	78	Resp	1556706
Ion Ratio	100	Lower	Upper
78	100		
77	23.5	18.7	28.1





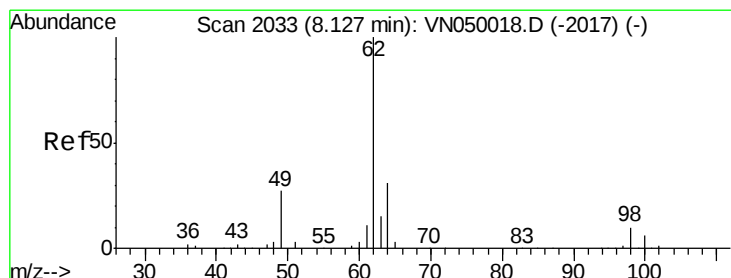
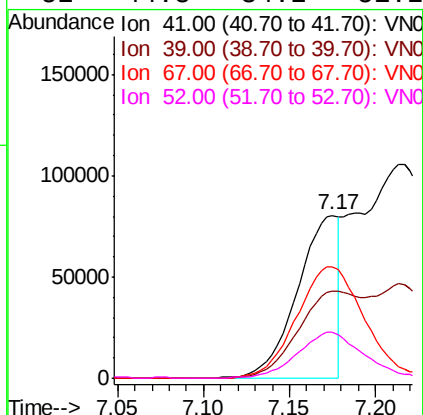
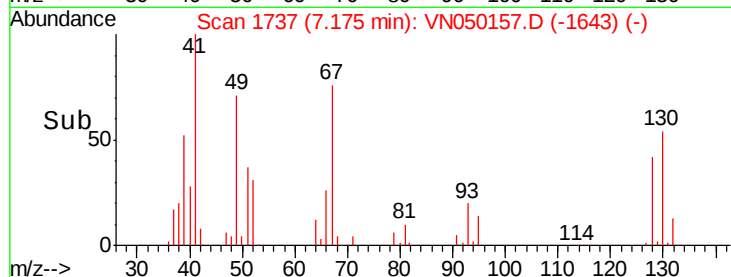
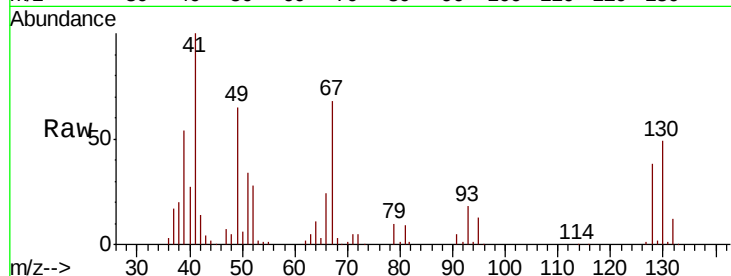
#41
Methacrylonitrile
Concen: 36.139 ug/l
RT: 7.17 min Scan# 1737
Delta R.T. 0.00 min
Lab File: VN050157.D
Acq: 28 Jul 2018 3:00

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
41	100		
39	82.4	55.8	83.6
67	112.3	84.3	126.5
52	44.8	34.2	51.2

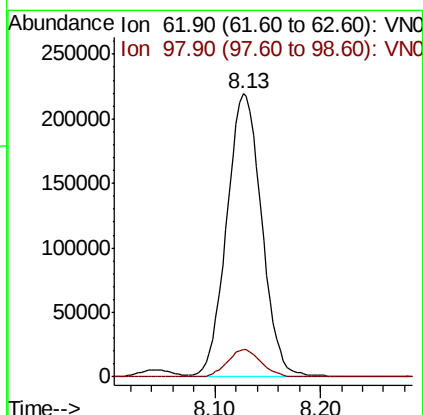
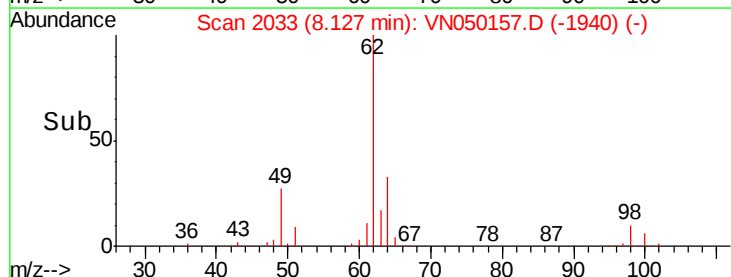
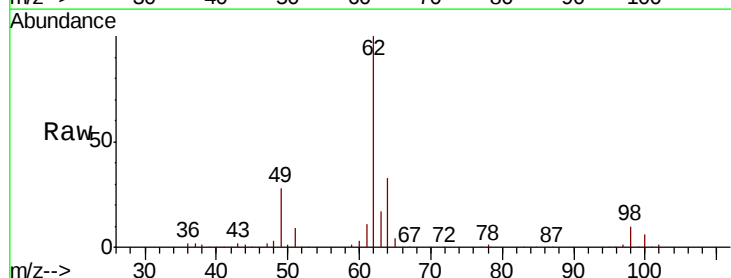
Manual Integrations
APPROVED

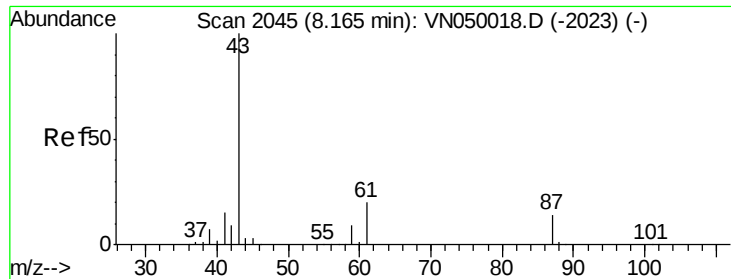
MMDadoda
7/30/2018 1:37:19 PM



#42
1,2-Dichloroethane
Concen: 47.109 ug/l
RT: 8.13 min Scan# 2033
Delta R.T. 0.00 min
Lab File: VN050157.D
Acq: 28 Jul 2018 3:00

Tgt Ion	Ratio	Lower	Upper
62	100		
98	9.4	0.0	18.8





#43

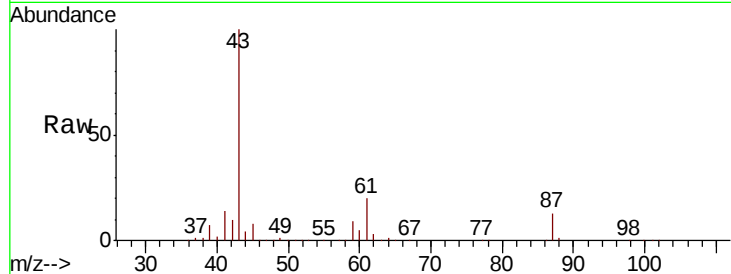
Isopropyl Acetate
 Concen: 49.666 ug/l
 RT: 8.17 min Scan# 2046
 Delta R.T. 0.00 min
 Lab File: VN050157.D
 Acq: 28 Jul 2018 3:00

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

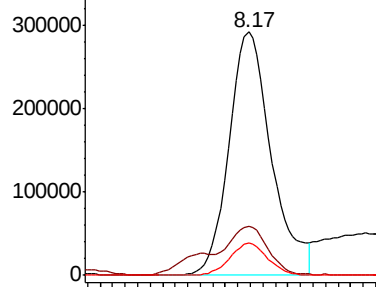
Tot Ion	Ratio	Lower	Upper
43	100		
61	18.2	15.8	23.6
87	12.0	10.3	15.5

Manual Integrations
 APPROVED

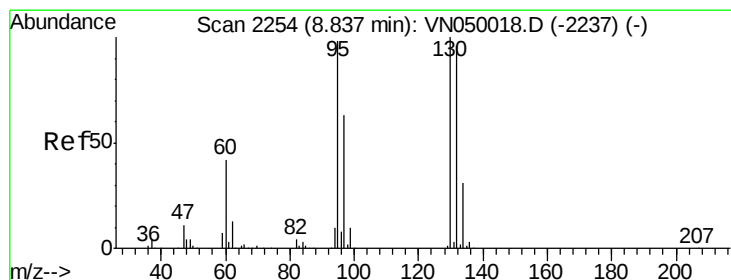
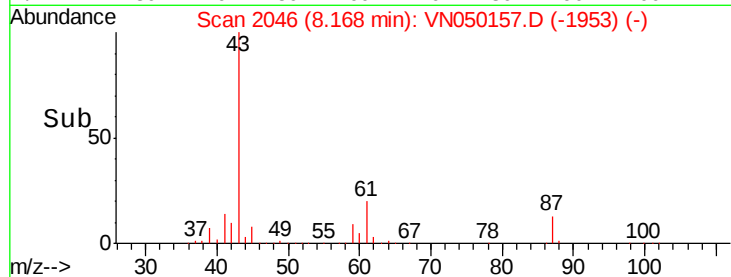
MMDadoda
 7/30/2018 1:37:19 PM



Abundance Ion 43.00 (42.70 to 43.70): VN050018.D (-2023) (-)
 Ion 61.00 (60.70 to 61.70): VN050018.D (-2023) (-)
 Ion 87.00 (86.70 to 87.70): VN050018.D (-2023) (-)



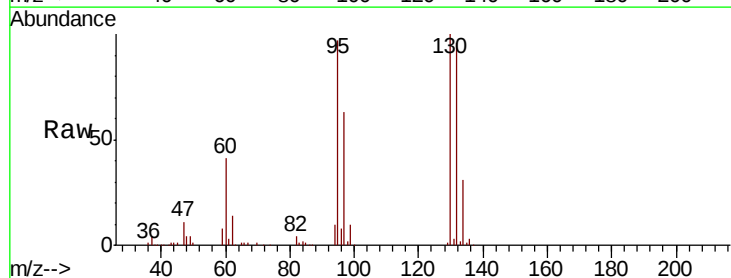
Time-->



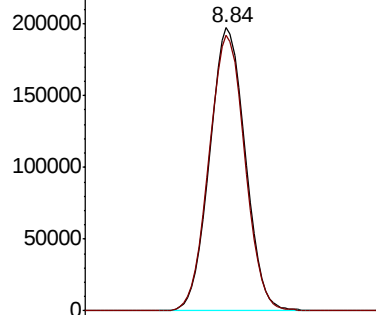
#44

Trichloroethene
 Concen: 46.375 ug/l
 RT: 8.84 min Scan# 2254
 Delta R.T. 0.00 min
 Lab File: VN050157.D
 Acq: 28 Jul 2018 3:00

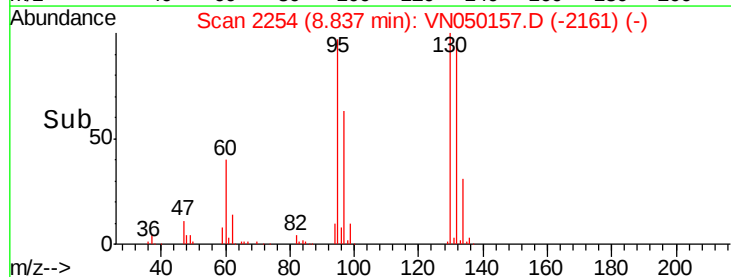
Tgt Ion	Ratio	Lower	Upper
130	100		
95	97.5	0.0	194.6

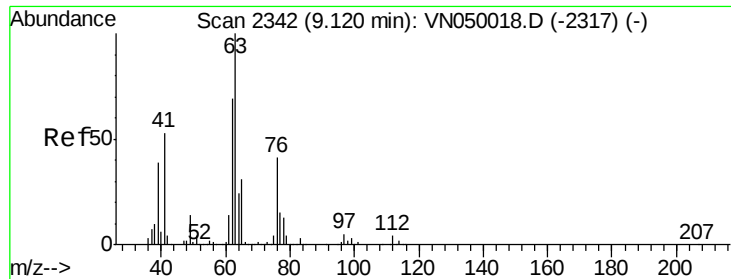


Abundance Ion 129.80 (129.50 to 130.50): VN050018.D (-2237) (-)
 Ion 94.90 (94.60 to 95.60): VN050018.D (-2237) (-)



Time-->





#45

1,2-Dichloropropane

Concen: 48.917 ug/l

RT: 9.12 min Scan# 2343

Delta R.T. 0.00 min

Lab File: VN050157.D

Acq: 28 Jul 2018 3:00

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 63 Resp: 413500

Ion Ratio Lower Upper

63 100

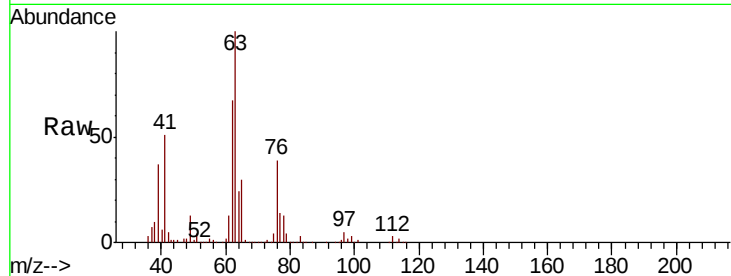
65 30.3 25.5 38.3

Manual Integrations

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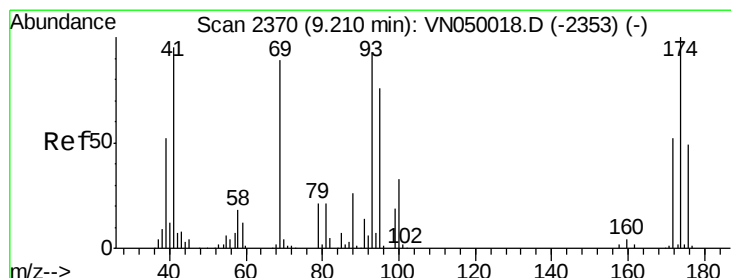
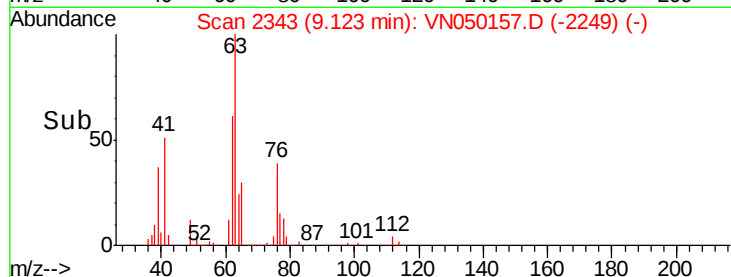
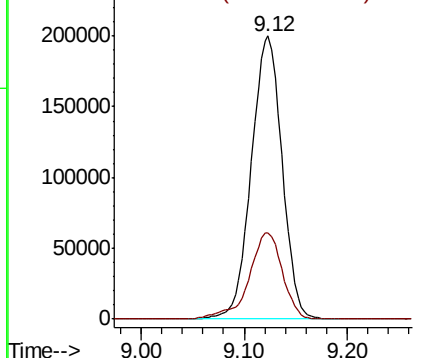
MMDadoda

7/30/2018 1:37:19 PM



Abundance Ion 62.90 (62.60 to 63.60): VNO

Ion 64.90 (64.60 to 65.60): VNO



#46

Dibromomethane

Concen: 47.821 ug/l

RT: 9.21 min Scan# 2370

Delta R.T. 0.00 min

Lab File: VN050157.D

Acq: 28 Jul 2018 3:00

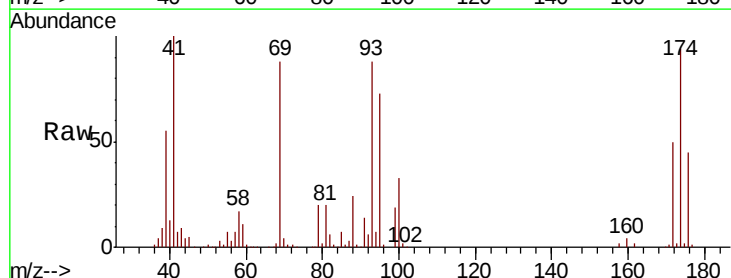
Tgt Ion: 93 Resp: 251006

Ion Ratio Lower Upper

93 100

95 83.5 66.6 100.0

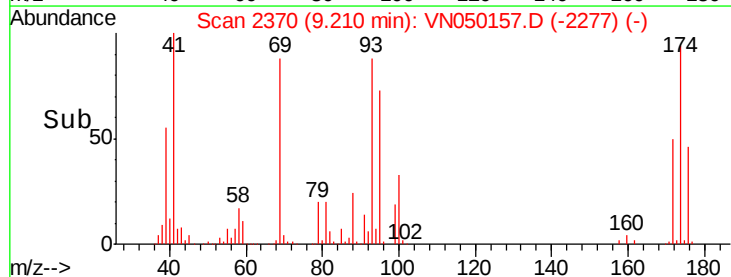
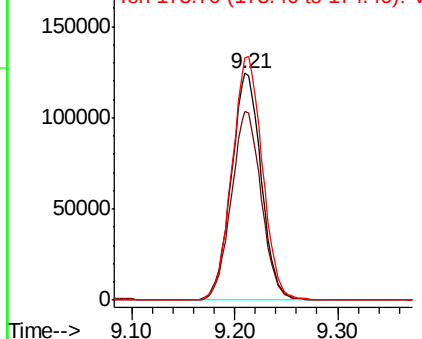
174 109.2 87.1 130.7

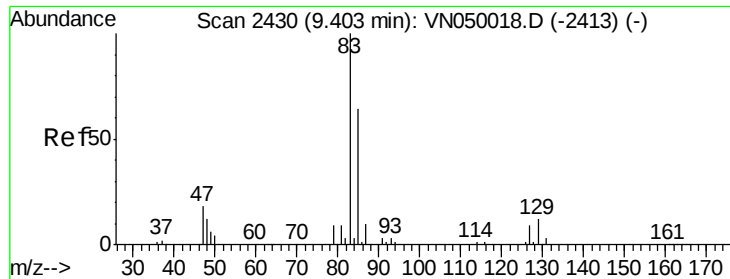


Abundance Ion 92.80 (92.50 to 93.50): VNO

Ion 94.80 (94.50 to 95.50): VNO

Ion 173.70 (173.40 to 174.40): VNO





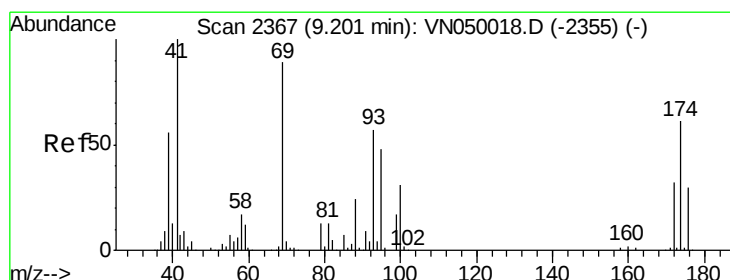
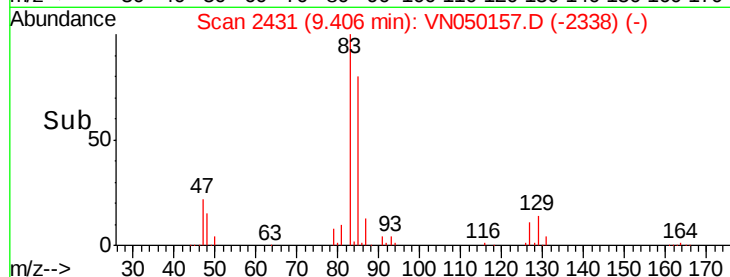
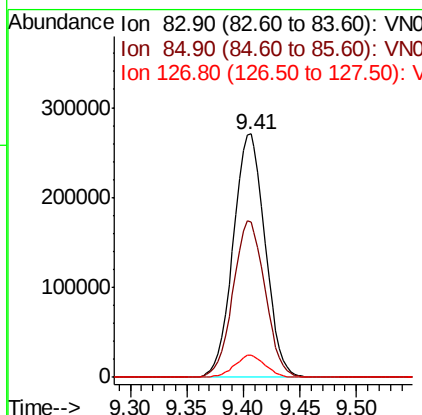
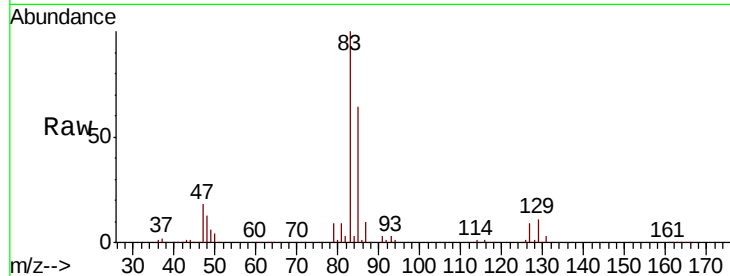
#47
Bromodichloromethane
Concen: 48.016 ug/l
RT: 9.41 min Scan# 2431
Delta R.T. 0.00 min
Lab File: VN050157.D
Acq: 28 Jul 2018 3:00

