

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN120418\
 Data File : VN052645.D
 Acq On : 4 Dec 2018 10:47
 Operator : MD\SY
 Sample : VSTDCCC050
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

MMDadoda

12/5/2018 9:12:58 AM

Quant Time: Dec 05 03:26:41 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N112718W.M
 Quant Title : SW846 8260
 QLast Update : Mon Dec 03 03:24:02 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	1037105	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1562935	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1397704	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	665792	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	549100	48.63	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.26%	
35) Dibromofluoromethane	7.59	113	495629	51.44	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.88%	
50) Toluene-d8	10.09	98	1906923	50.84	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.68%	
62) 4-Bromofluorobenzene	12.40	95	671765	53.30	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.60%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	427840	44.058	ug/l	98
3) Chloromethane	2.06	50	544855	42.506	ug/l	100
4) Vinyl Chloride	2.19	62	571737	43.420	ug/l	100
5) Bromomethane	2.57	94	345659	42.072	ug/l	97
6) Chloroethane	2.71	64	348832	43.735	ug/l	99
7) Trichlorofluoromethane	3.02	101	752265	46.509	ug/l	99
8) Diethyl Ether	3.41	74	287684	48.164	ug/l	96
9) 1,1,2-Trichlorotrifluoroet	3.76	101	484907	48.046	ug/l	98
10) Methyl Iodide	3.95	142	691545	51.446	ug/l	100
11) Tert butyl alcohol	4.78	59	140031	247.703	ug/l	100
12) 1,1-Dichloroethene	3.74	96	448918	46.209	ug/l	99
13) Acrolein	3.61	56	157390	160.189	ug/l	99
14) Allyl chloride	4.33	41	787920	47.058	ug/l	99
15) Acrylonitrile	4.99	53	876109	244.823	ug/l	99
16) Acetone	3.82	43	764305	256.614	ug/l	100
17) Carbon Disulfide	4.06	76	1287448	42.111	ug/l	99
18) Methyl Acetate	4.32	43	429728	50.299	ug/l	97
19) Methyl tert-butyl Ether	5.04	73	1262804	48.855	ug/l	99
20) Methylene Chloride	4.55	84	519996	44.614	ug/l	100
21) trans-1,2-Dichloroethene	5.04	96	481684	46.424	ug/l	97
22) Diisopropyl ether	5.95	45	1660314	47.207	ug/l	99
23) Vinyl Acetate	5.90	43	5305284	242.182	ug/l	98
24) 1,1-Dichloroethane	5.85	63	941069	46.863	ug/l	99
25) 2-Butanone	6.83	43	1066929	252.730	ug/l	97
26) 2,2-Dichloropropane	6.83	77	711211	51.168	ug/l	100
27) cis-1,2-Dichloroethene	6.83	96	566517	46.872	ug/l	99
28) Bromochloromethane	7.19	49	426934	46.547	ug/l	95
29) Tetrahydrofuran	7.21	42	655666	240.795	ug/l	98
30) Chloroform	7.37	83	927806	46.309	ug/l	99
31) Cyclohexane	7.65	56	868799	44.660	ug/l	98
32) 1,1,1-Trichloroethane	7.57	97	772198	48.646	ug/l	99
36) 1,1-Dichloropropene	7.79	75	707070	47.907	ug/l	98
37) Ethyl Acetate	6.93	43	444809	49.382	ug/l	99
38) Carbon Tetrachloride	7.77	117	677608	50.715	ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	882352	49.186	ug/l	98
40) Benzene	8.04	78	2141165	48.679	ug/l	99
41) Methacrylonitrile	7.17	41	220798	44.837	ug/l	88
42) 1,2-Dichloroethane	8.12	62	653293	49.053	ug/l	99
43) Isopropyl Acetate	8.16	43	804058	52.748	ug/l	99
44) Trichloroethene	8.84	130	561208	49.811	ug/l	97
45) 1,2-Dichloropropane	9.12	63	574485	49.126	ug/l	99
46) Dibromomethane	9.21	93	328745	50.782	ug/l	99
47) Bromodichloromethane	9.40	83	710253	50.463	ug/l	100
48) Methyl methacrylate	9.20	41	400483	50.386	ug/l	98
49) 1,4-Dioxane	9.20	88	79833	967.793	ug/l	98
51) 4-Methyl-2-Pentanone	9.99	43	2237648	261.634	ug/l	99
52) Toluene	10.16	92	1323113	50.629	ug/l	99
53) t-1,3-Dichloropropene	10.38	75	722211	53.338	ug/l	99
54) cis-1,3-Dichloropropene	9.84	75	841824	51.880	ug/l	99
55) 1,1,2-Trichloroethane	10.56	97	474502	51.618	ug/l	98
56) Ethyl methacrylate	10.43	69	623343	48.895	ug/l	98
57) 1,3-Dichloropropane	10.71	76	816636	50.312	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.70	63	1739268	260.745	ug/l	99
59) 2-Hexanone	10.75	43	1603522	279.355	ug/l	99
60) Dibromochloromethane	10.90	129	534791	53.564	ug/l	99
61) 1,2-Dibromoethane	11.01	107	467719	51.228	ug/l	100
64) Tetrachloroethene	10.63	164	546866	50.464	ug/l	98
65) Chlorobenzene	11.44	112	1457405	50.568	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.51	131	516104	51.502	ug/l	99
67) Ethyl Benzene	11.51	91	2570185	50.925	ug/l	99
68) m/p-Xylenes	11.62	106	1946821	103.617	ug/l	99
69) o-Xylene	11.95	106	940561	51.551	ug/l	100
70) Styrene	11.96	104	1553146	53.445	ug/l	100
71) Bromoform	12.13	173	366375	55.217	ug/l #	100
73) Isopropylbenzene	12.25	105	2549170	48.802	ug/l	99
74) N-amyl acetate	12.07	43	685585	51.951	ug/l	100
75) 1,1,2,2-Tetrachloroethane	12.51	83	578026	48.645	ug/l	100
76) 1,2,3-Trichloropropane	12.55	75	485157m	47.255	ug/l	
77) Bromobenzene	12.53	156	631813	48.935	ug/l	98
78) n-propylbenzene	12.59	91	2960343	49.886	ug/l	99
79) 2-Chlorotoluene	12.68	91	1709162	48.366	ug/l	99
80) 1,3,5-Trimethylbenzene	12.73	105	2090337	50.176	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.30	75	167695	54.546	ug/l	96
82) 4-Chlorotoluene	12.77	91	1749385	49.119	ug/l	99
83) tert-Butylbenzene	12.99	119	1844685	49.669	ug/l	99
84) 1,2,4-Trimethylbenzene	13.04	105	2127082	50.948	ug/l	100
85) sec-Butylbenzene	13.17	105	2537008	50.153	ug/l	100
86) p-Isopropyltoluene	13.29	119	2194145	50.925	ug/l	99
87) 1,3-Dichlorobenzene	13.28	146	1141921	50.562	ug/l	99
88) 1,4-Dichlorobenzene	13.36	146	1111701	49.974	ug/l	99
89) n-Butylbenzene	13.62	91	1892265	52.809	ug/l	100
90) Hexachloroethane	13.88	117	369381	50.633	ug/l	96
91) 1,2-Dichlorobenzene	13.65	146	1086005	50.331	ug/l	100
92) 1,2-Dibromo-3-Chloropropan	14.27	75	91288	53.716	ug/l	99

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Quant Title : SW846 8260
QLast Update : Mon Dec 03 03:24:02 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	580640	49.173	ug/l	99
94) Hexachlorobutadiene	15.01	225	350700	50.523	ug/l	99
95) Naphthalene	15.13	128	1198952	47.979	ug/l	100
96) 1,2,3-Trichlorobenzene	15.32	180	530815	48.906	ug/l	99

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

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_N\DATA\VN120418\
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Misc : 5.00mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 28

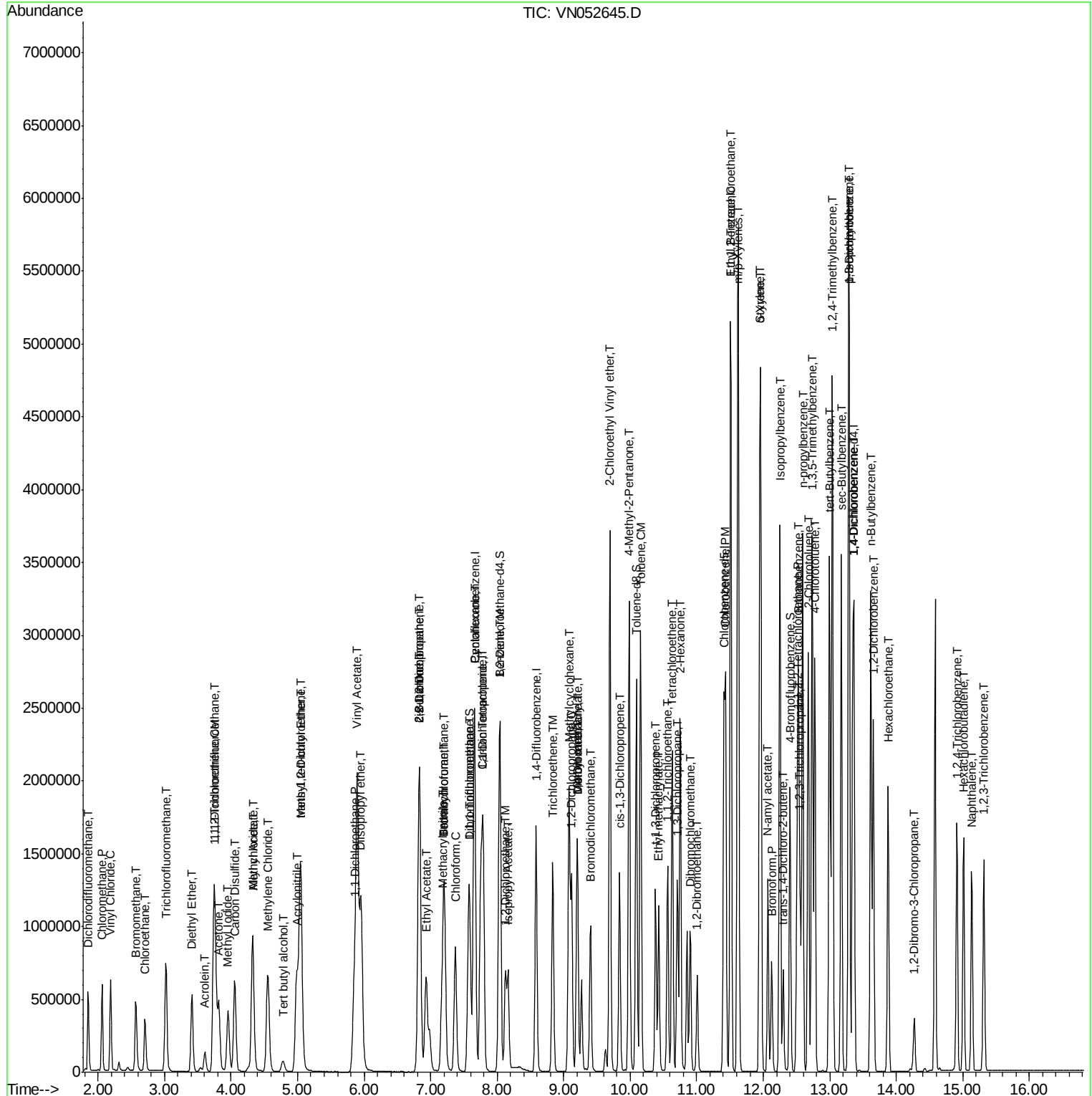
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

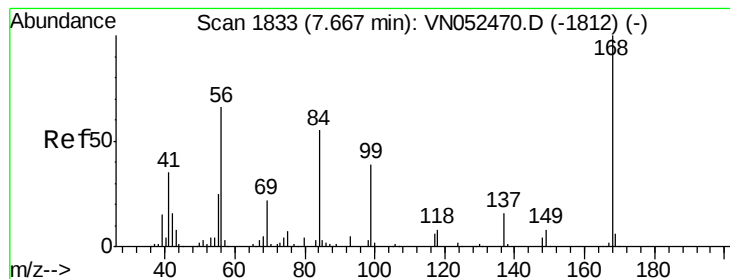
Manual Integrations
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.00 min

Lab File: VN052645.D

Acq: 4 Dec 2018 10:47

Instrument :

MSVOA_N

ClientSampled :

VSTDCCC050

Tgt Ion:168 Resp: 1037105

Ion Ratio Lower Upper

168 100

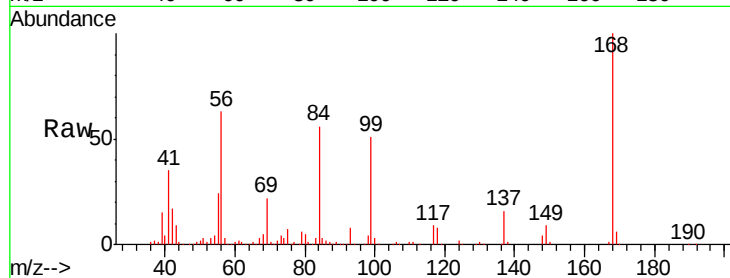
99 50.5 41.7 62.5

Manual Integrations

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.66

400000

300000

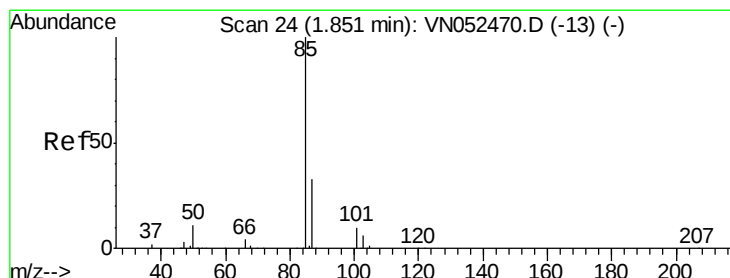
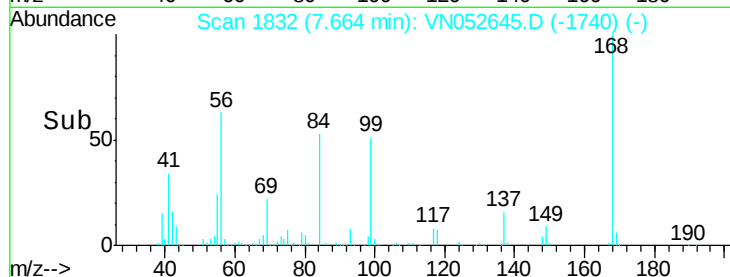
200000

100000

0

7.60 7.70 7.80

Time-->



#2

Dichlorodifluoromethane

Concen: 44.058 ug/l

RT: 1.85 min Scan# 24

Delta R.T. 0.00 min

Lab File: VN052645.D

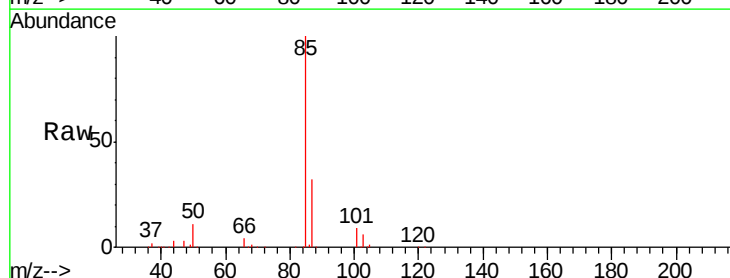
Acq: 4 Dec 2018 10:47

Tgt Ion: 85 Resp: 427840

Ion Ratio Lower Upper

85 100

87 32.0 16.7 50.1



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO

1.85

300000

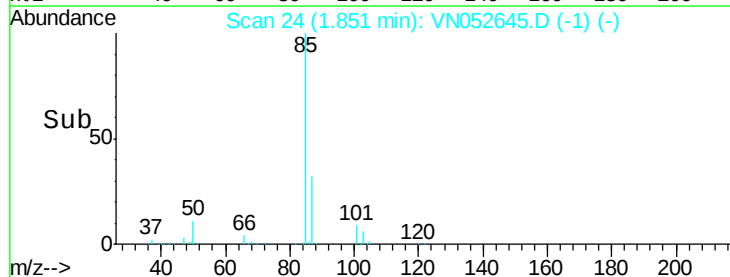
200000

100000

0

1.80 1.90 2.00

Time-->





#3
Chloromethane
Concen: 42.506 ug/l
RT: 2.06 min Scan# 89
Delta R.T. 0.00 min
Lab File: VN052645.D
Acq: 4 Dec 2018 10:47

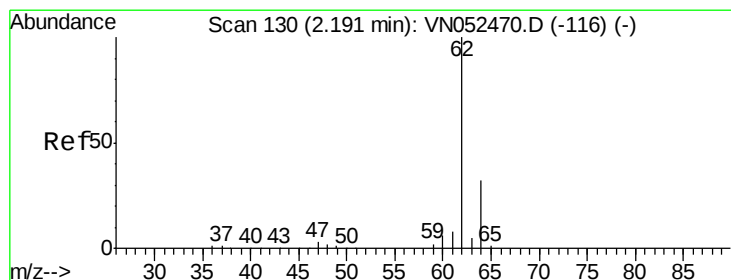
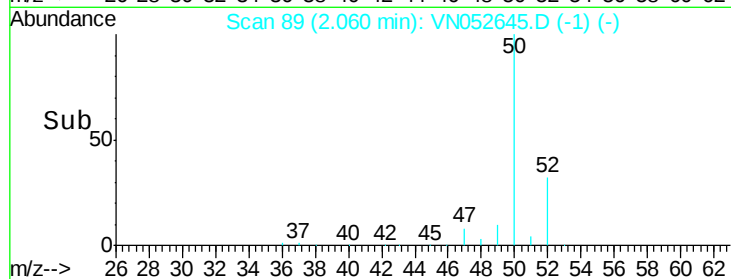
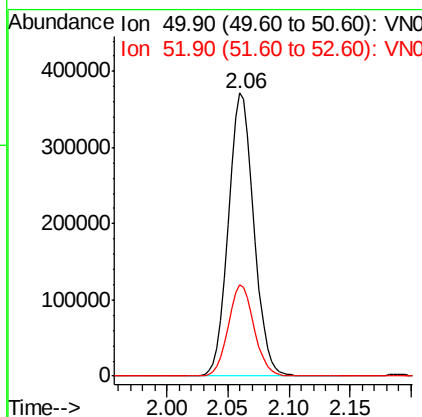
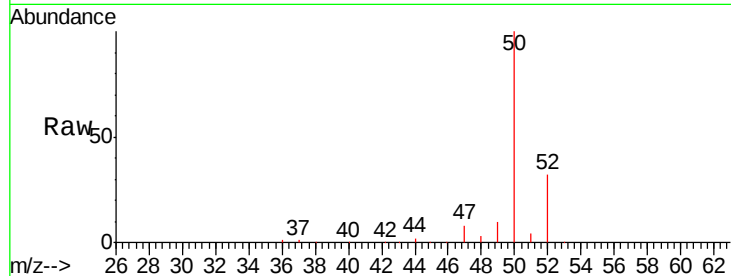
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 50 Resp: 544855
Ion Ratio Lower Upper
50 100
52 32.2 25.9 38.9

Manual Integrations
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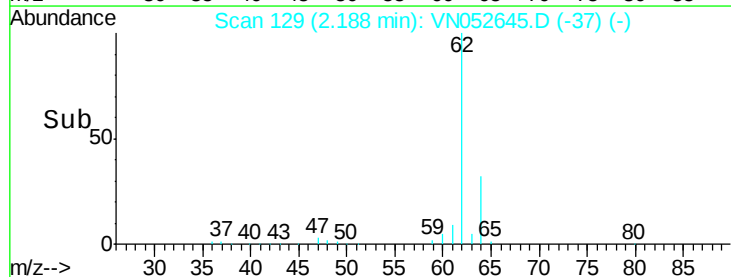
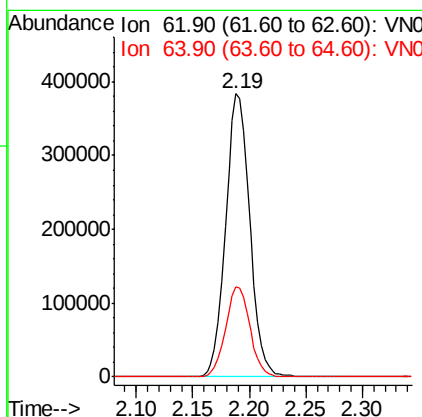
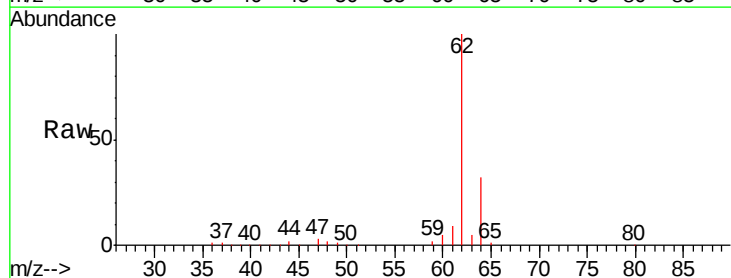
MMDadoda

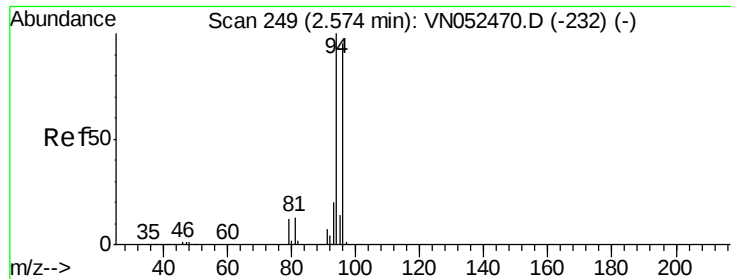
12/5/2018 9:12:58 AM



#4
Vinyl Chloride
Concen: 43.420 ug/l
RT: 2.19 min Scan# 129
Delta R.T. -0.00 min
Lab File: VN052645.D
Acq: 4 Dec 2018 10:47

Tgt Ion: 62 Resp: 571737
Ion Ratio Lower Upper
62 100
64 31.8 25.4 38.2





#5

Bromomethane

Concen: 42.072 ug/l

RT: 2.57 min Scan# 247

Delta R.T. -0.01 min

Lab File: VN052645.D

Acq: 4 Dec 2018 10:47

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 94 Resp: 345659

Ion Ratio Lower Upper

94 100

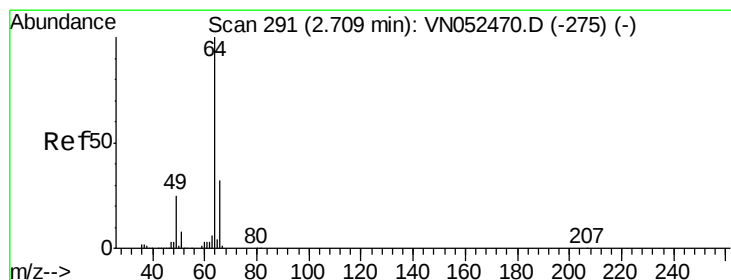
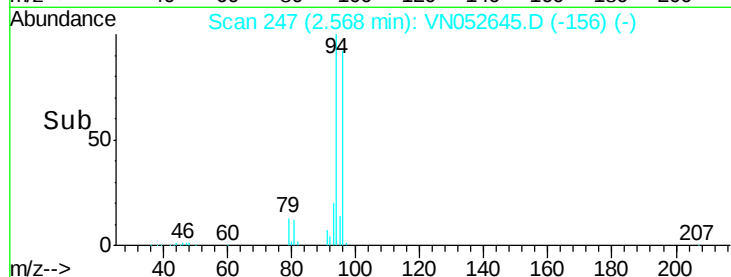
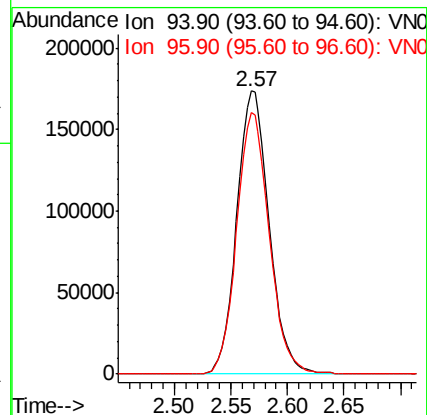
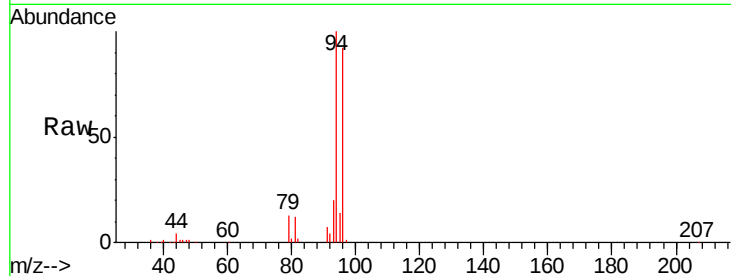
96 92.2 75.8 113.8

Manual Integrations

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12/5/2018 9:12:58 AM



#6

Chloroethane

Concen: 43.735 ug/l

RT: 2.71 min Scan# 290

Delta R.T. -0.00 min

Lab File: VN052645.D

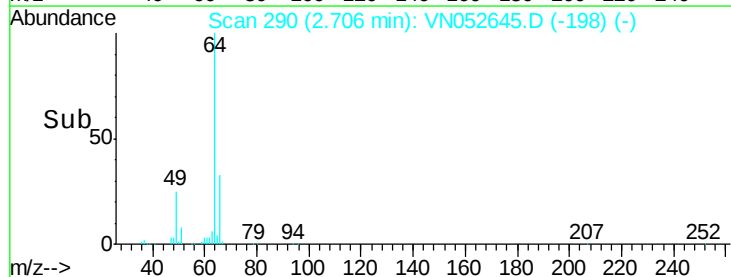
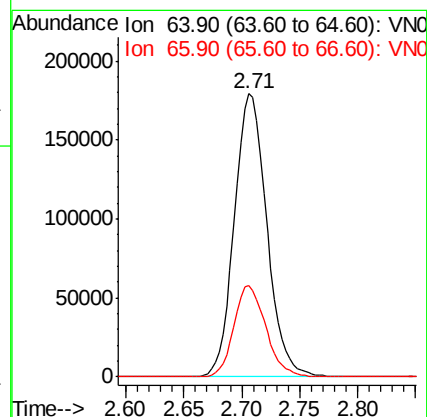
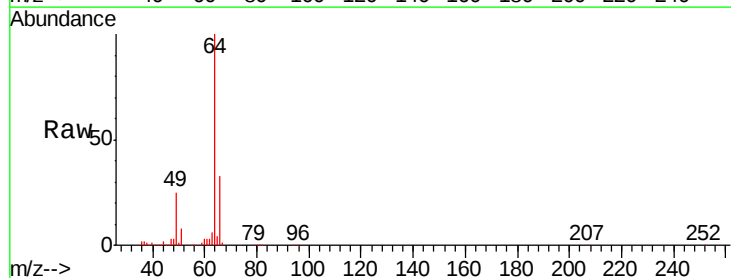
Acq: 4 Dec 2018 10:47

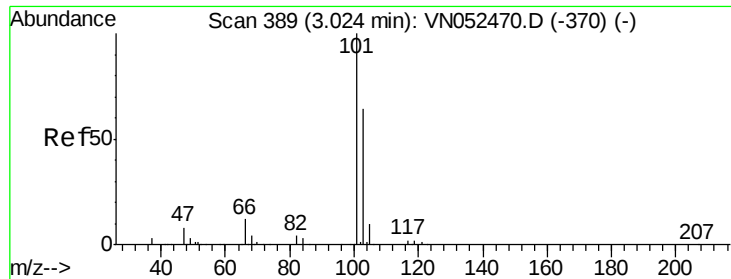
Tgt Ion: 64 Resp: 348832

Ion Ratio Lower Upper

64 100

66 32.5 25.7 38.5





#7

Trichlorofluoromethane
 Concen: 46.509 ug/l
 RT: 3.02 min Scan# 388
 Delta R.T. -0.00 min
 Lab File: VN052645.D
 Acq: 4 Dec 2018 10:47

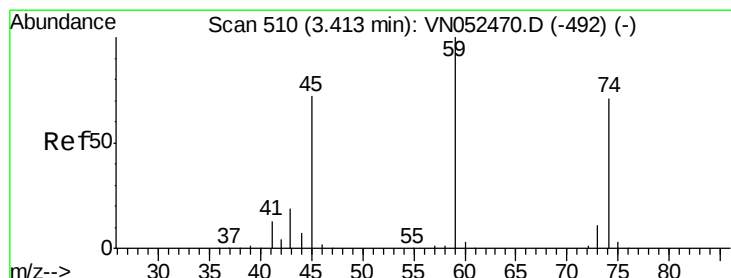
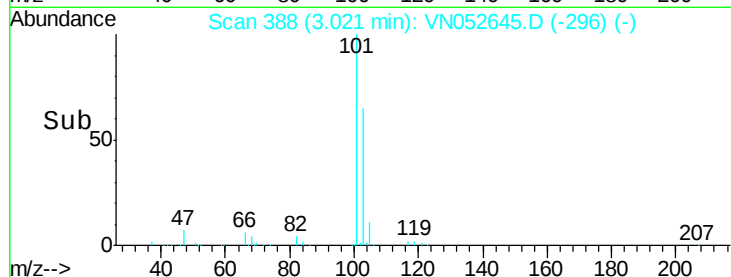
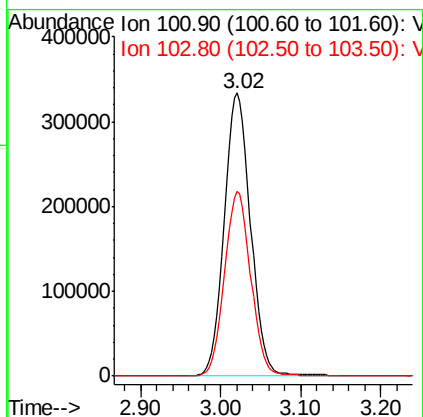
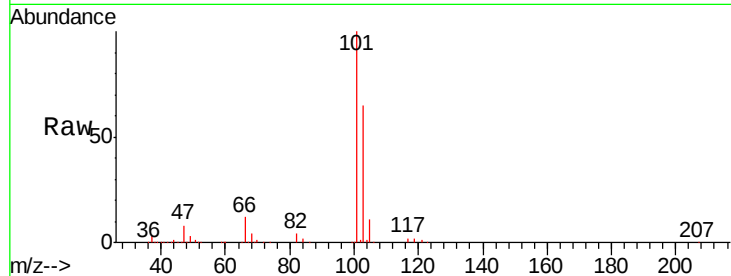
Instrument :
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 VSTDCCC050

Tgt Ion	Ratio	Resp	Lower	Upper
101	100	752265		
103	65.3	51.4	77.2	

Manual Integrations
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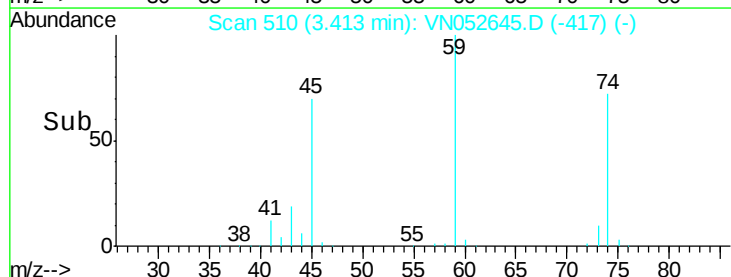
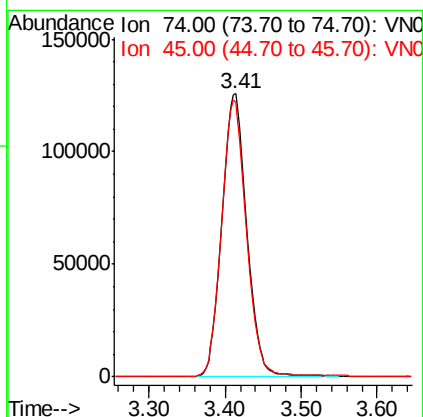
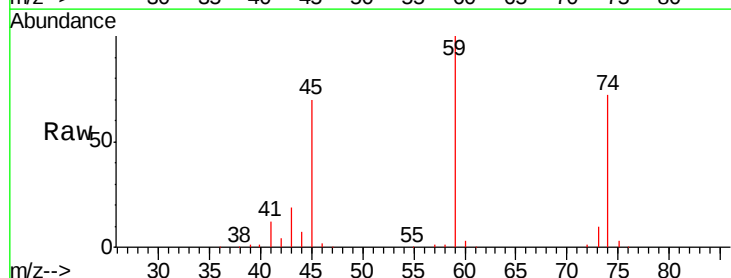
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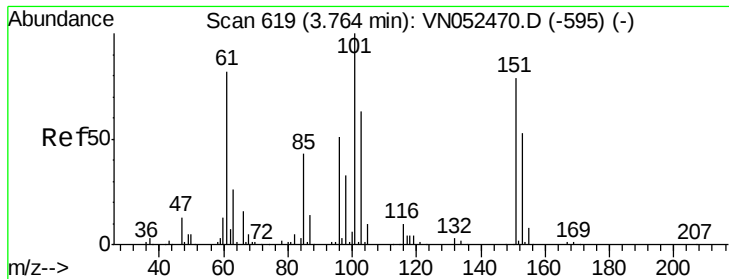


#8

Diethyl Ether
 Concen: 48.164 ug/l
 RT: 3.41 min Scan# 510
 Delta R.T. 0.00 min
 Lab File: VN052645.D
 Acq: 4 Dec 2018 10:47

Tgt Ion	Ratio	Resp	Lower	Upper
74	100	287684		
45	96.9	50.4	151.3	





#9

1,1,2-Trichlorotrifluoroethane

Concen: 48.046 ug/l

RT: 3.76 min Scan# 619

Delta R.T. 0.00 min

Lab File: VN052645.D

Acq: 4 Dec 2018 10:47

Instrument :

MSVOA_N

ClientSampleId :

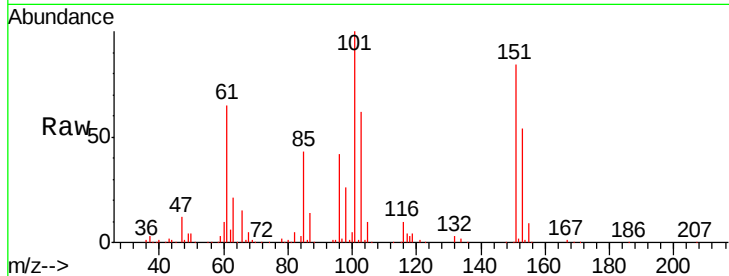
VSTDCCC050

Tgt Ion:	101	Resp:	484907
Ion Ratio	Lower	Upper	
101	100		
85	42.2	34.2	51.4
151	83.1	64.6	96.8

Manual Integrations
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MMDadoda