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
83	100			
85	63.9	51.1	76.7	
127	9.0	7.0	10.4	

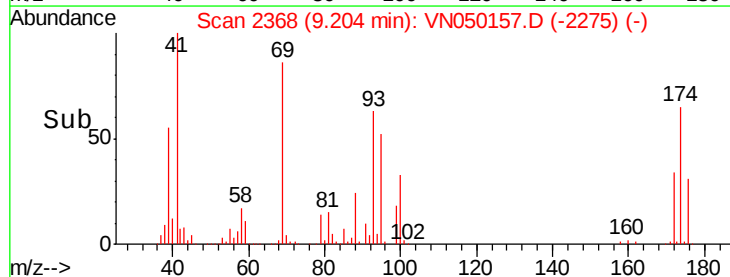
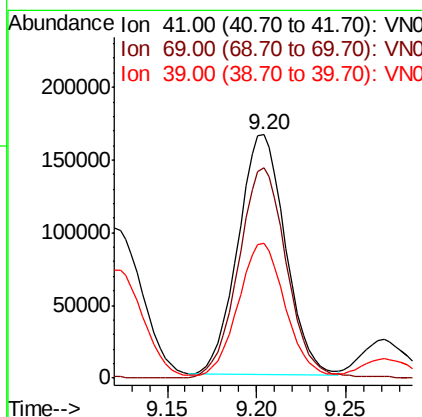
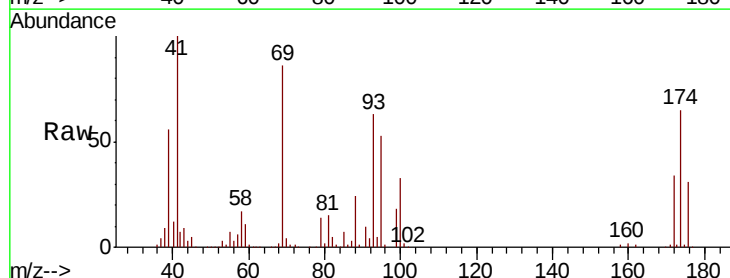
Manual Integrations
APPROVED

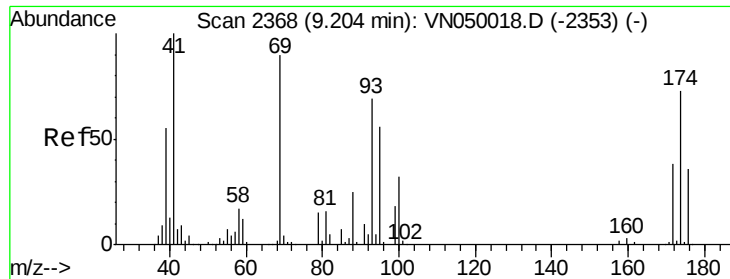
MMDadoda
7/30/2018 1:37:19 PM



#48
Methyl methacrylate
Concen: 48.747 ug/l
RT: 9.20 min Scan# 2368
Delta R.T. 0.00 min
Lab File: VN050157.D
Acq: 28 Jul 2018 3:00

Tgt Ion	Ratio	Resp	Lower	Upper
41	100			
69	89.4	70.6	105.8	
39	56.2	43.9	65.9	





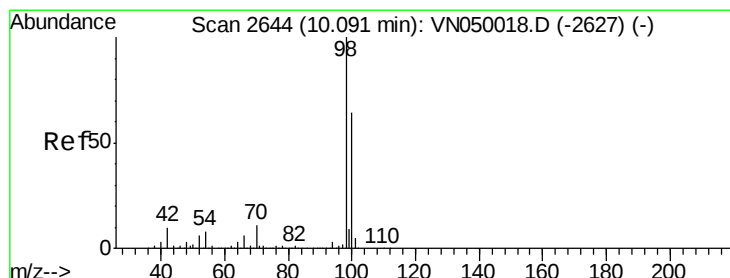
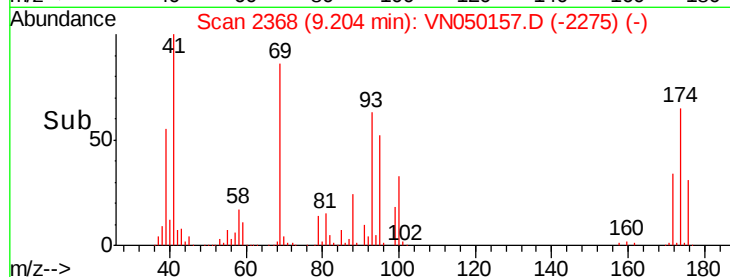
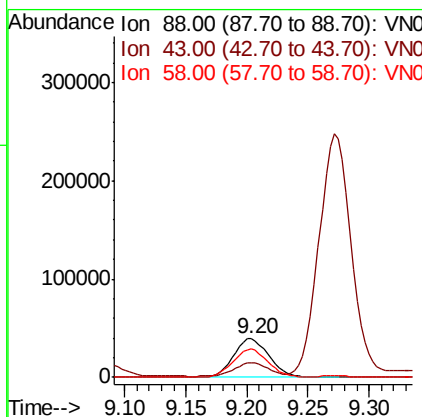
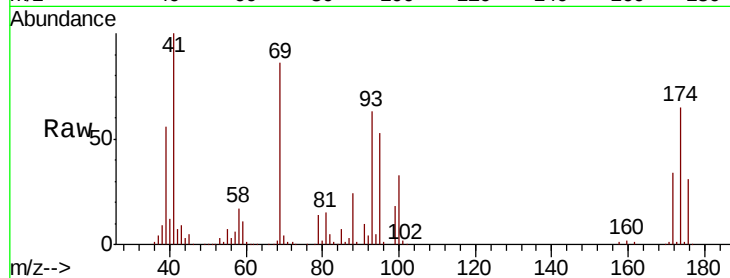
#49
 1,4-Dioxane
 Concen: 931.497 ug/l
 RT: 9.20 min Scan# 2368
 Delta R.T. 0.00 min
 Lab File: VN050157.D
 Acq: 28 Jul 2018 3:00

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
88	100		
43	32.8	26.9	40.3
58	72.3	57.3	85.9

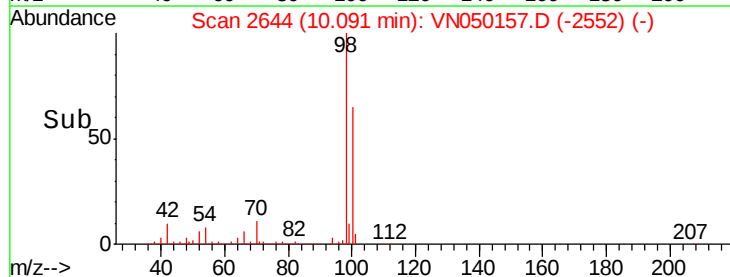
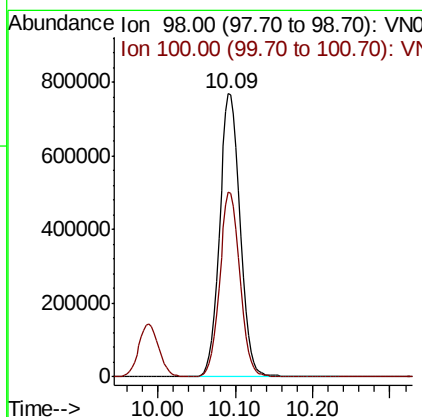
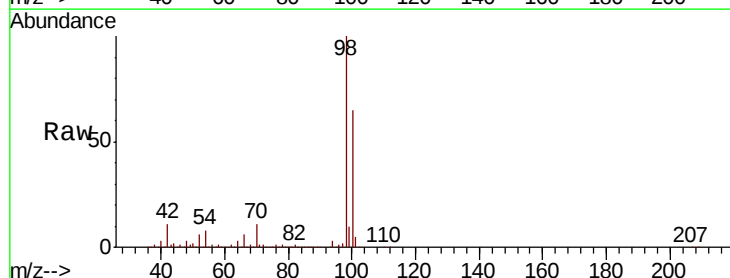
Manual Integrations
 APPROVED

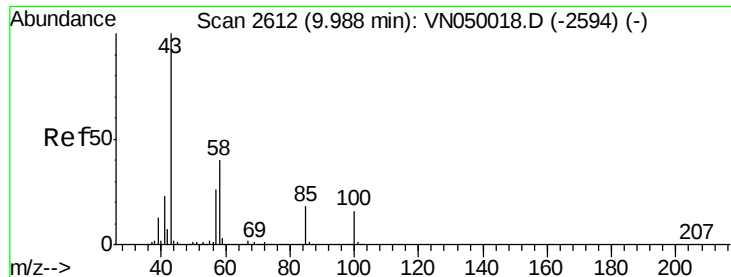
MMDadoda
 7/30/2018 1:37:19 PM



#50
 Toluene-d8
 Concen: 51.131 ug/l
 RT: 10.09 min Scan# 2644
 Delta R.T. -0.00 min
 Lab File: VN050157.D
 Acq: 28 Jul 2018 3:00

Tgt Ion	Ratio	Lower	Upper
98	100		
100	64.5	50.7	76.1





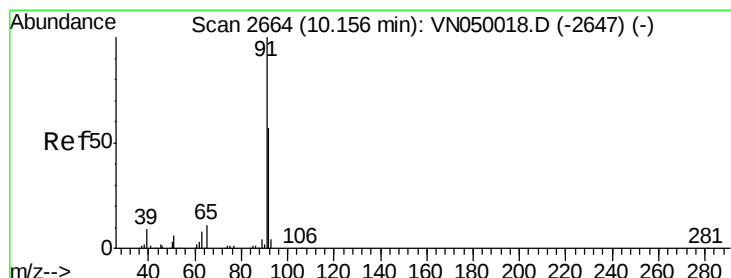
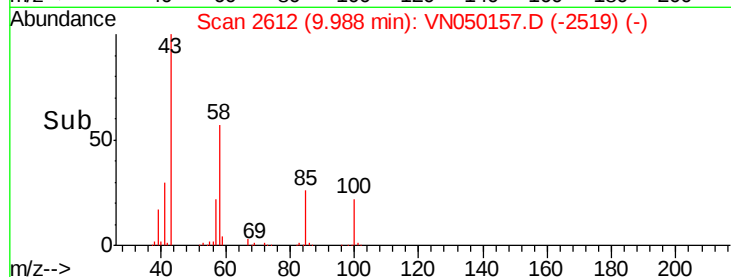
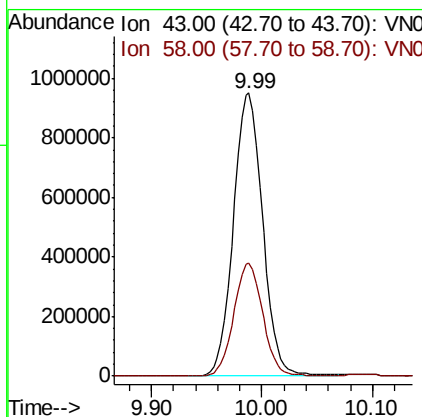
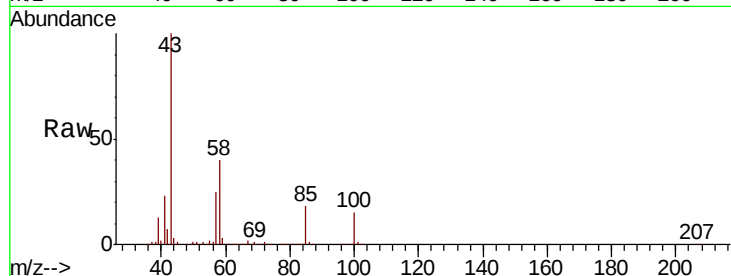
#51
4-Methyl-2-Pentanone
Concen: 242.517 ug/l
RT: 9.99 min Scan# 2612
Delta R.T. 0.00 min
Lab File: VN050157.D
Acq: 28 Jul 2018 3:00

Instrument :
MSVOA_N
ClientSampled :
VSTDCCC050

Tot Ion: 43 Resp: 1743294
Ion Ratio Lower Upper
43 100
58 39.7 31.9 47.9

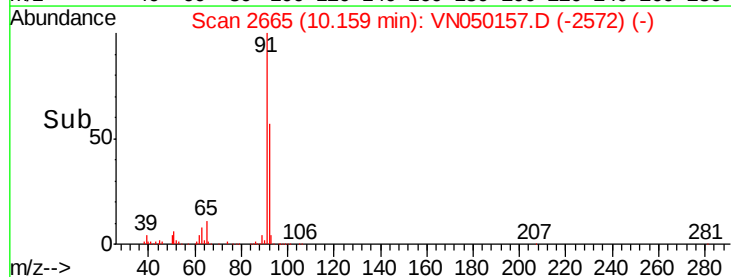
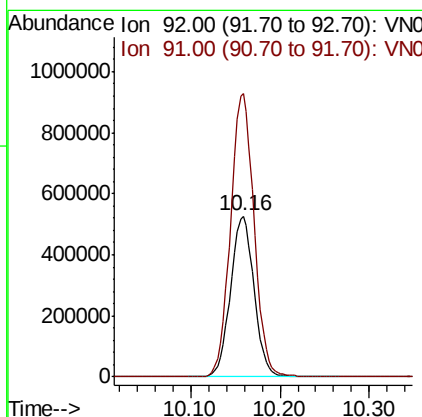
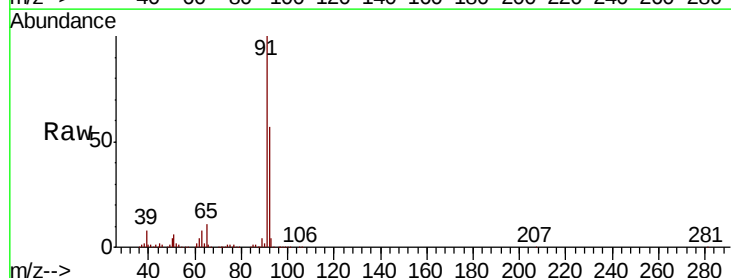
Manual Integrations
APPROVED

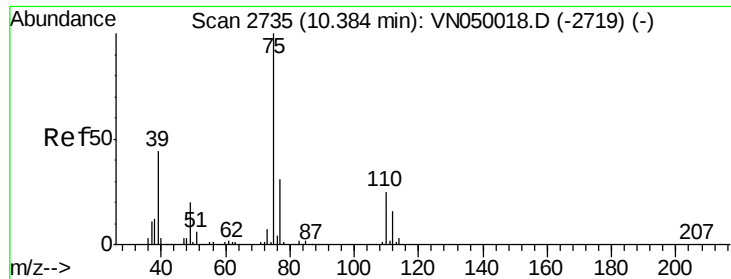
MMDadoda
7/30/2018 1:37:19 PM



#52
Toluene
Concen: 51.046 ug/l
RT: 10.16 min Scan# 2665
Delta R.T. 0.00 min
Lab File: VN050157.D
Acq: 28 Jul 2018 3:00

Tgt Ion: 92 Resp: 961642
Ion Ratio Lower Upper
92 100
91 176.0 140.3 210.5





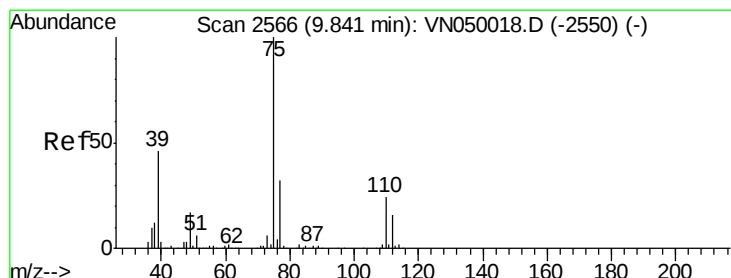
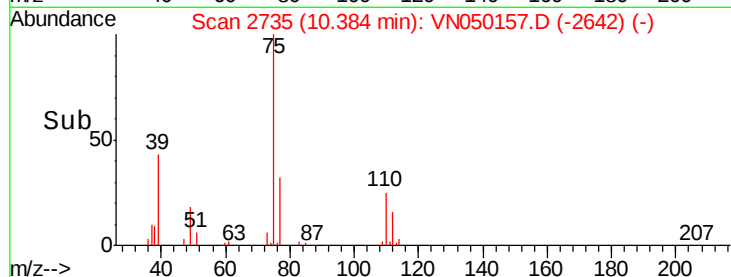
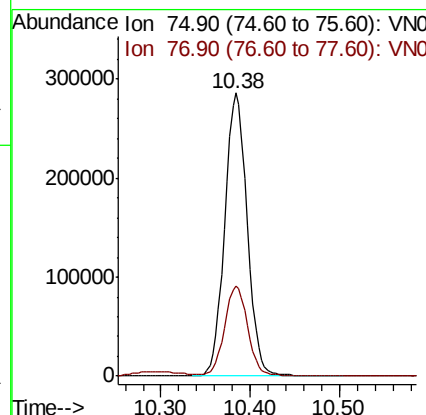
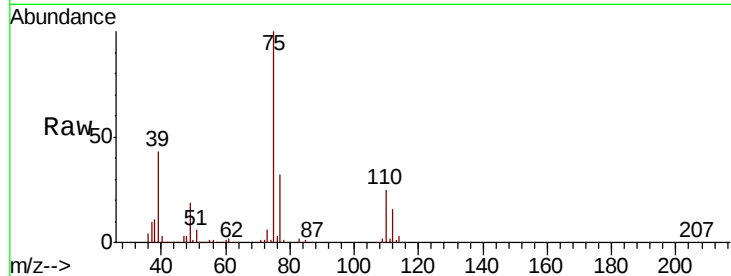
#53
t-1,3-Dichloropropene
Concen: 47.741 ug/l
RT: 10.38 min Scan# 2735
Delta R.T. 0.00 min
Lab File: VN050157.D
Acq: 28 Jul 2018 3:00

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
75	100		
77	31.6	24.9	37.3

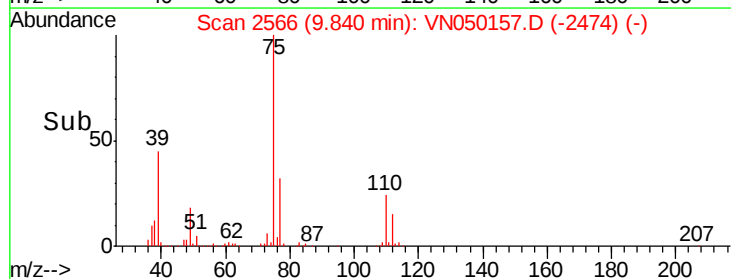
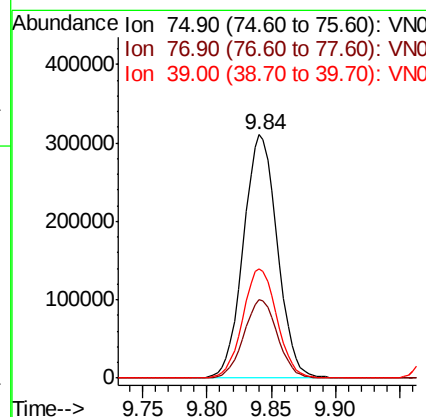
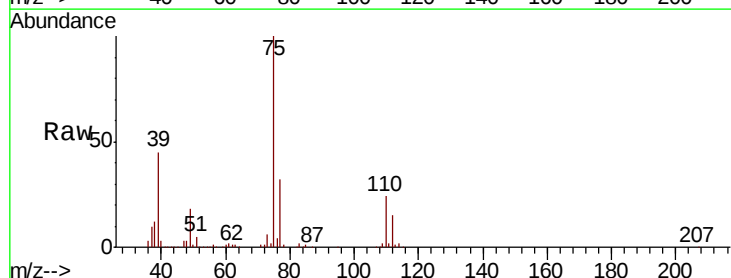
Manual Integrations
APPROVED