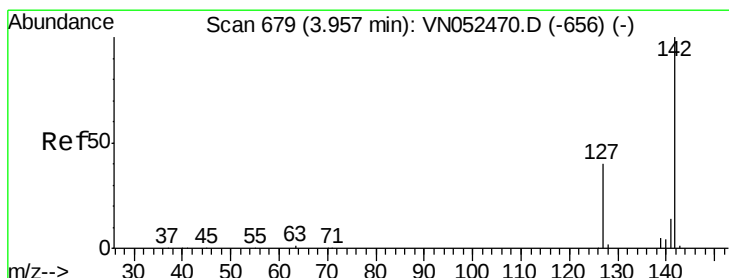
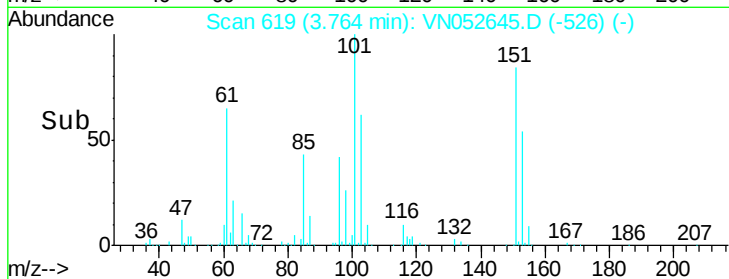
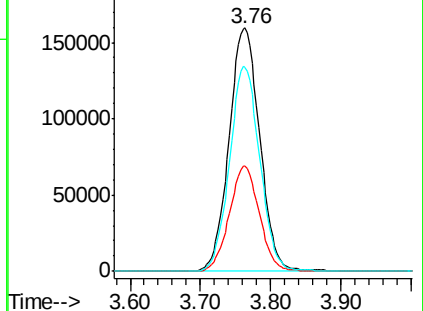
12/5/2018 9:12:58 AM



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VN

Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 51.446 ug/l

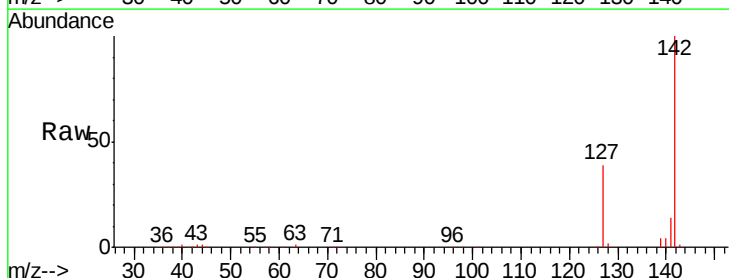
RT: 3.95 min Scan# 678

Delta R.T. -0.00 min

Lab File: VN052645.D

Acq: 4 Dec 2018 10:47

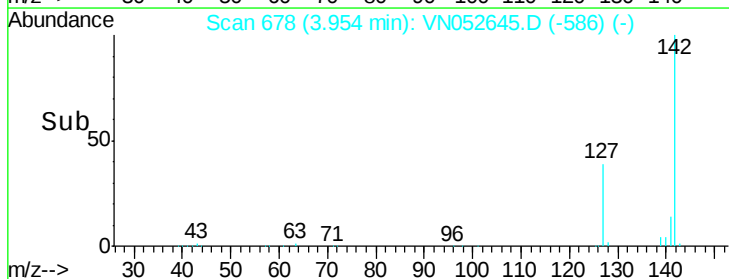
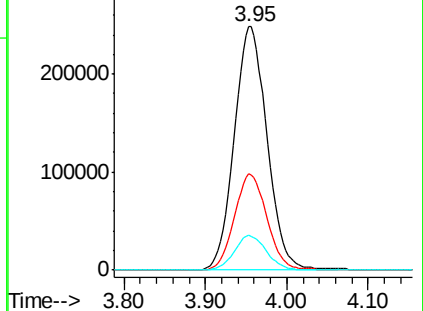
Tgt Ion:	142	Resp:	691545
Ion Ratio	Lower	Upper	
142	100		
127	39.4	31.8	47.6
141	14.1	11.4	17.0

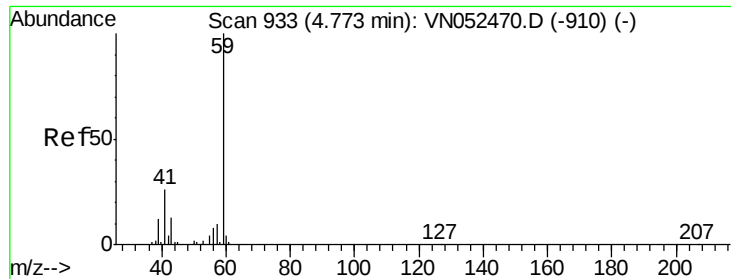


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V





#11

Tert butyl alcohol
 Concen: 247.703 ug/l
 RT: 4.78 min Scan# 936
 Delta R.T. 0.01 min
 Lab File: VN052645.D
 Acq: 4 Dec 2018 10:47

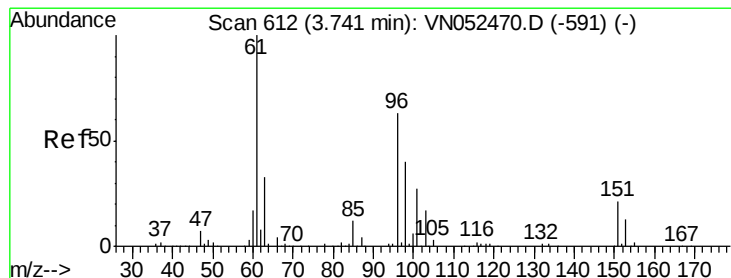
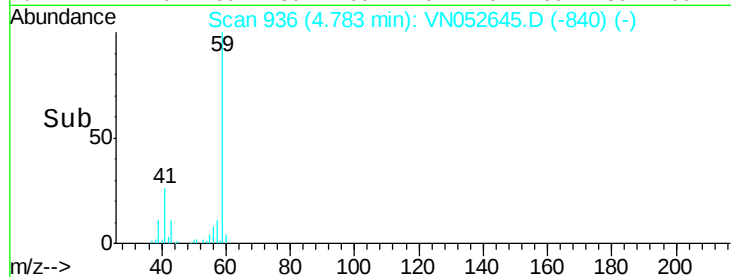
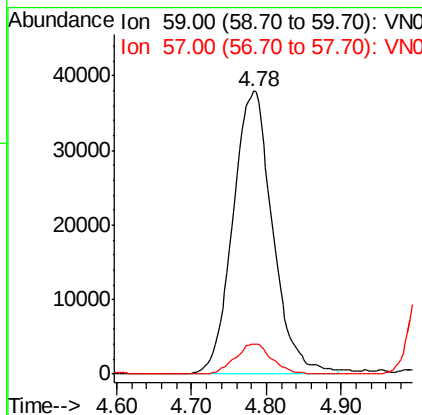
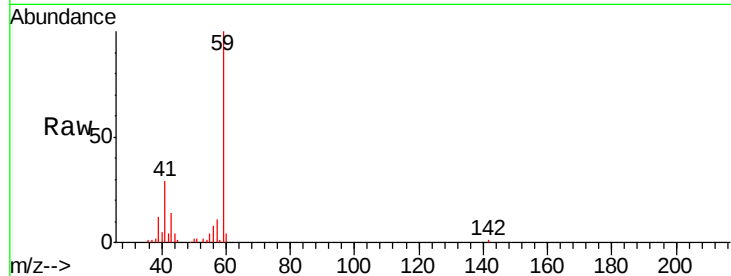
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tgt Ion	Ratio	Lower	Upper
59	100		
57	9.7	7.9	11.9

Manual Integrations
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MMDadoda

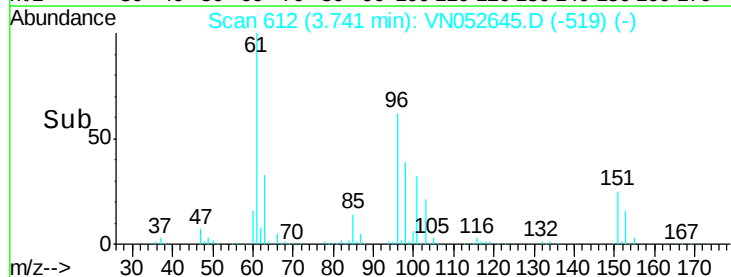
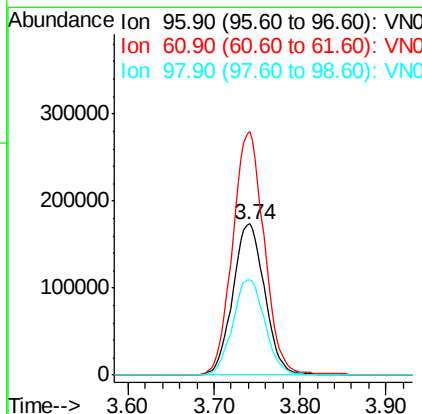
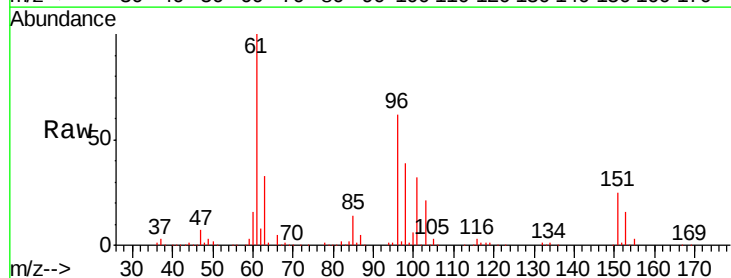
12/5/2018 9:12:58 AM

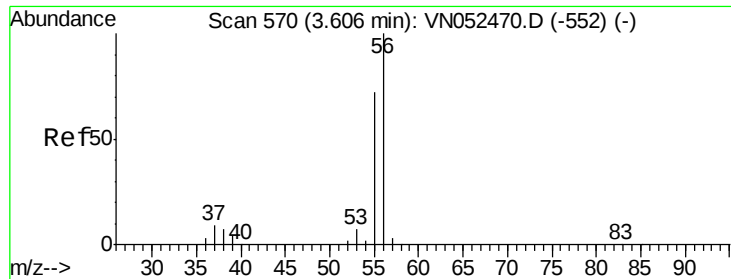


#12

1,1-Dichloroethene
 Concen: 46.209 ug/l
 RT: 3.74 min Scan# 612
 Delta R.T. 0.00 min
 Lab File: VN052645.D
 Acq: 4 Dec 2018 10:47

Tgt Ion	Ratio	Lower	Upper
96	100		
61	161.0	127.0	190.6
98	62.8	50.3	75.5





#13
Acrolein
Concen: 160.189 ug/l
RT: 3.61 min Scan# 570
Delta R.T. 0.00 min
Lab File: VN052645.D
Acq: 4 Dec 2018 10:47

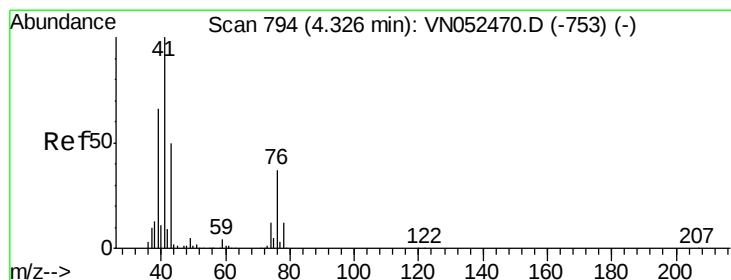
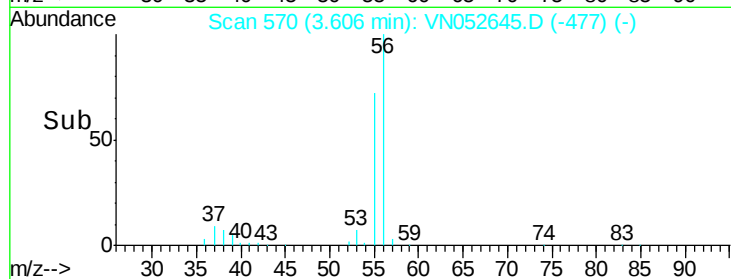
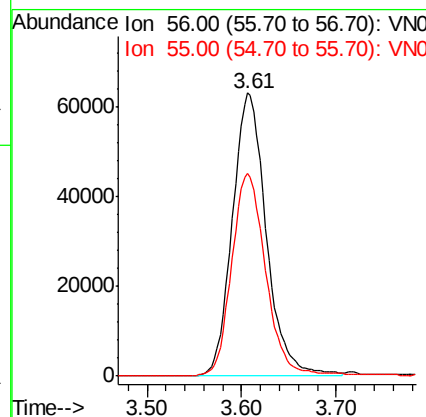
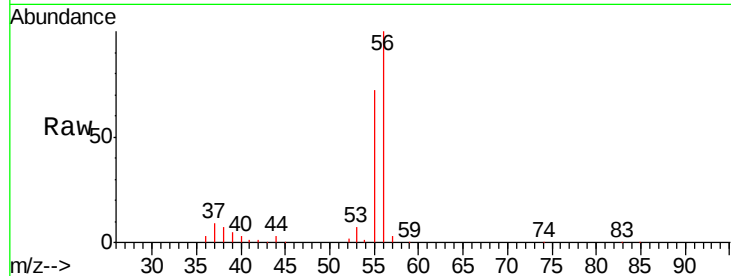
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion	Ratio	Lower	Upper
56	100		
55	72.1	56.8	85.2

Manual Integrations
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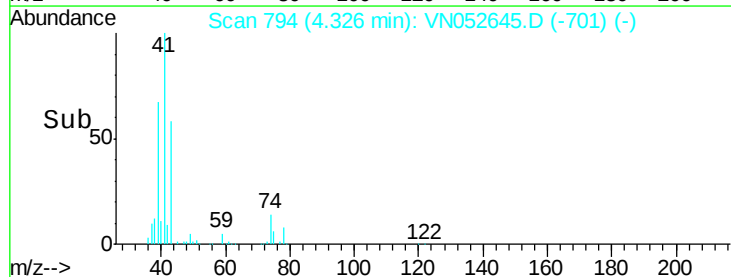
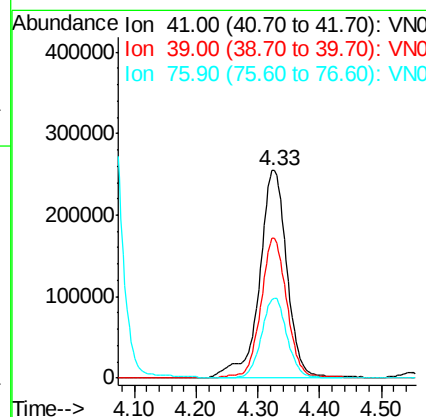
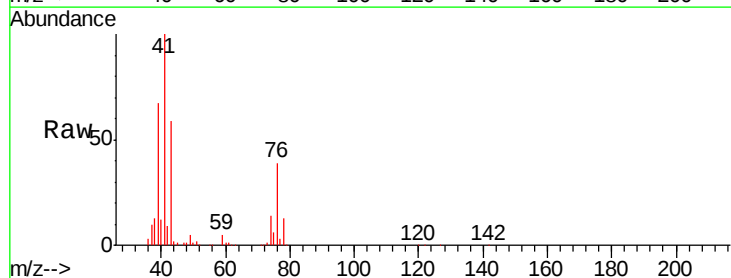
MMDadoda

12/5/2018 9:12:58 AM



#14
Allyl chloride
Concen: 47.058 ug/l
RT: 4.33 min Scan# 794
Delta R.T. 0.00 min
Lab File: VN052645.D
Acq: 4 Dec 2018 10:47

Tgt Ion	Ratio	Lower	Upper
41	100		
39	64.1	50.6	76.0
76	35.2	27.4	41.2





#15

Acrylonitrile

Concen: 244.823 ug/l

RT: 4.99 min Scan# 999

Delta R.T. 0.00 min

Lab File: VN052645.D

Acq: 4 Dec 2018 10:47

Instrument :

MSVOA_N

ClientSampleId :

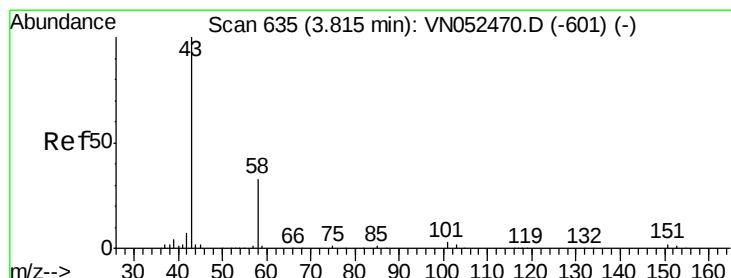
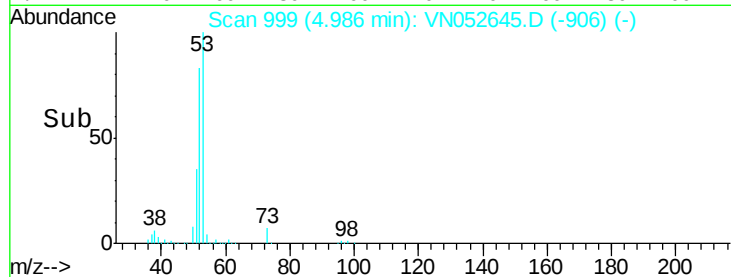
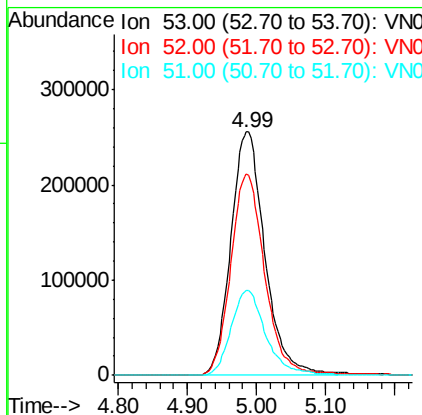
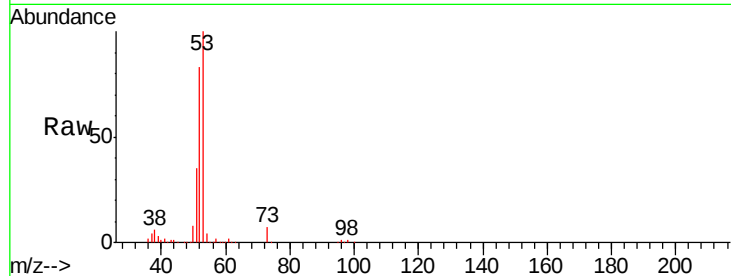
VSTDCCC050

Tgt Ion:	53	Resp:	876109
Ion	Ratio	Lower	Upper
53	100		
52	81.7	66.2	99.2
51	35.9	28.1	42.1

Manual Integrations
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#16

Acetone

Concen: 256.614 ug/l

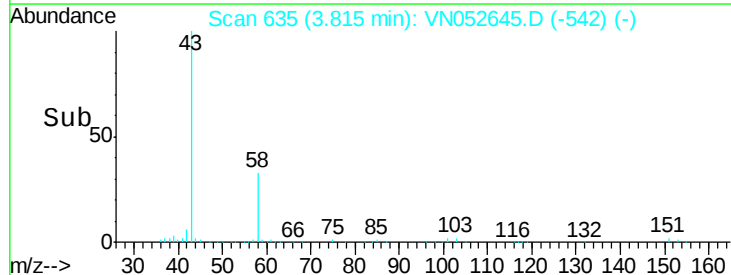
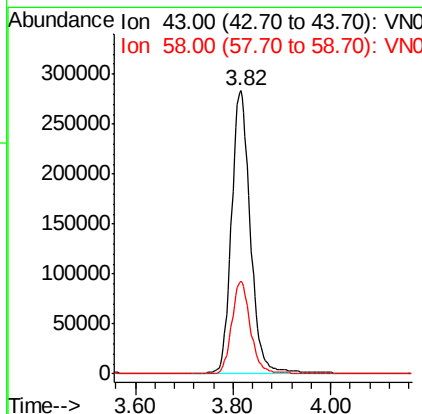
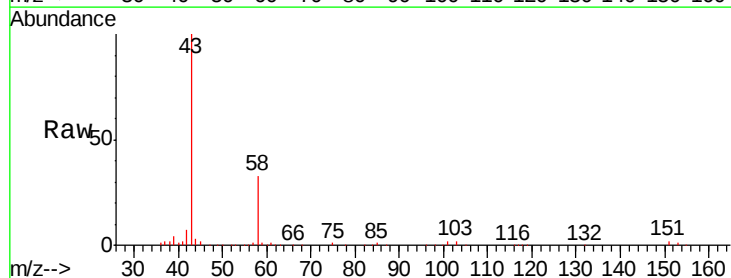
RT: 3.82 min Scan# 635

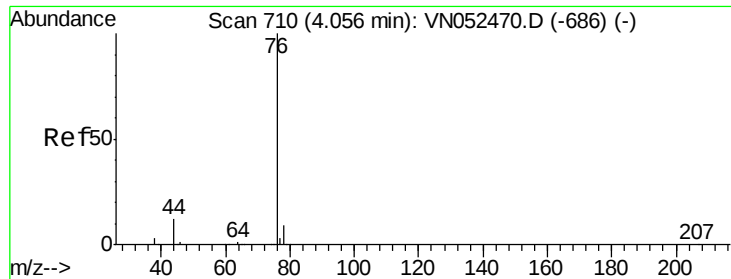
Delta R.T. 0.00 min

Lab File: VN052645.D

Acq: 4 Dec 2018 10:47

Tgt Ion:	43	Resp:	764305
Ion	Ratio	Lower	Upper
43	100		
58	32.5	26.0	39.0





#17
Carbon Disulfide
Concen: 42.111 ug/l
RT: 4.06 min Scan# 710
Delta R.T. 0.00 min
Lab File: VN052645.D
Acq: 4 Dec 2018 10:47

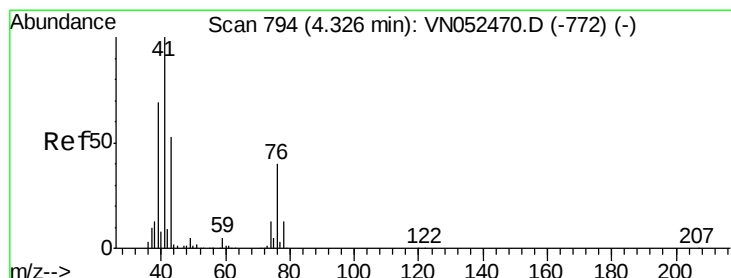
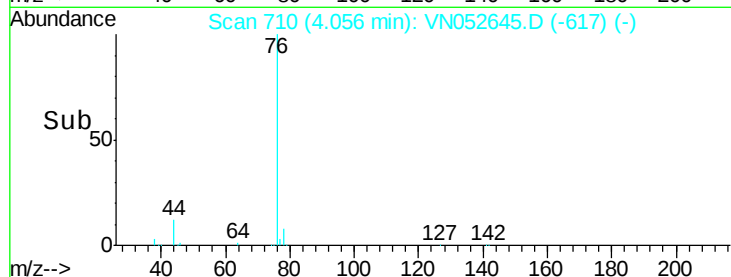
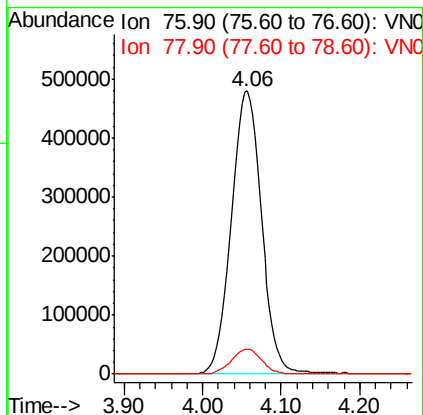
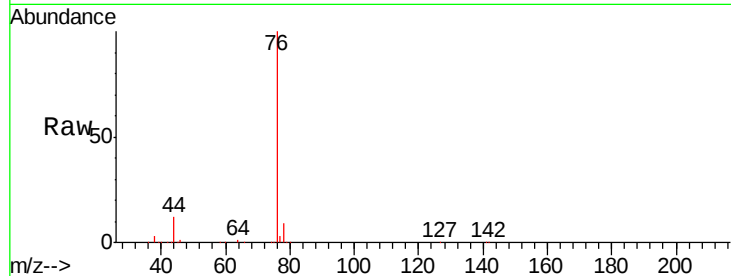
Instrument :
MSVOA_N
ClientSampled :
VSTDCCC050

Tgt Ion: 76 Resp: 1287448
Ion Ratio Lower Upper
76 100
78 8.9 7.4 11.0

Manual Integrations
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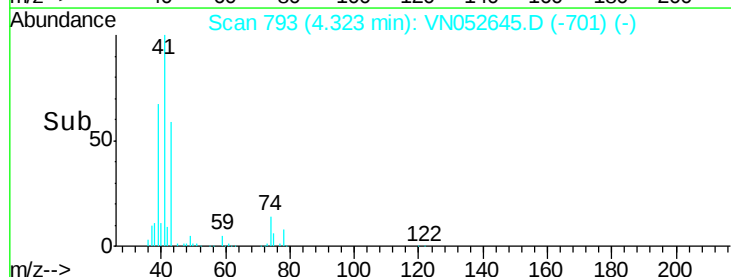
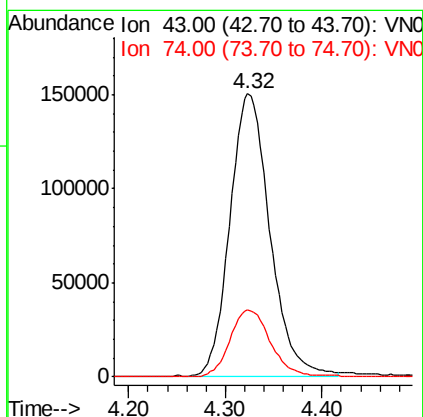
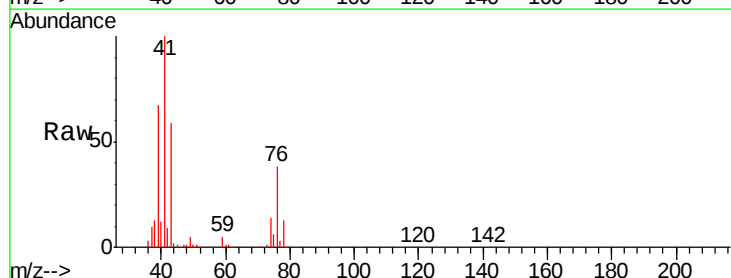
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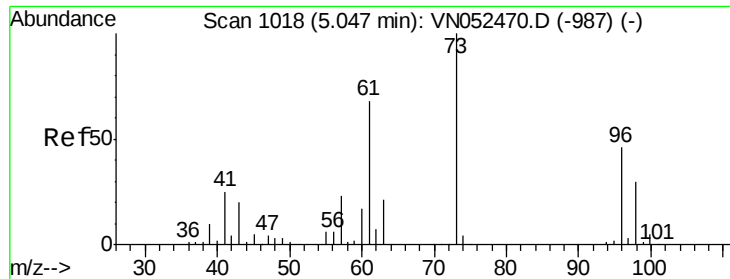
12/5/2018 9:12:58 AM



#18
Methyl Acetate
Concen: 50.299 ug/l
RT: 4.32 min Scan# 793
Delta R.T. -0.00 min
Lab File: VN052645.D
Acq: 4 Dec 2018 10:47

Tgt Ion: 43 Resp: 429728
Ion Ratio Lower Upper
43 100
74 24.5 18.6 27.8





#19
Methyl tert-butyl Ether
Concen: 48.855 ug/l
RT: 5.04 min Scan# 1017
Delta R.T. -0.00 min
Lab File: VN052645.D
Acq: 4 Dec 2018 10:47

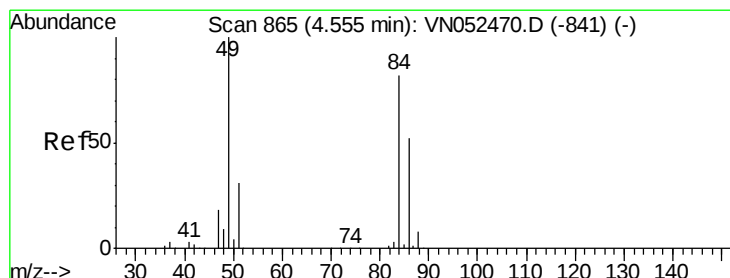
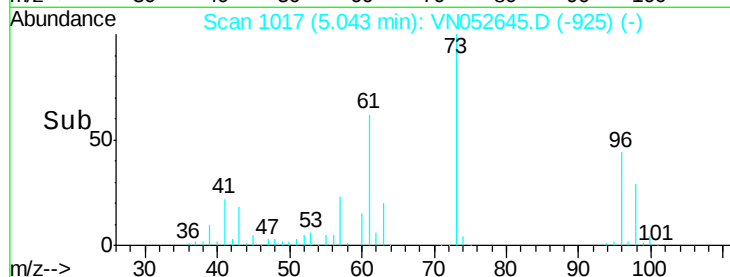
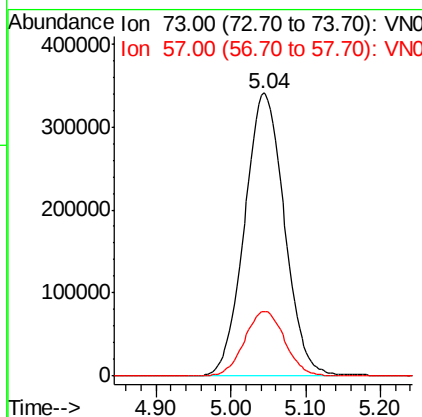
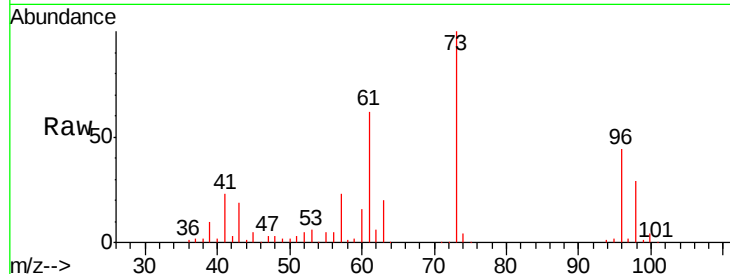
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 73 Resp: 1262804
Ion Ratio Lower Upper
73 100
57 23.0 18.2 27.2

Manual Integrations
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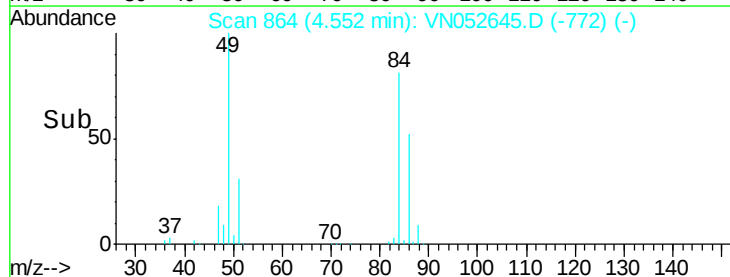
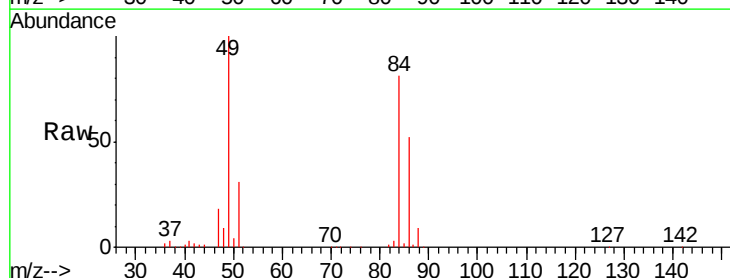
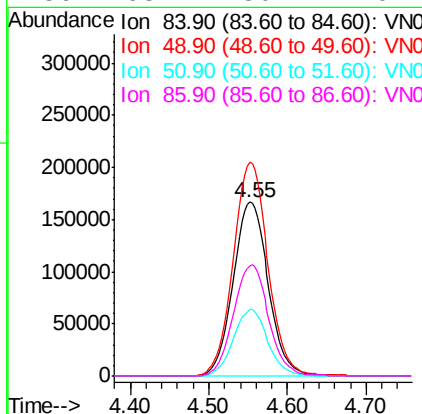
MMDadoda

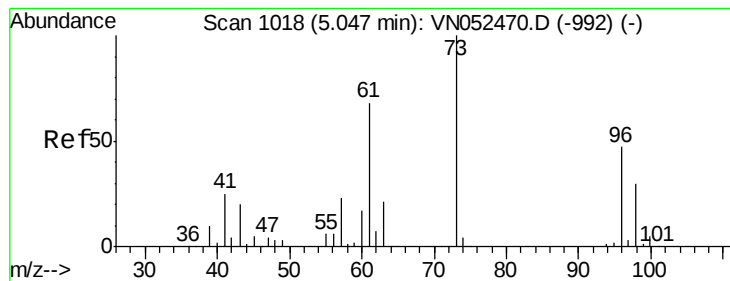
12/5/2018 9:12:58 AM



#20
Methylene Chloride
Concen: 44.614 ug/l
RT: 4.55 min Scan# 864
Delta R.T. -0.00 min
Lab File: VN052645.D
Acq: 4 Dec 2018 10:47

Tgt Ion: 84 Resp: 519996
Ion Ratio Lower Upper
84 100
49 122.8 98.0 147.0
51 38.2 30.1 45.1
86 63.4 50.7 76.1





#21

trans-1,2-Dichloroethene

Concen: 46.424 ug/l

RT: 5.04 min Scan# 1017

Delta R.T. -0.00 min

Lab File: VN052645.D

Acq: 4 Dec 2018 10:47

Instrument :

MSVOA_N

ClientSampled :

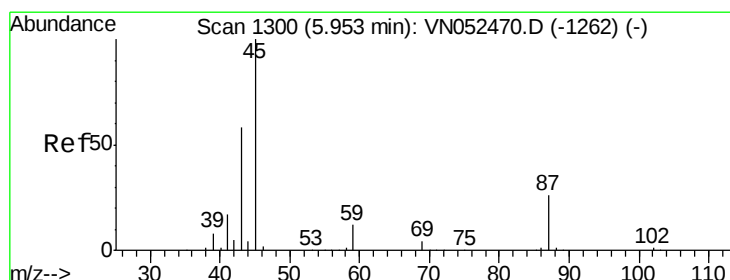
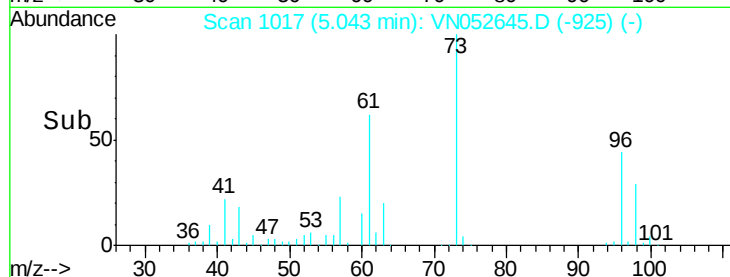
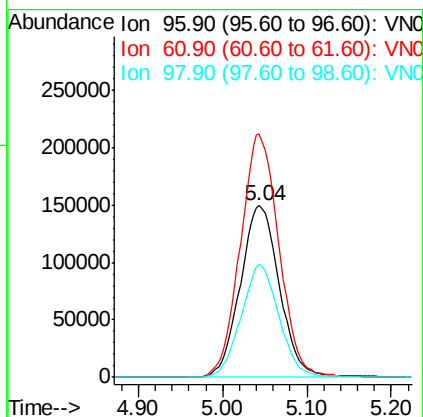
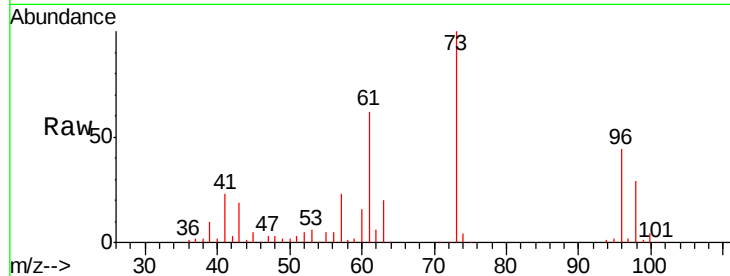
VSTDCCC050

Tgt Ion:	96	Resp:	481684
Ion	Ratio	Lower	Upper
96	100		
61	141.8	117.0	175.4
98	65.9	51.8	77.6

Manual Integrations
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12/5/2018 9:12:58 AM



#22

Diisopropyl ether

Concen: 47.207 ug/l

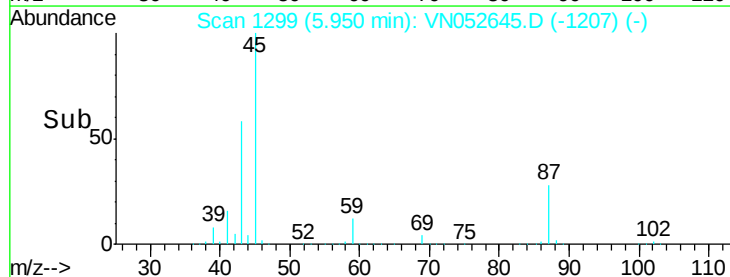
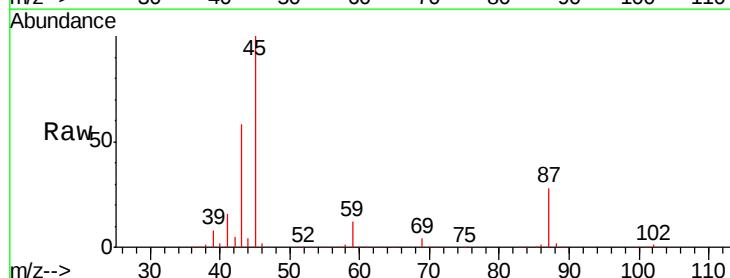
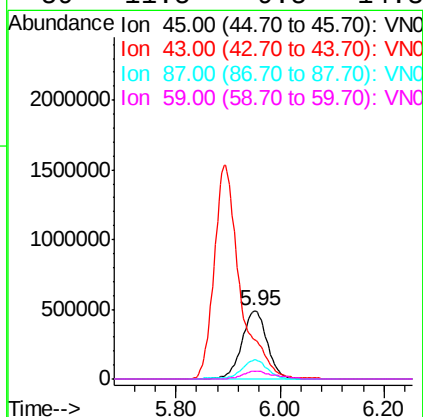
RT: 5.95 min Scan# 1299

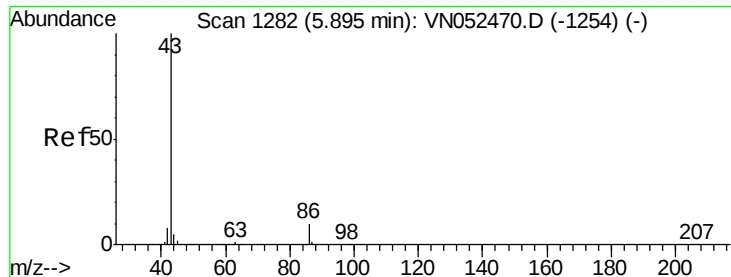
Delta R.T. -0.00 min

Lab File: VN052645.D

Acq: 4 Dec 2018 10:47

Tgt Ion:	45	Resp:	1660314
Ion	Ratio	Lower	Upper
45	100		
43	58.0	46.1	69.1
87	27.7	21.3	31.9
59	11.5	9.5	14.3





#23

Vinyl Acetate

Concen: 242.182 ug/l

RT: 5.90 min Scan# 1282

Delta R.T. 0.00 min

Lab File: VN052645.D

Acq: 4 Dec 2018 10:47

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 43 Resp: 5305284

Ion Ratio Lower Upper

43 100

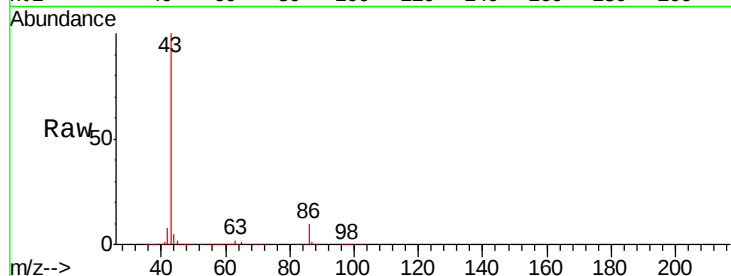
86 10.4 7.8 11.8

Manual Integrations

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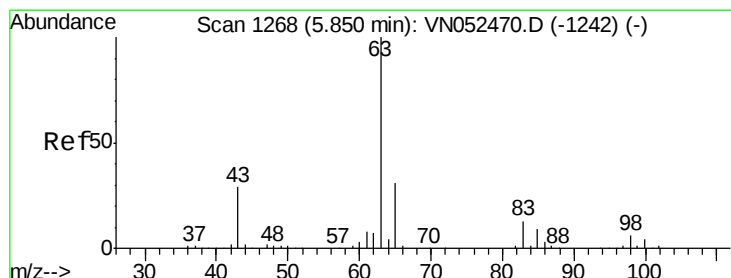
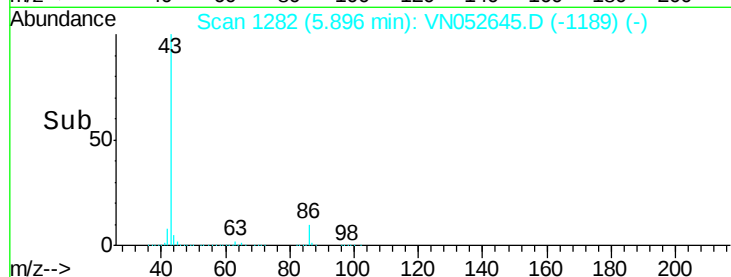
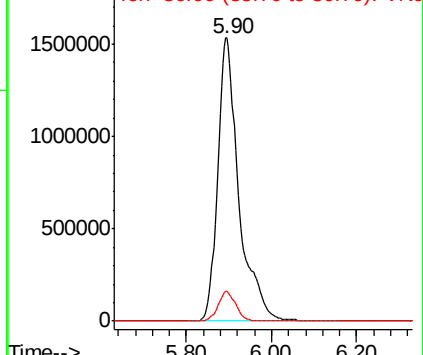
MMDadoda

12/5/2018 9:12:58 AM



Abundance Ion 43.00 (42.70 to 43.70): VN052470.D (-1254) (-)

Ion 86.00 (85.70 to 86.70): VN052470.D (-1254) (-)



#24

1,1-Dichloroethane

Concen: 46.863 ug/l

RT: 5.85 min Scan# 1268

Delta R.T. 0.00 min

Lab File: VN052645.D

Acq: 4 Dec 2018 10:47

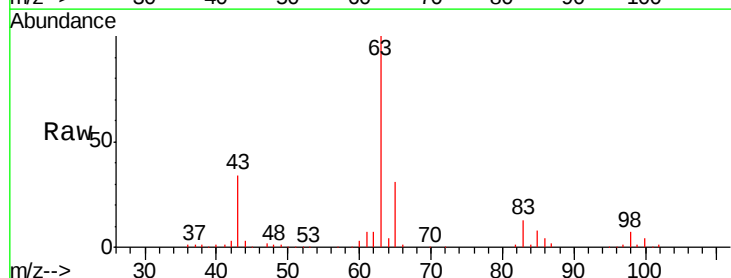
Tgt Ion: 63 Resp: 941069

Ion Ratio Lower Upper

63 100

98 6.6 3.0 9.2

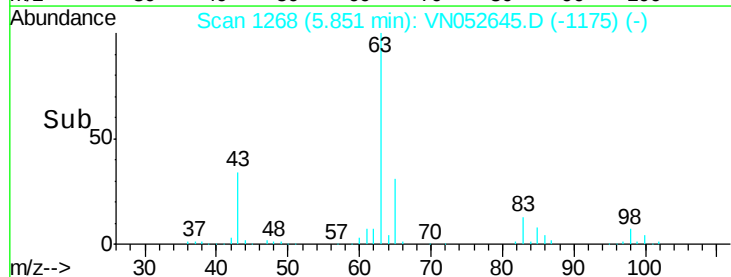
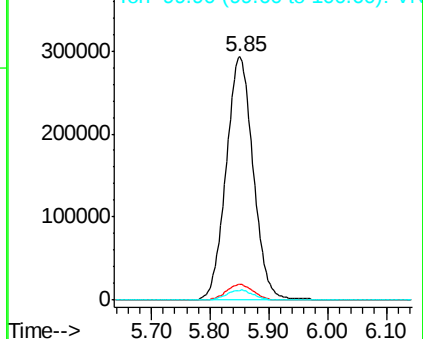
100 4.1 2.0 5.8

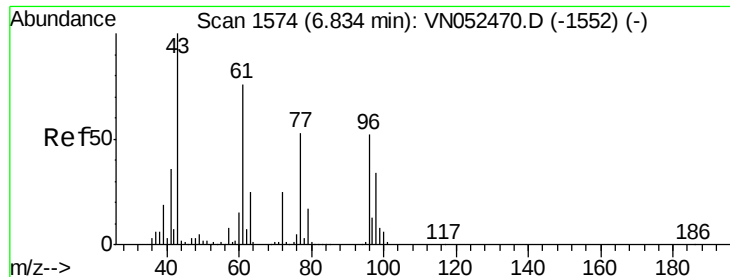


Abundance Ion 62.90 (62.60 to 63.60): VN052470.D (-1242) (-)

Ion 97.90 (97.60 to 98.60): VN052470.D (-1242) (-)

Ion 99.90 (99.60 to 100.60): VN052470.D (-1242) (-)





#25
2-Butanone
Concen: 252.730 ug/l
RT: 6.83 min Scan# 1574
Delta R.T. 0.00 min
Lab File: VN052645.D
Acq: 4 Dec 2018 10:47

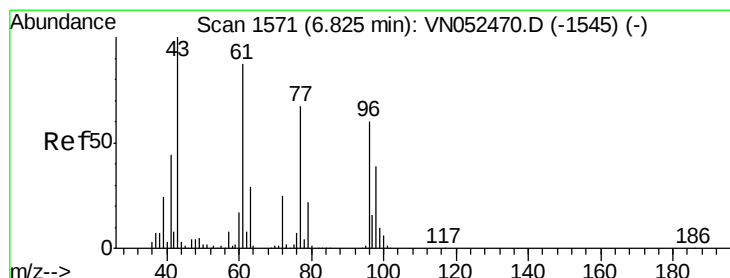
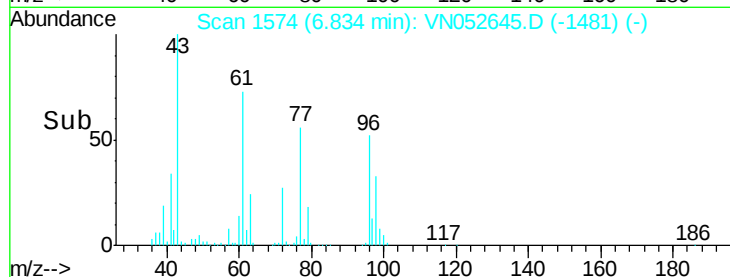
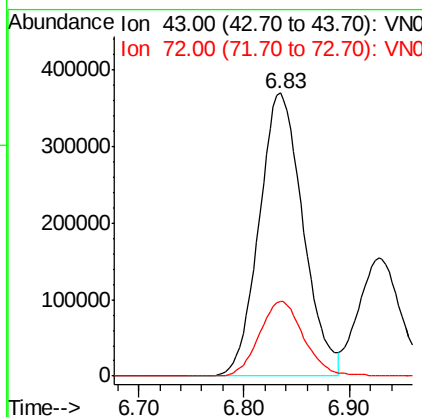
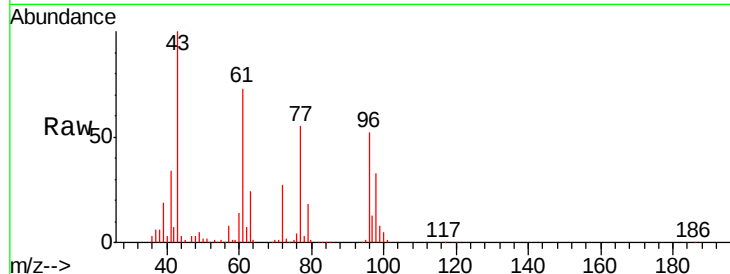
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 1066929
Ion Ratio Lower Upper
43 100
72 26.6 20.1 30.1

Manual Integrations
APPROVED

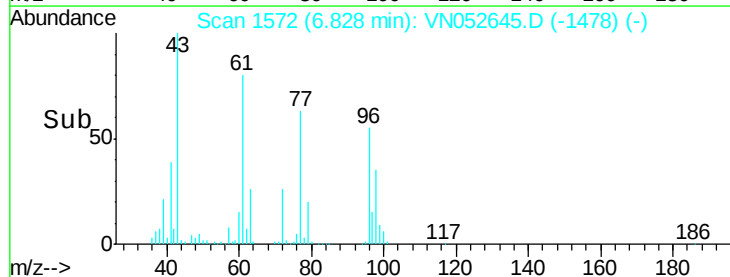
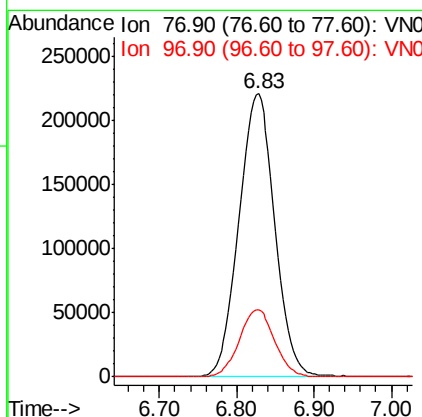
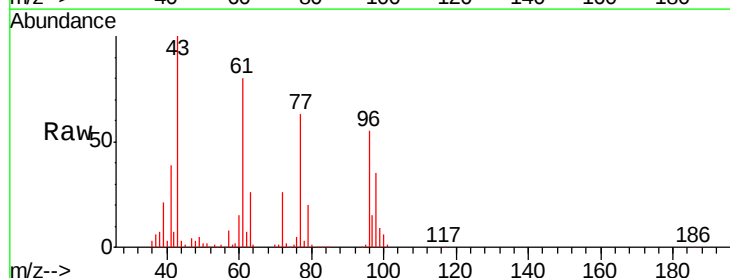
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#26
2,2-Dichloropropane
Concen: 51.168 ug/l
RT: 6.83 min Scan# 1572
Delta R.T. 0.00 min
Lab File: VN052645.D
Acq: 4 Dec 2018 10:47

Tgt Ion: 77 Resp: 711211
Ion Ratio Lower Upper
77 100
97 23.4 11.8 35.3





#27

cis-1,2-Dichloroethene

Concen: 46.872 ug/l

RT: 6.83 min Scan# 1573

Delta R.T. 0.00 min

Lab File: VN052645.D

Acq: 4 Dec 2018 10:47

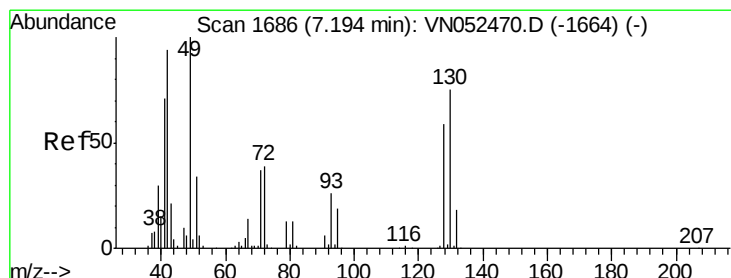
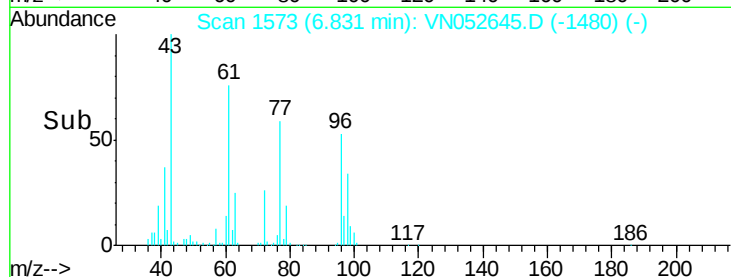
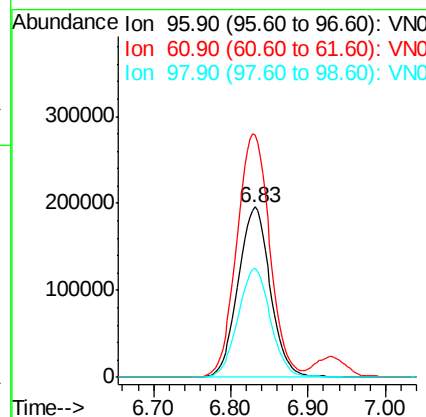
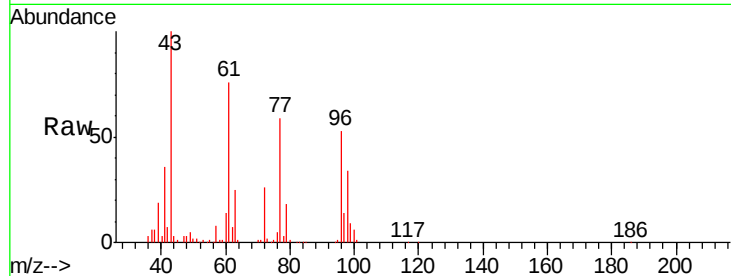
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion	Ratio	Resp	Lower	Upper
96	100	566517		
61	146.4	0.0	291.0	
98	64.9	0.0	130.0	

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#28

Bromochloromethane

Concen: 46.547 ug/l

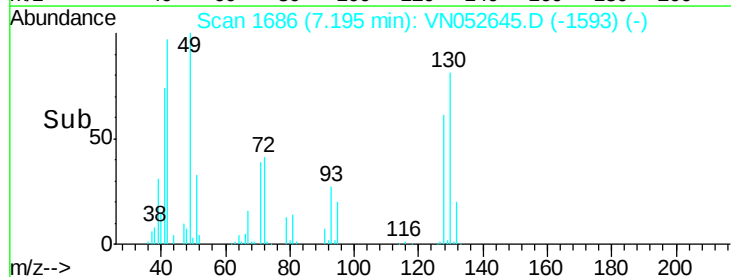
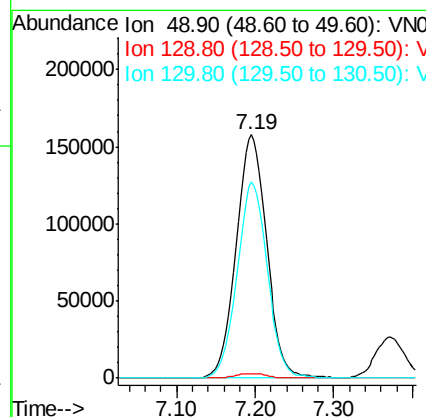
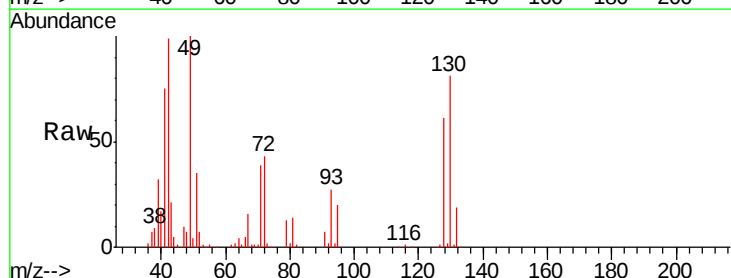
RT: 7.19 min Scan# 1686

Delta R.T. 0.00 min

Lab File: VN052645.D

Acq: 4 Dec 2018 10:47

Tgt Ion	Ratio	Resp	Lower	Upper
49	100	426934		
129	1.9	0.0	3.8	
130	79.8	60.2	90.2	





#29
Tetrahydrofuran
Concen: 240.795 ug/l
RT: 7.21 min Scan# 1691
Delta R.T. 0.00 min
Lab File: VN052645.D
Acq: 4 Dec 2018 10:47

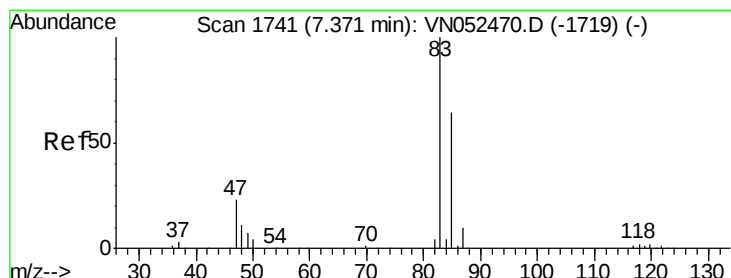
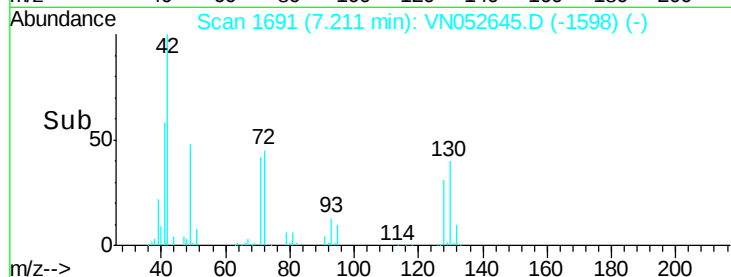
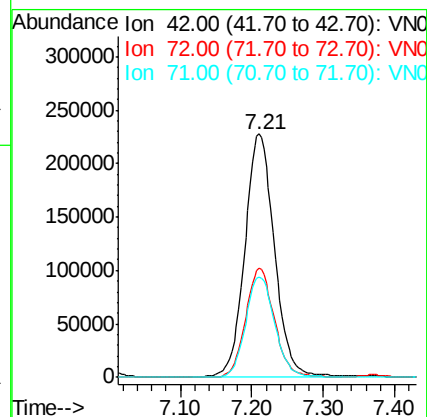
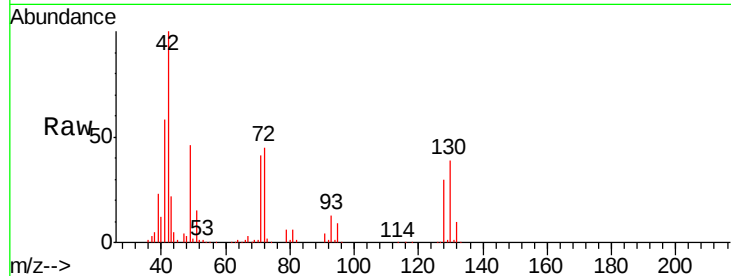
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion	Ratio	Lower	Upper
42	100		
72	43.8	33.3	49.9
71	40.8	32.0	48.0

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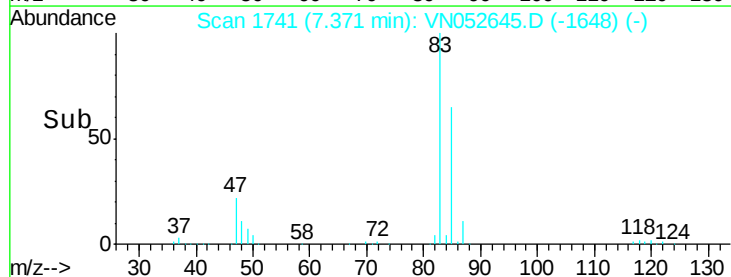
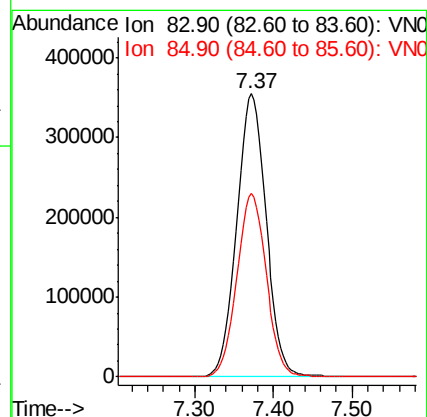
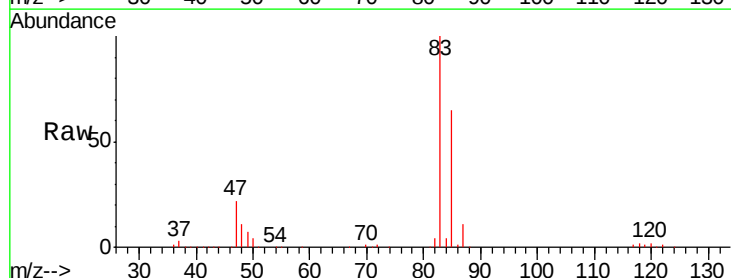
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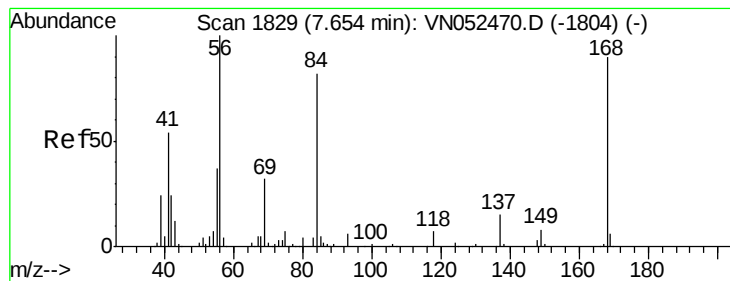
12/5/2018 9:12:58 AM



#30
Chloroform
Concen: 46.309 ug/l
RT: 7.37 min Scan# 1741
Delta R.T. 0.00 min
Lab File: VN052645.D
Acq: 4 Dec 2018 10:47

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.8	51.0	76.4





#31

Cyclohexane

Concen: 44.660 ug/l

RT: 7.65 min Scan# 1829

Delta R.T. 0.00 min

Lab File: VN052645.D

Acq: 4 Dec 2018 10:47

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 56 Resp: 868799

Ion Ratio Lower Upper

56 100

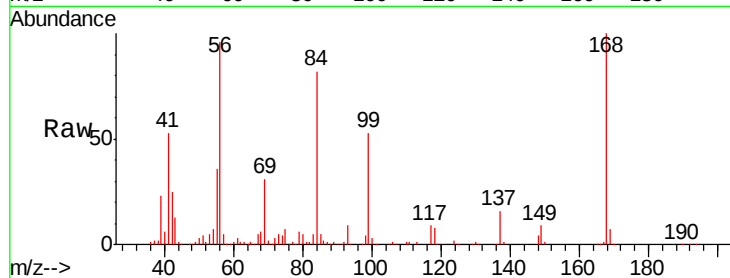
69 32.6 25.8 38.6

84 84.2 65.3 97.9

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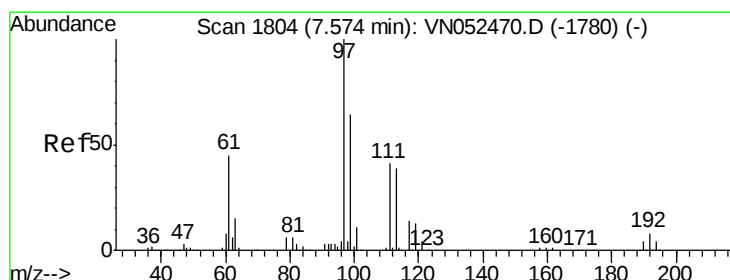
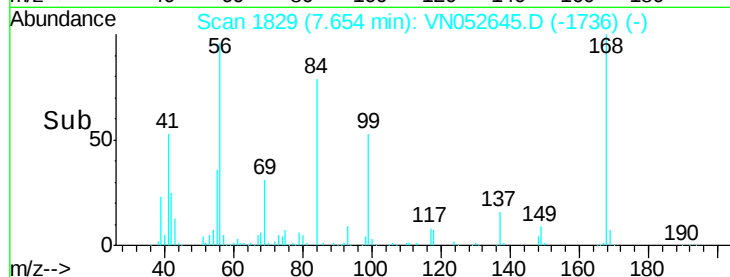
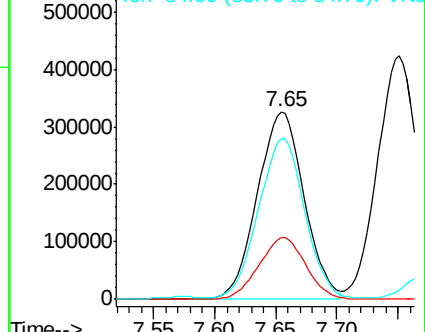
12/5/2018 9:12:58 AM



Abundance Ion 56.00 (55.70 to 56.70): VNO

Ion 69.00 (68.70 to 69.70): VNO

Ion 84.00 (83.70 to 84.70): VNO



#32

1,1,1-Trichloroethane

Concen: 48.646 ug/l

RT: 7.57 min Scan# 1803

Delta R.T. -0.00 min

Lab File: VN052645.D

Acq: 4 Dec 2018 10:47

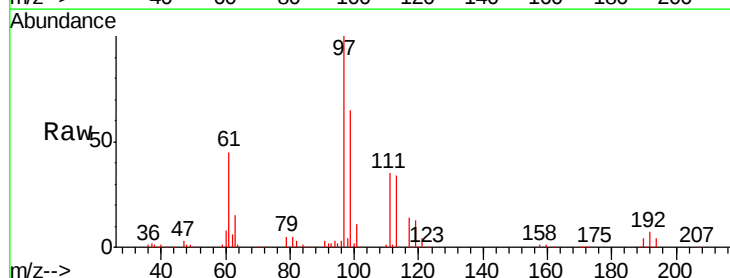
Tgt Ion: 97 Resp: 772198

Ion Ratio Lower Upper

97 100

99 64.4 51.7 77.5

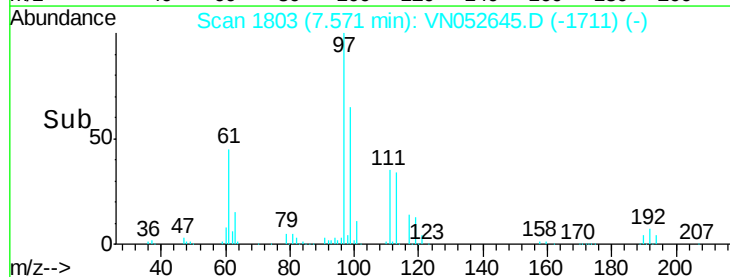
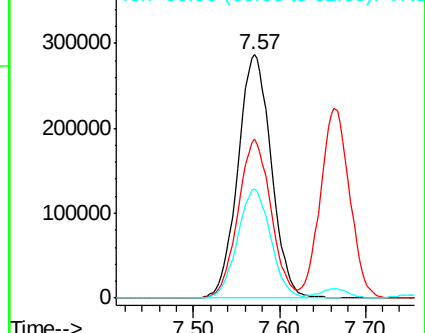
61 44.5 36.8 55.2



Abundance Ion 96.90 (96.60 to 97.60): VNO

Ion 98.90 (98.60 to 99.60): VNO

Ion 60.90 (60.60 to 61.60): VNO





#33

1,2-Dichloroethane-d4

Concen: 48.646 ug/l

RT: 8.03 min Scan# 1945

Delta R.T. 0.00 min

Lab File: VN052645.D

Acq: 4 Dec 2018 10:47

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 65 Resp: 549100

Ion Ratio Lower Upper

65 100

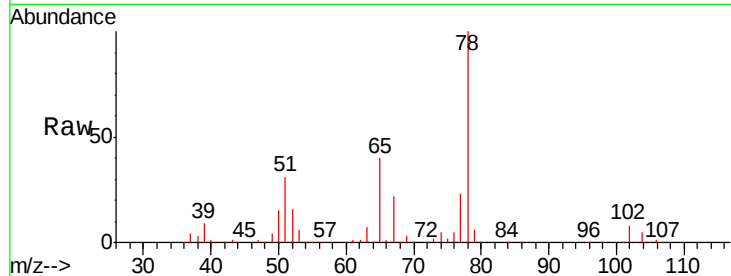
67 54.9 0.0 109.8

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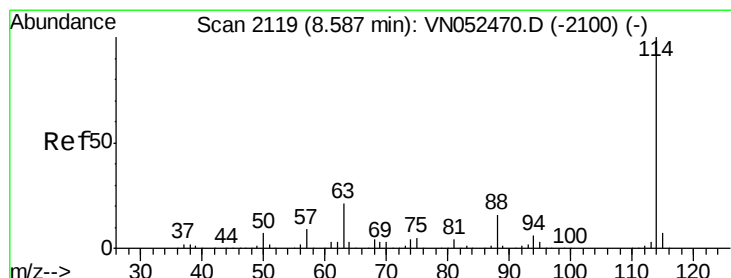
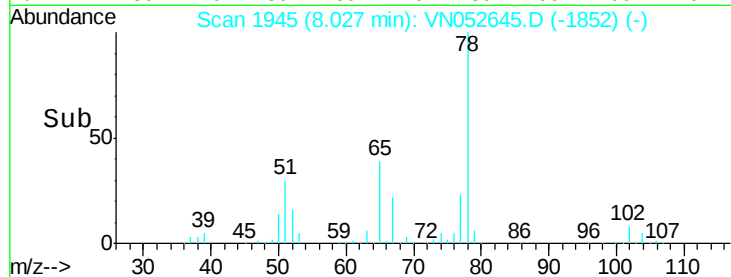
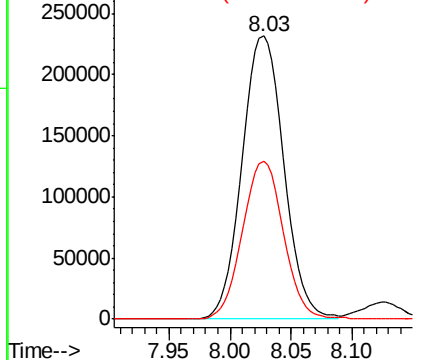
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Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. 0.00 min