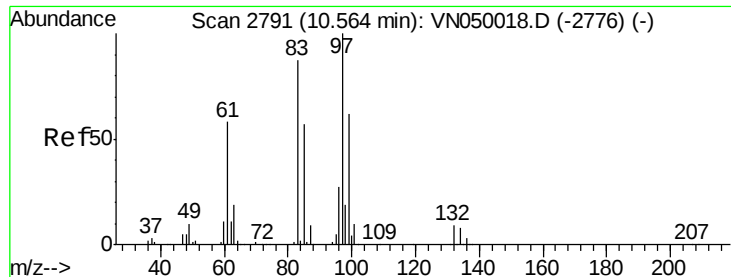
MMDadoda
7/30/2018 1:37:19 PM



#54
cis-1,3-Dichloropropene
Concen: 47.666 ug/l
RT: 9.84 min Scan# 2566
Delta R.T. -0.00 min
Lab File: VN050157.D
Acq: 28 Jul 2018 3:00

Tgt Ion	Ratio	Lower	Upper
75	100		
77	32.1	25.5	38.3
39	45.0	36.6	55.0





#55

1,1,2-Trichloroethane

Concen: 47.931 ug/l

RT: 10.56 min Scan# 2791

Delta R.T. -0.00 min

Lab File: VN050157.D

Acq: 28 Jul 2018 3:00

Instrument :

MSVOA_N

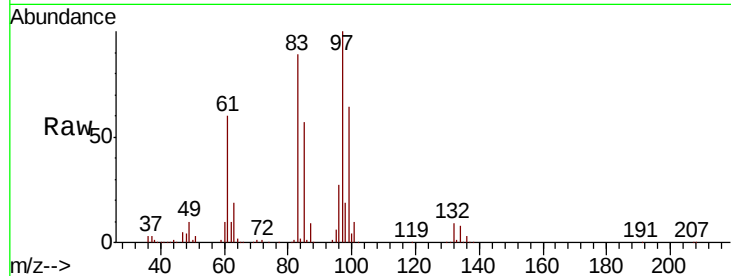
ClientSampleId :

VSTDCCC050

Tot Ion:	97	Resp:	358160
Ion	Ratio	Lower	Upper
97	100		
83	88.5	69.2	103.8
85	56.5	44.0	66.0
99	63.8	49.9	74.9

Manual Integrations
APPROVED

MMDadoda
7/30/2018 1:37:19 PM



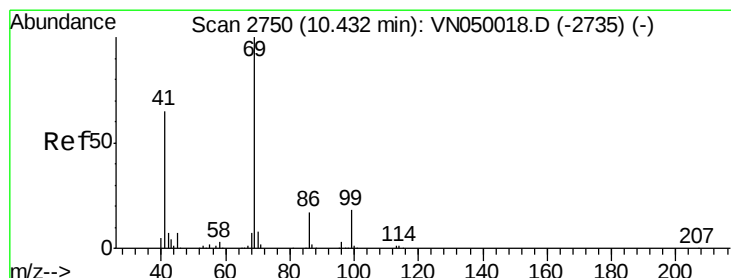
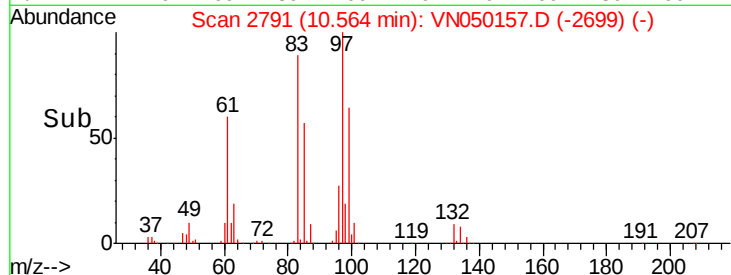
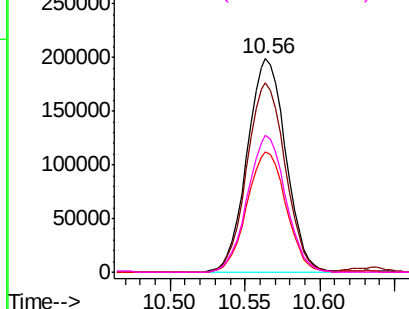
Abundance

Ion 96.90 (96.60 to 97.60): VNO

Ion 82.90 (82.60 to 83.60): VNO

Ion 84.90 (84.60 to 85.60): VNO

Ion 98.90 (98.60 to 99.60): VNO



#56

Ethyl methacrylate

Concen: 45.749 ug/l

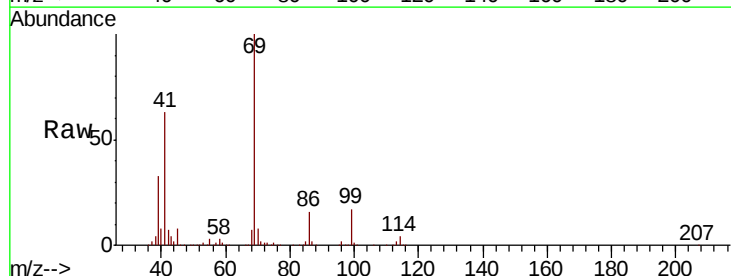
RT: 10.43 min Scan# 2750

Delta R.T. 0.00 min

Lab File: VN050157.D

Acq: 28 Jul 2018 3:00

Tgt Ion:	69	Resp:	461259
Ion	Ratio	Lower	Upper
69	100		
41	63.8	51.0	76.4
39	32.9	26.6	40.0

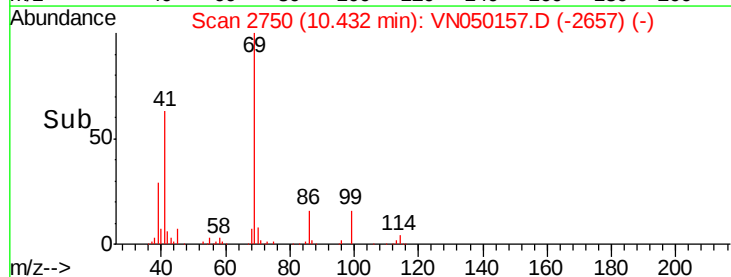
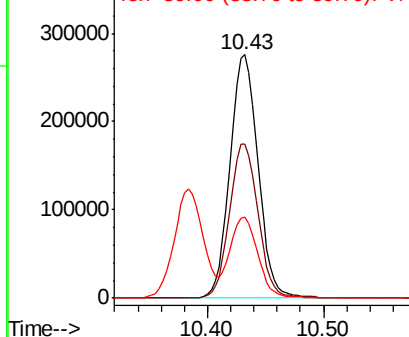


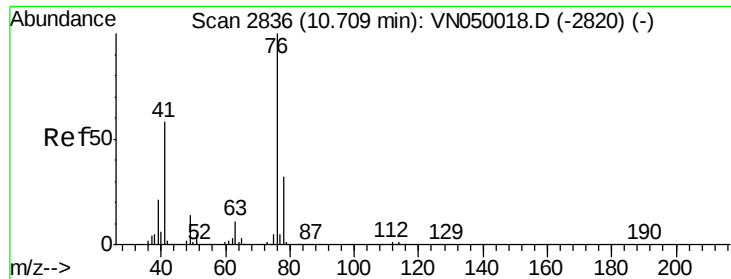
Abundance

Ion 69.00 (68.70 to 69.70): VNO

Ion 41.00 (40.70 to 41.70): VNO

Ion 39.00 (38.70 to 39.70): VNO





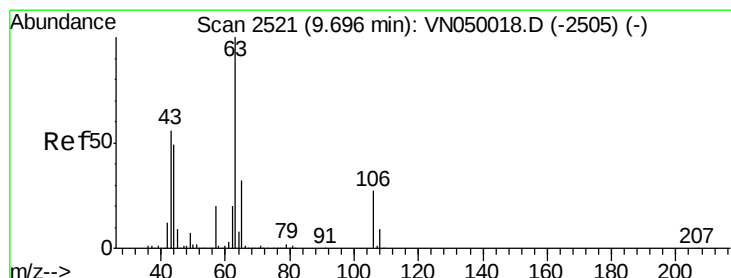
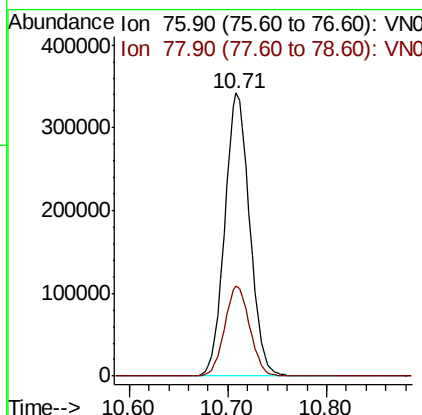
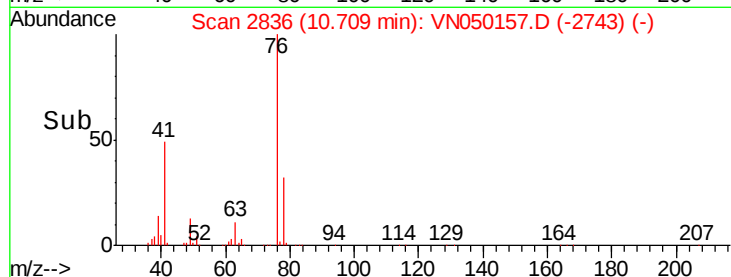
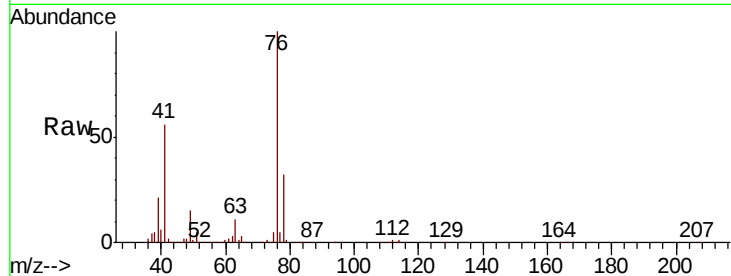
#57
 1,3-Dichloropropane
 Concen: 49.732 ug/l
 RT: 10.71 min Scan# 2836
 Delta R.T. 0.00 min
 Lab File: VN050157.D
 Acq: 28 Jul 2018 3:00

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion: 76 Resp: 605136
 Ion Ratio Lower Upper
 76 100
 78 32.3 25.7 38.5

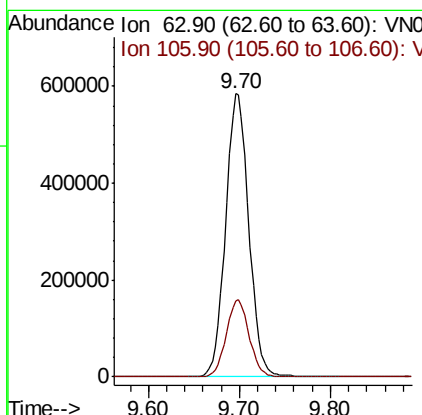
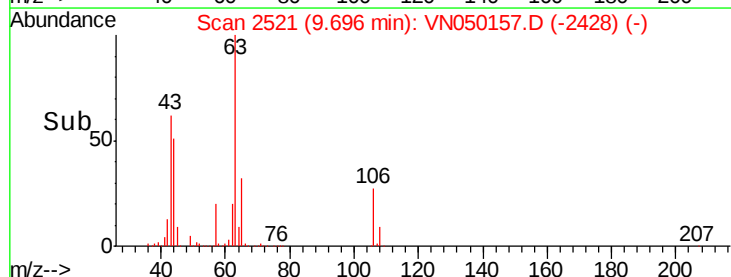
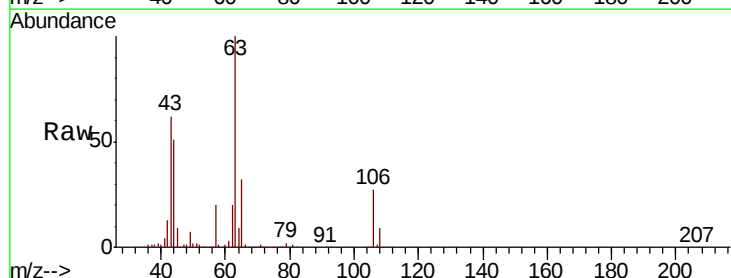
Manual Integrations
 APPROVED

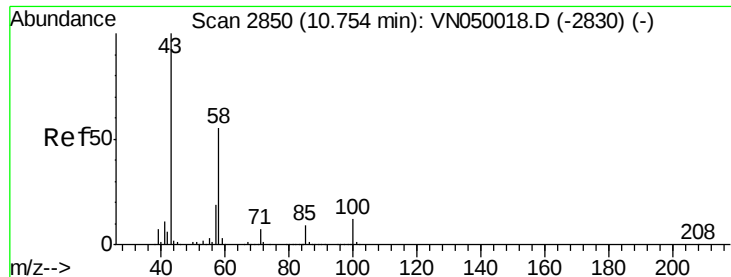
MMDadoda
 7/30/2018 1:37:19 PM



#58
 2-Chloroethyl Vinyl ether
 Concen: 219.975 ug/l
 RT: 9.70 min Scan# 2521
 Delta R.T. -0.00 min
 Lab File: VN050157.D
 Acq: 28 Jul 2018 3:00

Tgt Ion: 63 Resp: 1035263
 Ion Ratio Lower Upper
 63 100
 106 26.8 21.7 32.5





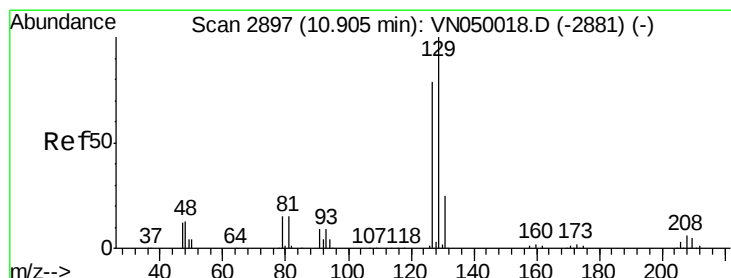
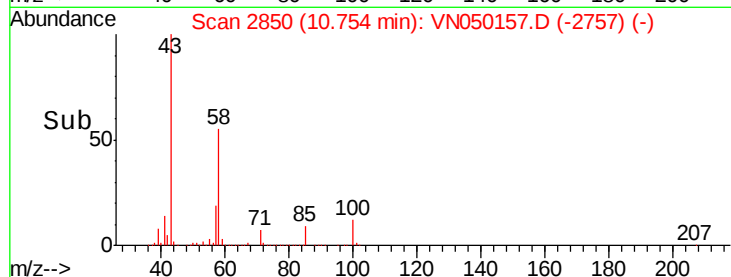
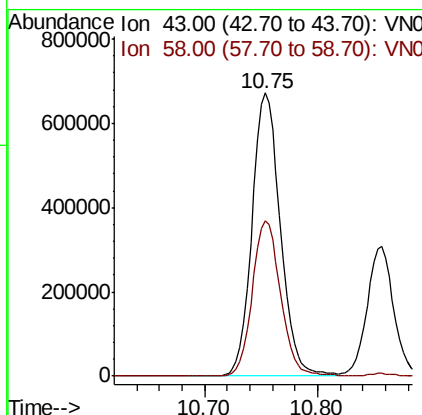
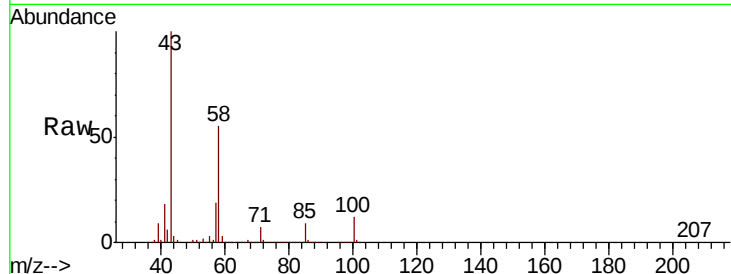
#59
2-Hexanone
Concen: 221.317 ug/l
RT: 10.75 min Scan# 2850
Delta R.T. 0.00 min
Lab File: VN050157.D
Acq: 28 Jul 2018 3:00

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion: 43 Resp: 1165814
Ion Ratio Lower Upper
43 100
58 55.0 27.6 82.7

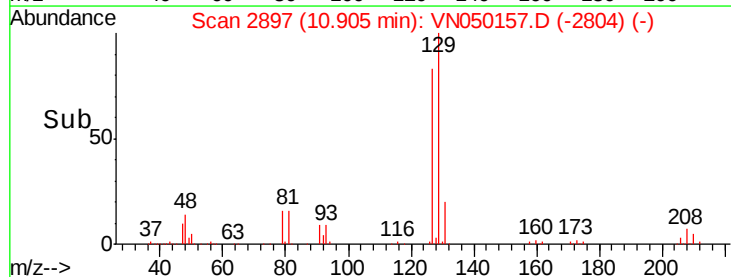
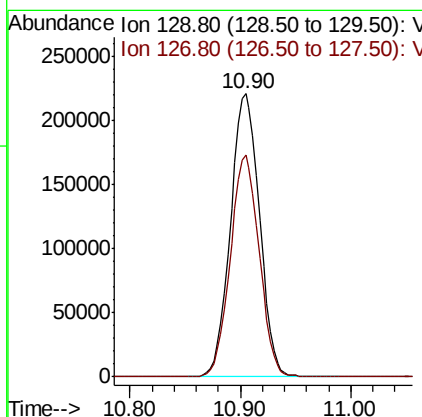
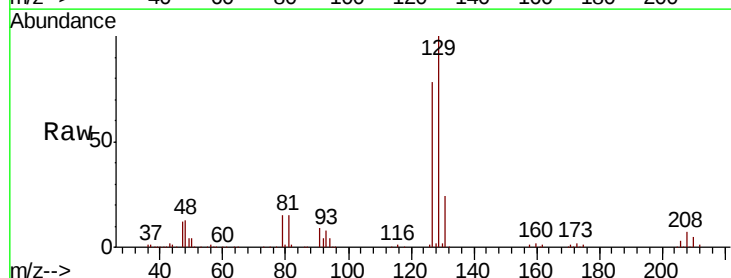
Manual Integrations
APPROVED

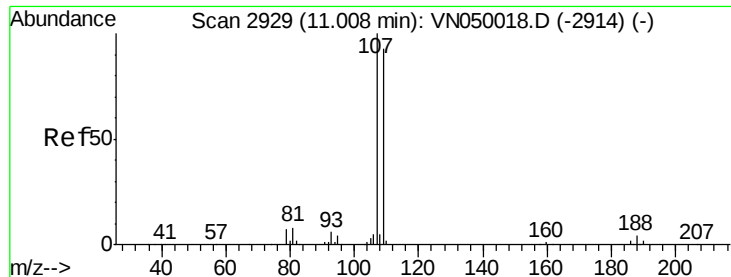
MMDadoda
7/30/2018 1:37:19 PM



#60
Dibromochloromethane
Concen: 48.735 ug/l
RT: 10.90 min Scan# 2897
Delta R.T. 0.00 min
Lab File: VN050157.D
Acq: 28 Jul 2018 3:00

Tgt Ion: 129 Resp: 403188
Ion Ratio Lower Upper
129 100
127 77.9 38.0 113.9





#61

1,2-Dibromoethane

Concen: 47.548 ug/l

RT: 11.01 min Scan# 2929

Delta R.T. 0.00 min

Lab File: VN050157.D

Acq: 28 Jul 2018 3:00

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 107 Resp: 352521

Ion Ratio Lower Upper

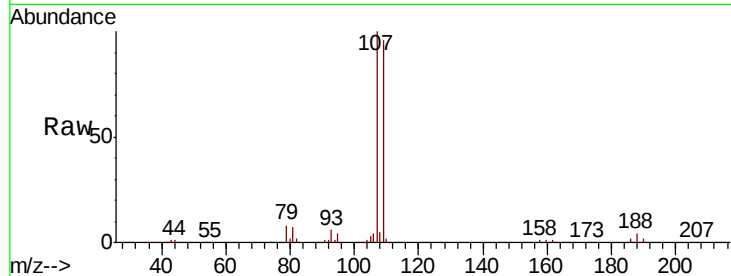
107 100

109 96.1 74.6 112.0

Manual Integrations
APPROVED

MMDadoda

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Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V