Lab File: VN052645.D

Acq: 4 Dec 2018 10:47

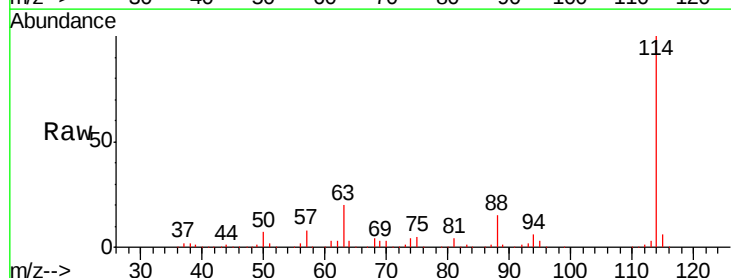
Tgt Ion: 114 Resp: 1562935

Ion Ratio Lower Upper

114 100

63 20.1 0.0 41.8

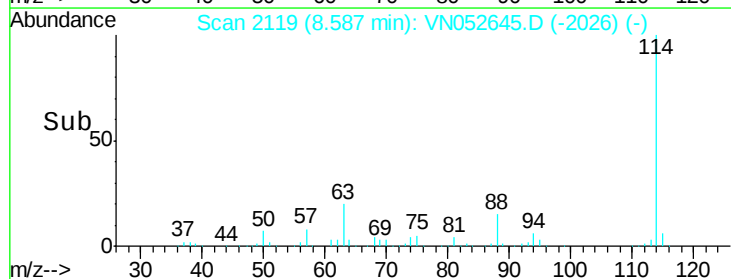
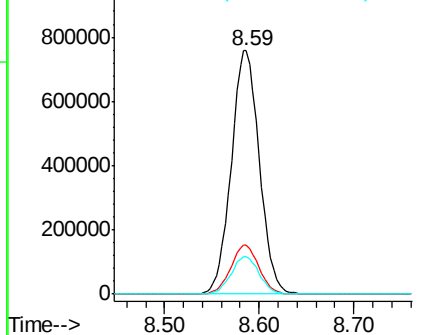
88 15.2 0.0 31.6

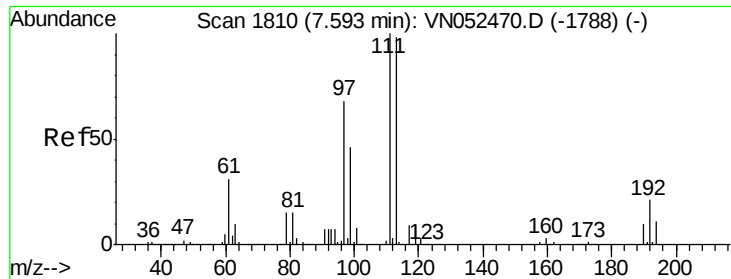


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN0

Ion 87.90 (87.60 to 88.60): VN0





#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 7.59 min Scan# 1809

Delta R.T. -0.00 min

Lab File: VN052645.D

Acq: 4 Dec 2018 10:47

Instrument :

MSVOA_N

ClientSampled :

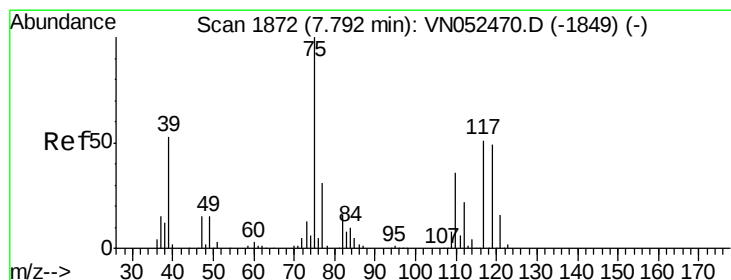
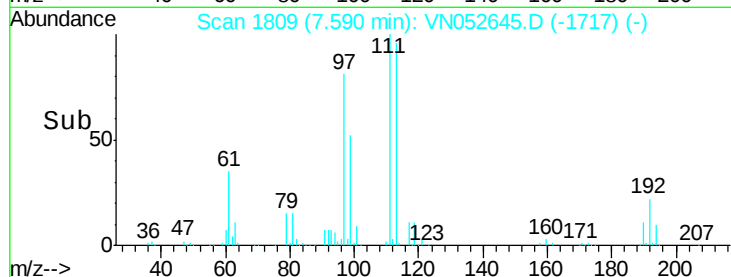
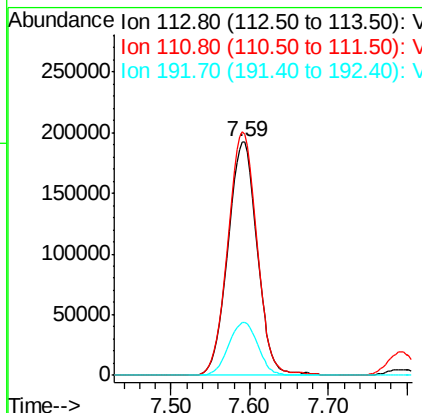
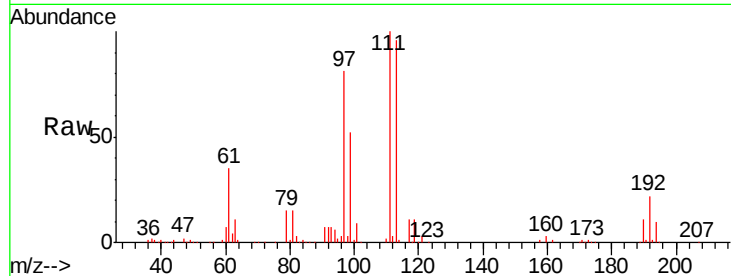
VSTDCCC050

Tgt Ion:	113	Resp:	495629
Ion Ratio	Lower	Upper	
113	100		
111	103.5	82.0	123.0
192	22.6	17.0	25.6

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#36

1,1-Dichloropropene

Concen: 47.907 ug/l

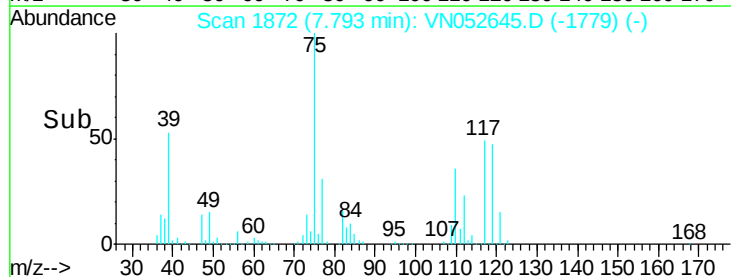
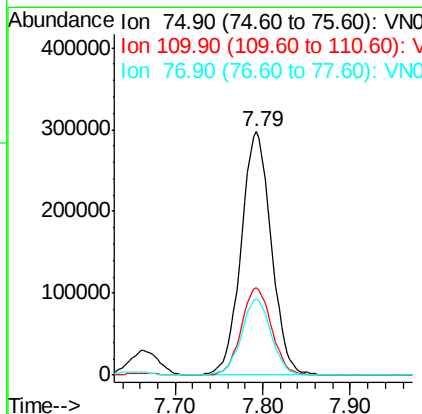
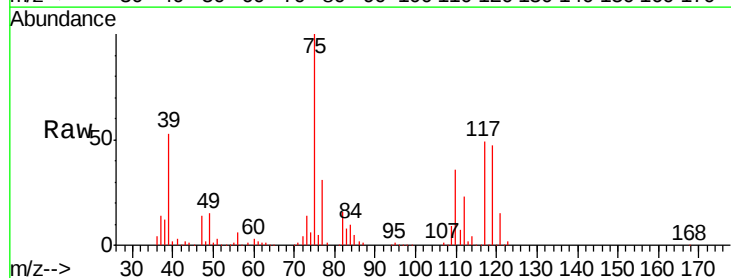
RT: 7.79 min Scan# 1872

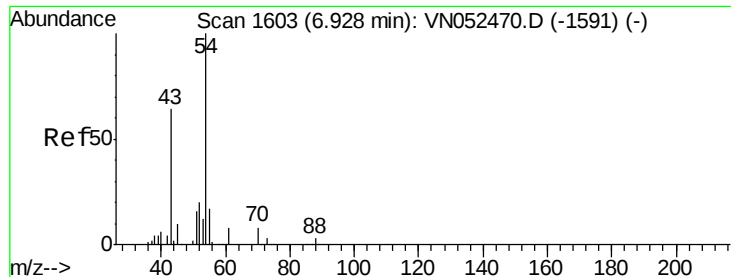
Delta R.T. 0.00 min

Lab File: VN052645.D

Acq: 4 Dec 2018 10:47

Tgt Ion:	75	Resp:	707070
Ion Ratio	Lower	Upper	
75	100		
110	36.1	17.5	52.6
77	31.4	24.5	36.7





#37
Ethyl Acetate
 Concen: 49.382 ug/l
 RT: 6.93 min Scan# 1603
 Delta R.T. 0.00 min
 Lab File: VN052645.D
 Acq: 4 Dec 2018 10:47

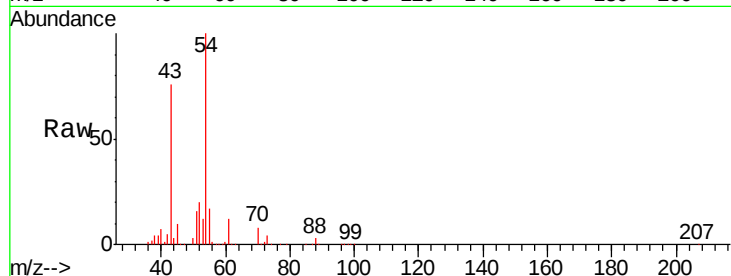
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tgt Ion:	43	Resp:	444809
Ion	Ratio	Lower	Upper
43	100		
61	14.5	11.8	17.8
70	10.4	7.8	11.8

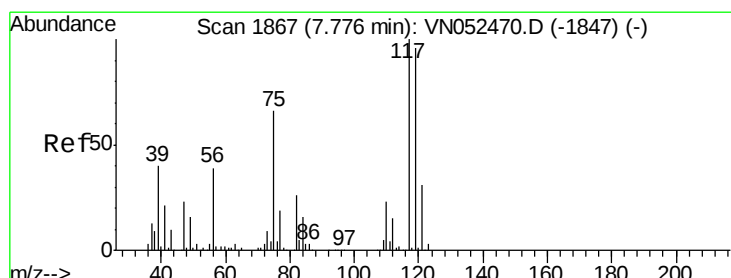
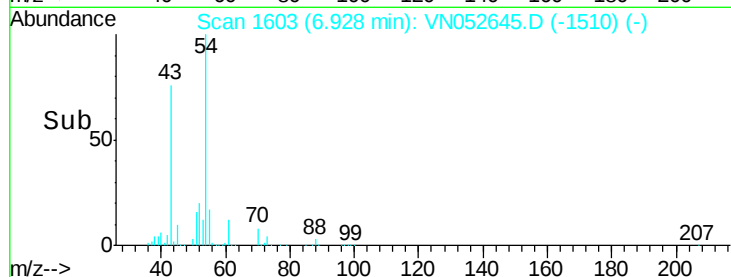
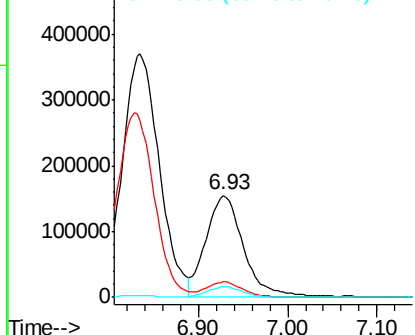
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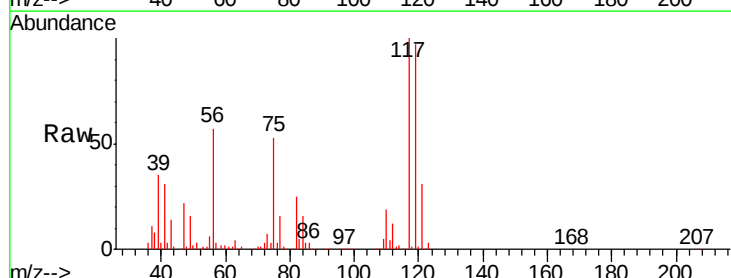


Abundance Ion 43.00 (42.70 to 43.70): VN052645.D (-1510) (-)
 Ion 60.90 (60.60 to 61.60): VN052645.D (-1510) (-)
 Ion 70.00 (69.70 to 70.70): VN052645.D (-1510) (-)

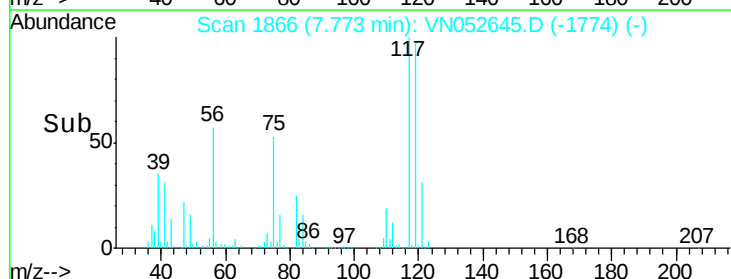
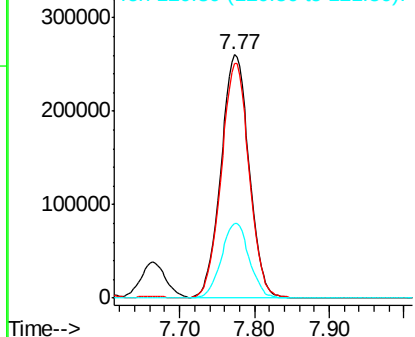


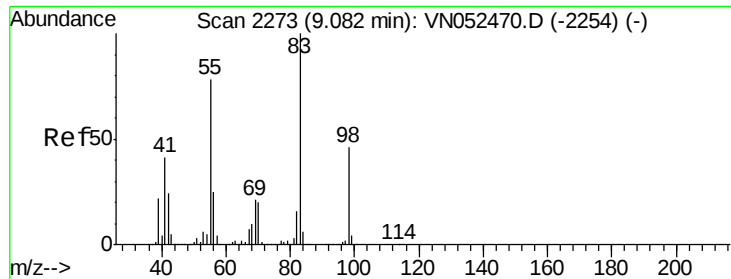
#38
Carbon Tetrachloride
 Concen: 50.715 ug/l
 RT: 7.77 min Scan# 1866
 Delta R.T. -0.00 min
 Lab File: VN052645.D
 Acq: 4 Dec 2018 10:47

Tgt Ion:	117	Resp:	677608
Ion	Ratio	Lower	Upper
117	100		
119	96.6	76.8	115.2
121	30.7	24.9	37.3



Abundance Ion 116.80 (116.50 to 117.50): VN052645.D (-1774) (-)
 Ion 118.80 (118.50 to 119.50): VN052645.D (-1774) (-)
 Ion 120.80 (120.50 to 121.50): VN052645.D (-1774) (-)





#39
Methylcyclohexane
Concen: 49.186 ug/l
RT: 9.08 min Scan# 2273
Delta R.T. 0.00 min
Lab File: VN052645.D
Acq: 4 Dec 2018 10:47

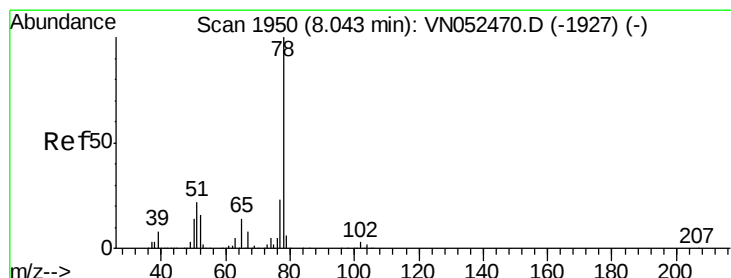
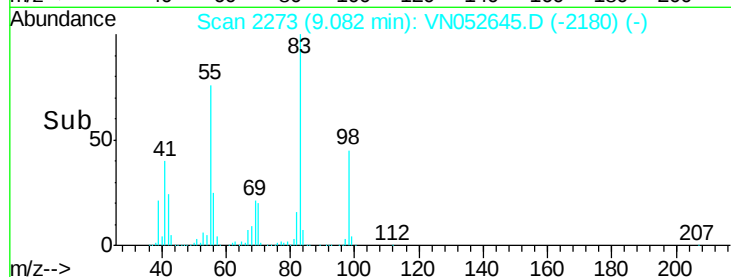
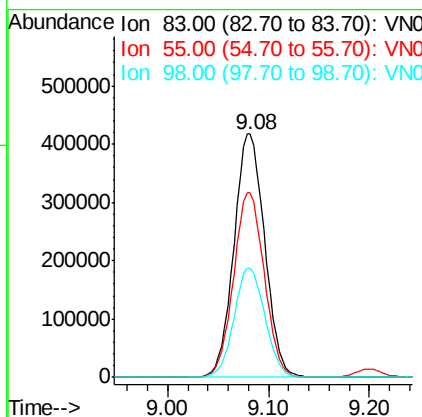
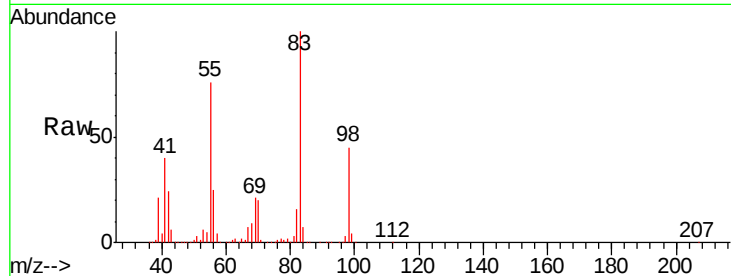
Instrument :
MSVOA_N
ClientSampled :
VSTDCCC050

Tgt Ion	Ratio	Lower	Upper
83	100		
55	76.1	62.2	93.2
98	44.7	36.4	54.6

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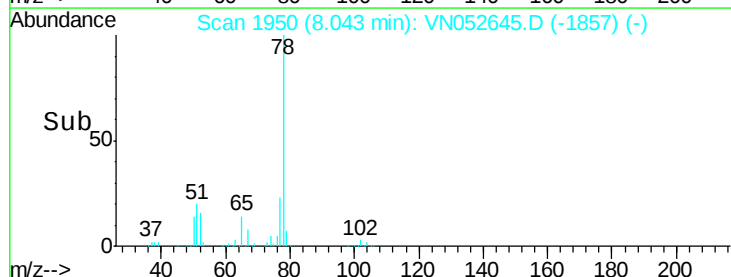
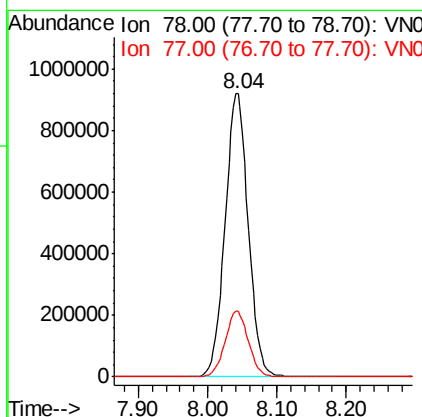
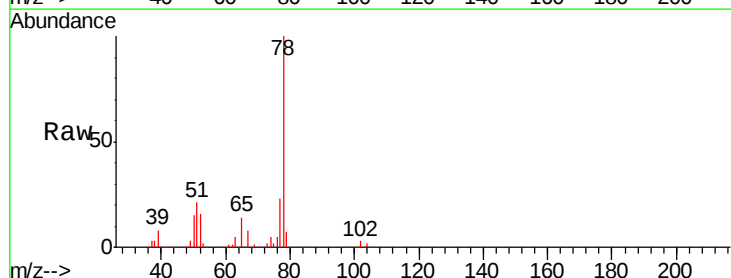
MMDadoda

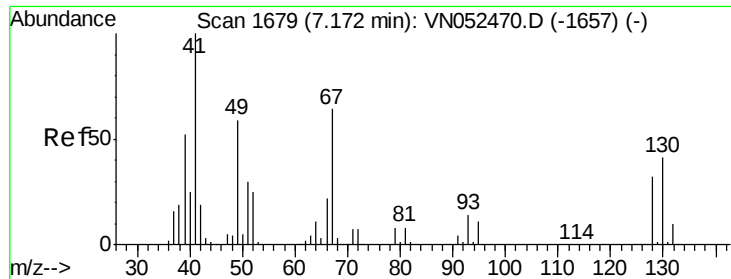
12/5/2018 9:12:58 AM



#40
Benzene
Concen: 48.679 ug/l
RT: 8.04 min Scan# 1950
Delta R.T. 0.00 min
Lab File: VN052645.D
Acq: 4 Dec 2018 10:47

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.2	18.8	28.2





#41
Methacrylonitrile
Concen: 44.837 ug/l
RT: 7.17 min Scan# 1679
Delta R.T. 0.00 min
Lab File: VN052645.D
Acq: 4 Dec 2018 10:47

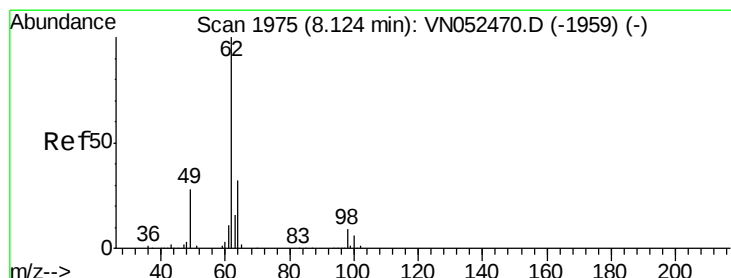
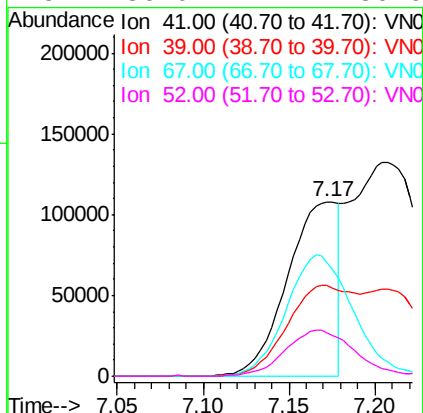
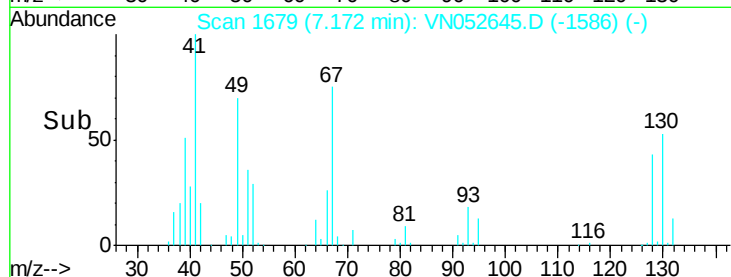
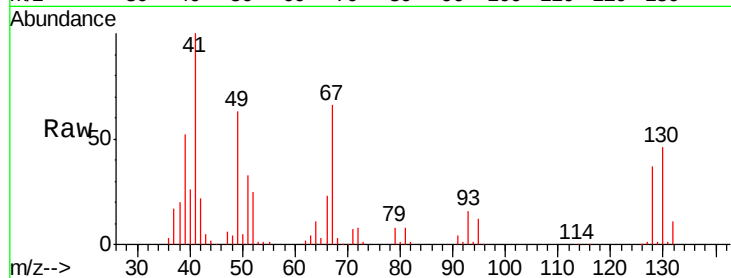
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion	Ratio	Lower	Upper
41	100		
39	69.9	50.9	76.3
67	92.8	63.6	95.4
52	36.0	24.4	36.6

Manual Integrations
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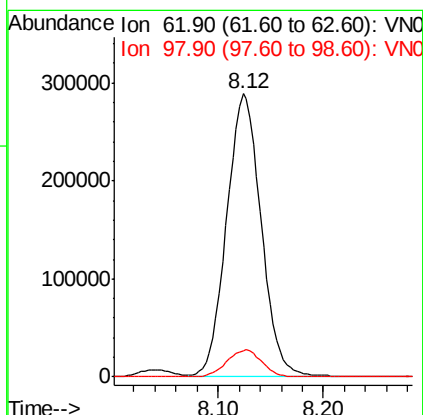
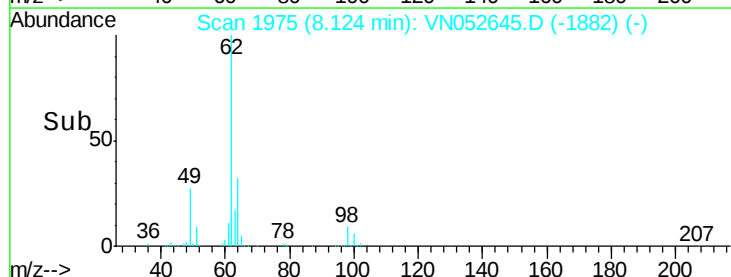
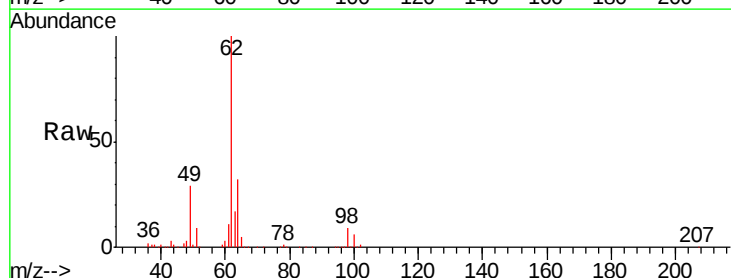
MMDadoda

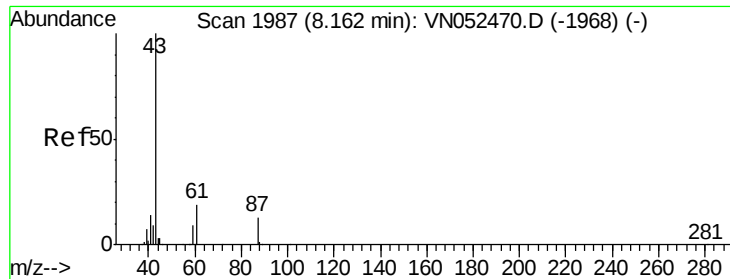
12/5/2018 9:12:58 AM



#42
1,2-Dichloroethane
Concen: 49.053 ug/l
RT: 8.12 min Scan# 1975
Delta R.T. 0.00 min
Lab File: VN052645.D
Acq: 4 Dec 2018 10:47

Tgt Ion	Ratio	Lower	Upper
62	100		
98	9.8	0.0	18.6





#43
Isopropyl Acetate
Concen: 52.748 ug/l
RT: 8.16 min Scan# 1987
Delta R.T. 0.00 min
Lab File: VN052645.D
Acq: 4 Dec 2018 10:47

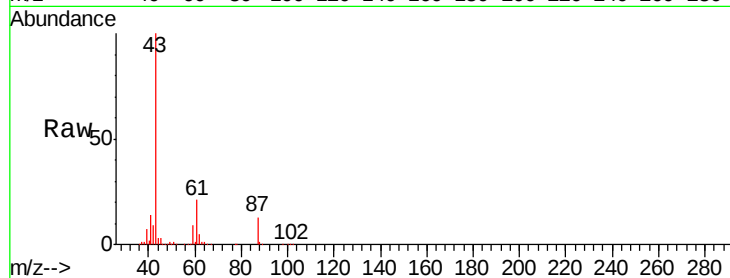
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion	Ratio	Lower	Upper
43	100		
61	29.0	24.1	36.1
87	13.1	10.6	15.8

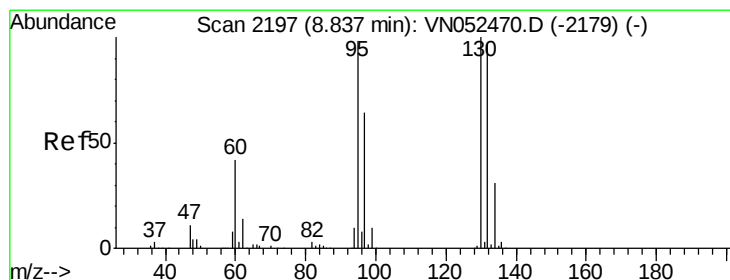
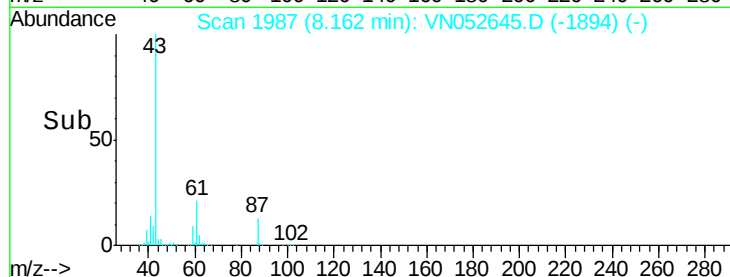
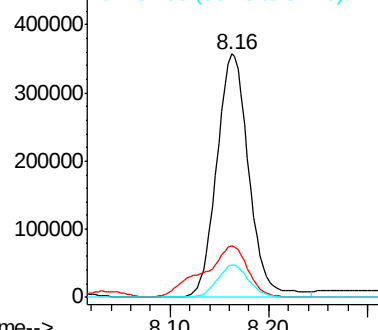
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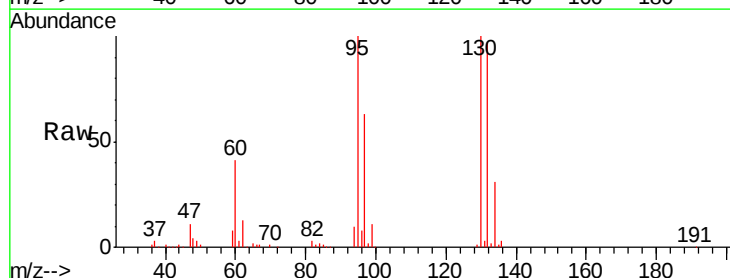


Abundance Ion 43.00 (42.70 to 43.70): VN052470.D (-1968) (-)
Ion 61.00 (60.70 to 61.70): VN052470.D (-1968) (-)
Ion 87.00 (86.70 to 87.70): VN052470.D (-1968) (-)

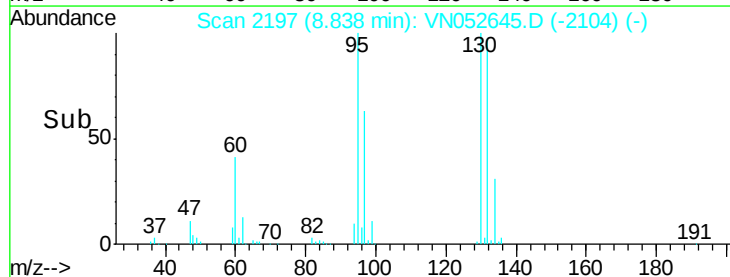
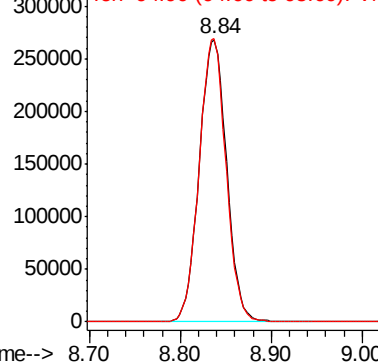


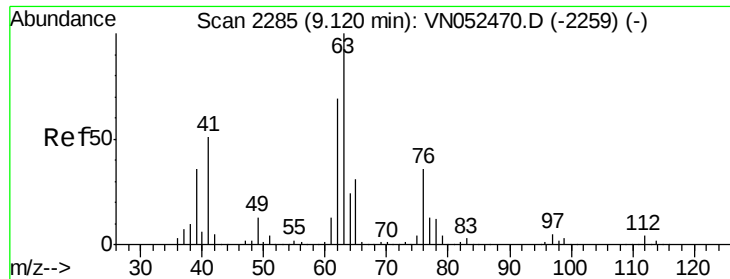
#44
Trichloroethene
Concen: 49.811 ug/l
RT: 8.84 min Scan# 2197
Delta R.T. 0.00 min
Lab File: VN052645.D
Acq: 4 Dec 2018 10:47

Tgt Ion	Ratio	Lower	Upper
130	100		
95	100.3	0.0	195.6



Abundance Ion 129.80 (129.50 to 130.50): VN052470.D (-2179) (-)
Ion 94.90 (94.60 to 95.60): VN052470.D (-2179) (-)





#45

1,2-Dichloropropane

Concen: 49.126 ug/l

RT: 9.12 min Scan# 2284

Delta R.T. -0.00 min

Lab File: VN052645.D

Acq: 4 Dec 2018 10:47

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 63 Resp: 574485

Ion Ratio Lower Upper

63 100

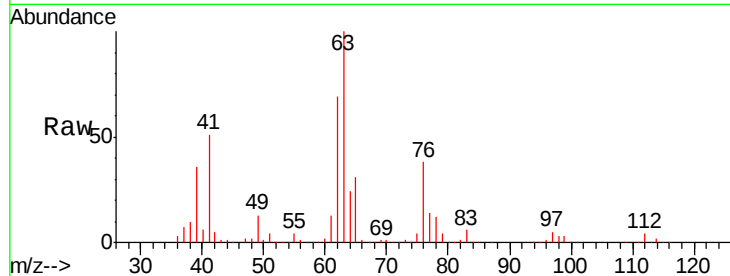
65 30.8 25.0 37.6

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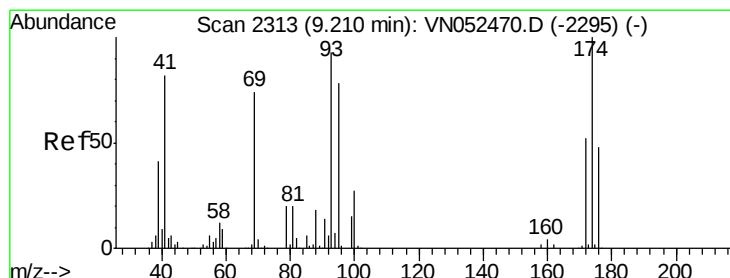
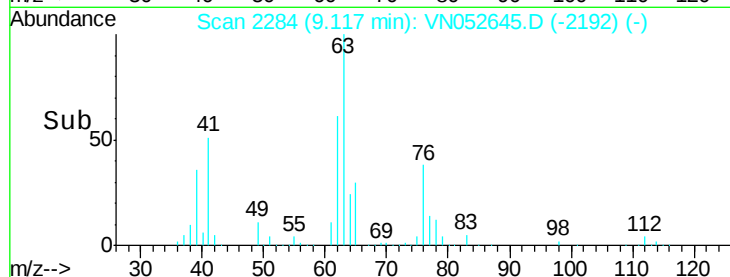
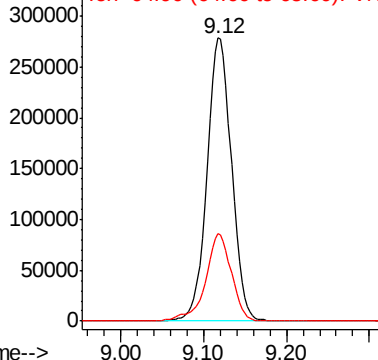
MMDadoda

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Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0



#46

Dibromomethane

Concen: 50.782 ug/l

RT: 9.21 min Scan# 2312

Delta R.T. -0.00 min

Lab File: VN052645.D

Acq: 4 Dec 2018 10:47

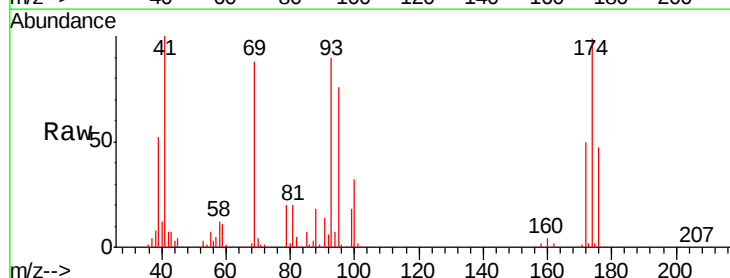
Tgt Ion: 93 Resp: 328745

Ion Ratio Lower Upper

93 100

95 83.4 67.1 100.7

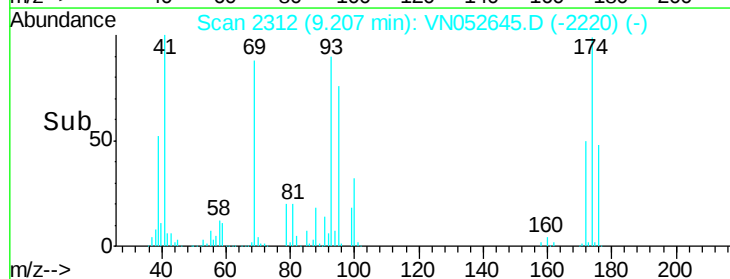
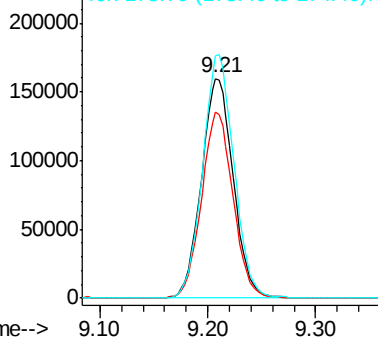
174 109.1 85.8 128.8

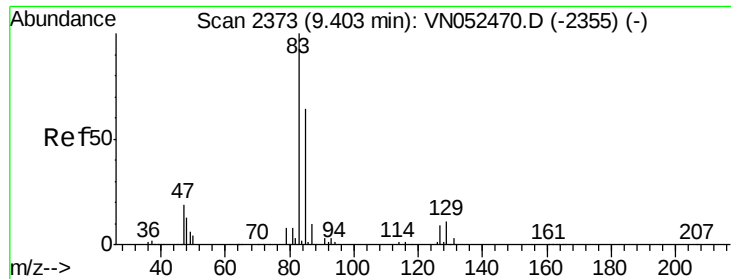


Abundance Ion 92.80 (92.50 to 93.50): VN0

Ion 94.80 (94.50 to 95.50): VN0

Ion 173.70 (173.40 to 174.40): V





#47
Bromodichloromethane
Concen: 50.463 ug/l
RT: 9.40 min Scan# 2373
Delta R.T. 0.00 min
Lab File: VN052645.D
Acq: 4 Dec 2018 10:47

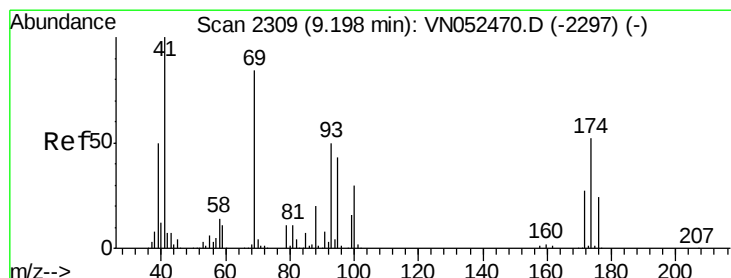
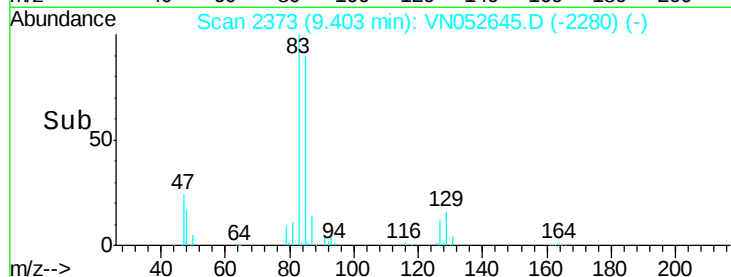
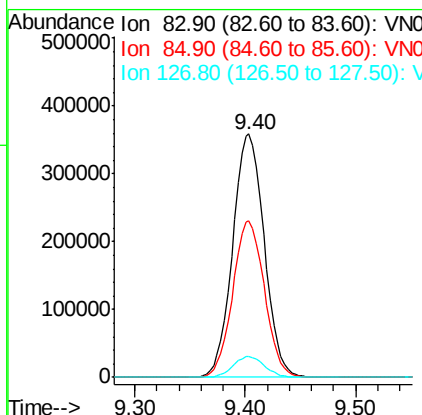
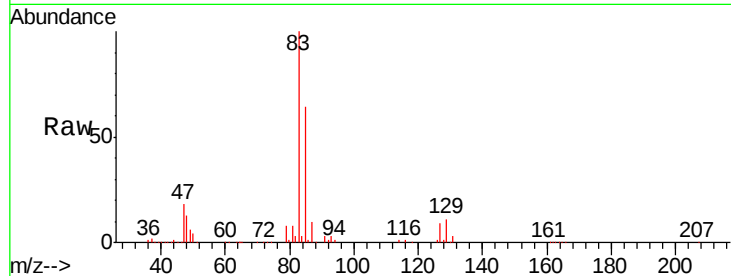
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion	Ratio	Resp	Lower	Upper
83	100	710253		
85	64.4	51.3	76.9	
127	8.5	6.9	10.3	

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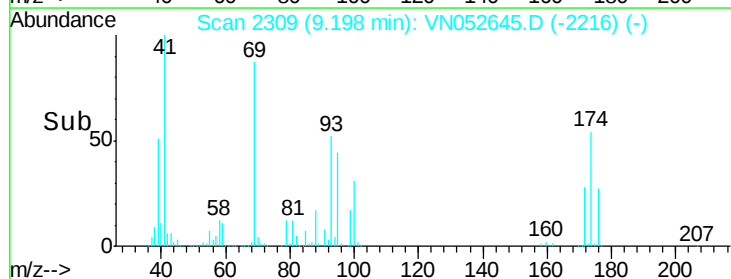
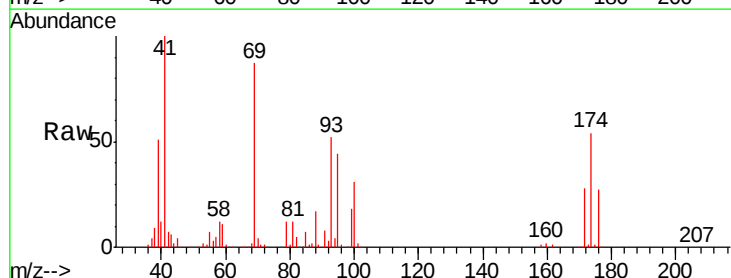
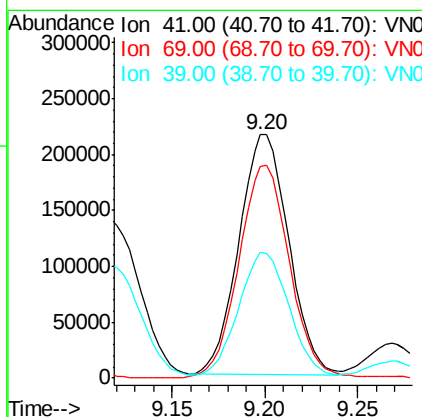
MMDadoda

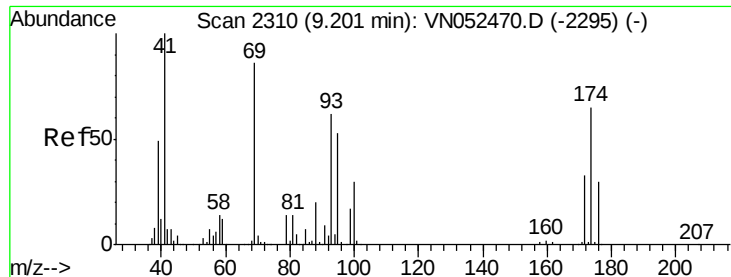
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#48
Methyl methacrylate
Concen: 50.386 ug/l
RT: 9.20 min Scan# 2309
Delta R.T. 0.00 min
Lab File: VN052645.D
Acq: 4 Dec 2018 10:47

Tgt Ion	Ratio	Resp	Lower	Upper
41	100	400483		
69	90.3	70.0	105.0	
39	53.7	42.6	64.0	





#49
1,4-Dioxane
Concen: 967.793 ug/l
RT: 9.20 min Scan# 2309
Delta R.T. -0.00 min
Lab File: VN052645.D
Acq: 4 Dec 2018 10:47

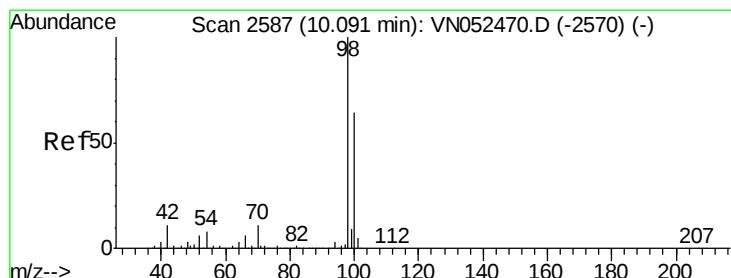
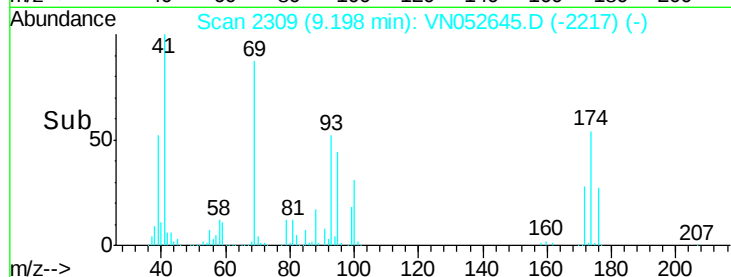
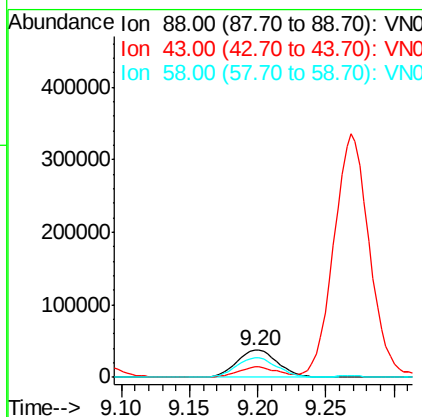
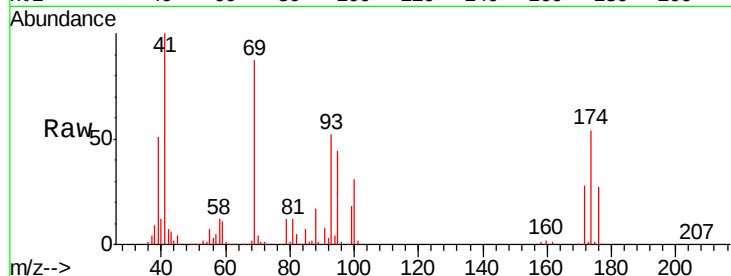
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion	Ratio	Lower	Upper
88	100		
43	34.6	26.4	39.6
58	70.0	55.4	83.0

Manual Integrations
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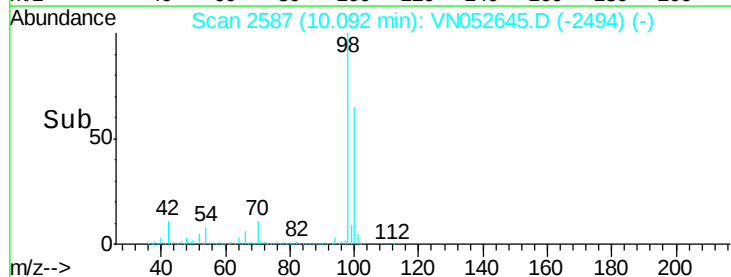
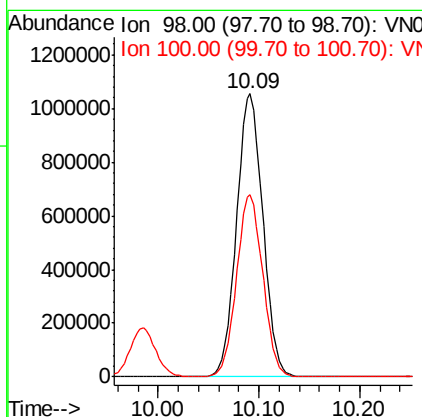
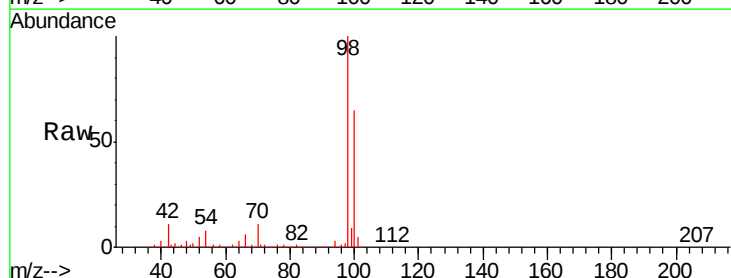
MMDadoda

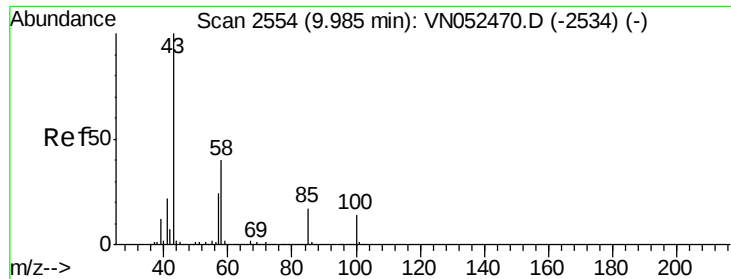
12/5/2018 9:12:58 AM



#50
Toluene-d8
Concen: 967.793 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN052645.D
Acq: 4 Dec 2018 10:47

Tgt Ion	Ratio	Lower	Upper
98	100		
100	64.2	51.3	76.9





#51
 4-Methyl-2-Pentanone
 Concen: 261.634 ug/l
 RT: 9.99 min Scan# 2554
 Delta R.T. 0.00 min
 Lab File: VN052645.D
 Acq: 4 Dec 2018 10:47

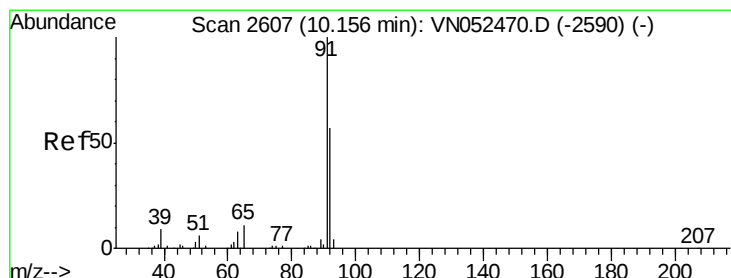
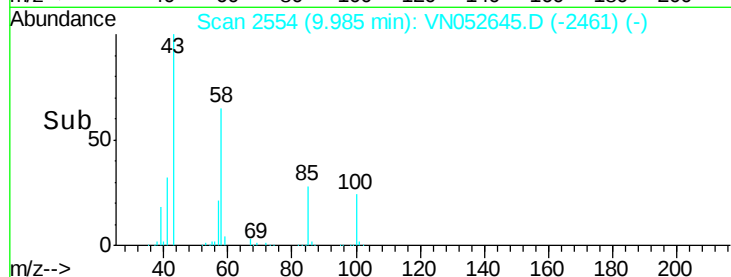
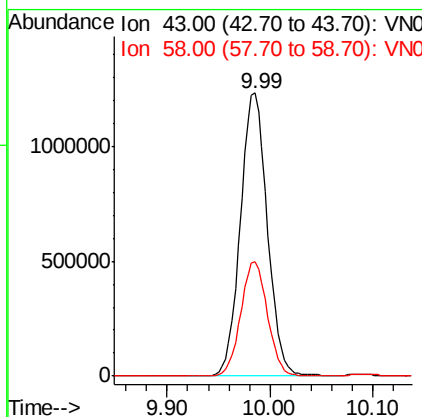
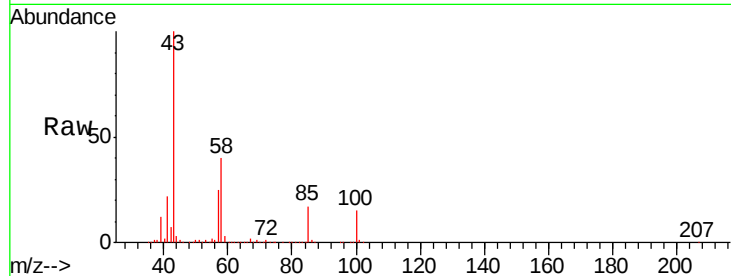
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tgt Ion: 43 Resp: 2237648
 Ion Ratio Lower Upper
 43 100
 58 40.3 31.5 47.3

Manual Integrations
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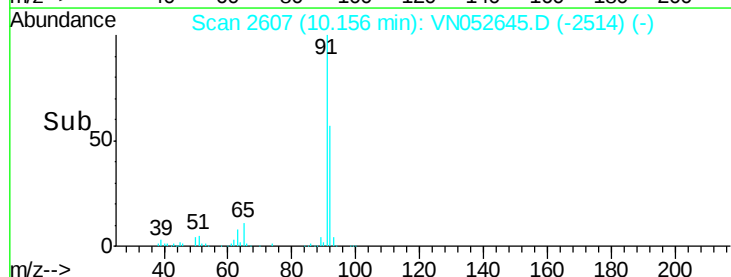
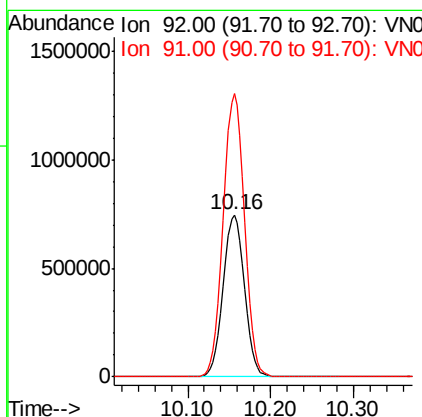
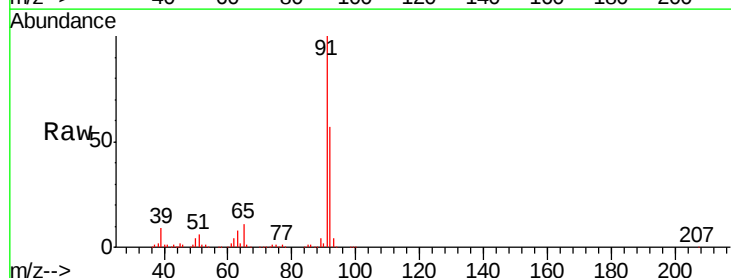
MMDadoda

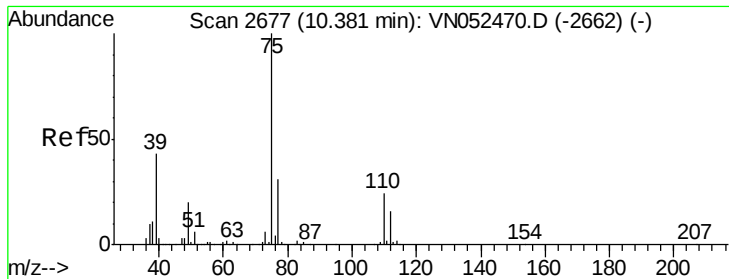
12/5/2018 9:12:58 AM



#52
 Toluene
 Concen: 50.629 ug/l
 RT: 10.16 min Scan# 2607
 Delta R.T. 0.00 min
 Lab File: VN052645.D
 Acq: 4 Dec 2018 10:47

Tgt Ion: 92 Resp: 1323113
 Ion Ratio Lower Upper
 92 100
 91 175.3 141.0 211.4





#53

t-1,3-Dichloropropene

Concen: 53.338 ug/l

RT: 10.38 min Scan# 2677

Delta R.T. 0.00 min

Lab File: VN052645.D

Acq: 4 Dec 2018 10:47

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 75 Resp: 722211

Ion Ratio Lower Upper

75 100

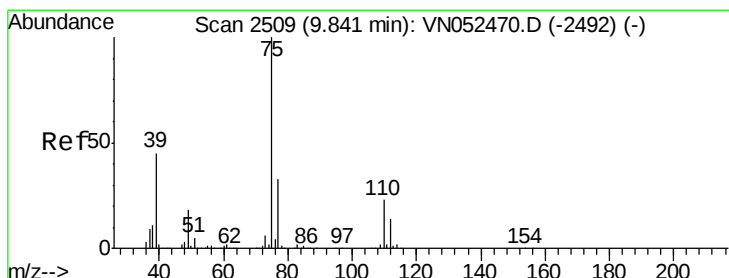
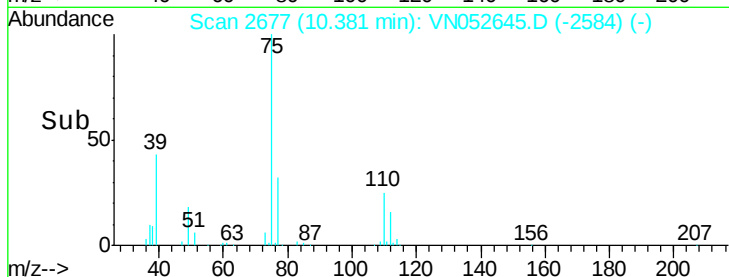
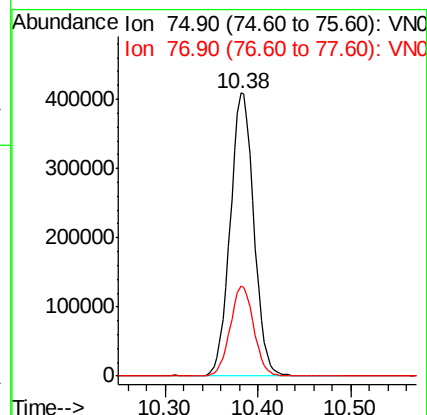
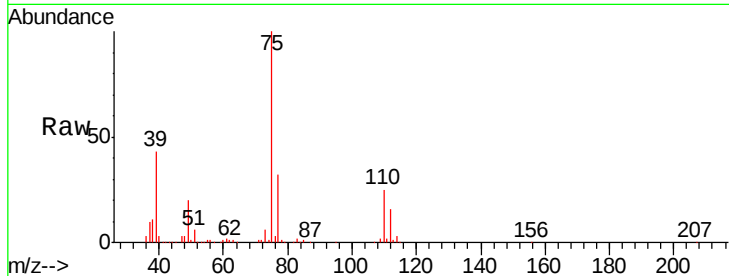
77 31.7 25.0 37.4

Manual Integrations

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#54

cis-1,3-Dichloropropene

Concen: 51.880 ug/l

RT: 9.84 min Scan# 2509

Delta R.T. 0.00 min

Lab File: VN052645.D

Acq: 4 Dec 2018 10:47

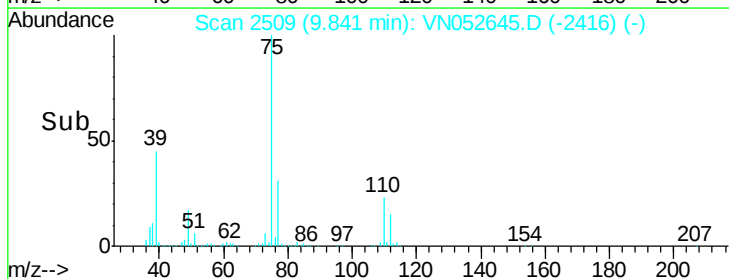
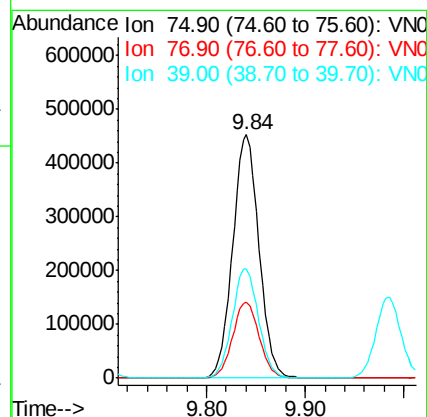
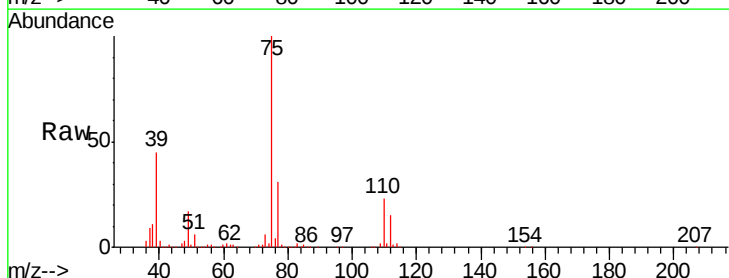
Tgt Ion: 75 Resp: 841824

Ion Ratio Lower Upper

75 100

77 31.0 26.2 39.2

39 44.7 36.0 54.0





#55
 1,1,2-Trichloroethane
 Concen: 51.618 ug/l
 RT: 10.56 min Scan# 2733
 Delta R.T. -0.00 min
 Lab File: VN052645.D
 Acq: 4 Dec 2018 10:47

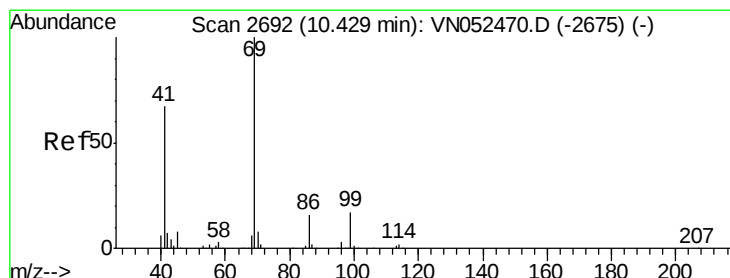
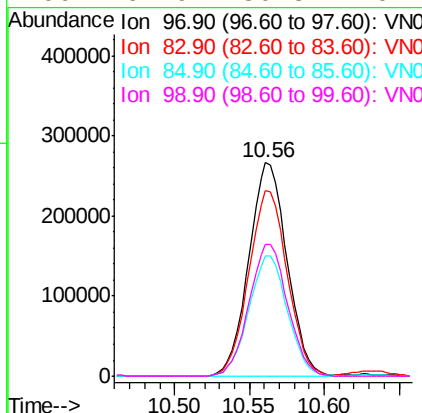
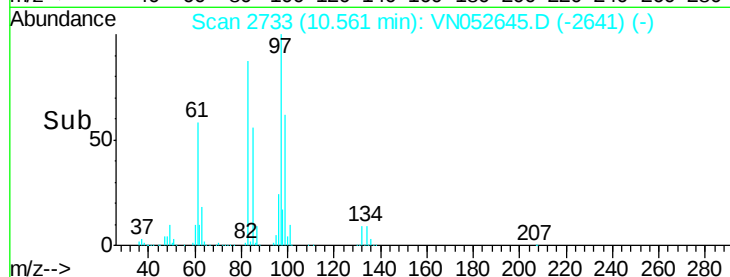
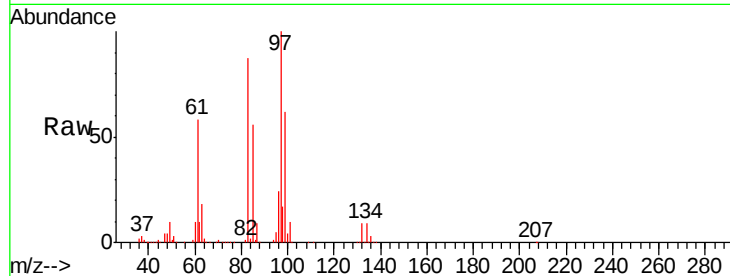
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tgt Ion:	97	Resp:	474502
Ion	Ratio	Lower	Upper
97	100		
83	86.6	70.7	106.1
85	56.2	46.1	69.1
99	61.9	50.8	76.2

Manual Integrations
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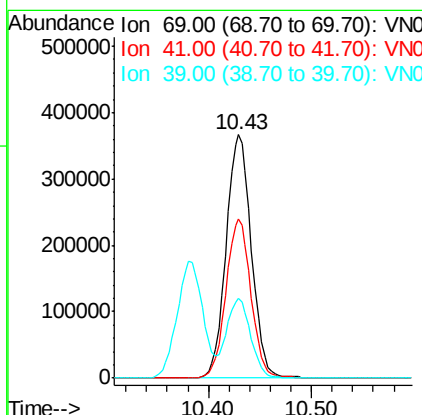
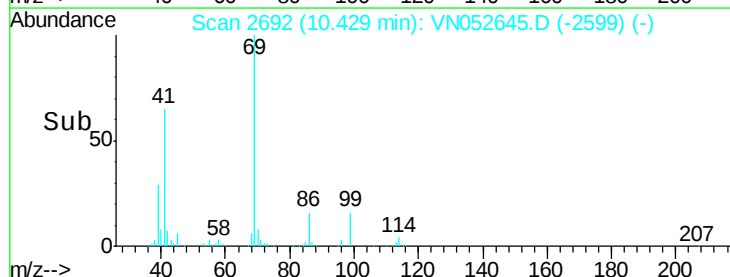
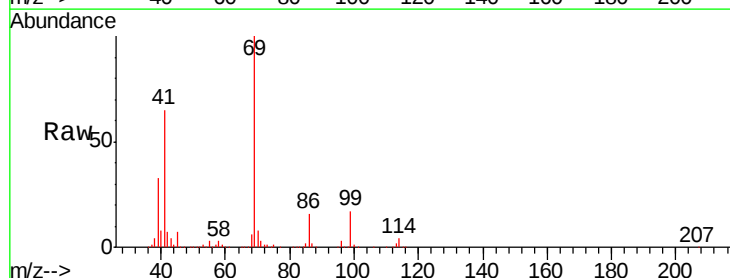
MMDadoda

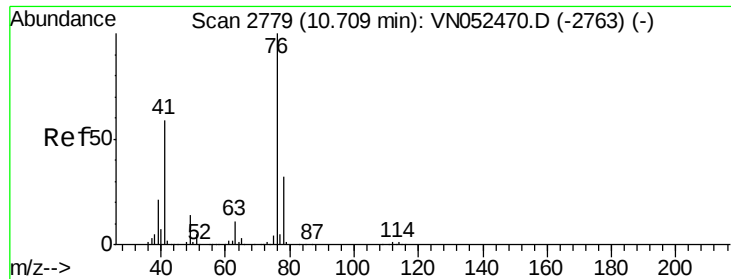
12/5/2018 9:12:58 AM



#56
 Ethyl methacrylate
 Concen: 48.895 ug/l
 RT: 10.43 min Scan# 2692
 Delta R.T. 0.00 min
 Lab File: VN052645.D
 Acq: 4 Dec 2018 10:47

Tgt Ion:	69	Resp:	623343
Ion	Ratio	Lower	Upper
69	100		
41	63.9	52.6	79.0
39	31.4	25.9	38.9





#57
 1,3-Dichloropropane
 Concen: 50.312 ug/l
 RT: 10.71 min Scan# 2779
 Delta R.T. 0.00 min
 Lab File: VN052645.D
 Acq: 4 Dec 2018 10:47

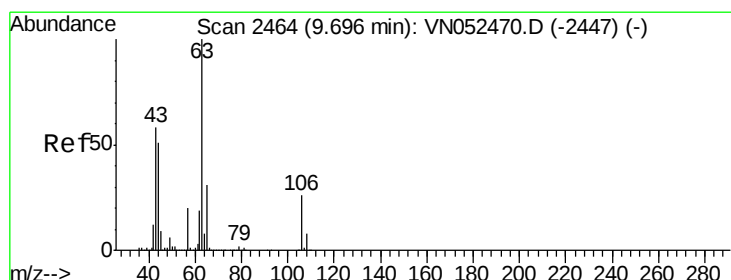
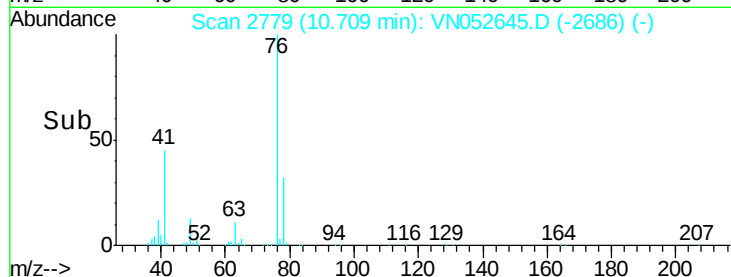
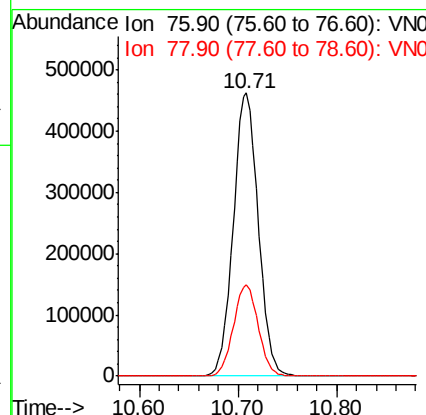
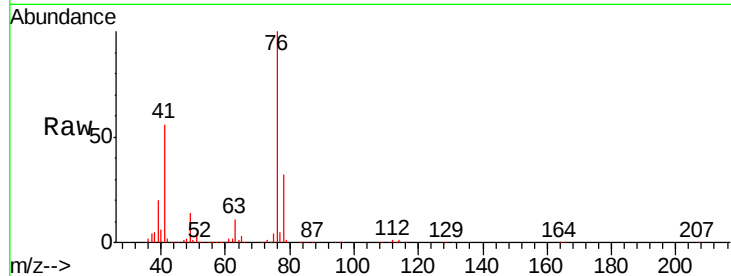
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tgt Ion: 76 Resp: 816636
 Ion Ratio Lower Upper
 76 100
 78 32.2 25.6 38.4

Manual Integrations
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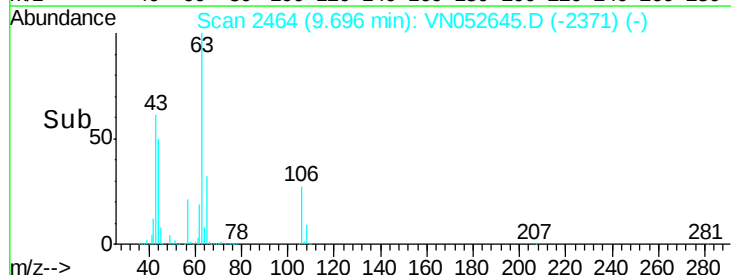
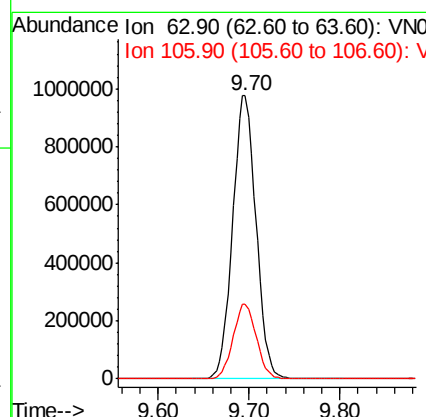
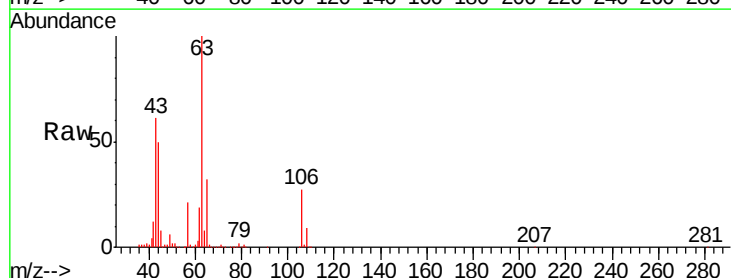
MMDadoda