200000

150000

100000

50000

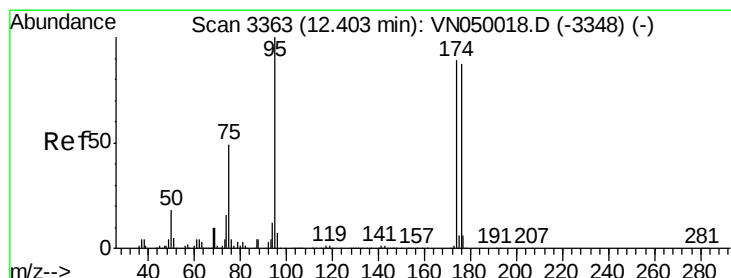
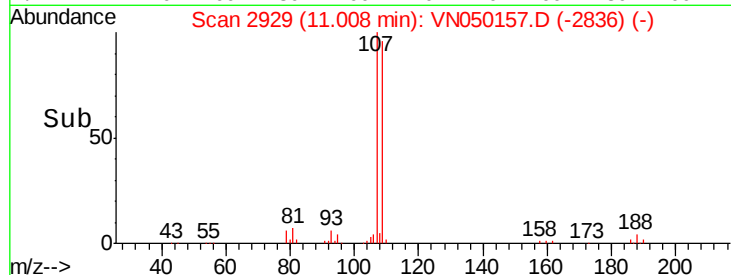
0

11.01

10.90

11.10

Time-->



#62

4-Bromofluorobenzene

Concen: 52.625 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.00 min

Lab File: VN050157.D

Acq: 28 Jul 2018 3:00

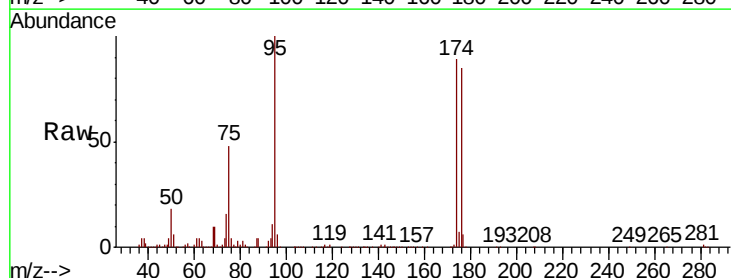
Tgt Ion: 95 Resp: 484198

Ion Ratio Lower Upper

95 100

174 89.4 0.0 178.2

176 86.1 0.0 173.4



Abundance Ion 94.90 (94.60 to 95.60): V

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

400000

300000

200000

100000

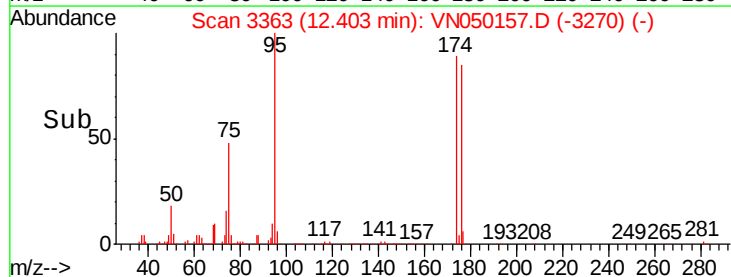
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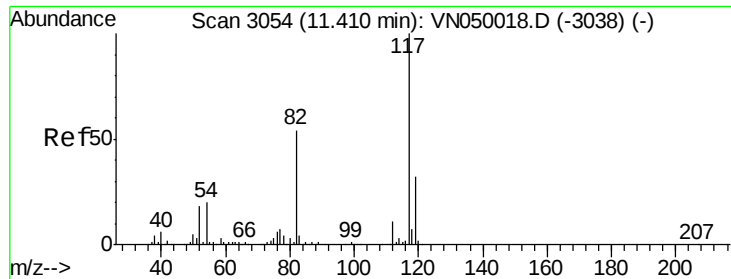
12.40

12.35

12.45

Time-->





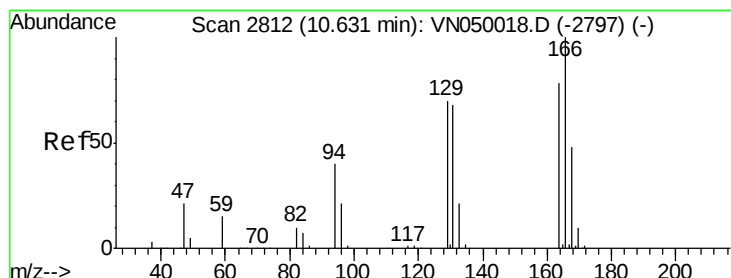
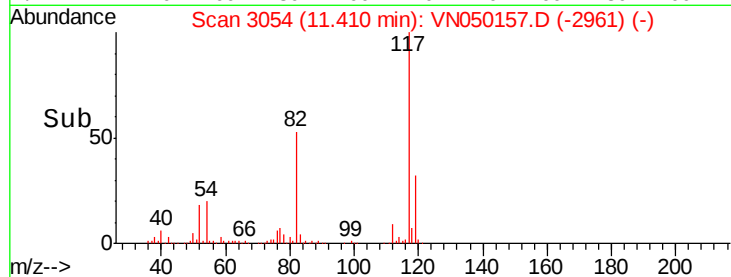
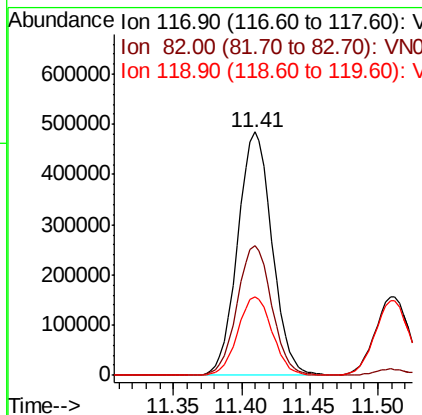
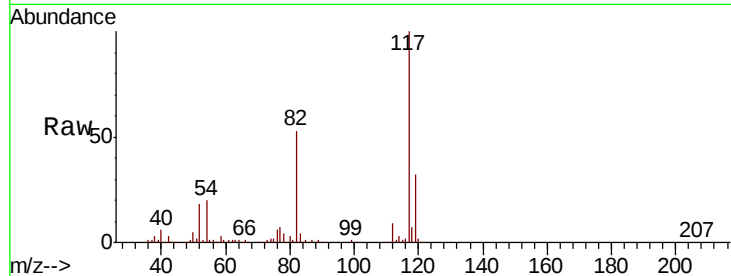
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. 0.00 min
Lab File: VN050157.D
Acq: 28 Jul 2018 3:00

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
117	100		
82	53.4	43.7	65.5
119	32.2	26.1	39.1

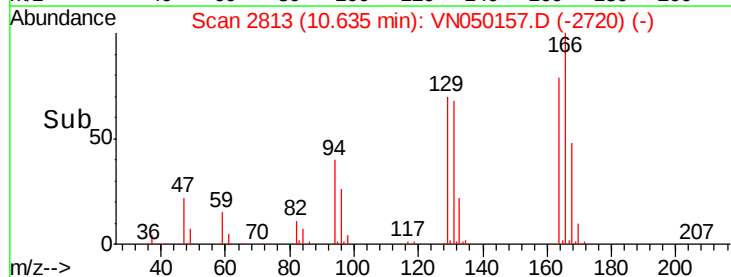
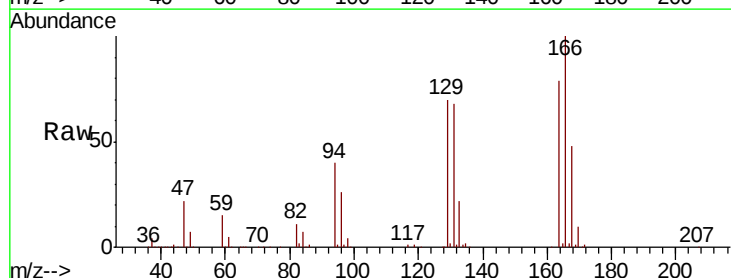
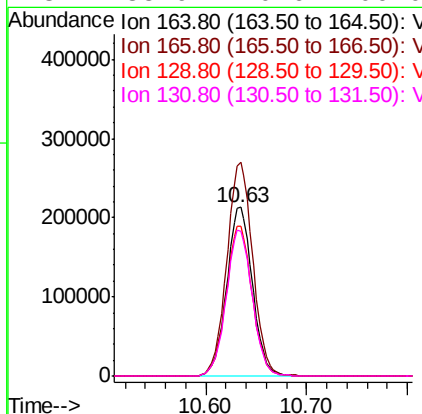
Manual Integrations
APPROVED

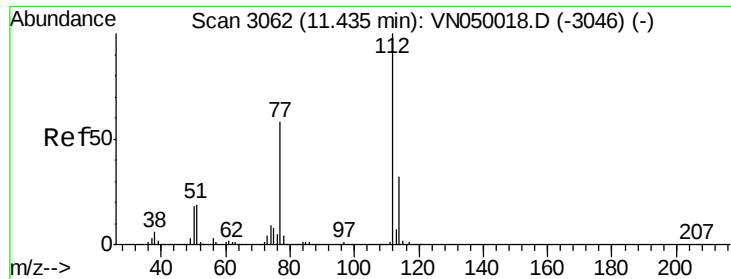
MMDadoda
7/30/2018 1:37:19 PM



#64
Tetrachloroethene
Concen: 46.461 ug/l
RT: 10.63 min Scan# 2813
Delta R.T. 0.00 min
Lab File: VN050157.D
Acq: 28 Jul 2018 3:00

Tgt Ion	Ratio	Lower	Upper
164	100		
166	126.7	102.1	153.1
129	88.6	73.2	109.8
131	85.9	70.6	106.0





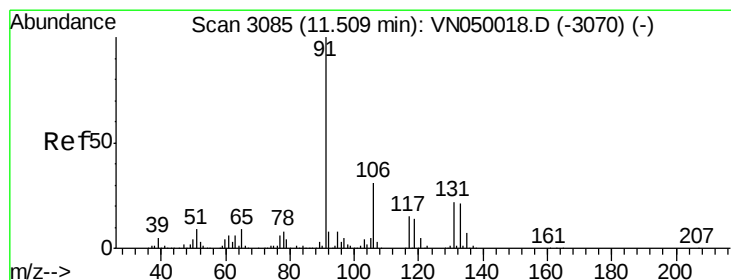
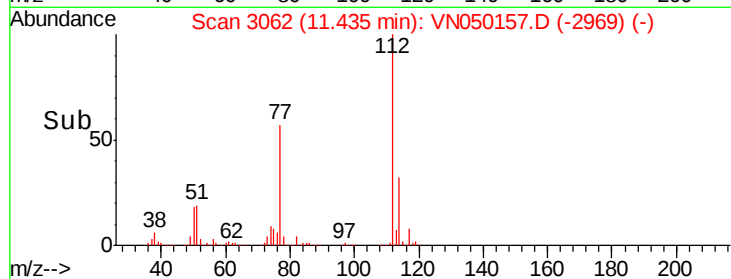
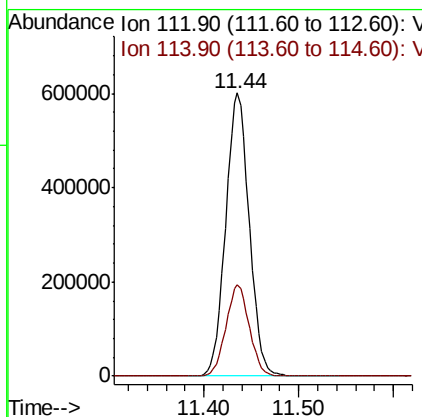
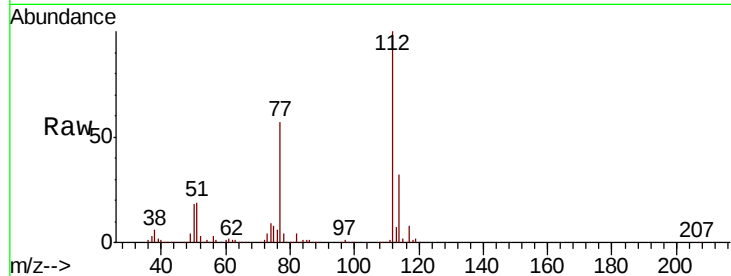
#65
Chlorobenzene
Concen: 48.250 ug/l
RT: 11.44 min Scan# 3062
Delta R.T. 0.00 min
Lab File: VN050157.D
Acq: 28 Jul 2018 3:00

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion:112 Resp: 1037420
Ion Ratio Lower Upper
112 100
114 32.3 25.6 38.4

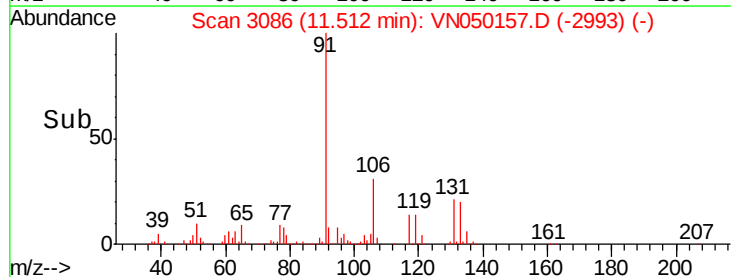
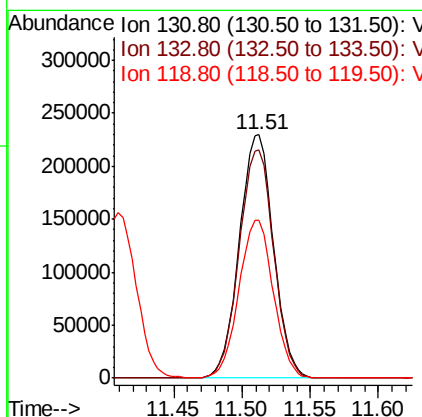
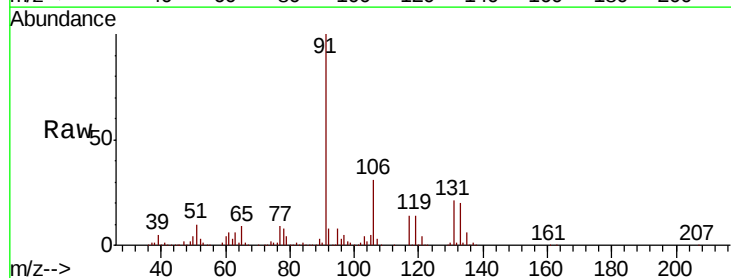
Manual Integrations
APPROVED

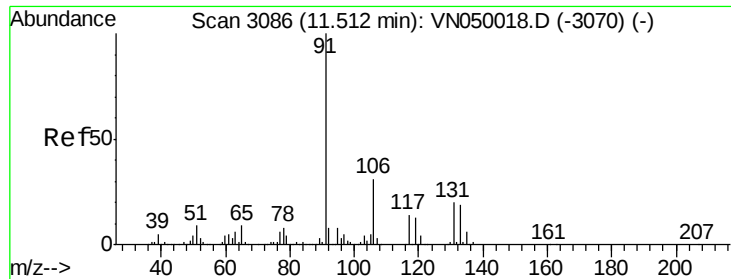
MMDadoda
7/30/2018 1:37:19 PM



#66
1,1,1,2-Tetrachloroethane
Concen: 48.406 ug/l
RT: 11.51 min Scan# 3086
Delta R.T. 0.00 min
Lab File: VN050157.D
Acq: 28 Jul 2018 3:00

Tgt Ion:131 Resp: 399893
Ion Ratio Lower Upper
131 100
133 94.8 47.3 141.9
119 65.3 32.9 98.7





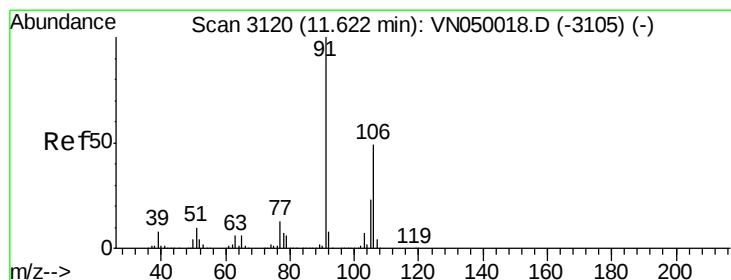
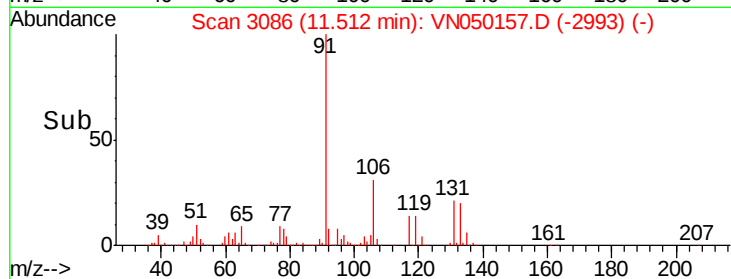
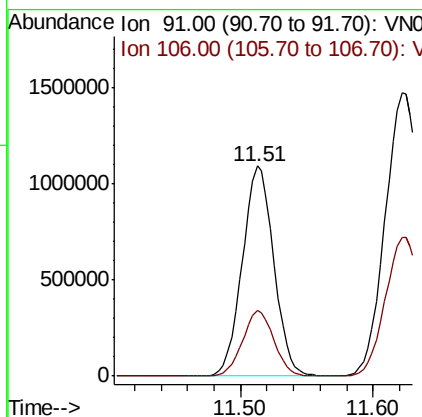
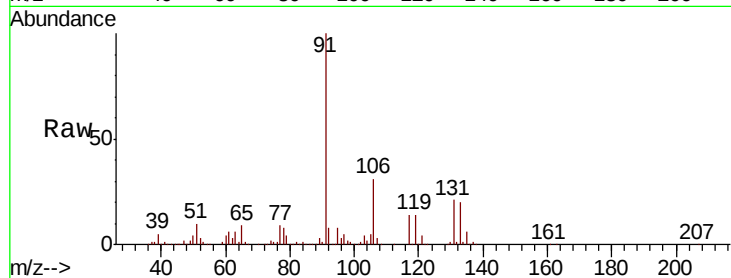
#67
Ethyl Benzene
Concen: 52.128 ug/l
RT: 11.51 min Scan# 3086
Delta R.T. 0.00 min
Lab File: VN050157.D
Acq: 28 Jul 2018 3:00

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion: 91 Resp: 1800402
Ion Ratio Lower Upper
91 100
106 31.1 25.0 37.4

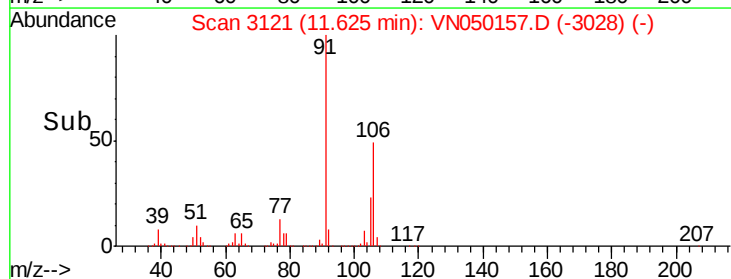
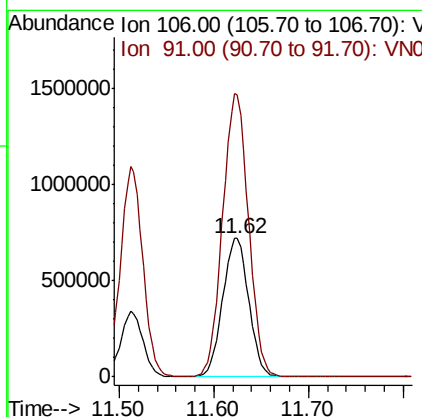
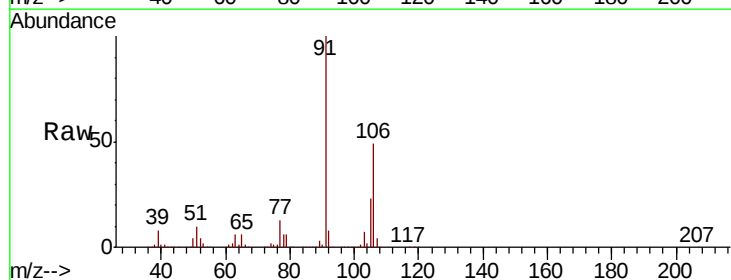
Manual Integrations
APPROVED