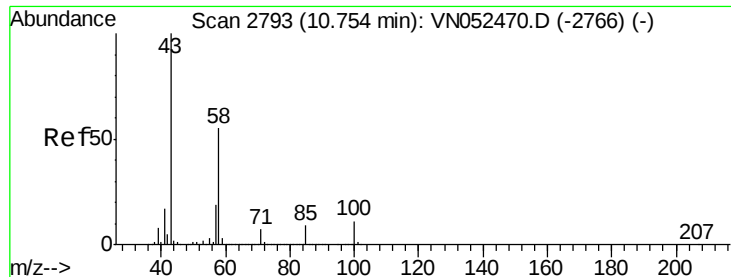
12/5/2018 9:12:58 AM



#58
 2-Chloroethyl Vinyl ether
 Concen: 260.745 ug/l
 RT: 9.70 min Scan# 2464
 Delta R.T. 0.00 min
 Lab File: VN052645.D
 Acq: 4 Dec 2018 10:47

Tgt Ion: 63 Resp: 1739268
 Ion Ratio Lower Upper
 63 100
 106 26.3 20.6 30.8





#59
2-Hexanone
Concen: 279.355 ug/l
RT: 10.75 min Scan# 2792
Delta R.T. -0.00 min
Lab File: VN052645.D
Acq: 4 Dec 2018 10:47

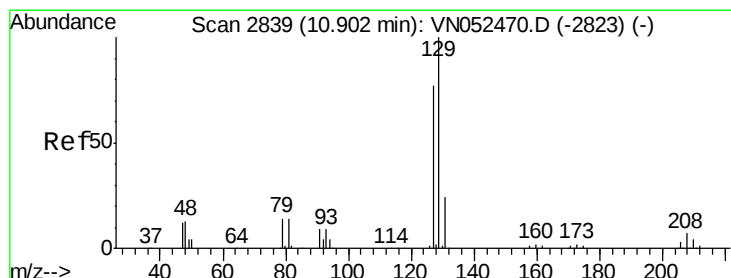
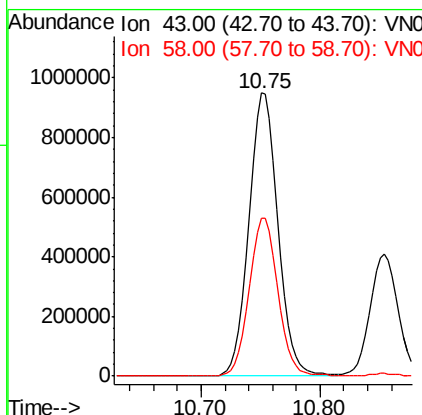
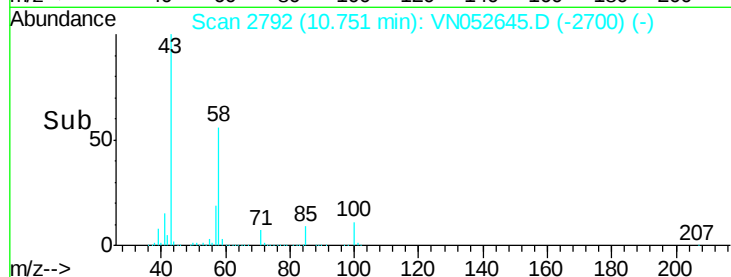
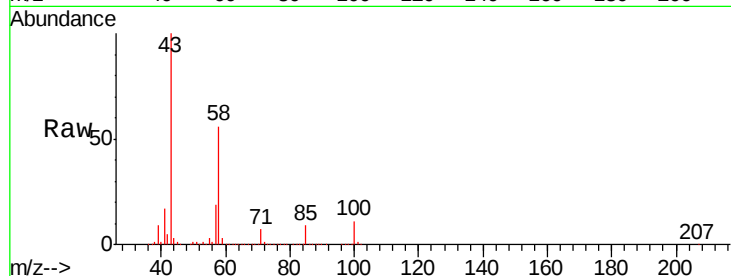
Instrument :
MSVOA_N
ClientSampled :
VSTDCCC050

Tgt Ion: 43 Resp: 1603522
Ion Ratio Lower Upper
43 100
58 55.6 27.4 82.0

Manual Integrations
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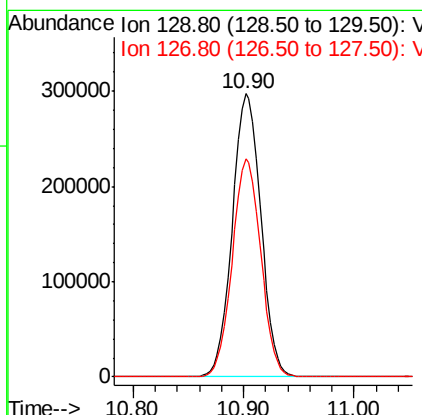
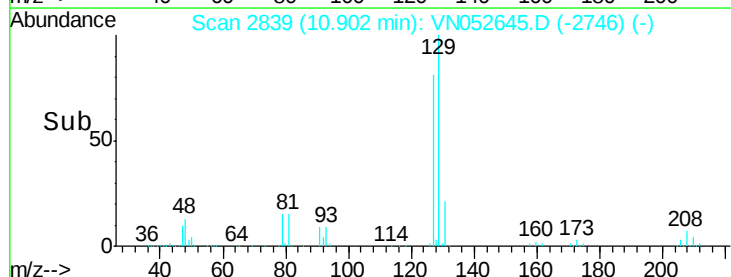
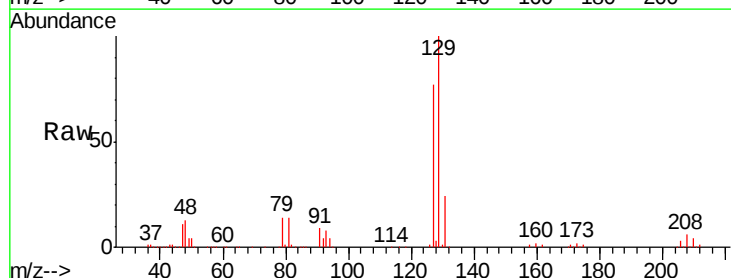
MMDadoda

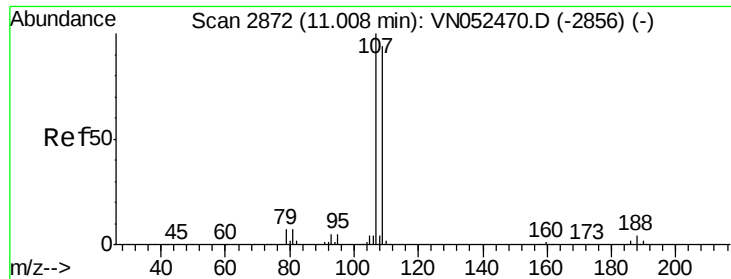
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#60
Dibromochloromethane
Concen: 53.564 ug/l
RT: 10.90 min Scan# 2839
Delta R.T. 0.00 min
Lab File: VN052645.D
Acq: 4 Dec 2018 10:47

Tgt Ion: 129 Resp: 534791
Ion Ratio Lower Upper
129 100
127 76.9 38.9 116.6





#61

1,2-Dibromoethane

Concen: 51.228 ug/l

RT: 11.01 min Scan# 2872

Delta R.T. 0.00 min

Lab File: VN052645.D

Acq: 4 Dec 2018 10:47

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 107 Resp: 467719

Ion Ratio Lower Upper

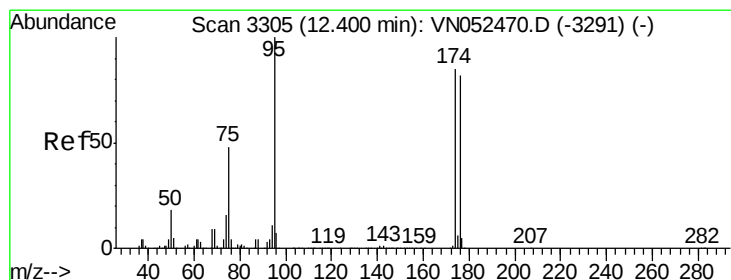
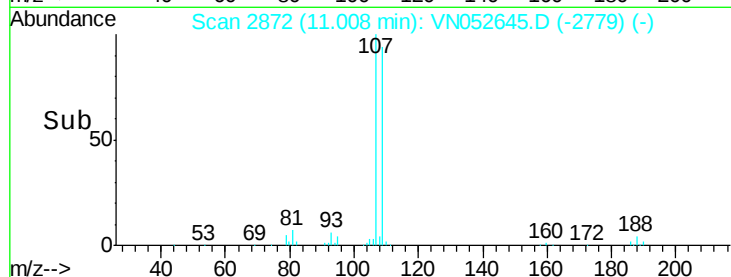
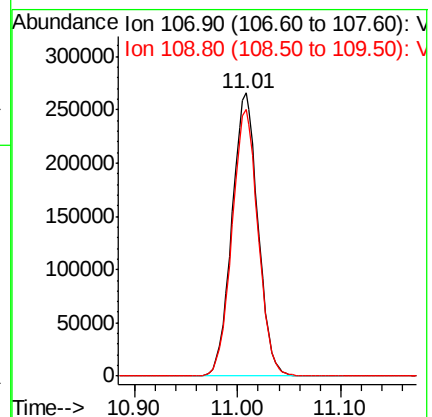
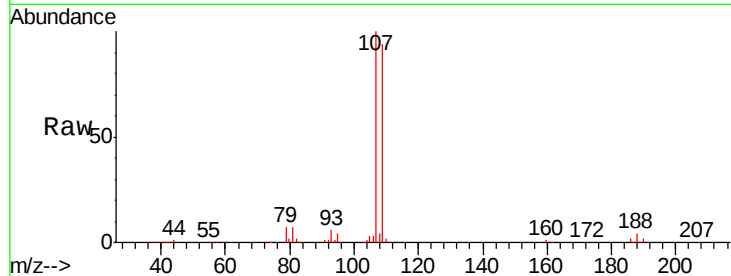
107 100

109 94.4 75.6 113.4

Manual Integrations
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#62

4-Bromofluorobenzene

Concen: 51.228 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN052645.D

Acq: 4 Dec 2018 10:47

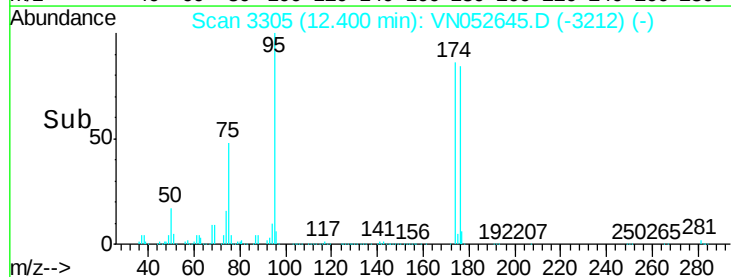
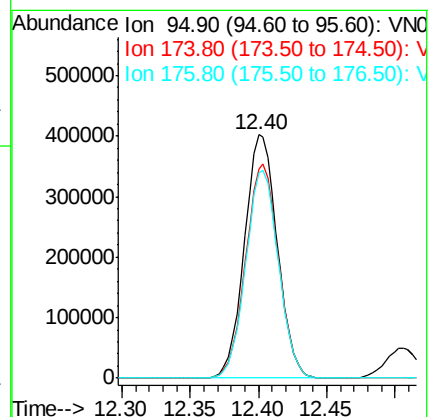
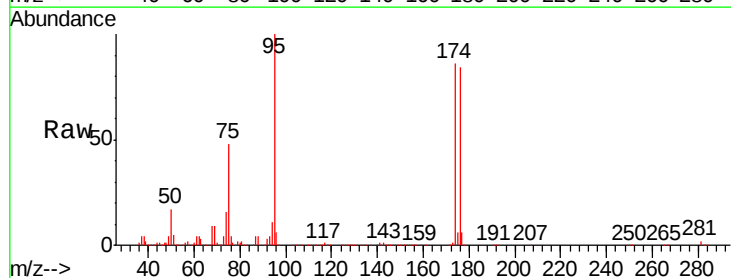
Tgt Ion: 95 Resp: 671765

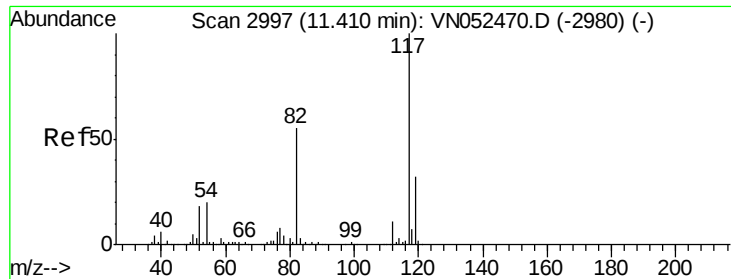
Ion Ratio Lower Upper

95 100

174 87.7 0.0 173.0

176 85.3 0.0 166.2





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN052645.D
Acq: 4 Dec 2018 10:47

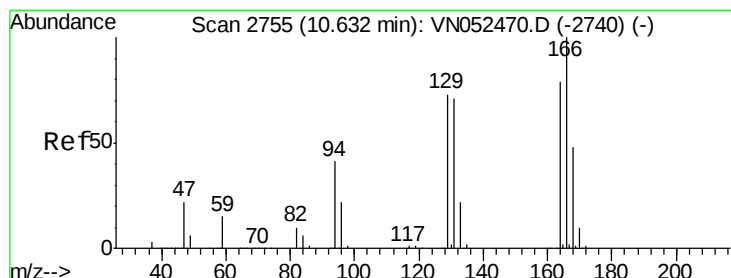
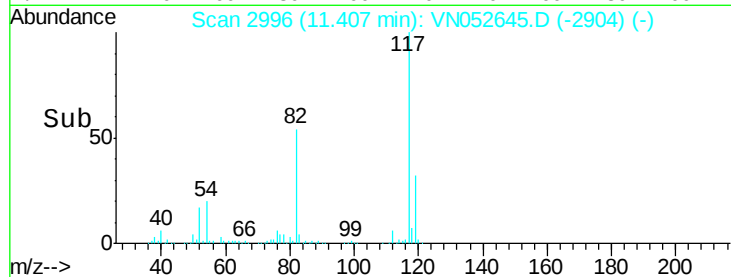
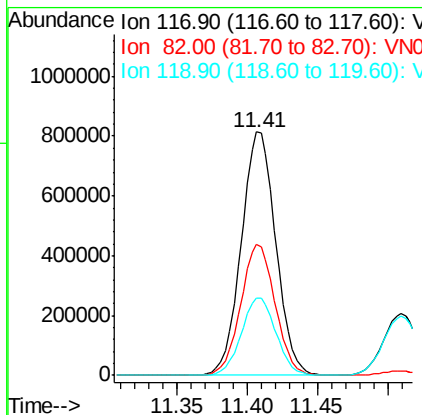
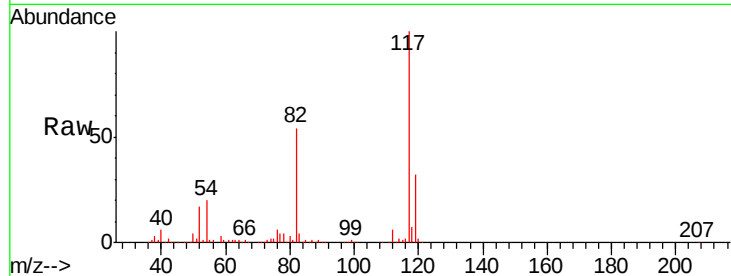
Instrument :
MSVOA_N
ClientSampled :
VSTDCCC050

Tgt Ion:117 Resp: 1397704
Ion Ratio Lower Upper
117 100
82 53.6 43.6 65.4
119 32.0 25.4 38.2

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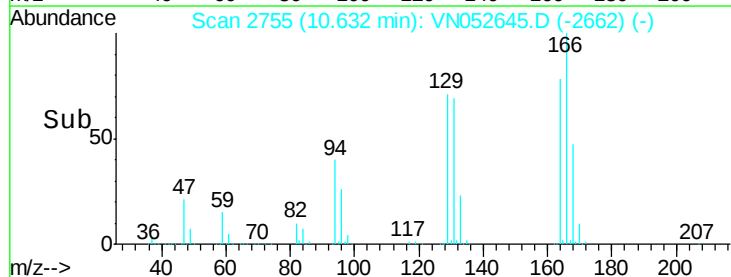
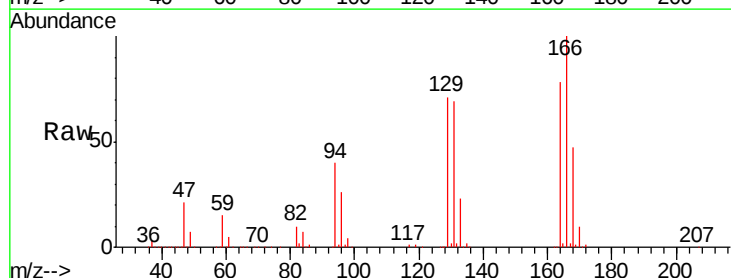
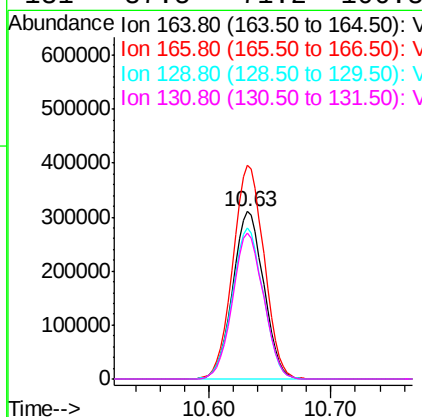
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#64
Tetrachloroethene
Concen: 50.464 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. 0.00 min
Lab File: VN052645.D
Acq: 4 Dec 2018 10:47

Tgt Ion:164 Resp: 546866
Ion Ratio Lower Upper
164 100
166 127.7 101.0 151.4
129 90.1 73.8 110.6
131 87.5 71.2 106.8





#65

Chlorobenzene

Concen: 50.568 ug/l

RT: 11.44 min Scan# 3005

Delta R.T. 0.00 min

Lab File: VN052645.D

Acq: 4 Dec 2018 10:47

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion:112 Resp: 1457405

Ion Ratio Lower Upper

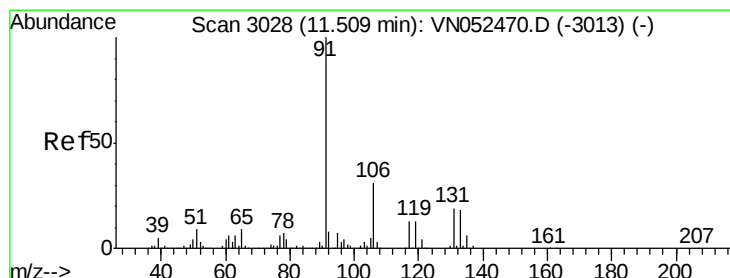
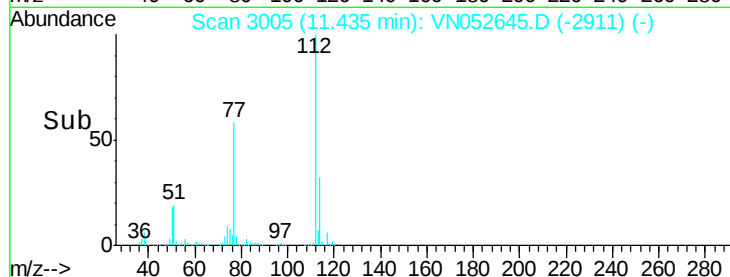
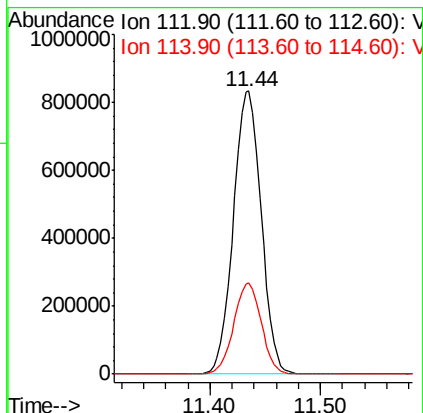
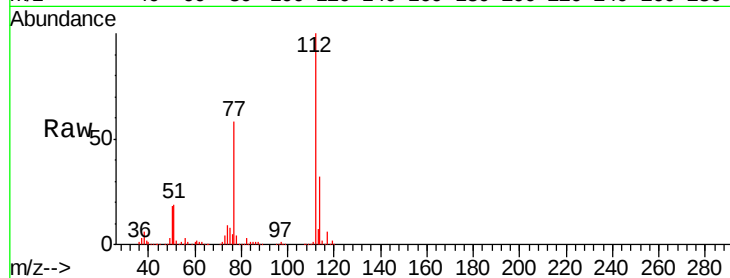
112 100

114 32.2 25.8 38.6

Manual Integrations
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#66

1,1,1,2-Tetrachloroethane

Concen: 51.502 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. 0.00 min

Lab File: VN052645.D

Acq: 4 Dec 2018 10:47

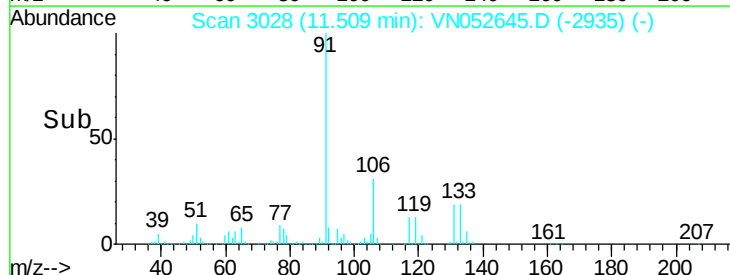
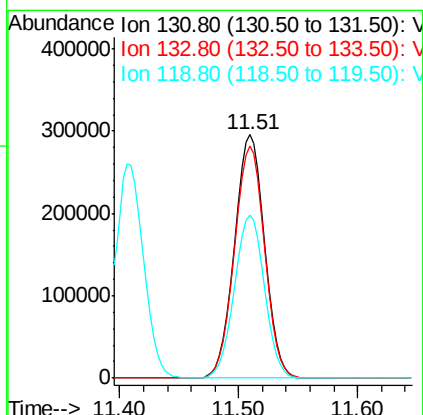
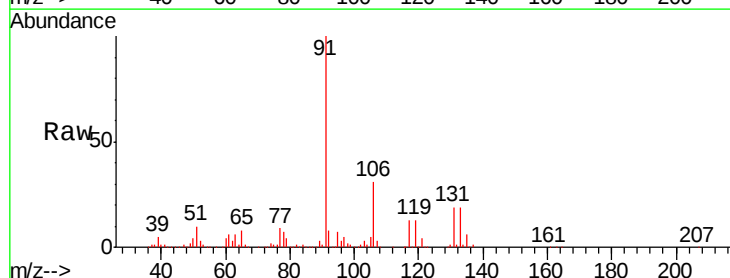
Tgt Ion:131 Resp: 516104

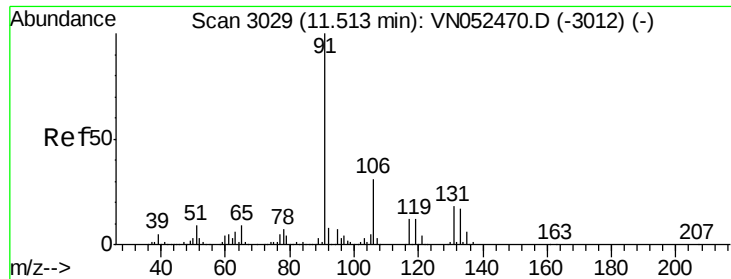
Ion Ratio Lower Upper

131 100

133 95.7 47.6 142.8

119 67.1 33.2 99.6





#67
Ethyl Benzene
Concen: 50.925 ug/l
RT: 11.51 min Scan# 3029
Delta R.T. 0.00 min
Lab File: VN052645.D
Acq: 4 Dec 2018 10:47

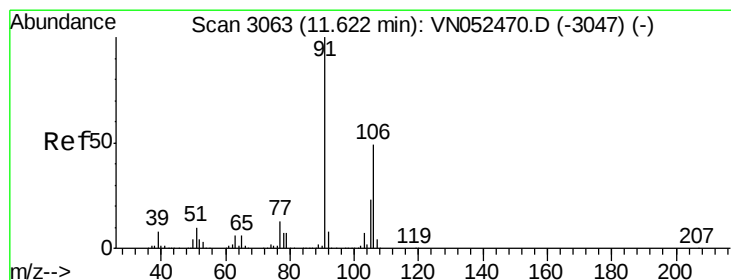
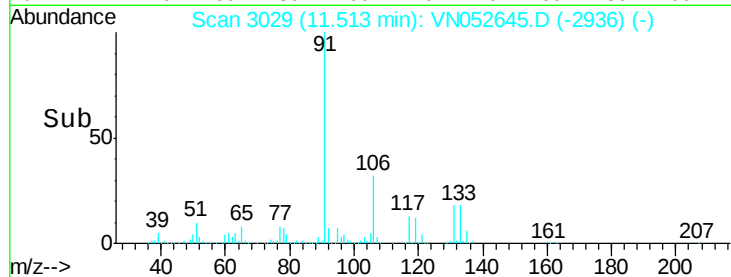
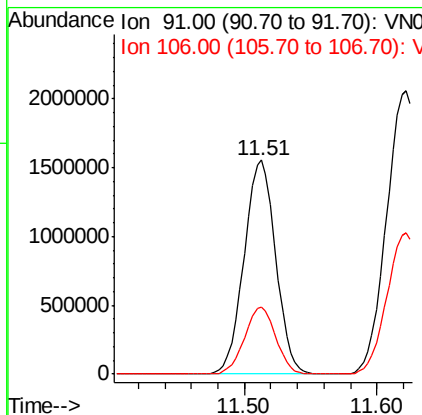
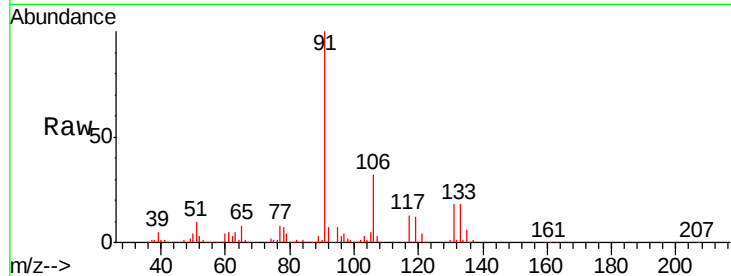
Instrument :
MSVOA_N
ClientSampled :
VSTDCCC050

Tgt Ion: 91 Resp: 2570185
Ion Ratio Lower Upper
91 100
106 31.5 24.9 37.3

Manual Integrations
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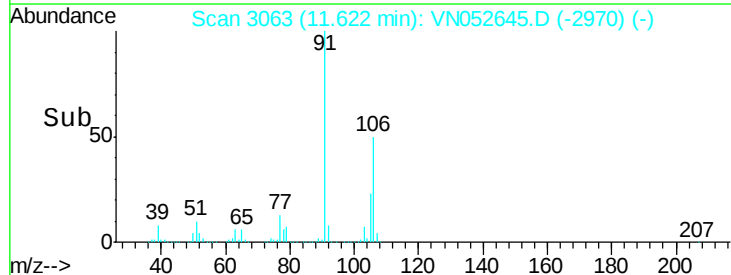
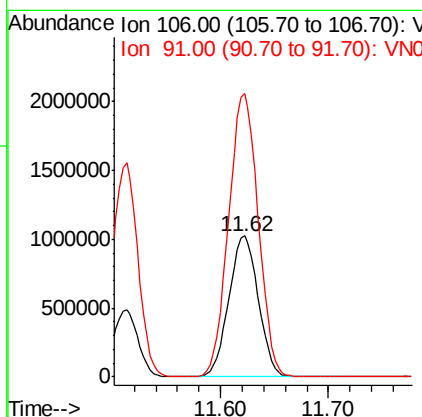
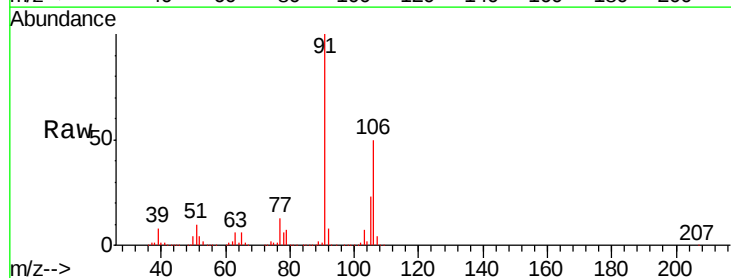
MMDadoda

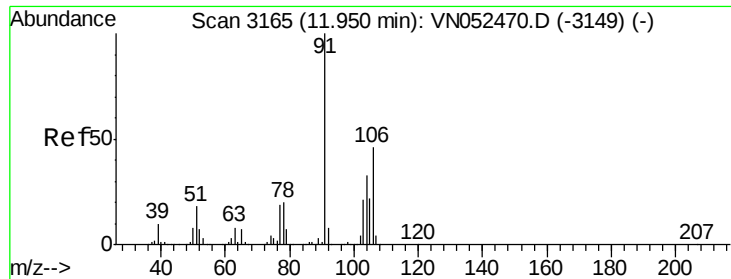
12/5/2018 9:12:58 AM



#68
m/p-Xylenes
Concen: 103.617 ug/l
RT: 11.62 min Scan# 3063
Delta R.T. 0.00 min
Lab File: VN052645.D
Acq: 4 Dec 2018 10:47

Tgt Ion: 106 Resp: 1946821
Ion Ratio Lower Upper
106 100
91 202.3 163.2 244.8





#69
o-Xylene
Concen: 51.551 ug/l
RT: 11.95 min Scan# 3165
Delta R.T. 0.00 min
Lab File: VN052645.D
Acq: 4 Dec 2018 10:47

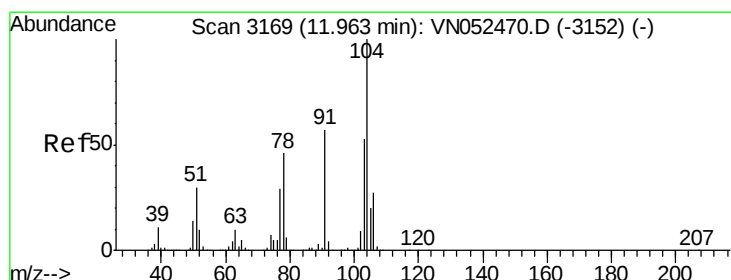
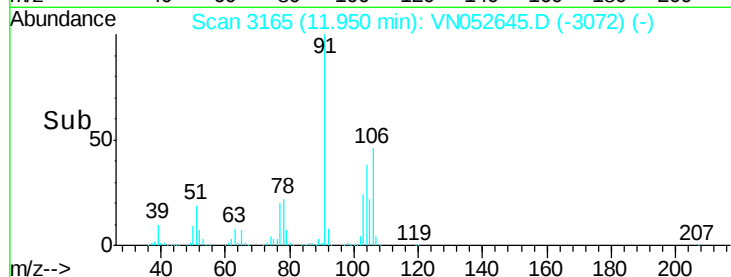
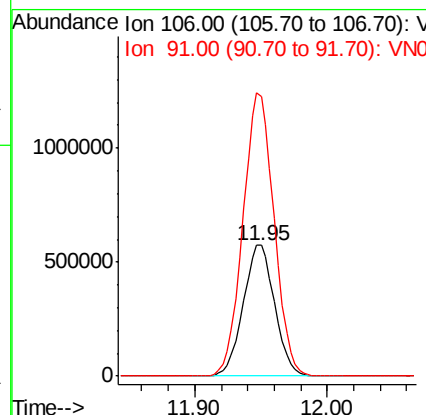
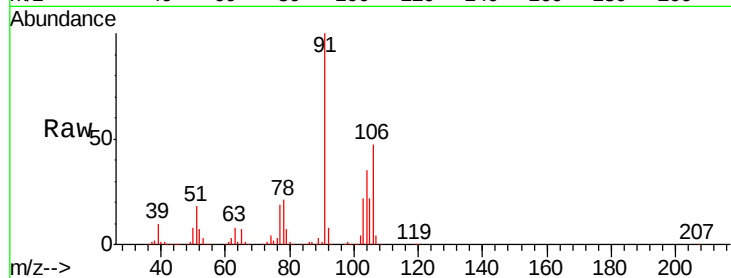
Instrument :
MSVOA_N
ClientSampled :
VSTDCCC050

Tgt Ion:106 Resp: 940561
Ion Ratio Lower Upper
106 100
91 214.7 107.7 323.1

Manual Integrations
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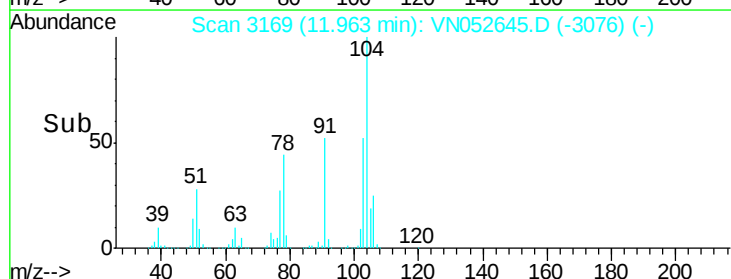
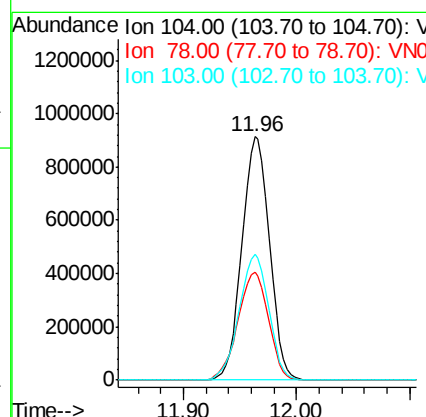
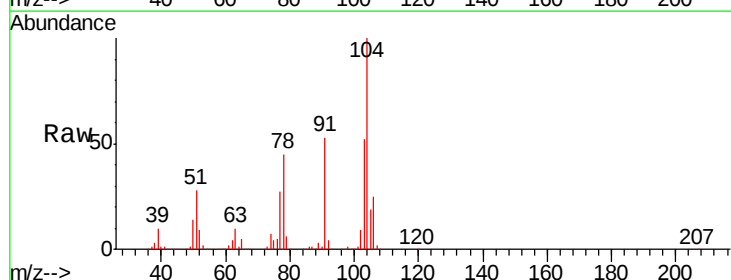
MMDadoda

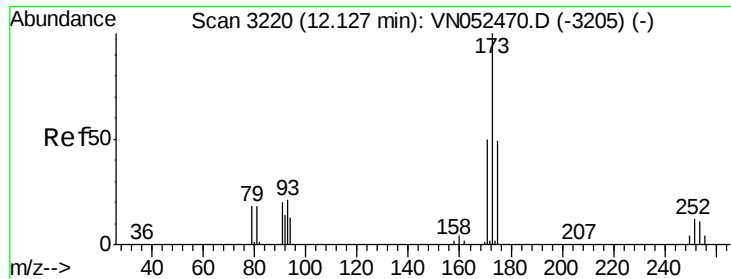
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#70
Styrene
Concen: 53.445 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. 0.00 min
Lab File: VN052645.D
Acq: 4 Dec 2018 10:47

Tgt Ion:104 Resp: 1553146
Ion Ratio Lower Upper
104 100
78 49.1 39.4 59.2
103 55.8 44.9 67.3





#71

Bromoform

Concen: 55.217 ug/l

RT: 12.13 min Scan# 3220

Delta R.T. 0.00 min

Lab File: VN052645.D

Acq: 4 Dec 2018 10:47

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion:173 Resp: 366375
Ion Ratio Lower Upper

173 100

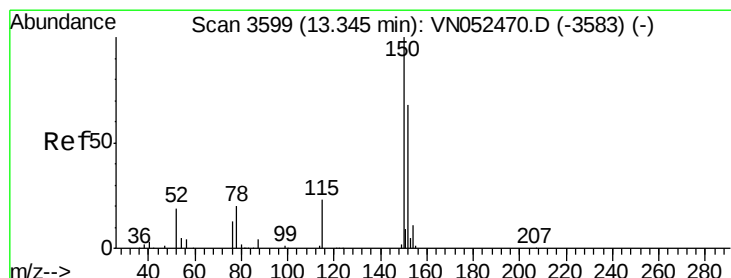
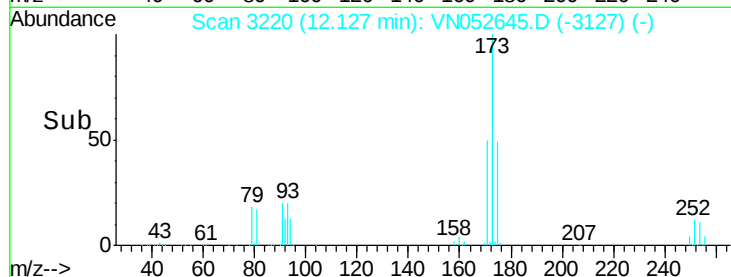
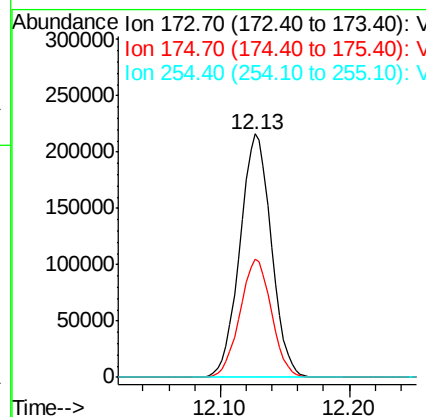
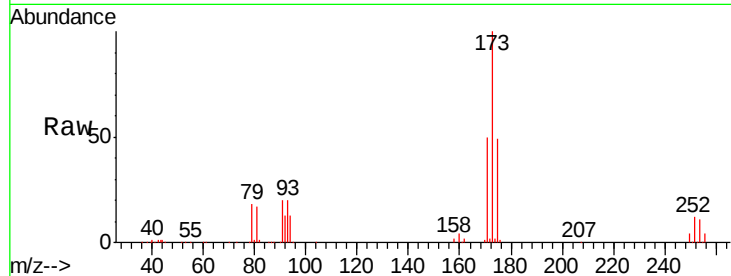
175 48.5 24.4 73.2

254 0.1 0.1 0.1#

Manual Integrations
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#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN052645.D

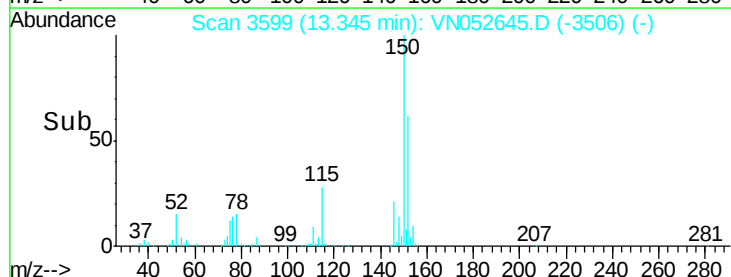
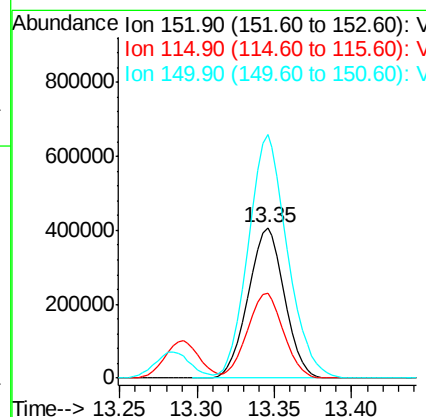
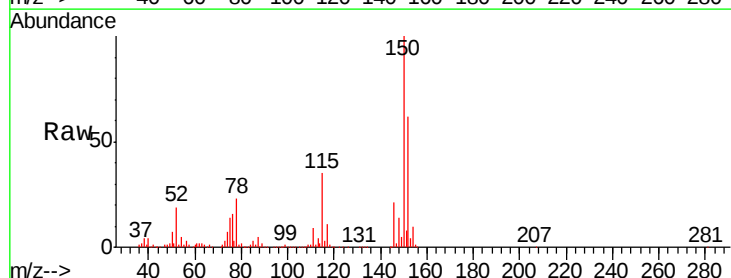
Acq: 4 Dec 2018 10:47

Tgt Ion:152 Resp: 665792
Ion Ratio Lower Upper

152 100

115 56.4 28.4 85.2

150 174.4 0.0 346.0





#73

Isopropylbenzene

Concen: 48.802 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. 0.00 min

Lab File: VN052645.D

Acq: 4 Dec 2018 10:47

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 105 Resp: 2549170

Ion Ratio Lower Upper

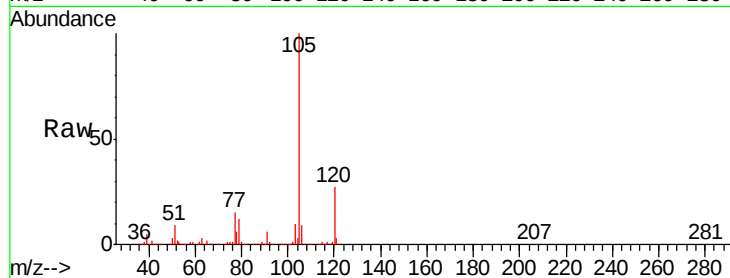
105 100

120 26.6 13.1 39.3

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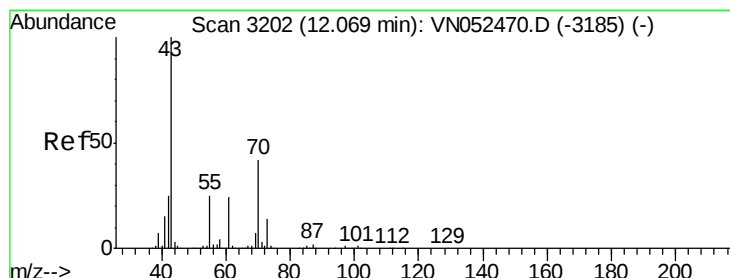
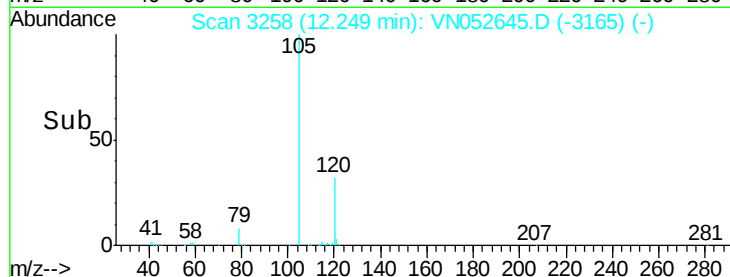
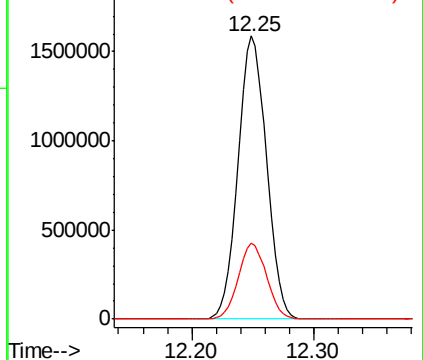
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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 51.951 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. 0.00 min

Lab File: VN052645.D

Acq: 4 Dec 2018 10:47

Tgt Ion: 43 Resp: 685585

Ion Ratio Lower Upper

43 100

70 42.7 33.8 50.8

55 25.1 20.0 30.0

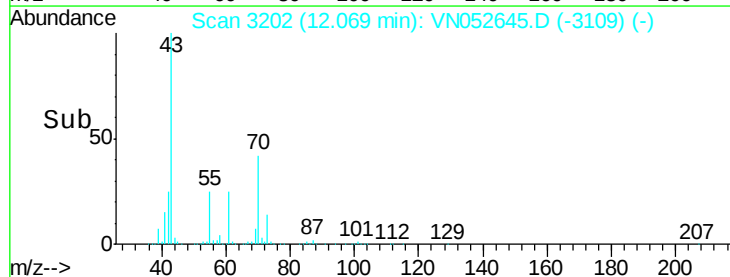
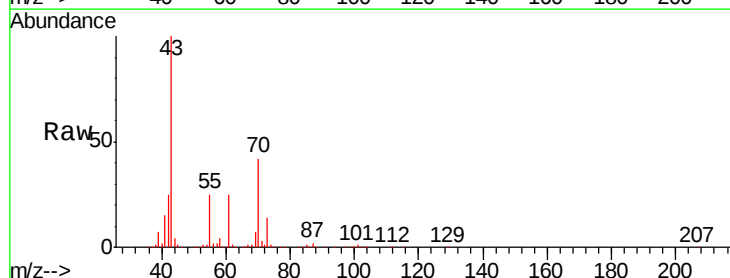
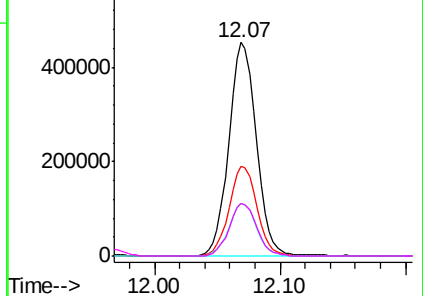
61 24.8 19.7 29.5

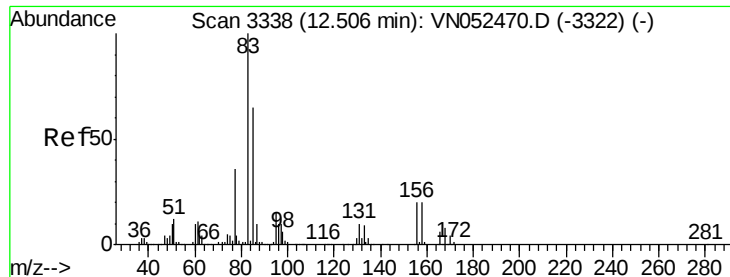
Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V





#75

1,1,2,2-Tetrachloroethane

Concen: 48.645 ug/l

RT: 12.51 min Scan# 3338

Delta R.T. 0.00 min

Lab File: VN052645.D

Acq: 4 Dec 2018 10:47

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 83 Resp: 578026
Ion Ratio Lower Upper

83 100

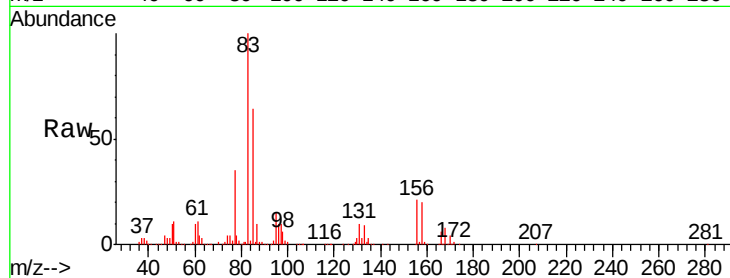
131 10.2 5.0 15.0

85 64.2 31.9 95.9

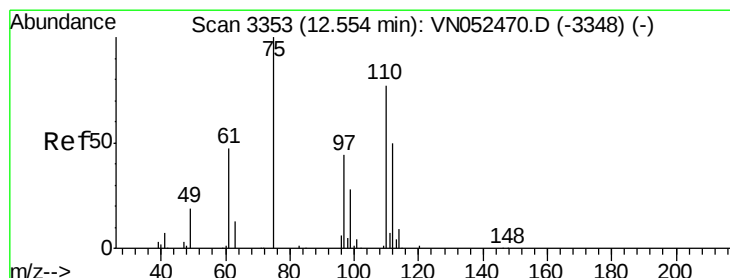
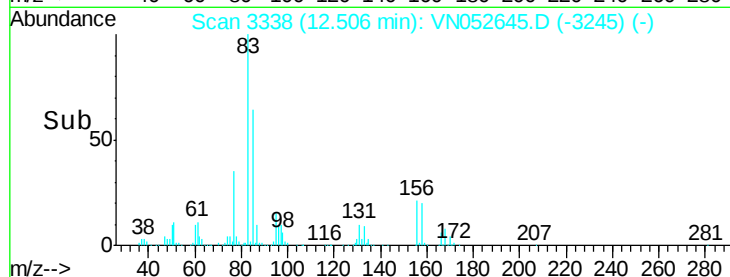
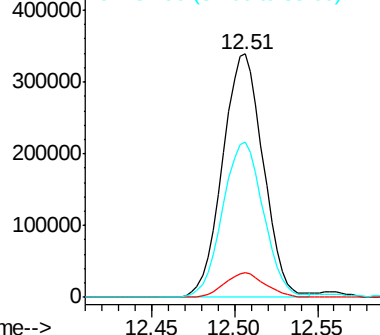
Manual Integrations
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Abundance Ion 82.90 (82.60 to 83.60): VN052645.D (-3322) (-)
Ion 130.80 (130.50 to 131.50): VN052645.D (-3322) (-)
Ion 84.90 (84.60 to 85.60): VN052645.D (-3322) (-)



#76

1,2,3-Trichloropropane

Concen: 47.255 ug/l m

RT: 12.55 min Scan# 3353

Delta R.T. 0.00 min

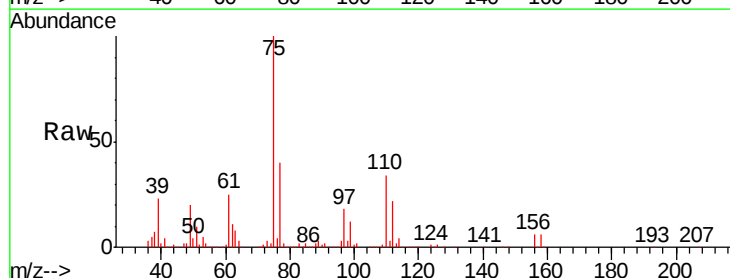
Lab File: VN052645.D

Acq: 4 Dec 2018 10:47

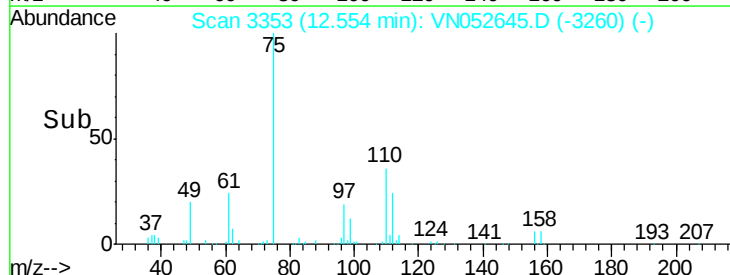
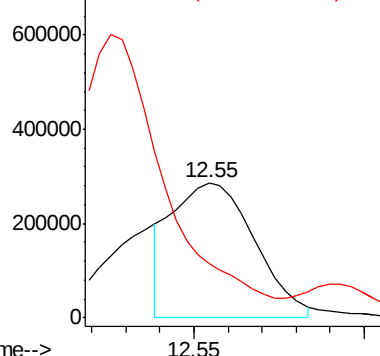
Tgt Ion: 75 Resp: 485157
Ion Ratio Lower Upper

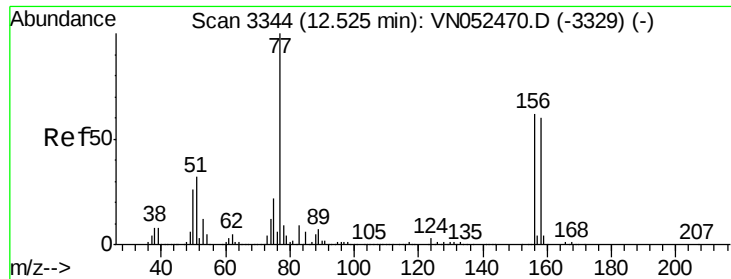
75 100

77 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VN052645.D (-3353) (-)
Ion 77.00 (76.70 to 77.70): VN052645.D (-3353) (-)





#77
Bromobenzene
Concen: 48.935 ug/l
RT: 12.53 min Scan# 3344
Delta R.T. 0.00 min
Lab File: VN052645.D
Acq: 4 Dec 2018 10:47

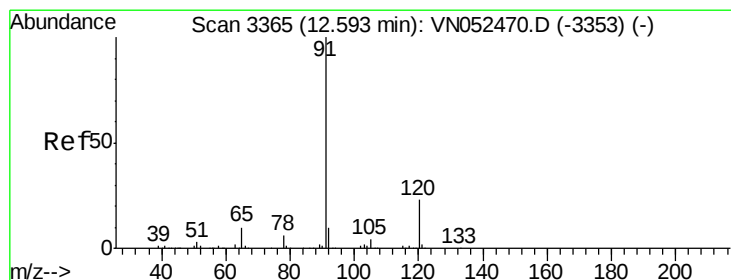
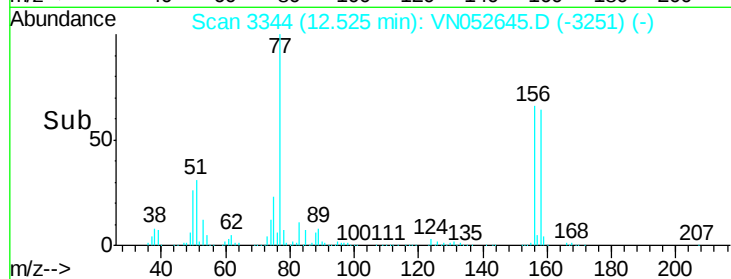
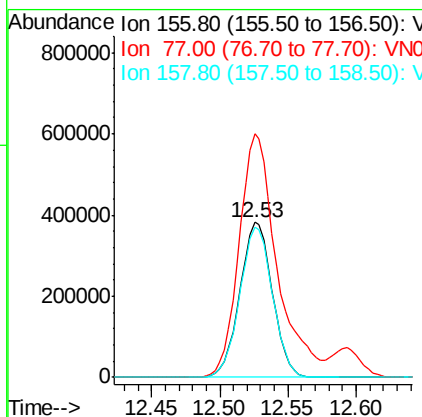
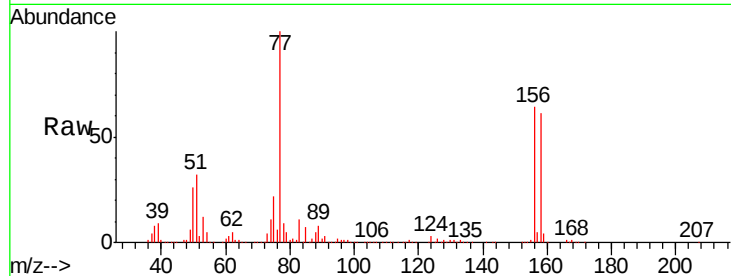
Instrument :
MSVOA_N
ClientSampled :
VSTDCCC050

Tgt Ion	Ratio	Resp	Lower	Upper
156	100	631813		
77	182.6	93.5	280.4	
158	97.5	48.3	144.9	

Manual Integrations
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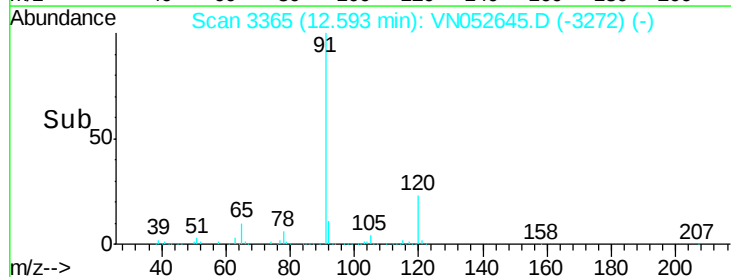
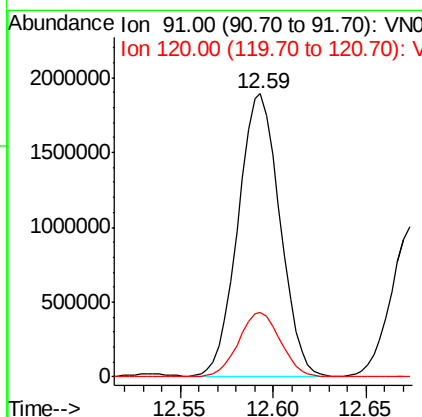
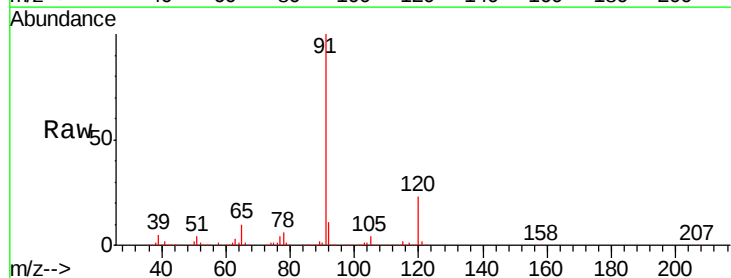
MMDadoda

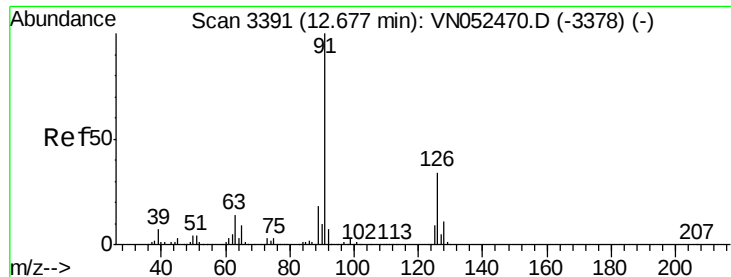
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#78
n-propylbenzene
Concen: 49.886 ug/l
RT: 12.59 min Scan# 3365
Delta R.T. 0.00 min
Lab File: VN052645.D
Acq: 4 Dec 2018 10:47

Tgt Ion	Ratio	Resp	Lower	Upper
91	100	2960343		
120	22.9	11.3	33.9	





#79

2-Chlorotoluene

Concen: 48.366 ug/l

RT: 12.68 min Scan# 3391

Delta R.T. 0.00 min

Lab File: VN052645.D

Acq: 4 Dec 2018 10:47

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 91 Resp: 1709162

Ion Ratio Lower Upper

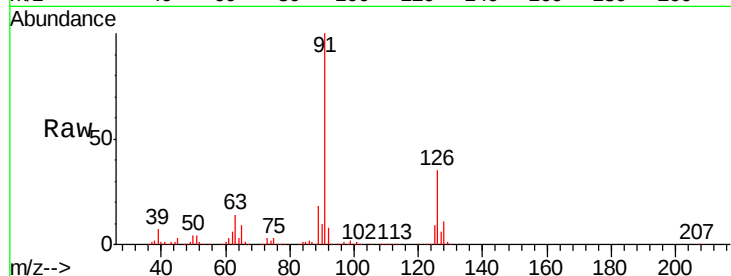
91 100

126 34.7 17.2 51.6

Manual Integrations
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Abundance Ion 91.00 (90.70 to 91.70): VN052470.D (-3378) (-)

Ion 125.90 (125.60 to 126.60): VN052470.D (-3378) (-)

2000000

1500000

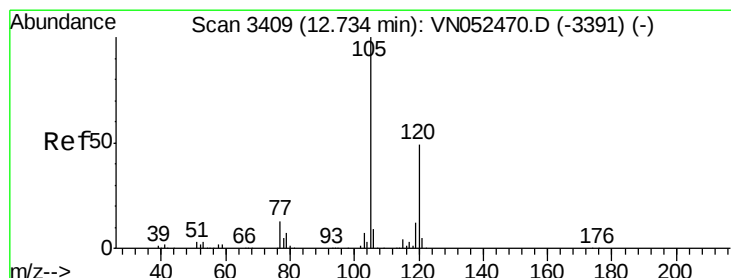
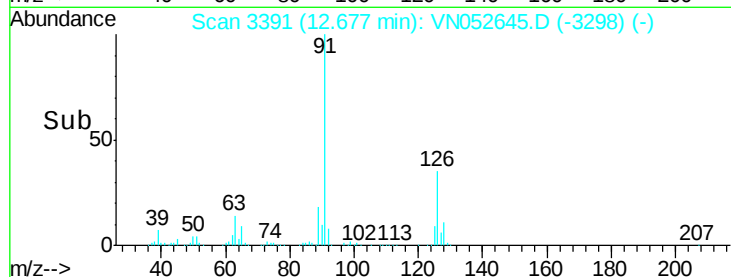
1000000

500000

0

12.60 12.65 12.70

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 50.176 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN052645.D

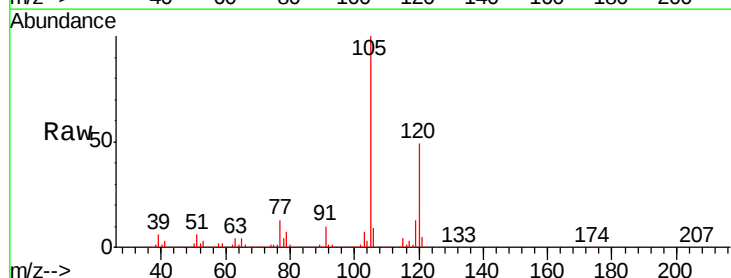
Acq: 4 Dec 2018 10:47

Tgt Ion: 105 Resp: 2090337

Ion Ratio Lower Upper

105 100

120 48.9 24.3 73.0



Abundance Ion 105.00 (104.70 to 105.70): VN052470.D (-3391) (-)

Ion 120.00 (119.70 to 120.70): VN052470.D (-3391) (-)

1500000

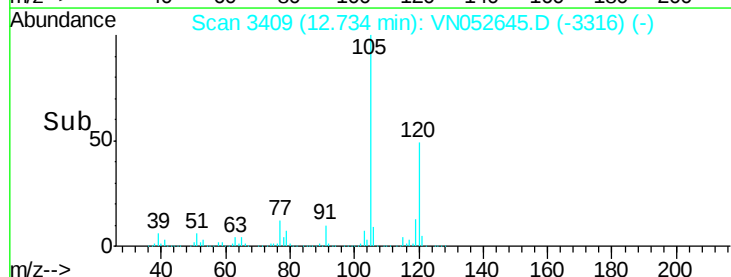
1000000

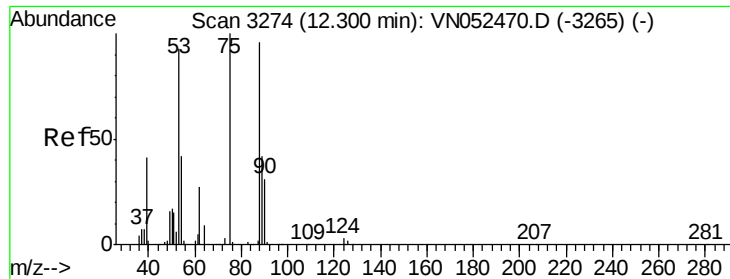
500000

0

12.70 12.80

Time-->





#81
trans-1,4-Dichloro-2-butene
Concen: 54.546 ug/l
RT: 12.30 min Scan# 3274
Delta R.T. 0.00 min
Lab File: VN052645.D
Acq: 4 Dec 2018 10:47

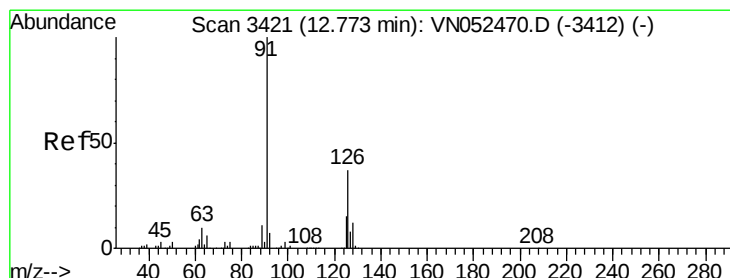
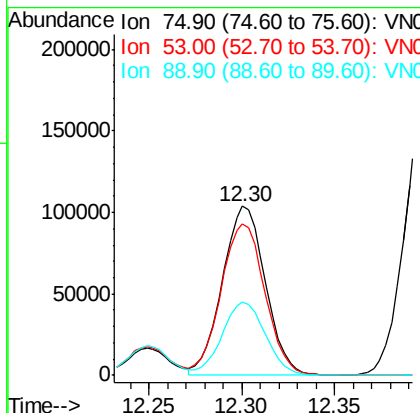
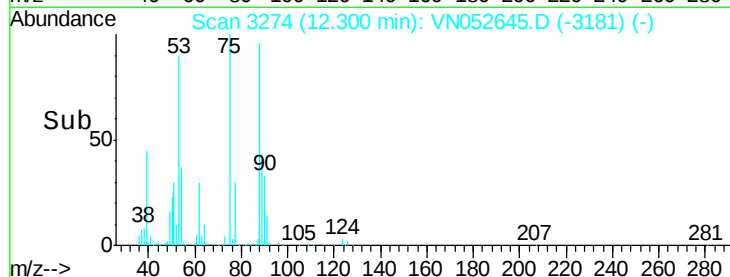
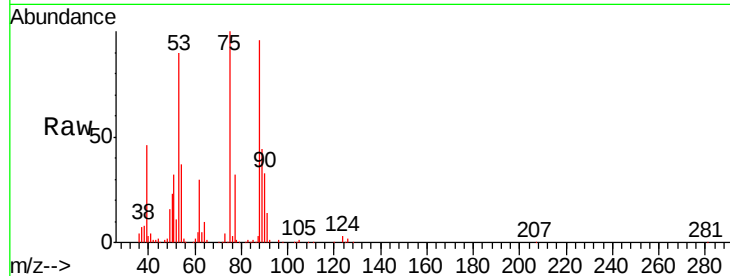
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion	Ratio	Lower	Upper
75	100		
53	91.9	77.4	116.0
89	43.8	35.4	53.2

Manual Integrations
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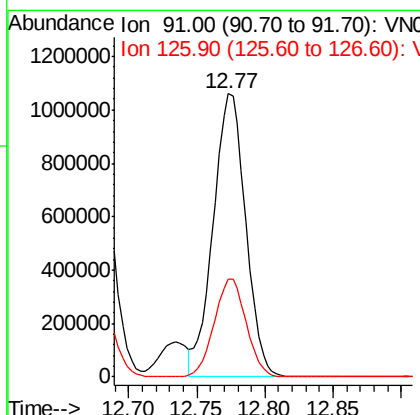
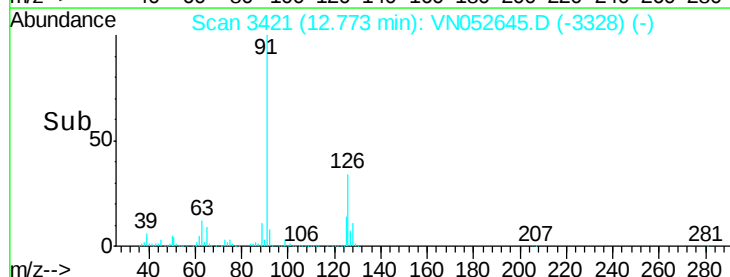
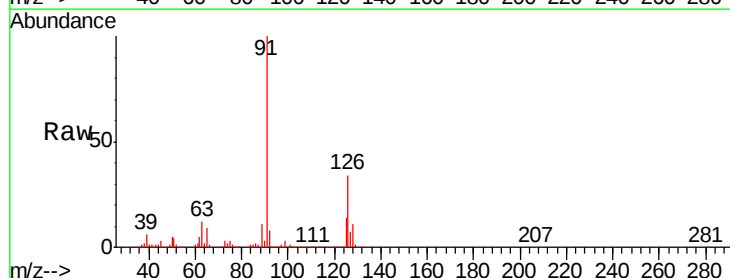
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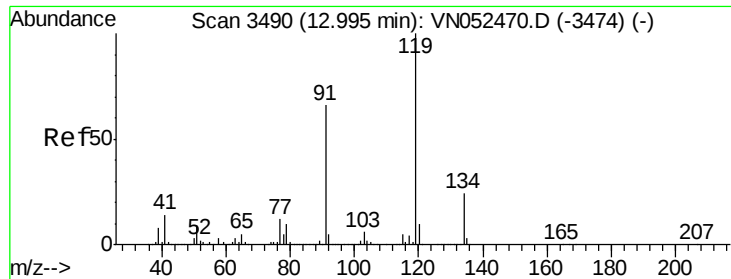
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#82
4-Chlorotoluene
Concen: 49.119 ug/l
RT: 12.77 min Scan# 3421
Delta R.T. 0.00 min
Lab File: VN052645.D
Acq: 4 Dec 2018 10:47

Tgt Ion	Ratio	Lower	Upper
91	100		
126	34.2	16.9	50.6





#83
 tert-Butylbenzene
 Concen: 49.669 ug/l
 RT: 12.99 min Scan# 3490
 Delta R.T. 0.00 min
 Lab File: VN052645.D
 Acq: 4 Dec 2018 10:47

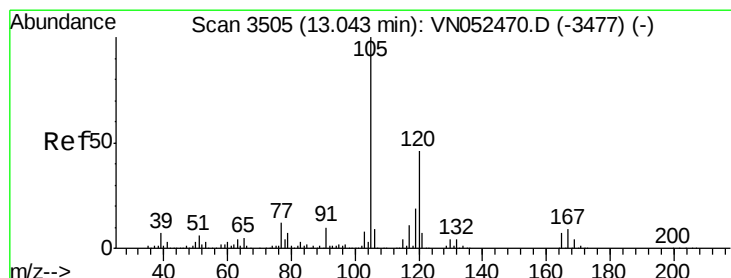
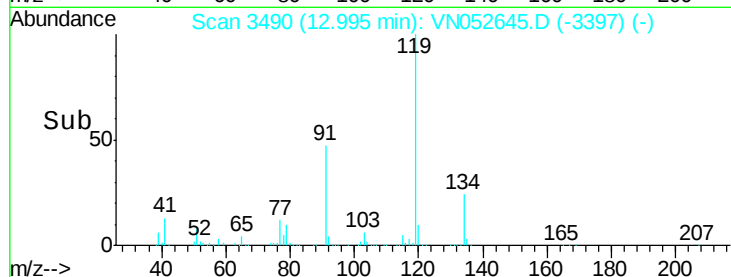
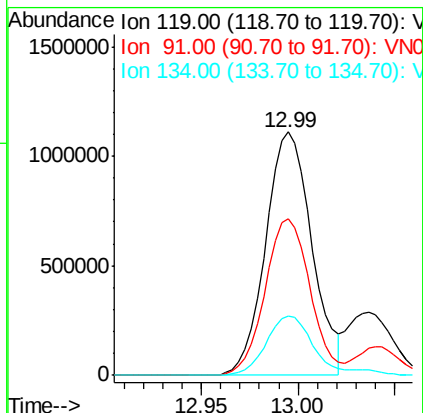
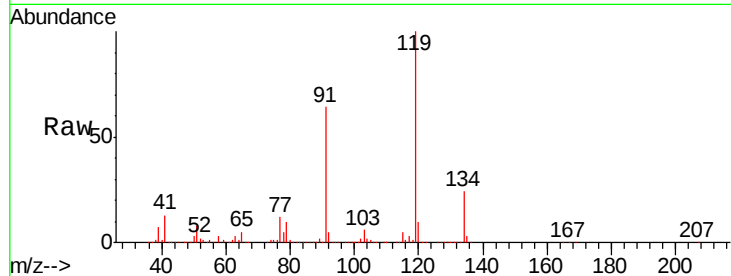
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tgt Ion	Ratio	Lower	Upper
119	100		
91	63.0	32.3	96.9
134	25.9	13.0	38.9