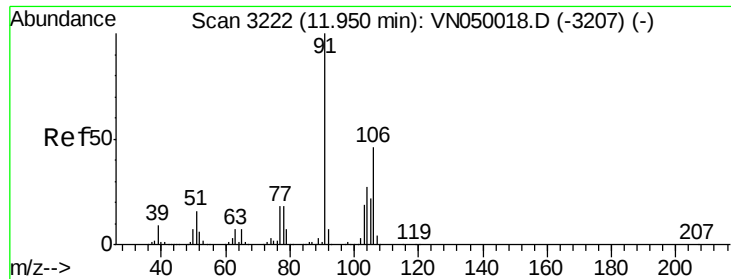
MMDadoda
7/30/2018 1:37:19 PM



#68
m/p-Xylenes
Concen: 105.404 ug/l
RT: 11.62 min Scan# 3121
Delta R.T. 0.00 min
Lab File: VN050157.D
Acq: 28 Jul 2018 3:00

Tgt Ion: 106 Resp: 1376979
Ion Ratio Lower Upper
106 100
91 203.4 162.2 243.2





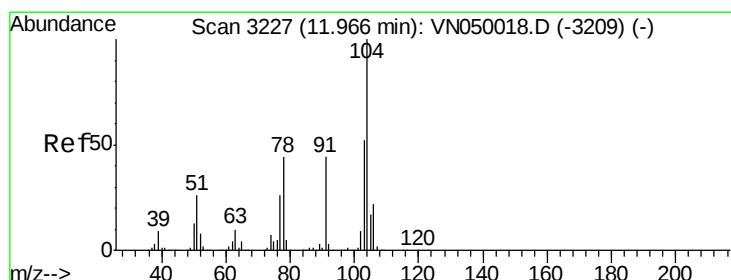
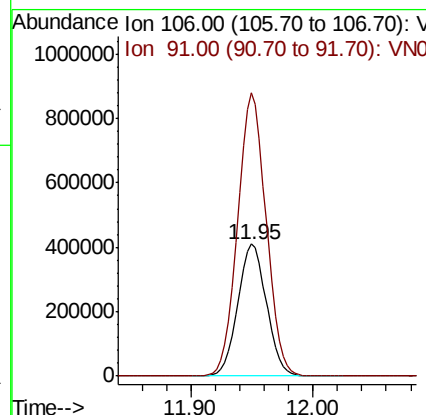
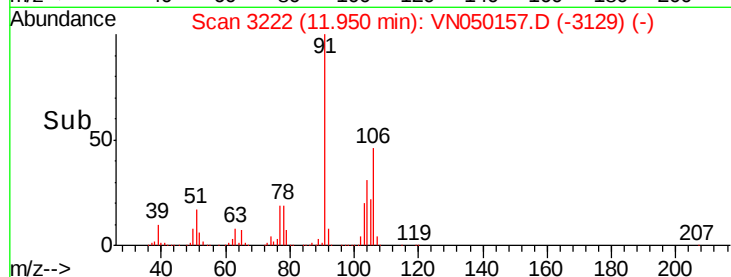
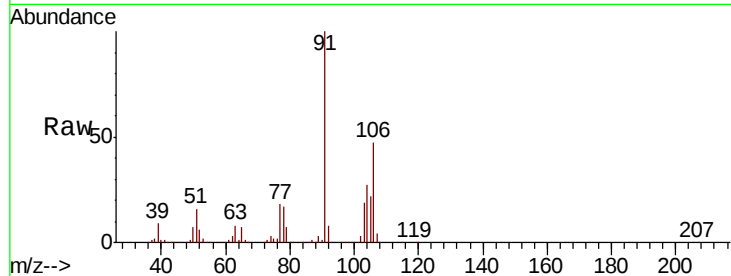
#69
o-Xylene
Concen: 53.639 ug/l
RT: 11.95 min Scan# 3222
Delta R.T. 0.00 min
Lab File: VN050157.D
Acq: 28 Jul 2018 3:00

Instrument :
MSVOA_N
ClientSampled :
VSTDCCC050

Tot Ion	Ion	Ratio	Lower	Upper
106	100			
91	213.1	107.7	323.1	

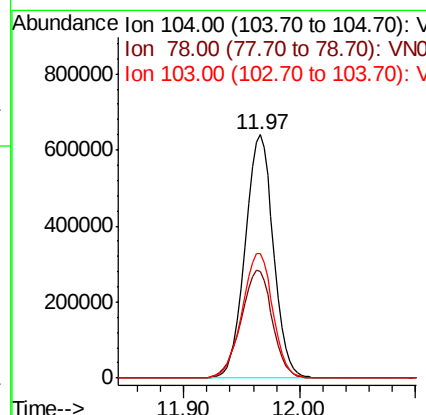
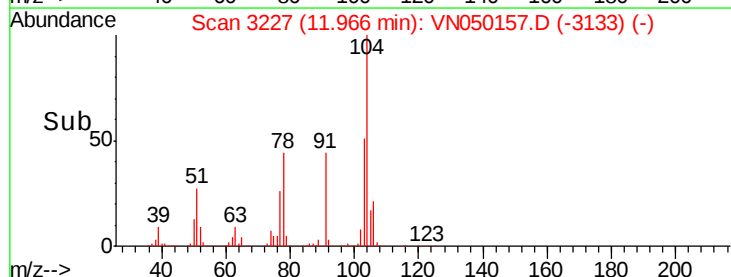
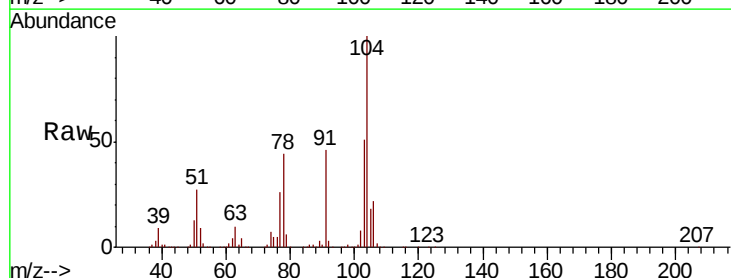
Manual Integrations
APPROVED

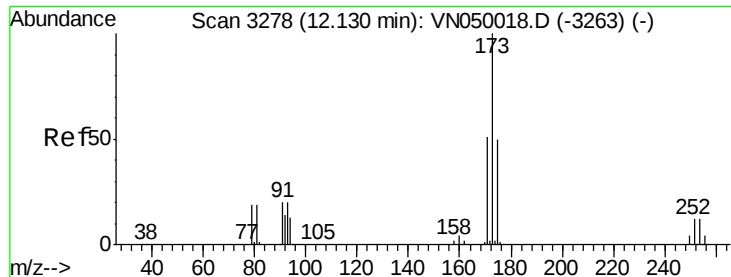
MMDadoda
7/30/2018 1:37:19 PM



#70
Styrene
Concen: 49.030 ug/l
RT: 11.97 min Scan# 3227
Delta R.T. 0.00 min
Lab File: VN050157.D
Acq: 28 Jul 2018 3:00

Tgt Ion	Ion	Ratio	Lower	Upper
104	100			
78	49.0	39.3	58.9	
103	55.8	45.0	67.6	





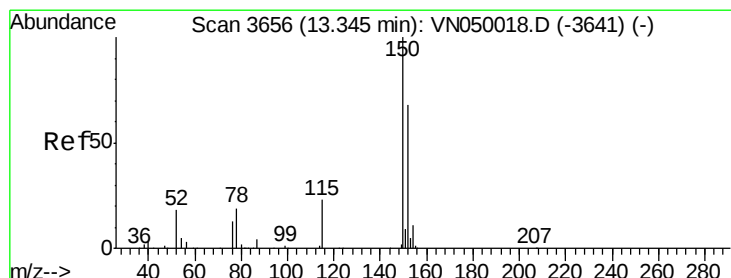
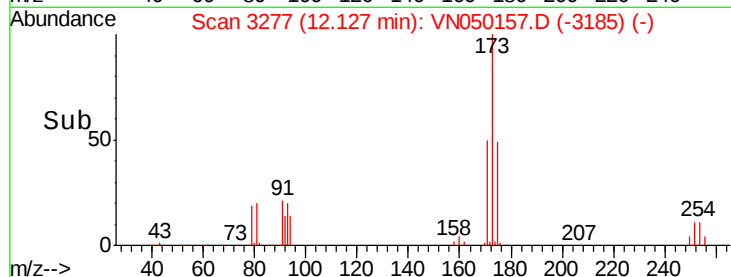
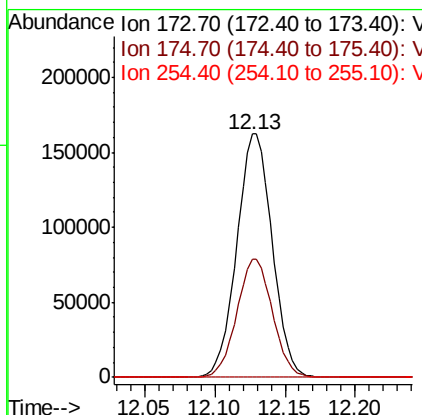
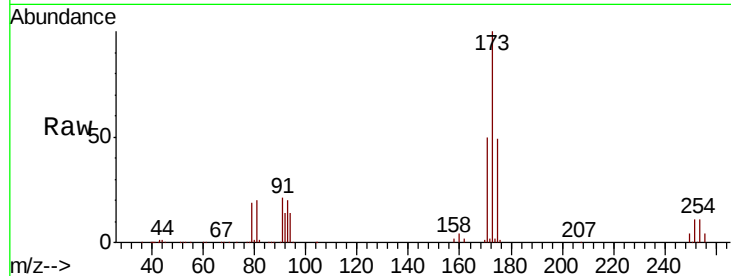
#71
Bromoform
Concen: 47.602 ug/l
RT: 12.13 min Scan# 3277
Delta R.T. -0.00 min
Lab File: VN050157.D
Acq: 28 Jul 2018 3:00

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
173	100		
175	48.6	24.1	72.2
254	0.0	0.2	0.2

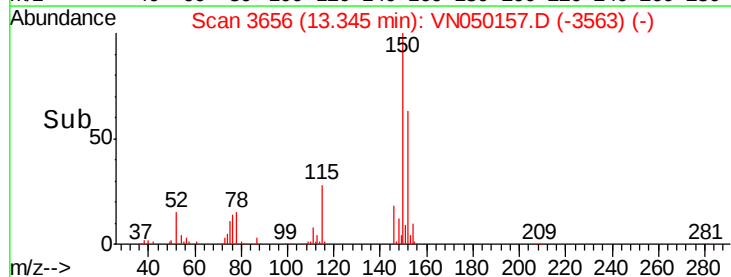
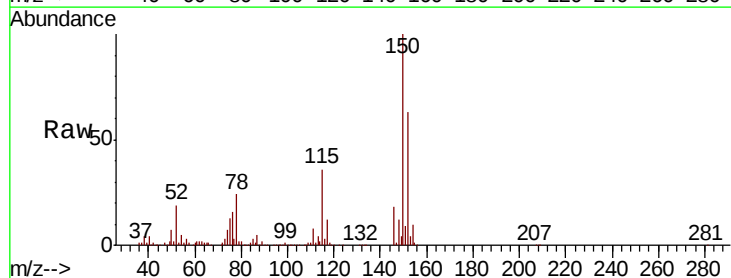
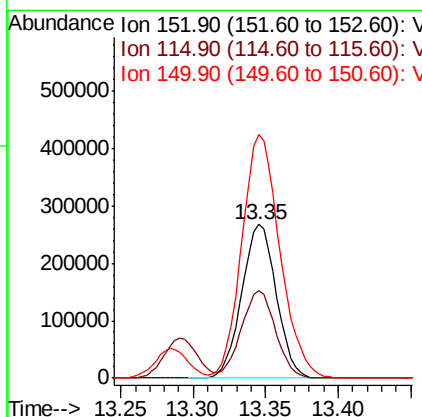
Manual Integrations
APPROVED

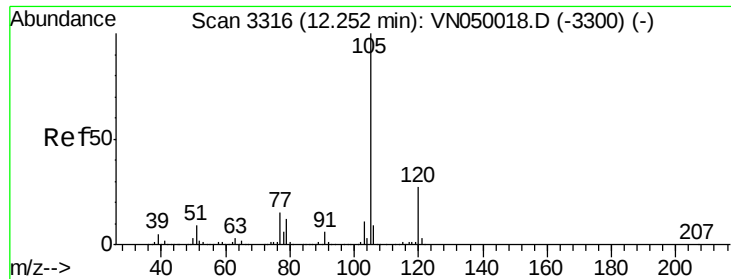
MMDadoda
7/30/2018 1:37:19 PM



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3656
Delta R.T. 0.00 min
Lab File: VN050157.D
Acq: 28 Jul 2018 3:00

Tgt Ion	Ratio	Lower	Upper
152	100		
115	56.2	27.8	83.3
150	174.9	0.0	348.6





#73

Isopropylbenzene

Concen: 51.421 ug/l

RT: 12.25 min Scan# 3316

Delta R.T. 0.00 min

Lab File: VN050157.D

Acq: 28 Jul 2018 3:00

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 105 Resp: 1768810

Ion Ratio Lower Upper

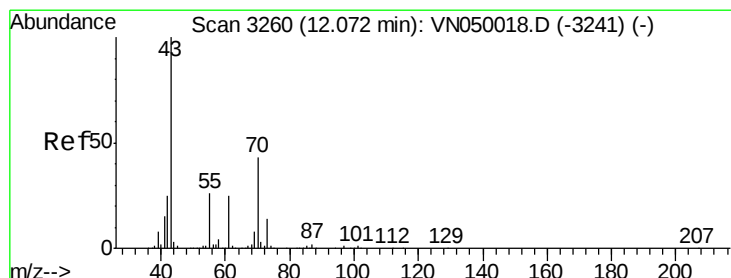
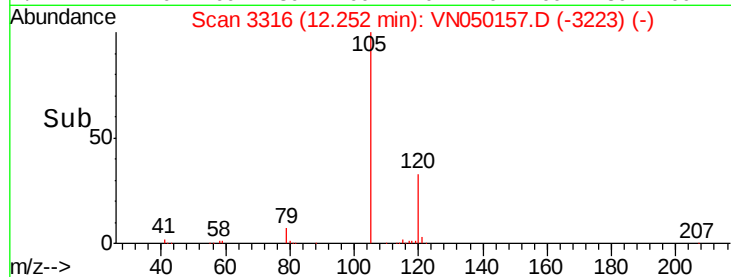
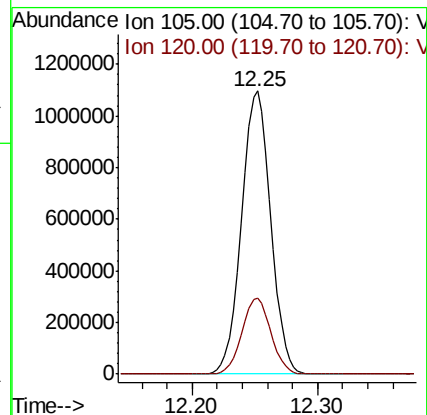
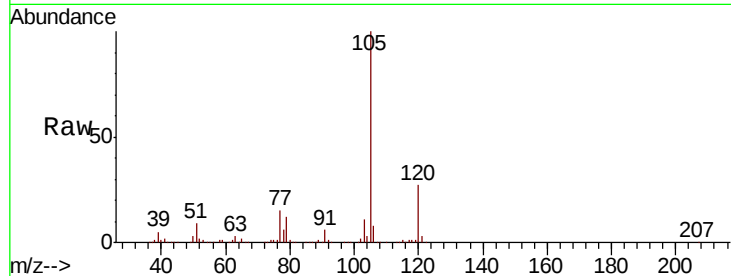
105 100

120 26.7 13.3 39.8

Manual Integrations
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MMDadoda

7/30/2018 1:37:19 PM



#74

N-ethyl acetate

Concen: 48.805 ug/l

RT: 12.07 min Scan# 3260

Delta R.T. 0.00 min

Lab File: VN050157.D

Acq: 28 Jul 2018 3:00

Tgt Ion: 43 Resp: 513094

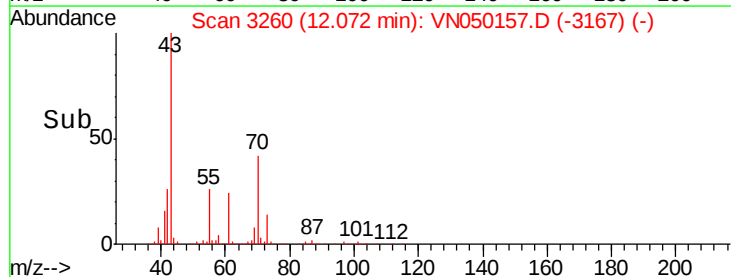
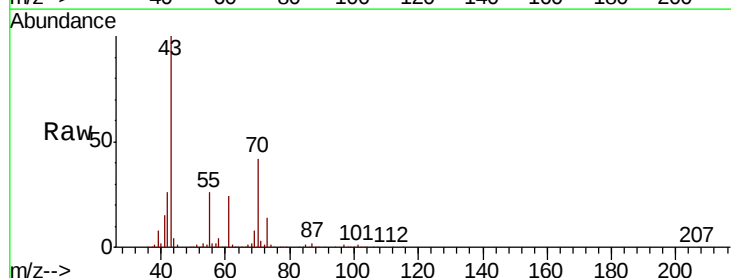
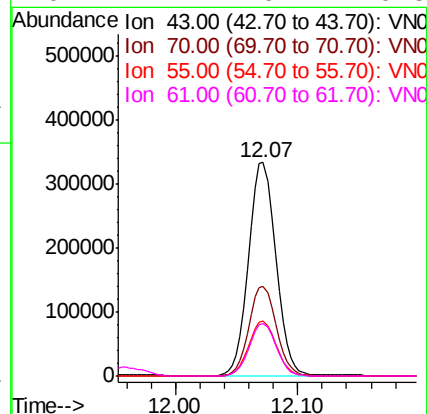
Ion Ratio Lower Upper

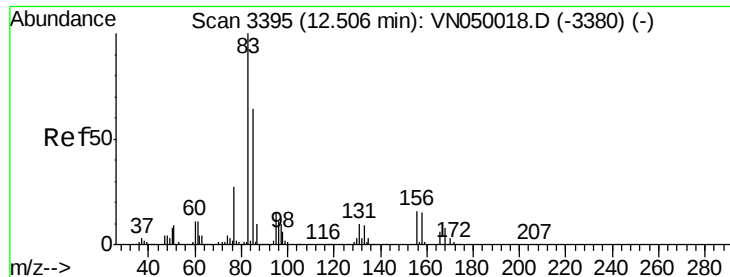
43 100

70 42.3 34.4 51.6

55 26.1 20.8 31.2

61 24.4 19.7 29.5





#75

1,1,2,2-Tetrachloroethane

Concen: 50.911 ug/l

RT: 12.51 min Scan# 3395

Delta R.T. 0.00 min

Lab File: VN050157.D

Acq: 28 Jul 2018 3:00

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 83 Resp: 467446
Ion Ratio Lower Upper

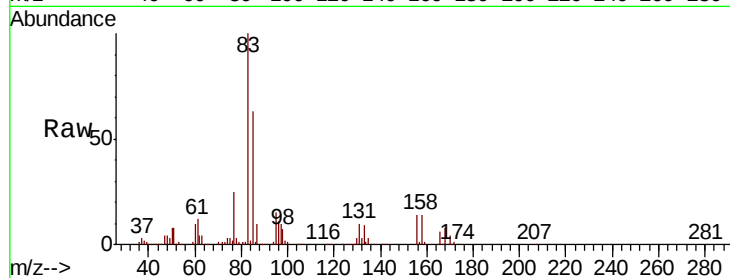
83 100

131 10.0 5.1 15.3

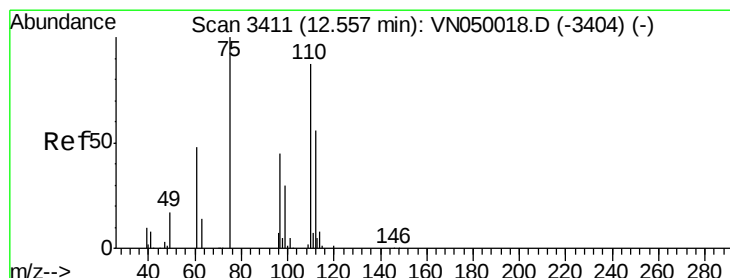
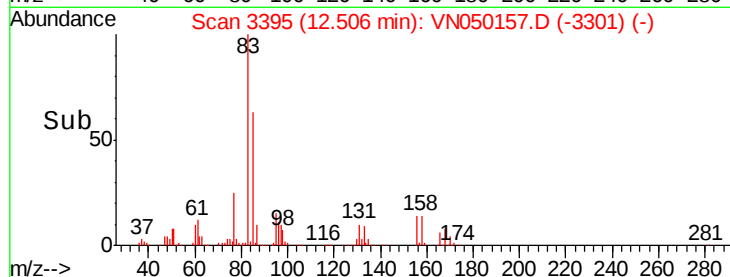
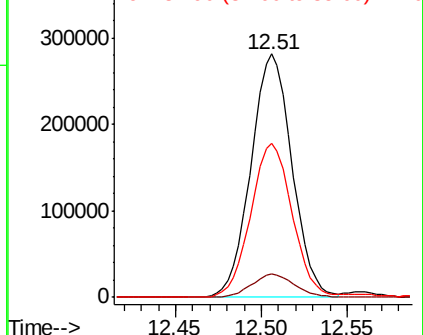
85 63.7 32.3 96.8

Manual Integrations
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Abundance Ion 82.90 (82.60 to 83.60): VN0
Ion 130.80 (130.50 to 131.50): V
Ion 84.90 (84.60 to 85.60): VN



#76

1,2,3-Trichloropropane

Concen: 48.094 ug/l m

RT: 12.56 min Scan# 3411

Delta R.T. 0.00 min

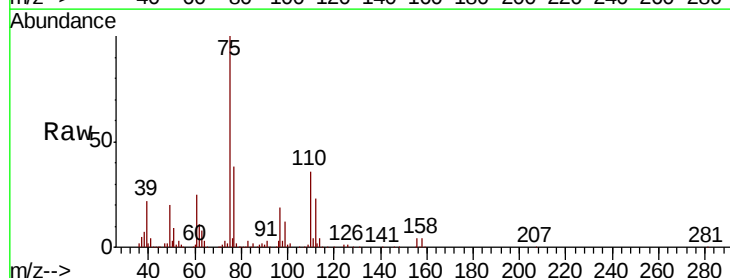
Lab File: VN050157.D

Acq: 28 Jul 2018 3:00

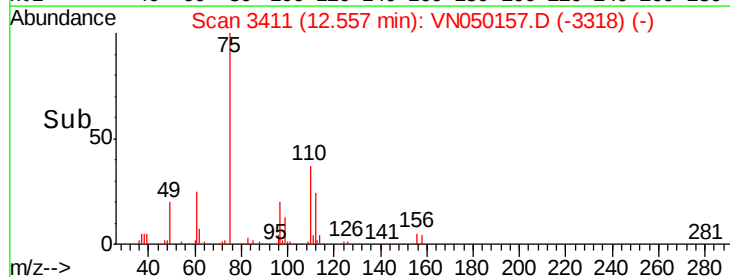
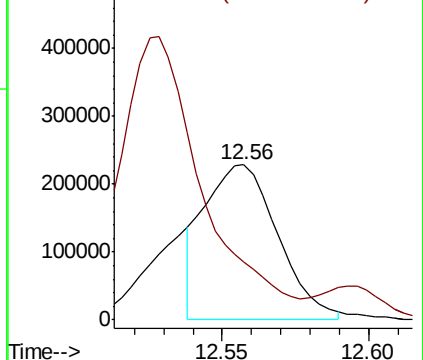
Tgt Ion: 75 Resp: 396430
Ion Ratio Lower Upper

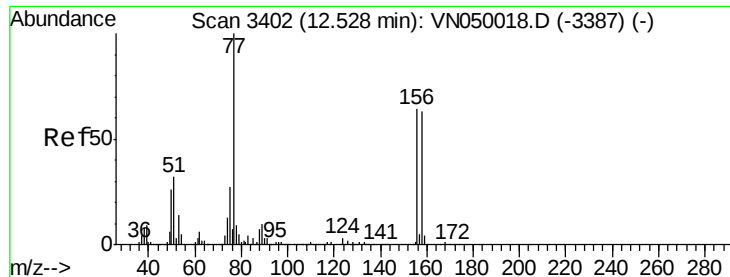
75 100

77 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VN0
Ion 77.00 (76.70 to 77.70): VN





#77

Bromobenzene

Concen: 47.637 ug/l

RT: 12.53 min Scan# 3402

Delta R.T. 0.00 min

Lab File: VN050157.D

Acq: 28 Jul 2018 3:00

Instrument :

MSVOA_N

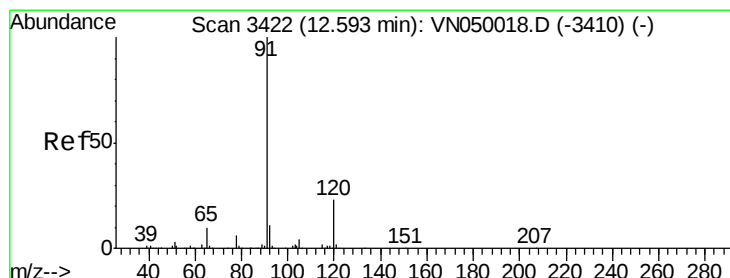
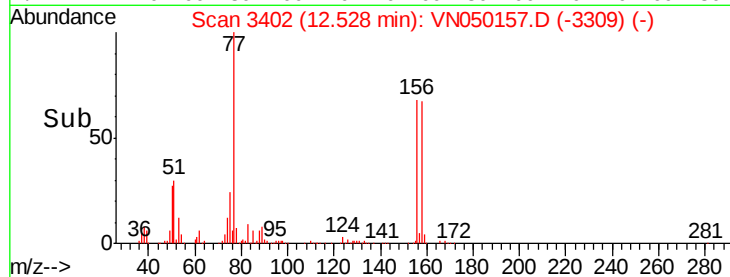
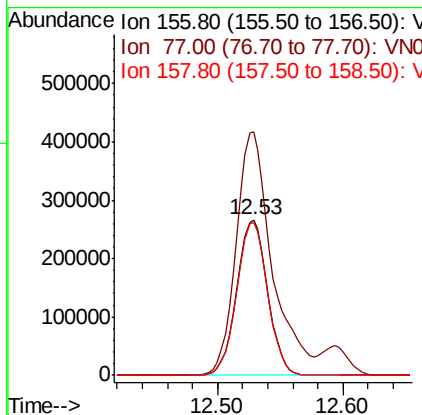
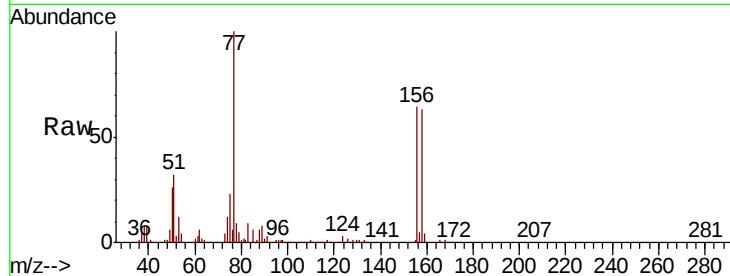
ClientSampled :

VSTDCCC050

Tot Ion	Ion	Ratio	Resp	Lower	Upper
156	100		454163		
77	183.3	91.7	275.1		
158	98.1	48.9	146.6		

Manual Integrations
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#78

n-propylbenzene

Concen: 52.452 ug/l

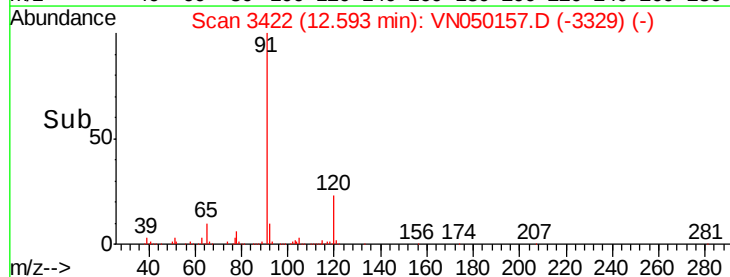
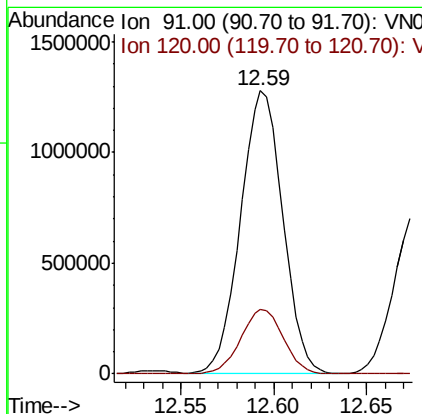
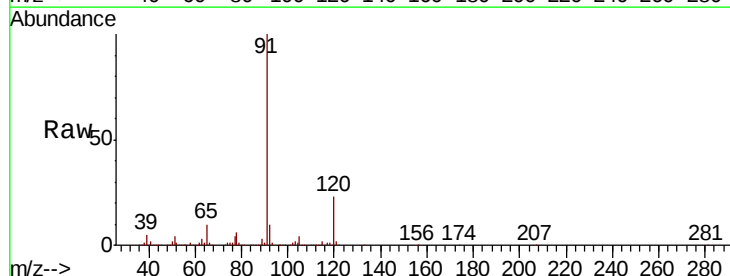
RT: 12.59 min Scan# 3422

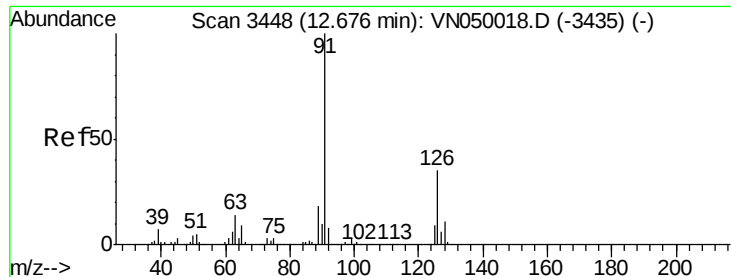
Delta R.T. 0.00 min

Lab File: VN050157.D

Acq: 28 Jul 2018 3:00

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
91	100		2016705		
120	23.0	11.6	34.7		





#79

2-Chlorotoluene

Concen: 50.880 ug/l

RT: 12.68 min Scan# 3448

Delta R.T. 0.00 min

Lab File: VN050157.D

Acq: 28 Jul 2018 3:00

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 91 Resp: 1212521

Ion Ratio Lower Upper

91 100

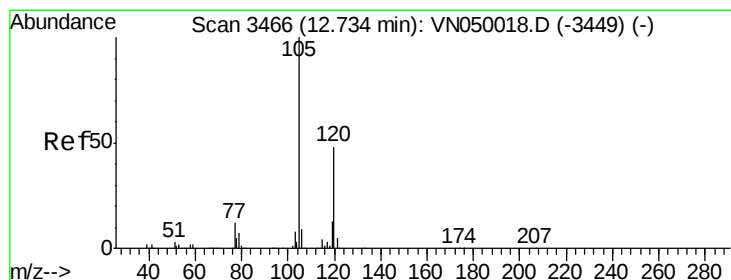
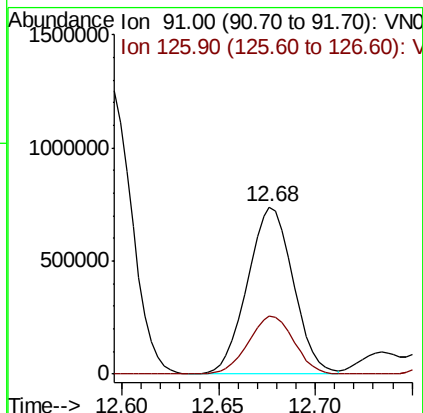
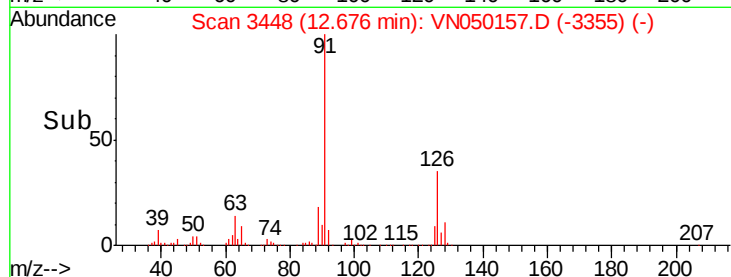
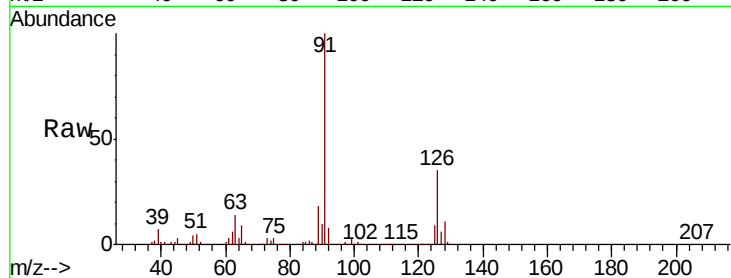
126 34.8 17.6 52.8

Manual Integrations

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#80

1,3,5-Trimethylbenzene

Concen: 53.723 ug/l

RT: 12.73 min Scan# 3466

Delta R.T. 0.00 min

Lab File: VN050157.D

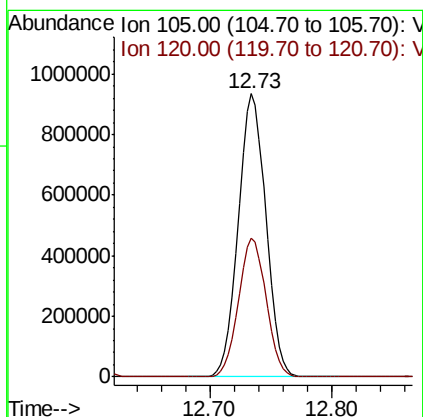
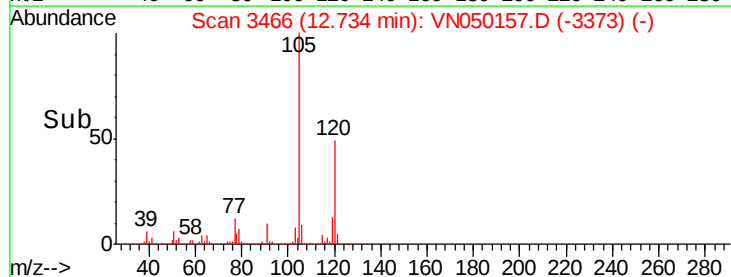
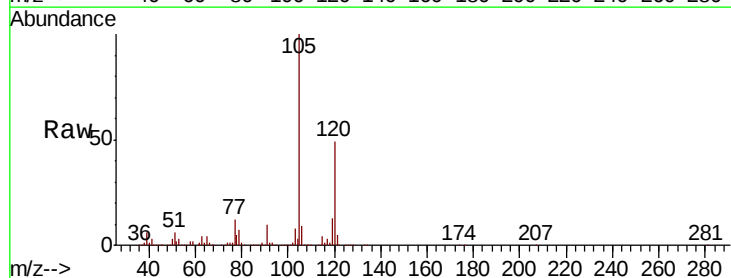
Acq: 28 Jul 2018 3:00

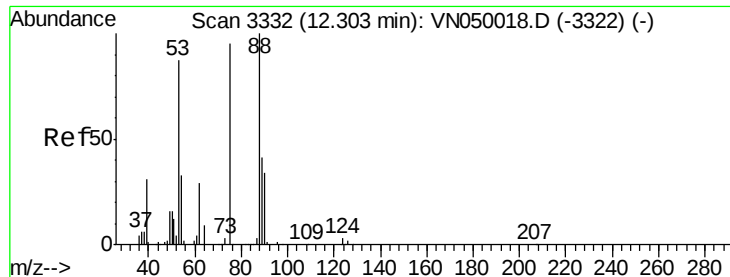
Tgt Ion: 105 Resp: 1453626

Ion Ratio Lower Upper

105 100

120 49.0 24.4 73.2





#81

trans-1,4-Dichloro-2-butene

Concen: 41.978 ug/l

RT: 12.30 min Scan# 3332

Delta R.T. 0.00 min

Lab File: VN050157.D

Acq: 28 Jul 2018 3:00

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 75 Resp: 109089

Ion Ratio Lower Upper

75 100

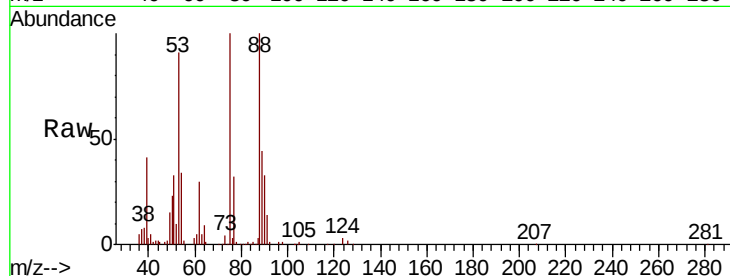
53 93.8 73.5 110.3

89 44.4 36.0 54.0

Manual Integrations
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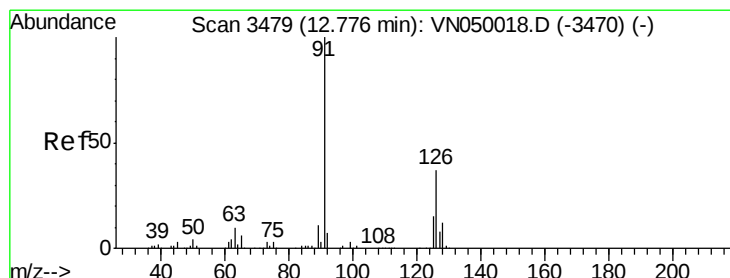
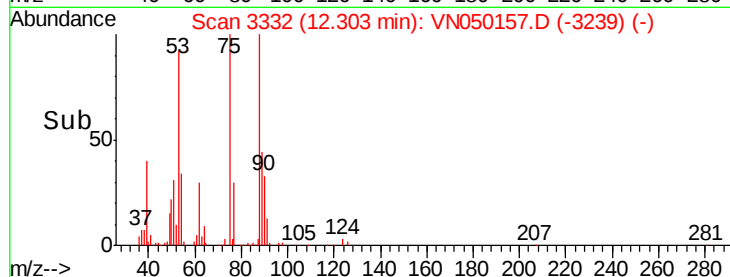
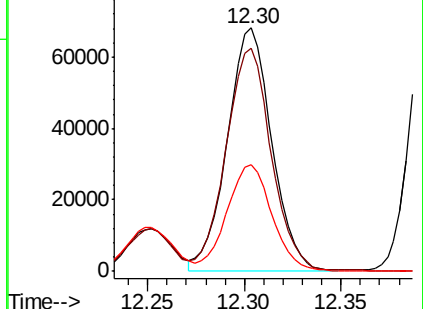
7/30/2018 1:37:19 PM



Abundance Ion 74.90 (74.60 to 75.60): VN050157.D (-3239) (-)

Ion 53.00 (52.70 to 53.70): VN050157.D (-3239) (-)

Ion 88.90 (88.60 to 89.60): VN050157.D (-3239) (-)



#82

4-Chlorotoluene

Concen: 51.657 ug/l

RT: 12.78 min Scan# 3479

Delta R.T. 0.00 min

Lab File: VN050157.D

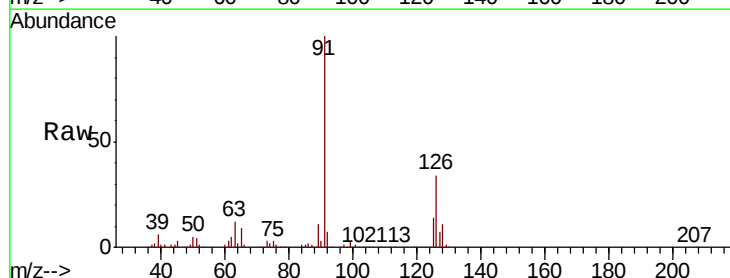
Acq: 28 Jul 2018 3:00

Tgt Ion: 91 Resp: 1219067

Ion Ratio Lower Upper

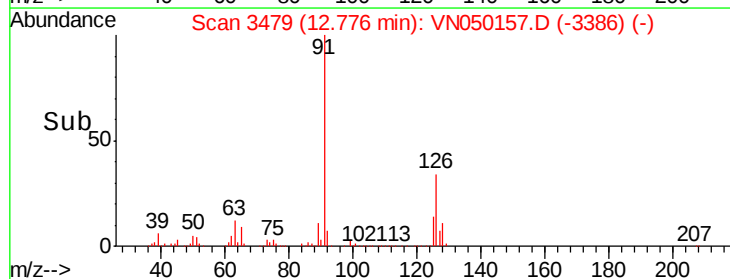
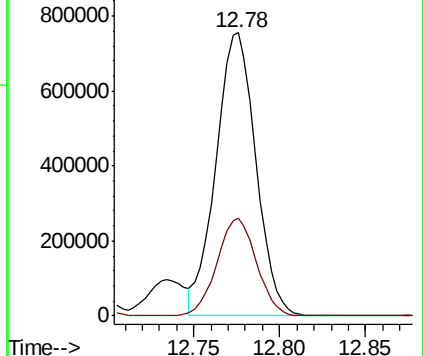
91 100

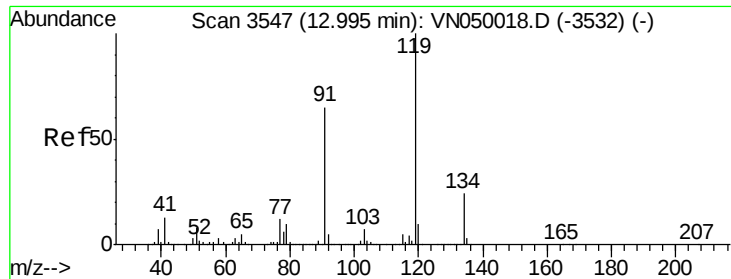
126 34.3 17.0 51.0



Abundance Ion 91.00 (90.70 to 91.70): VN050157.D (-3386) (-)

Ion 125.90 (125.60 to 126.60): VN050157.D (-3386) (-)





#83

tert-Butylbenzene

Concen: 52.679 ug/l

RT: 12.99 min Scan# 3547

Delta R.T. -0.00 min

Lab File: VN050157.D

Acq: 28 Jul 2018 3:00

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion:119 Resp: 1243880

Ion Ratio Lower Upper

119 100

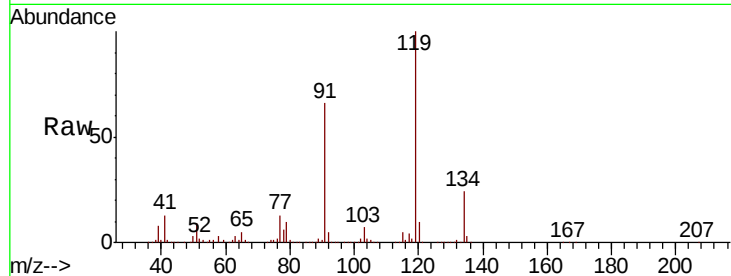
91 64.4 32.1 96.3

134 26.4 13.2 39.5

Manual Integrations
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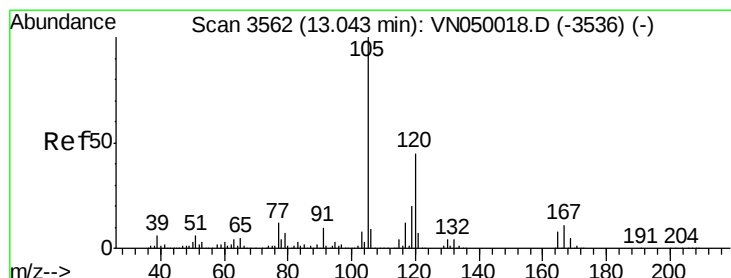
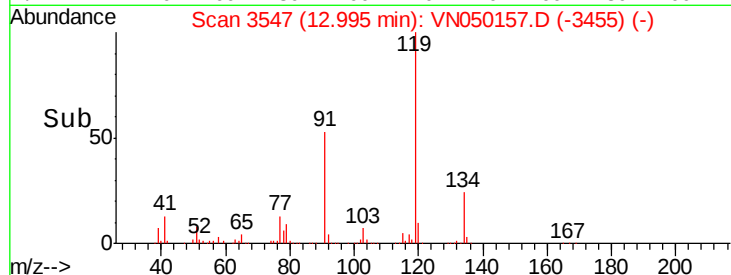
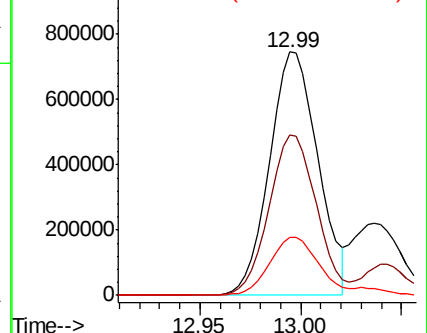
7/30/2018 1:37:19 PM



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): VN

Ion 134.00 (133.70 to 134.70): V



#84

1,2,4-Trimethylbenzene

Concen: 54.916 ug/l

RT: 13.04 min Scan# 3562

Delta R.T. 0.00 min

Lab File: VN050157.D

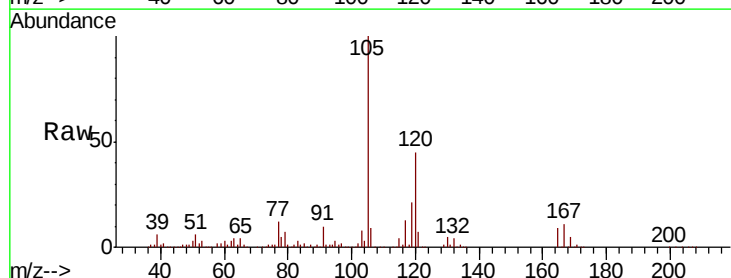
Acq: 28 Jul 2018 3:00

Tgt Ion:105 Resp: 1497693

Ion Ratio Lower Upper

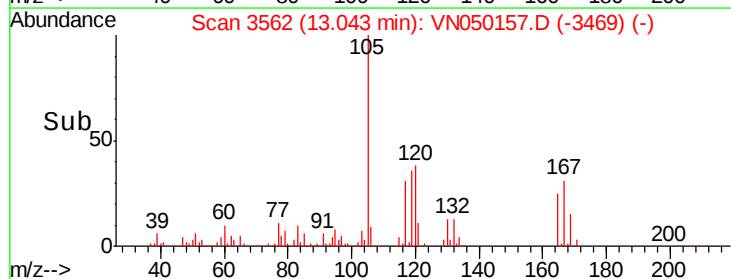
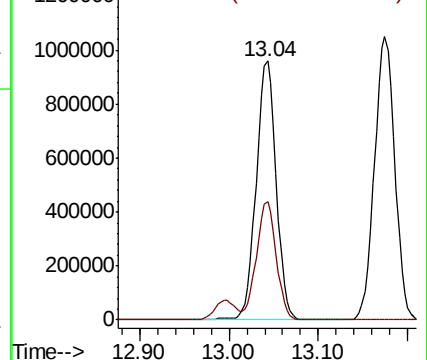
105 100

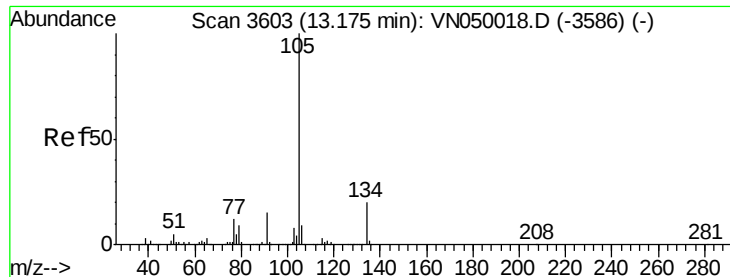
120 45.2 22.9 68.7



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#85

sec-Butylbenzene

Concen: 52.353 ug/l

RT: 13.17 min Scan# 3603

Delta R.T. 0.00 min

Lab File: VN050157.D

Acq: 28 Jul 2018 3:00

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion:105 Resp: 1651738

Ion Ratio Lower Upper

105 100

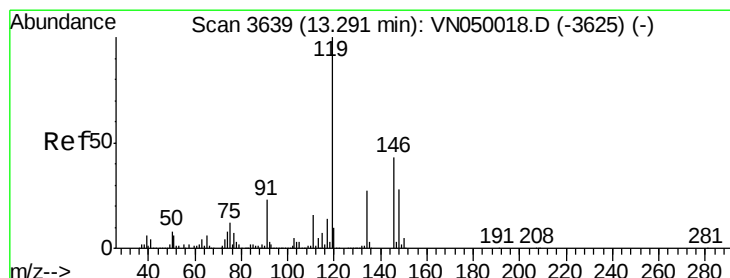
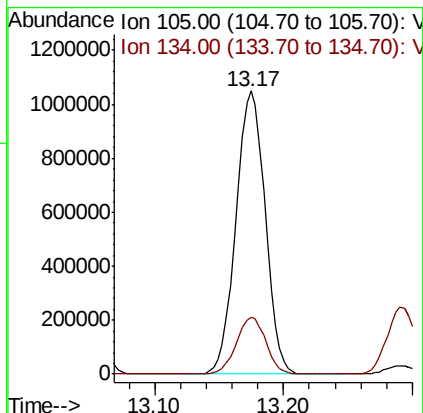
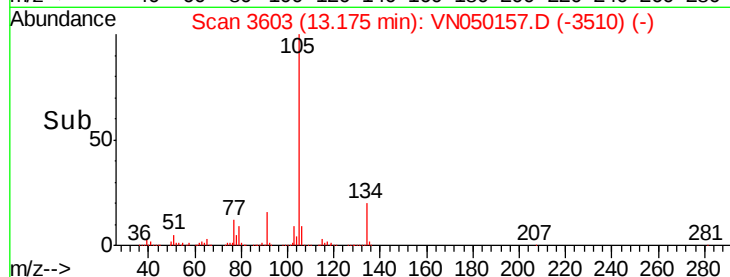
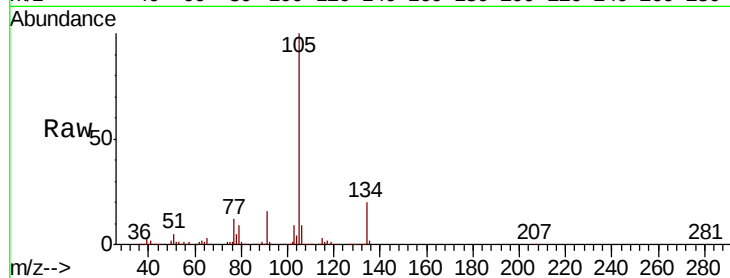
134 20.2 10.1 30.1

Manual Integrations

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#86

p-Isopropyltoluene

Concen: 54.305 ug/l

RT: 13.29 min Scan# 3639

Delta R.T. 0.00 min

Lab File: VN050157.D

Acq: 28 Jul 2018 3:00

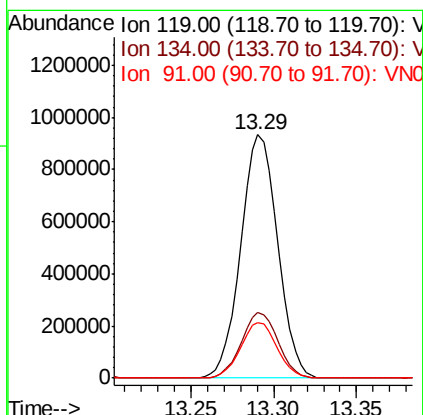
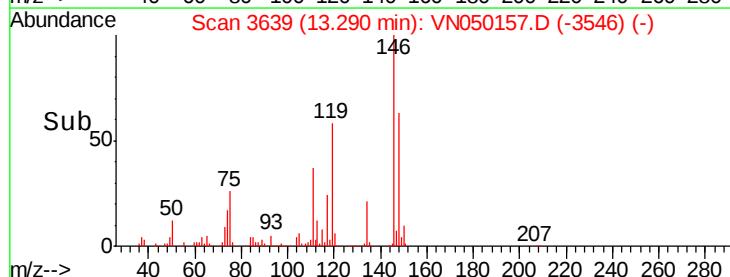
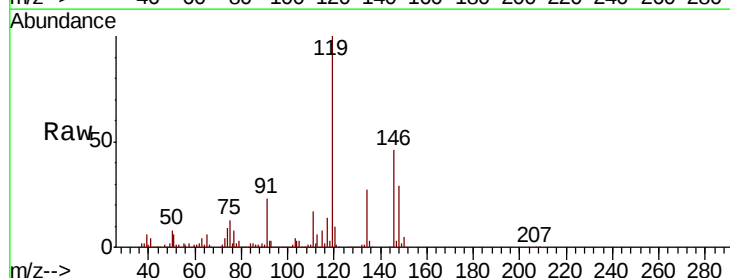
Tgt Ion:119 Resp: 1443697

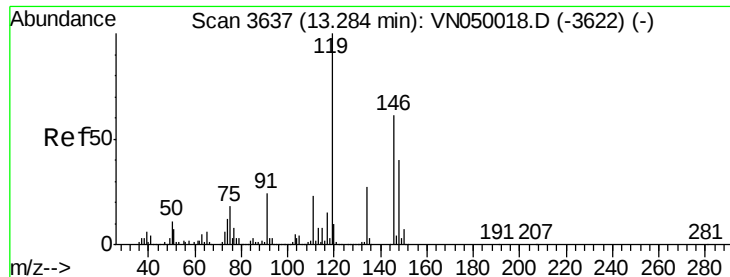
Ion Ratio Lower Upper

119 100

134 26.8 13.3 39.8

91 22.6 11.4 34.2





#87

1,3-Dichlorobenzene

Concen: 49.754 ug/l

RT: 13.28 min Scan# 3637

Delta R.T. -0.00 min

Lab File: VN050157.D

Acq: 28 Jul 2018 3:00

Instrument :

MSVOA_N

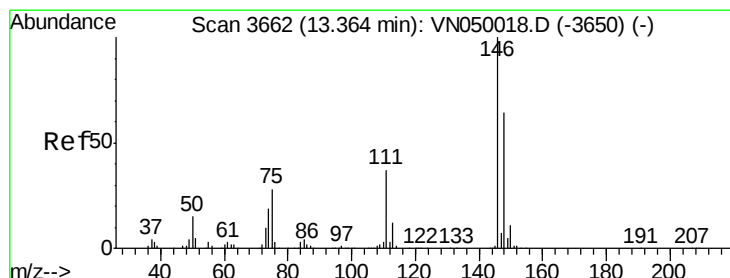
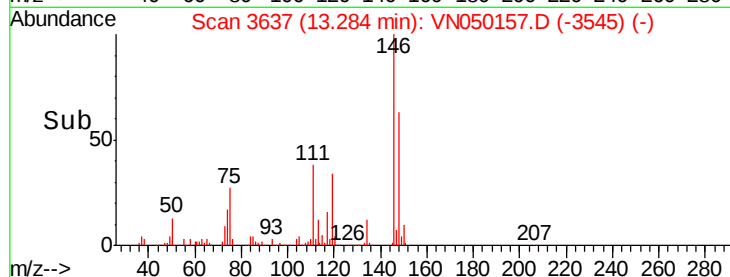
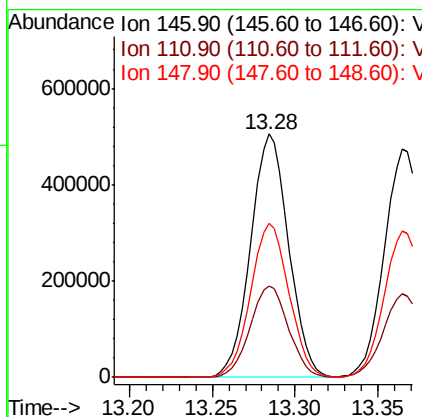
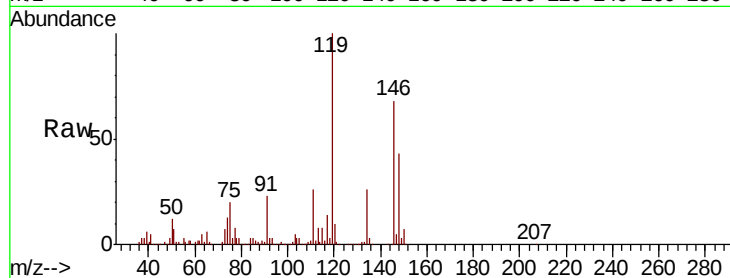
ClientSampleId :

VSTDCCC050

Tot Ion:	146	Resp:	804119
Ion Ratio	Lower	Upper	
146	100		
111	37.8	18.8	56.4
148	63.6	31.9	95.9

Manual Integrations
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#88

1,4-Dichlorobenzene

Concen: 49.025 ug/l

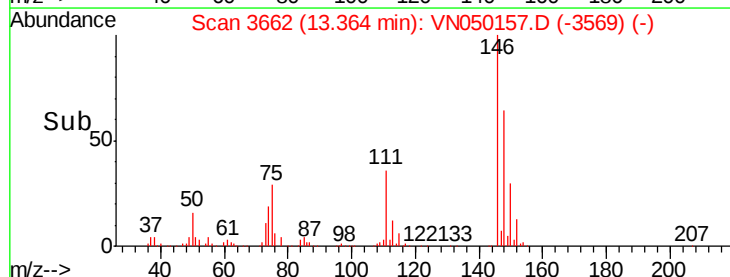
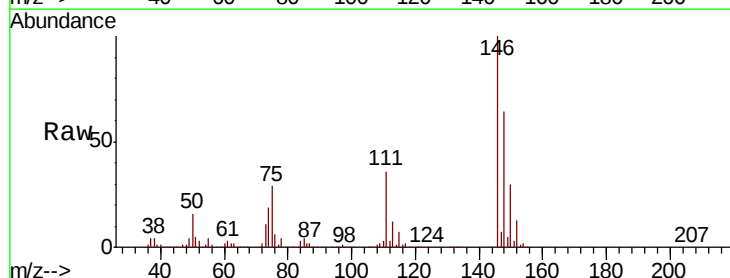
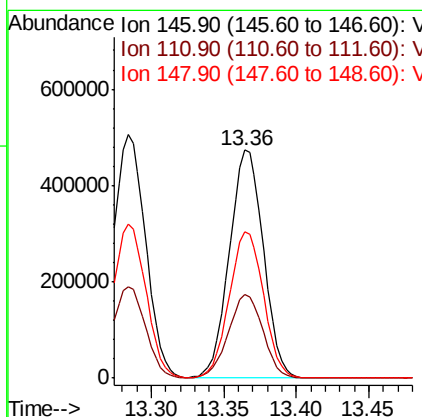
RT: 13.36 min Scan# 3662

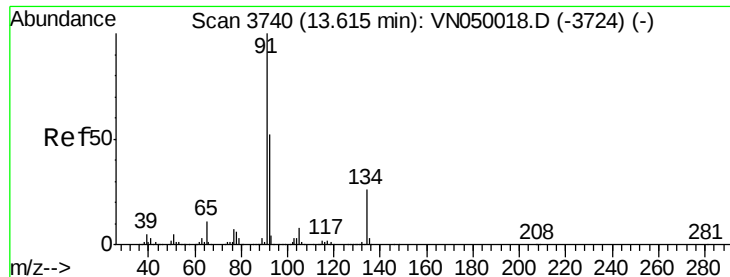
Delta R.T. 0.00 min

Lab File: VN050157.D

Acq: 28 Jul 2018 3:00

Tgt Ion:	146	Resp:	772276
Ion Ratio	Lower	Upper	
146	100		
111	37.1	18.3	54.9
148	64.5	31.9	95.9





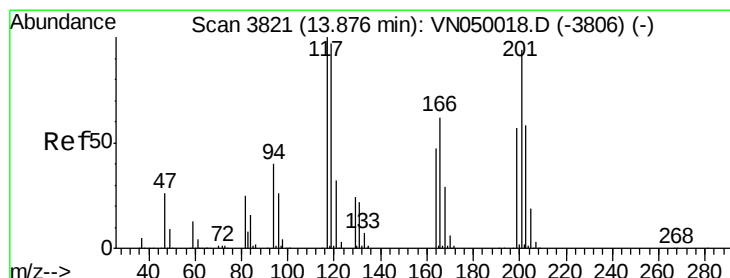
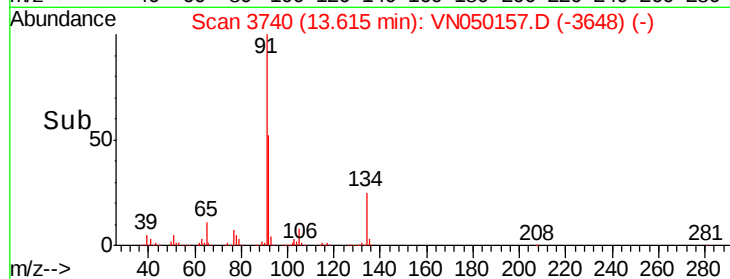
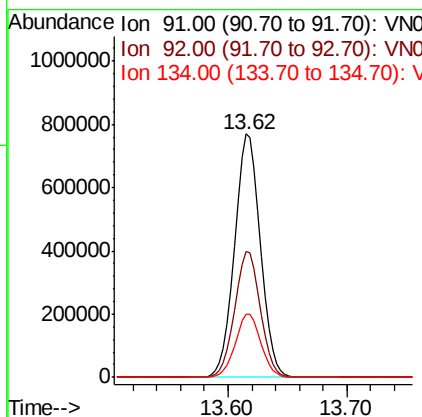
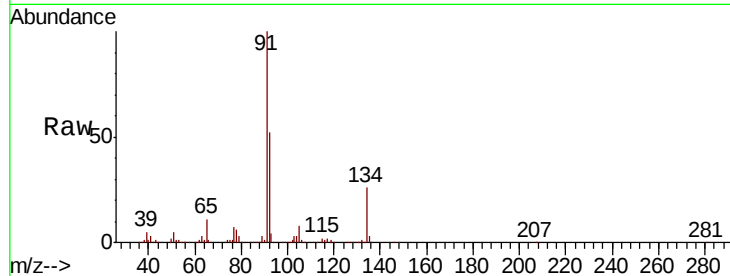
#89
n-Butylbenzene
Concen: 52.767 ug/l
RT: 13.62 min Scan# 3740
Delta R.T. -0.00 min
Lab File: VN050157.D
Acq: 28 Jul 2018 3:00

Instrument :
MSVOA_N
ClientSampled :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
91	100		
92	51.5	25.8	77.4
134	25.8	12.8	38.4

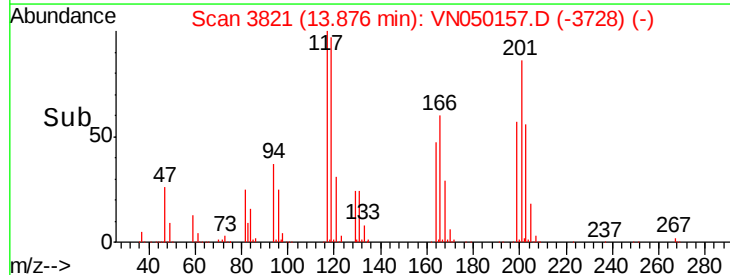
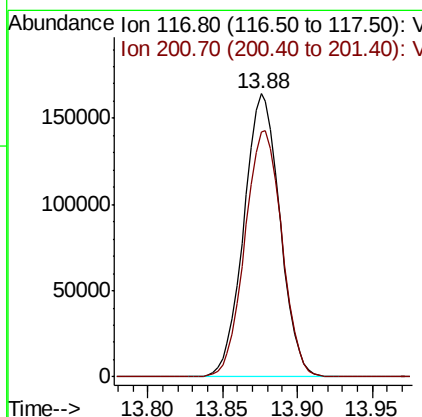
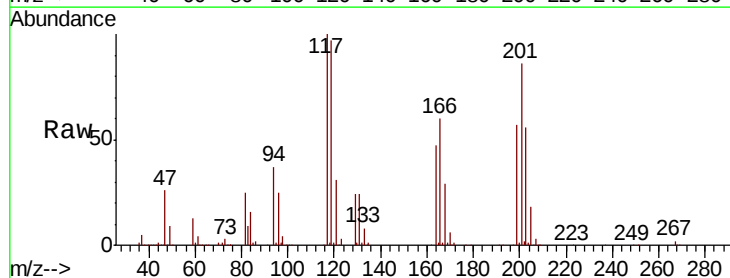
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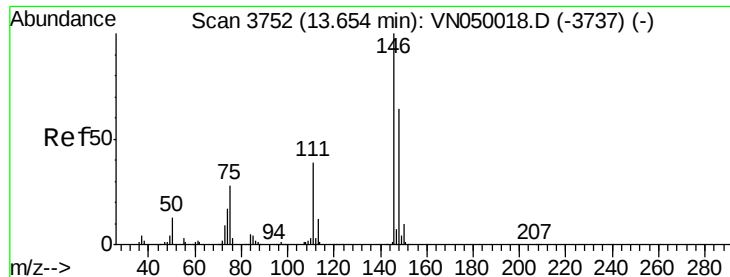
MMDadoda
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#90
Hexachloroethane
Concen: 46.739 ug/l
RT: 13.88 min Scan# 3821
Delta R.T. 0.00 min
Lab File: VN050157.D
Acq: 28 Jul 2018 3:00

Tgt Ion	Ratio	Lower	Upper
117	100		
201	89.0	45.6	136.8





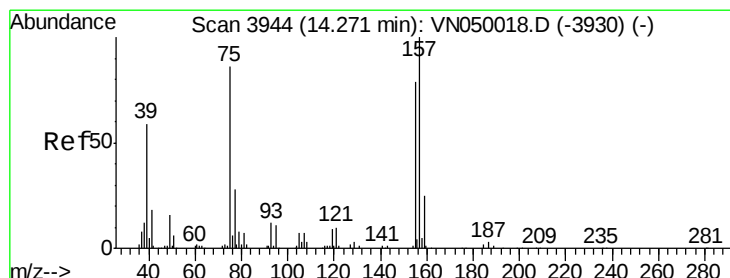
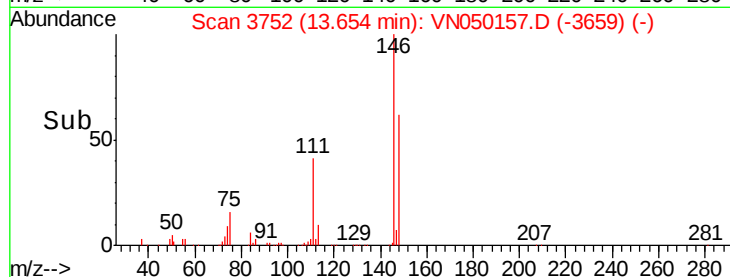
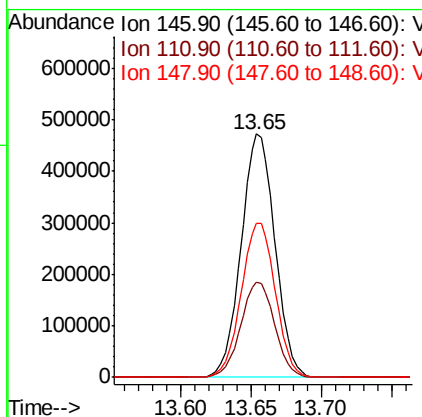
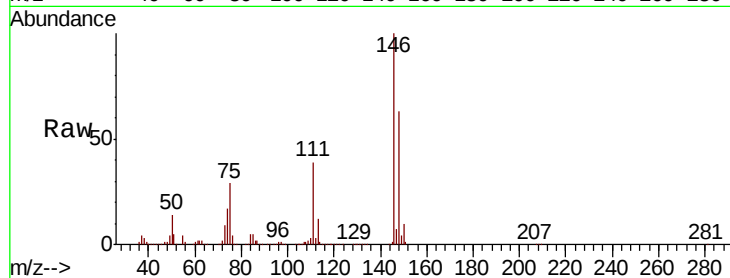
#91
 1,2-Dichlorobenzene
 Concen: 49.004 ug/l
 RT: 13.65 min Scan# 3752
 Delta R.T. 0.00 min
 Lab File: VN050157.D
 Acq: 28 Jul 2018 3:00

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
146	100		
111	39.2	19.6	58.7
148	63.9	32.1	96.3

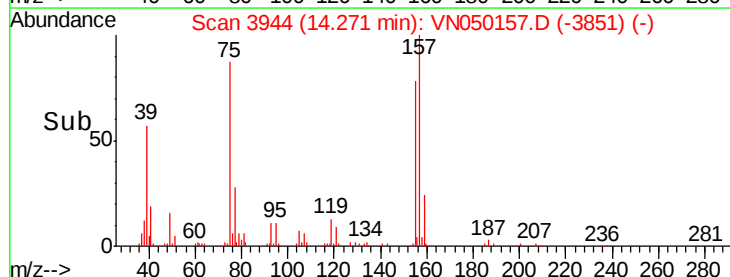
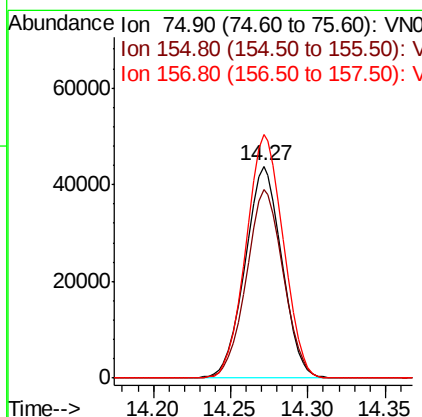
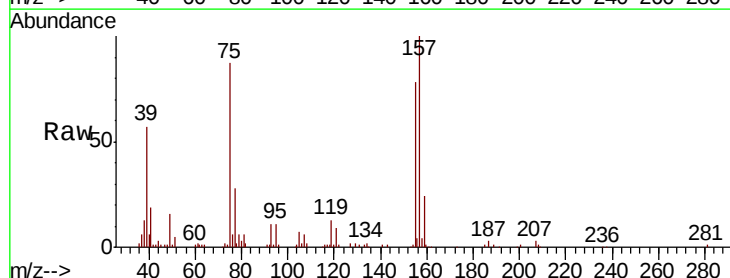
Manual Integrations
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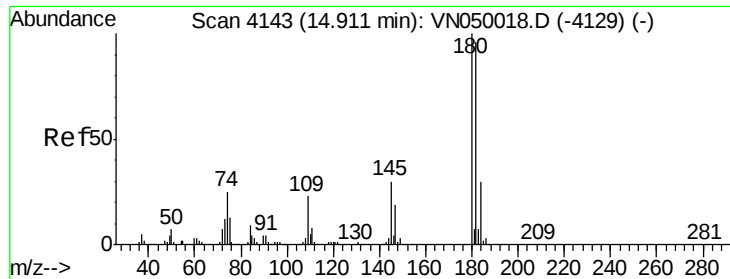
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 7/30/2018 1:37:19 PM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 47.310 ug/l
 RT: 14.27 min Scan# 3944
 Delta R.T. 0.00 min
 Lab File: VN050157.D
 Acq: 28 Jul 2018 3:00

Tgt Ion	Ratio	Lower	Upper
75	100		
155	89.2	44.8	134.4
157	116.3	57.2	171.6





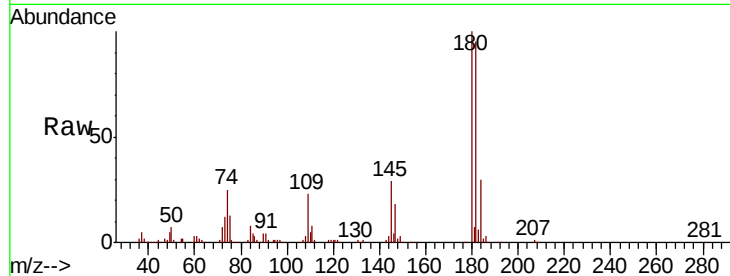
#93
1,2,4-Trichlorobenzene
Concen: 44.902 ug/l
RT: 14.91 min Scan# 4143
Delta R.T. 0.00 min
Lab File: VN050157.D
Acq: 28 Jul 2018 3:00

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
180	100	381856		
182	96.5	46.7	140.1	
145	28.5	13.8	41.4	

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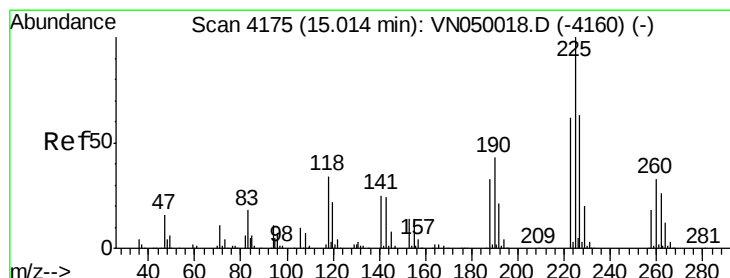
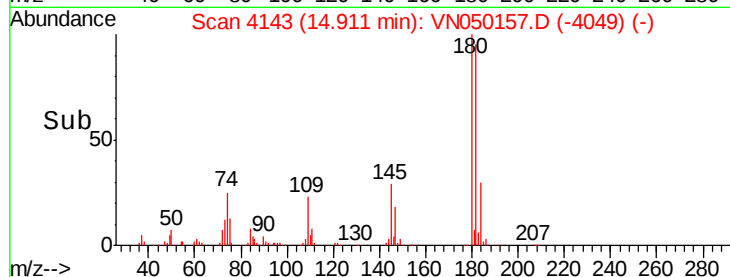
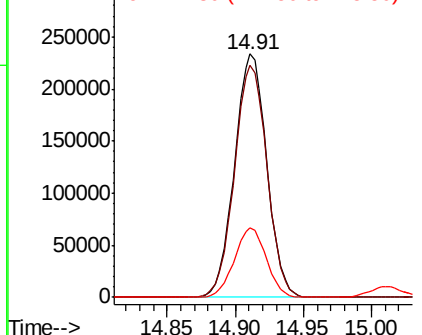


Abundance

Ion 179.80 (179.50 to 180.50): V

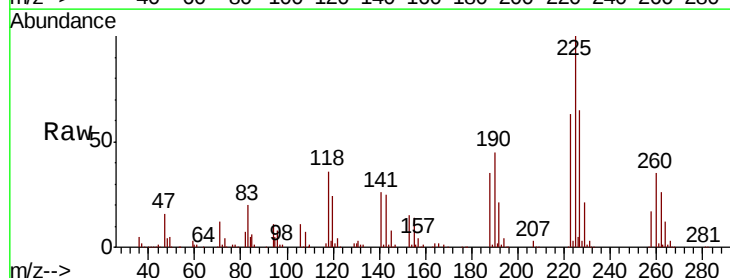
Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V



#94
Hexachlorobutadiene
Concen: 46.099 ug/l
RT: 15.01 min Scan# 4174
Delta R.T. -0.00 min
Lab File: VN050157.D
Acq: 28 Jul 2018 3:00

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	228000		
223	62.3	31.4	94.2	
227	63.4	32.1	96.5	

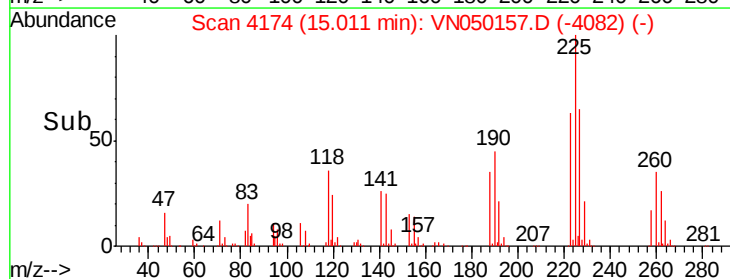
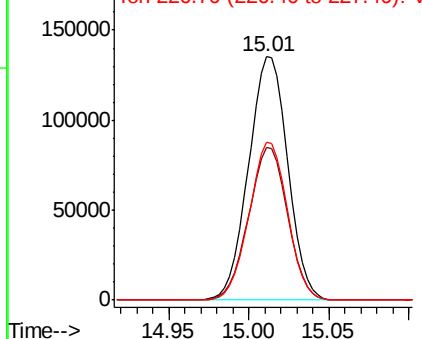


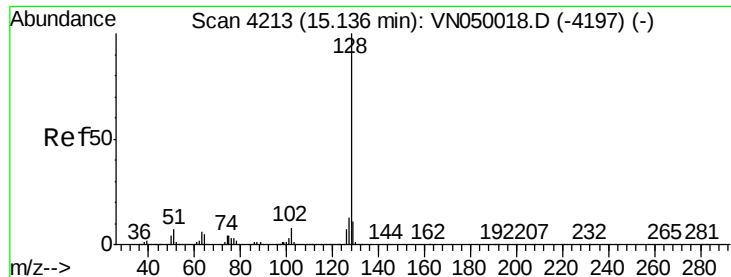
Abundance

Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V





#95

Naphthalene

Concen: 42.881 ug/l

RT: 15.14 min Scan# 4213

Delta R.T. 0.00 min

Lab File: VN050157.D

Acq: 28 Jul 2018 3:00

Instrument :

MSVOA_N

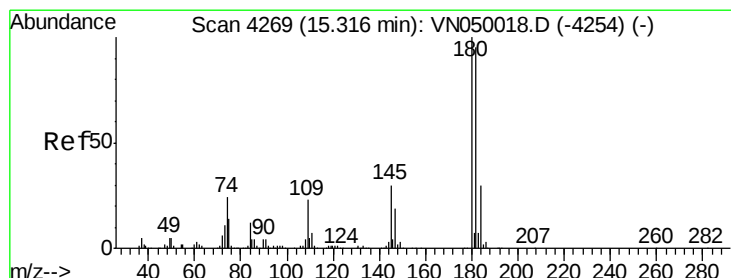
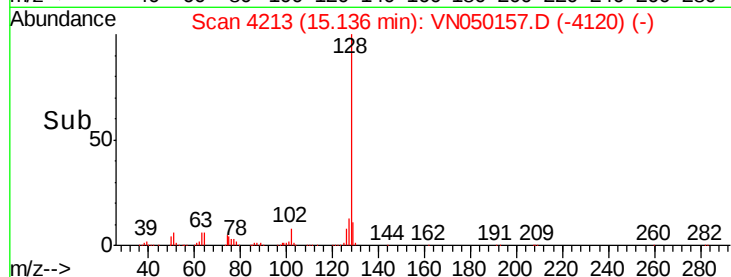
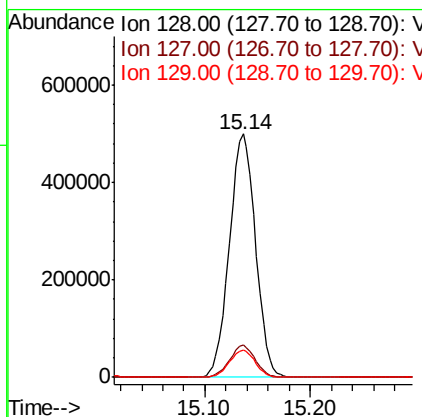
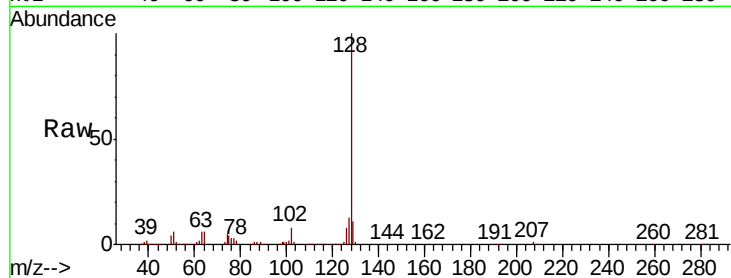
ClientSampleId :

VSTDCCC050

Tot Ion:	128	Resp:	854616
Ion Ratio	Lower	Upper	
128	100		
127	13.0	10.4	15.6
129	11.0	8.8	13.2

Manual Integrations
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#96

1,2,3-Trichlorobenzene

Concen: 45.737 ug/l

RT: 15.32 min Scan# 4269

Delta R.T. -0.00 min

Lab File: VN050157.D

Acq: 28 Jul 2018 3:00

Tgt Ion:	180	Resp:	380045
Ion Ratio	Lower	Upper	
180	100		
182	95.9	48.1	144.4
145	30.7	15.3	45.9