Manual Integrations
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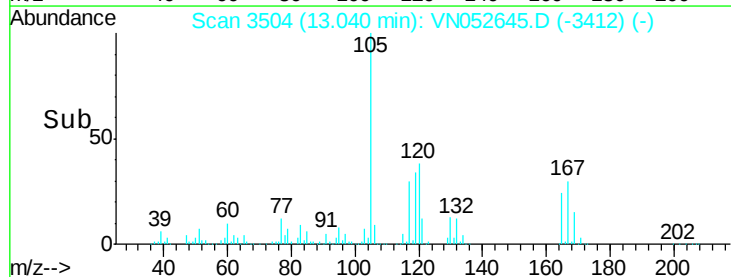
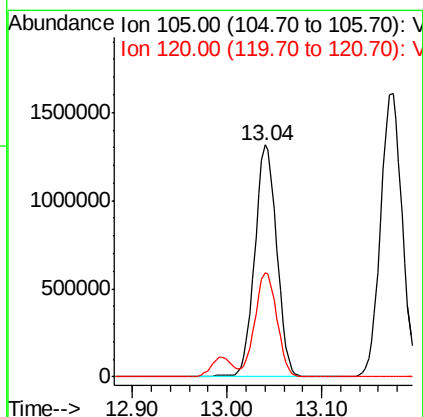
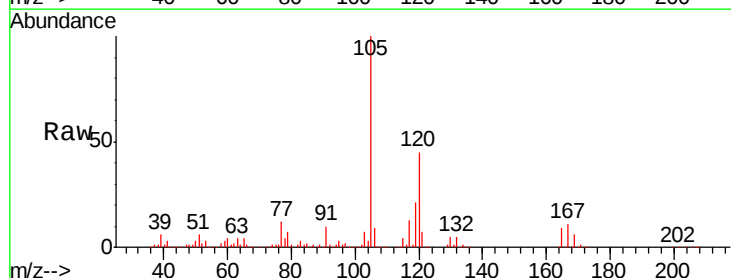
MMDadoda

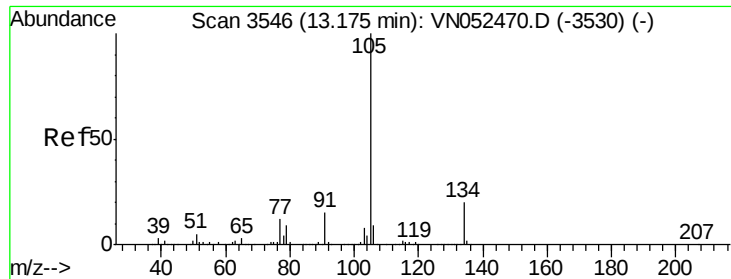
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#84
 1,2,4-Trimethylbenzene
 Concen: 50.948 ug/l
 RT: 13.04 min Scan# 3504
 Delta R.T. -0.00 min
 Lab File: VN052645.D
 Acq: 4 Dec 2018 10:47

Tgt Ion	Ratio	Lower	Upper
105	100		
120	45.3	22.8	68.4





#85
 sec-Butylbenzene
 Concen: 50.153 ug/l
 RT: 13.17 min Scan# 3546
 Delta R.T. 0.00 min
 Lab File: VN052645.D
 Acq: 4 Dec 2018 10:47

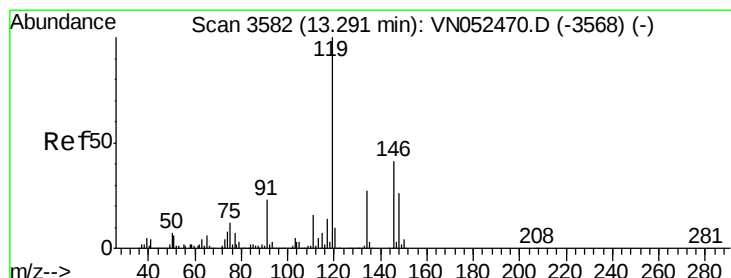
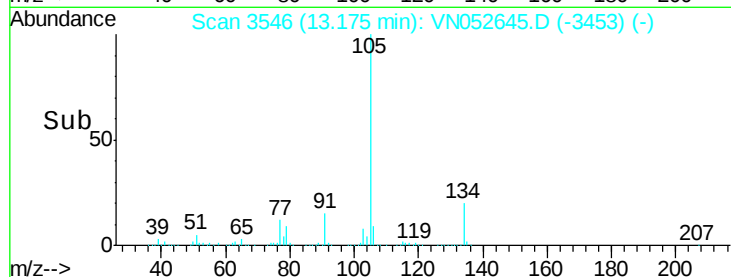
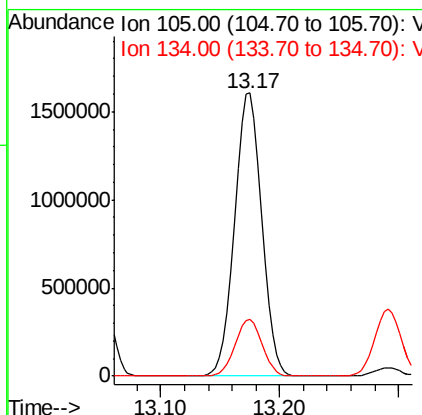
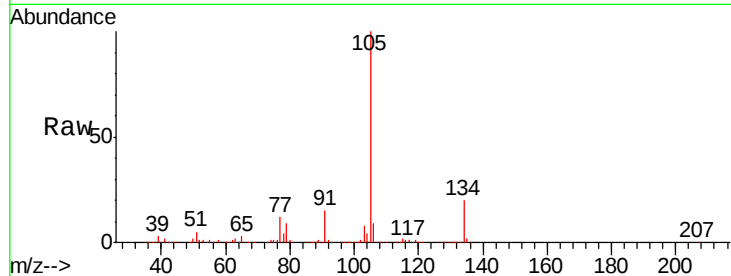
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tgt Ion:105 Resp: 2537008
 Ion Ratio Lower Upper
 105 100
 134 20.0 9.9 29.7

Manual Integrations
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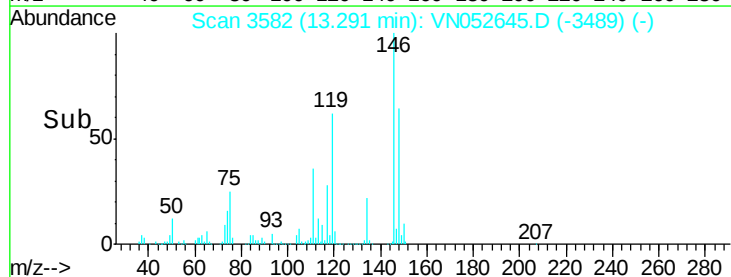
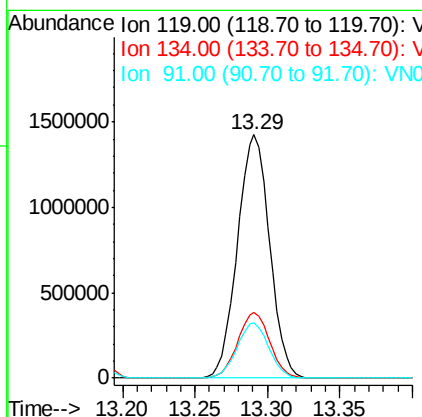
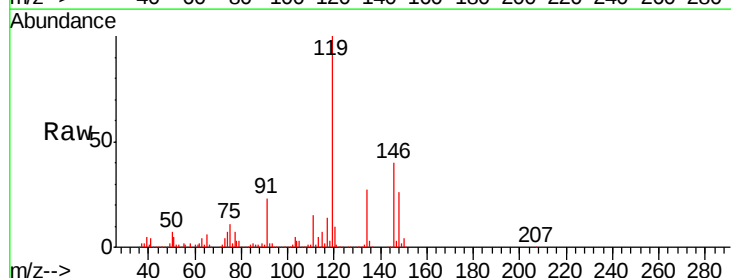
MMDadoda

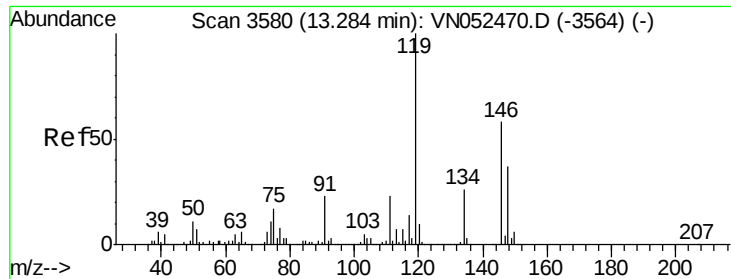
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#86
 p-Isopropyltoluene
 Concen: 50.925 ug/l
 RT: 13.29 min Scan# 3582
 Delta R.T. 0.00 min
 Lab File: VN052645.D
 Acq: 4 Dec 2018 10:47

Tgt Ion:119 Resp: 2194145
 Ion Ratio Lower Upper
 119 100
 134 26.6 13.4 40.2
 91 22.4 11.4 34.2





#87

1,3-Dichlorobenzene

Concen: 50.562 ug/l

RT: 13.28 min Scan# 3580

Delta R.T. 0.00 min

Lab File: VN052645.D

Acq: 4 Dec 2018 10:47

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

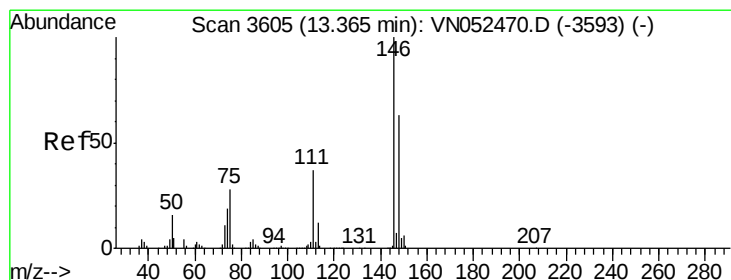
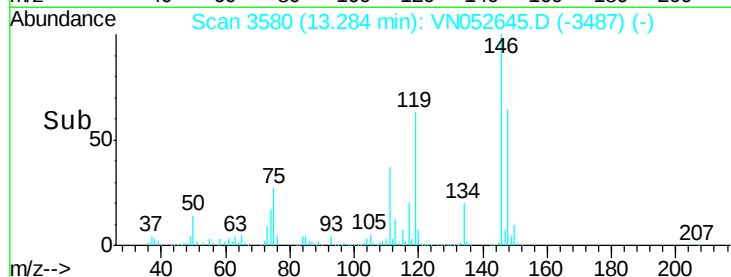
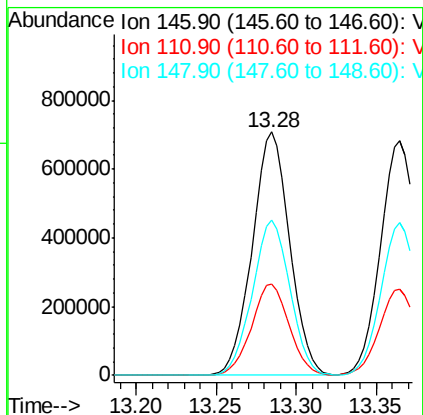
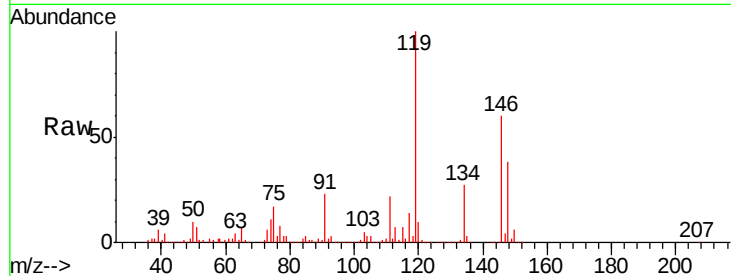
Tgt Ion:146 Resp: 1141921

Ion	Ratio	Lower	Upper
146	100		
111	37.7	19.4	58.4
148	64.0	31.8	95.4

Manual Integrations
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#88

1,4-Dichlorobenzene

Concen: 49.974 ug/l

RT: 13.36 min Scan# 3605

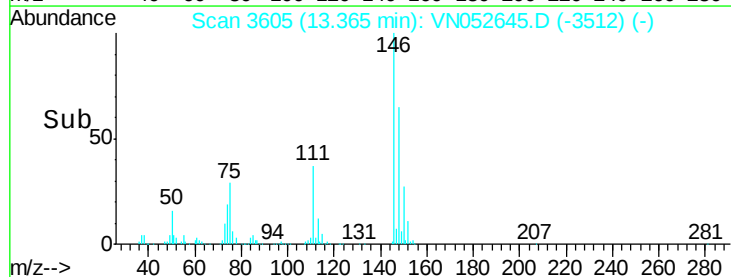
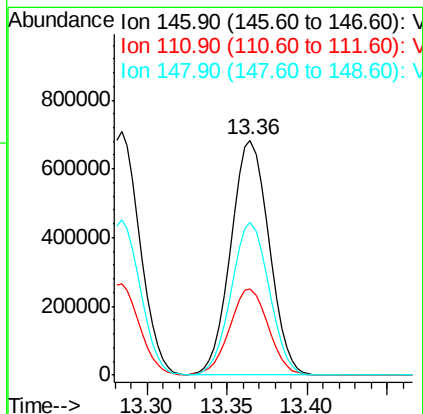
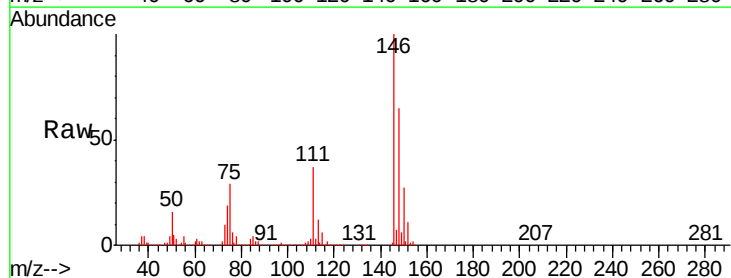
Delta R.T. 0.00 min

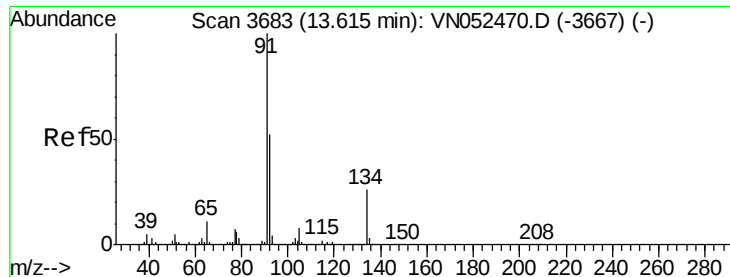
Lab File: VN052645.D

Acq: 4 Dec 2018 10:47

Tgt Ion:146 Resp: 1111701

Ion	Ratio	Lower	Upper
146	100		
111	37.2	18.6	56.0
148	64.6	31.9	95.9





#89
n-Butylbenzene
Concen: 52.809 ug/l
RT: 13.62 min Scan# 3683
Delta R.T. 0.00 min
Lab File: VN052645.D
Acq: 4 Dec 2018 10:47

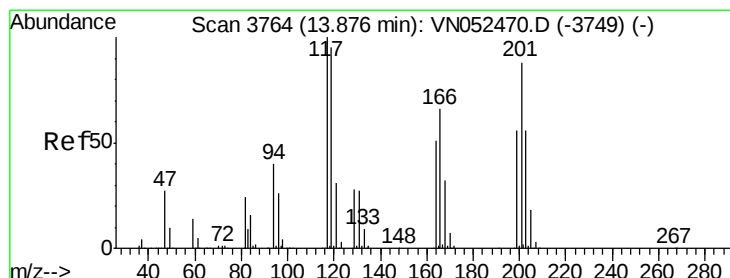
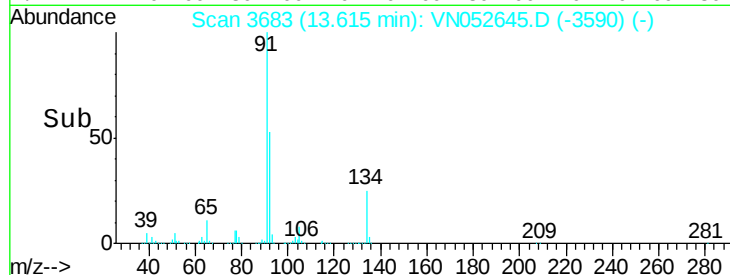
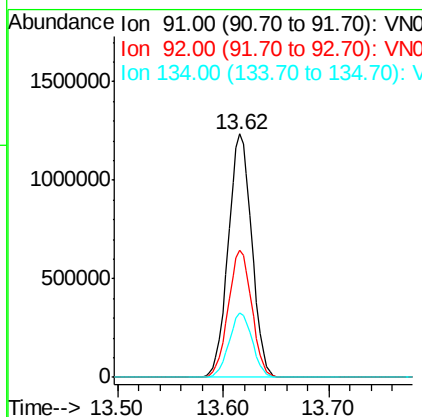
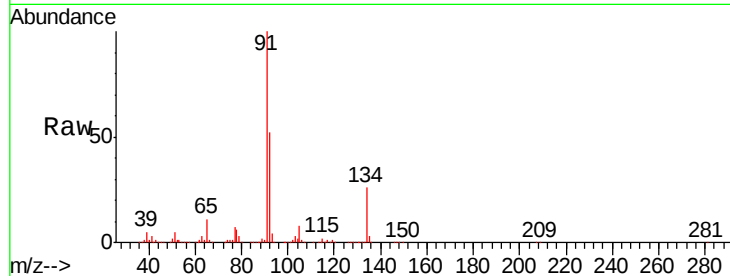
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 91 Resp: 1892265
Ion Ratio Lower Upper
91 100
92 52.2 26.1 78.3
134 26.3 13.0 38.9

Manual Integrations
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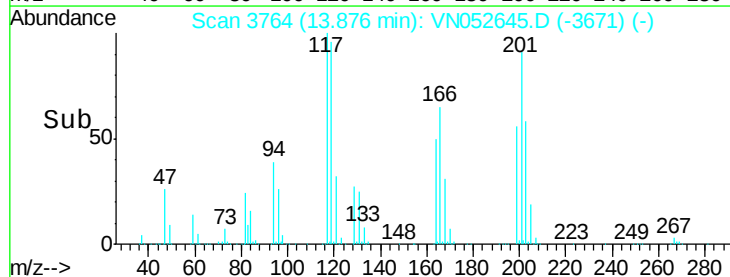
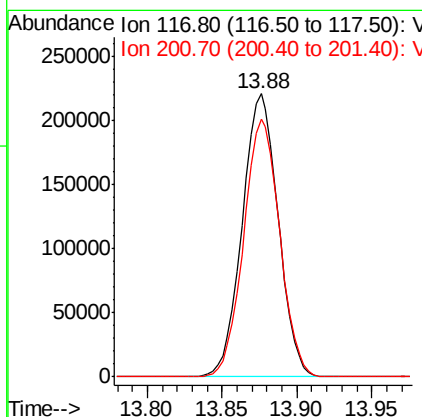
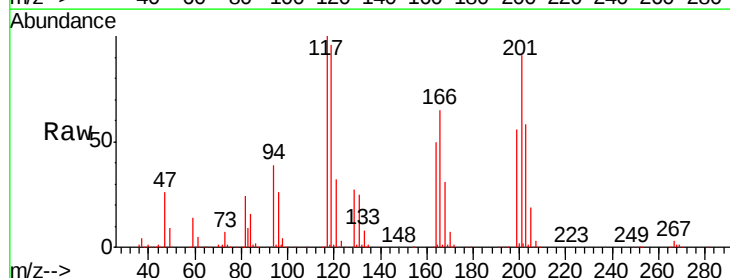
MMDadoda

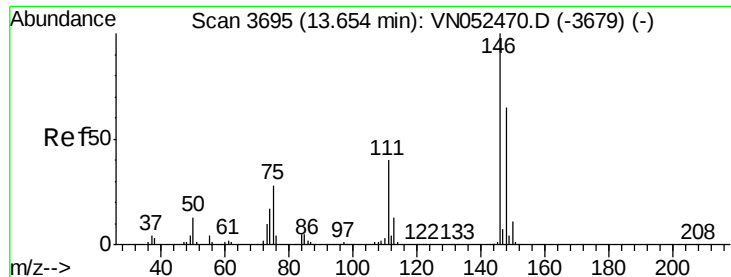
12/5/2018 9:12:58 AM



#90
Hexachloroethane
Concen: 50.633 ug/l
RT: 13.88 min Scan# 3764
Delta R.T. 0.00 min
Lab File: VN052645.D
Acq: 4 Dec 2018 10:47

Tgt Ion: 117 Resp: 369381
Ion Ratio Lower Upper
117 100
201 91.0 43.6 130.9





#91
 1,2-Dichlorobenzene
 Concen: 50.331 ug/l
 RT: 13.65 min Scan# 3695
 Delta R.T. 0.00 min
 Lab File: VN052645.D
 Acq: 4 Dec 2018 10:47

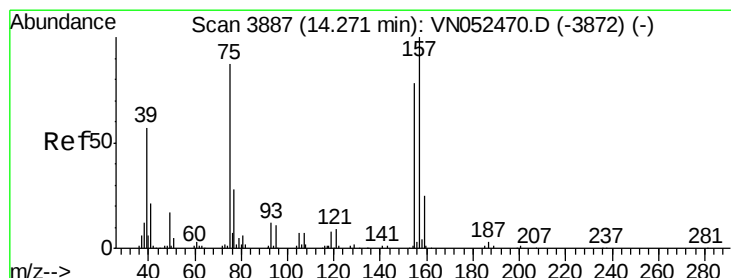
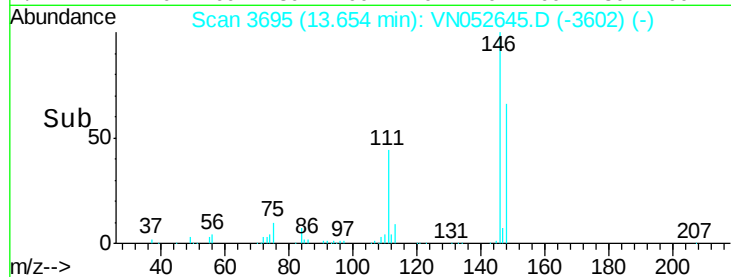
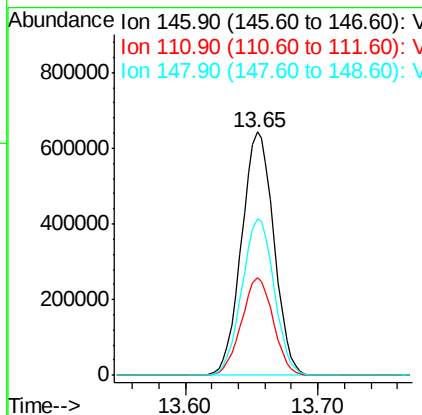
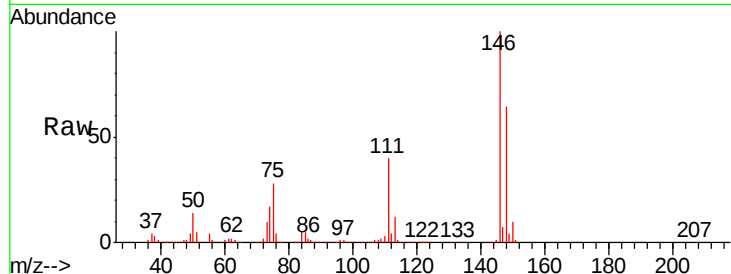
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tgt Ion: 146 Resp: 1086005
 Ion Ratio Lower Upper
 146 100
 111 39.5 20.0 60.0
 148 64.4 32.0 96.2

Manual Integrations
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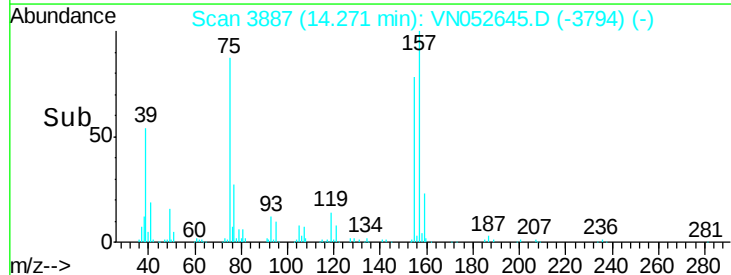
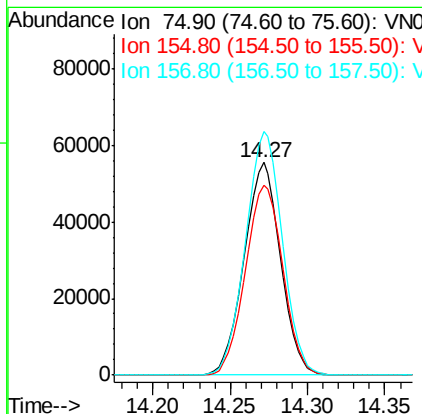
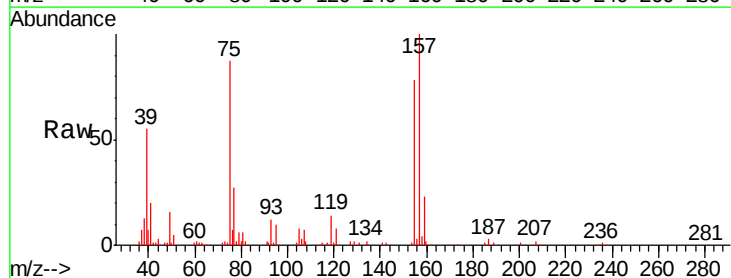
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#92
 1,2-Dibromo-3-Chloropropane
 Concen: 53.716 ug/l
 RT: 14.27 min Scan# 3887
 Delta R.T. 0.00 min
 Lab File: VN052645.D
 Acq: 4 Dec 2018 10:47

Tgt Ion: 75 Resp: 91288
 Ion Ratio Lower Upper
 75 100
 155 91.5 45.3 135.9
 157 115.7 58.1 174.2





#93
 1,2,4-Trichlorobenzene
 Concen: 49.173 ug/l
 RT: 14.91 min Scan# 4086
 Delta R.T. 0.00 min
 Lab File: VN052645.D
 Acq: 4 Dec 2018 10:47

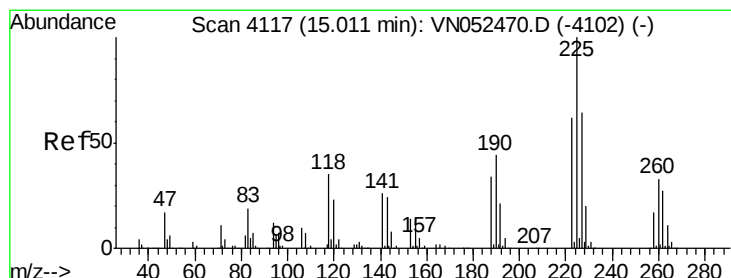
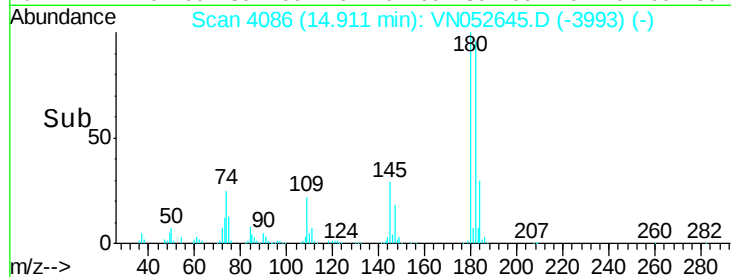
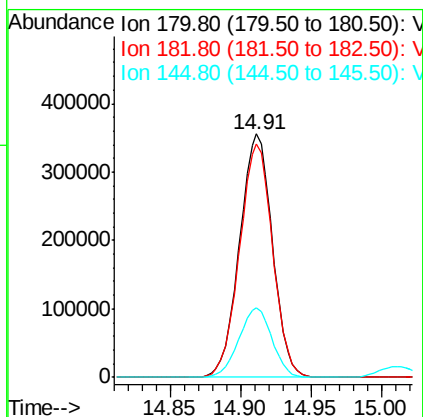
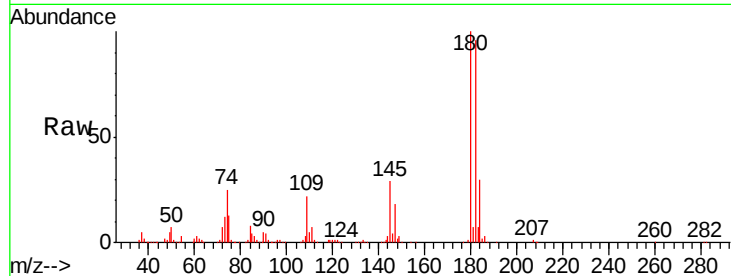
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tgt Ion	Ratio	Resp	Lower	Upper
180	100			
182	96.5	47.8	143.4	
145	28.8	14.1	42.3	

Manual Integrations
 APPROVED

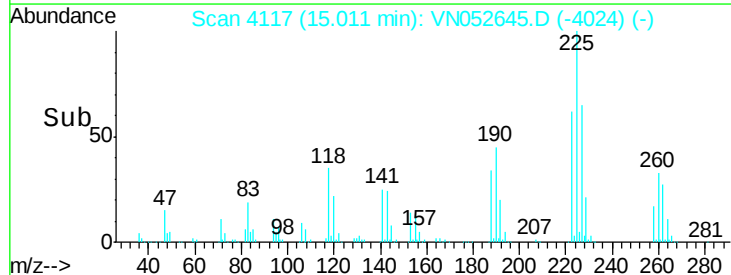
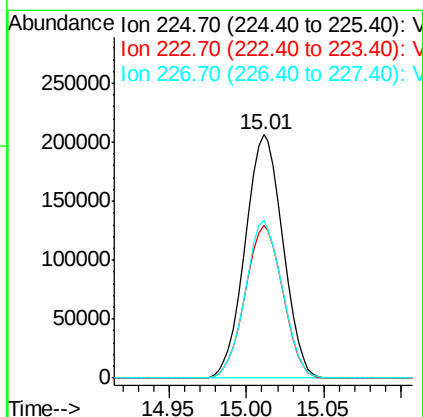
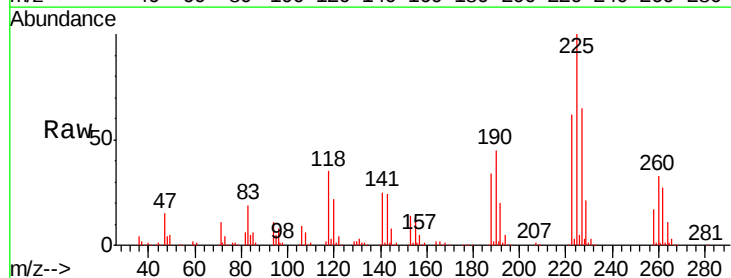
MMDadoda

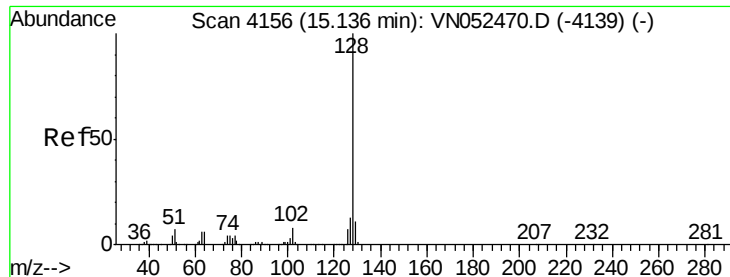
12/5/2018 9:12:58 AM



#94
 Hexachlorobutadiene
 Concen: 50.523 ug/l
 RT: 15.01 min Scan# 4117
 Delta R.T. 0.00 min
 Lab File: VN052645.D
 Acq: 4 Dec 2018 10:47

Tgt Ion	Ratio	Resp	Lower	Upper
225	100			
223	62.4	31.4	94.2	
227	63.7	32.5	97.4	





#95
Naphthalene
Concen: 47.979 ug/l
RT: 15.13 min Scan# 4155
Delta R.T. -0.00 min
Lab File: VN052645.D
Acq: 4 Dec 2018 10:47

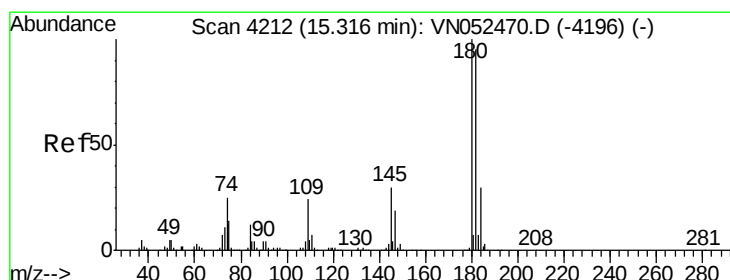
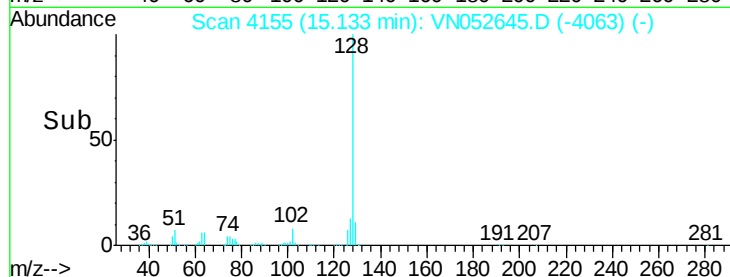
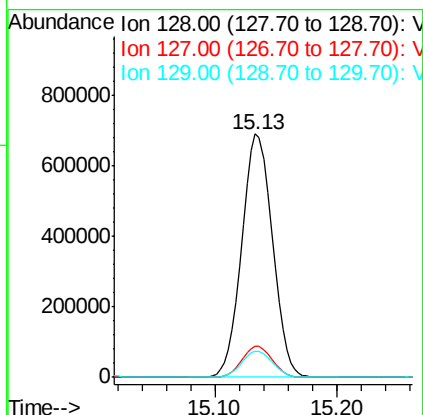
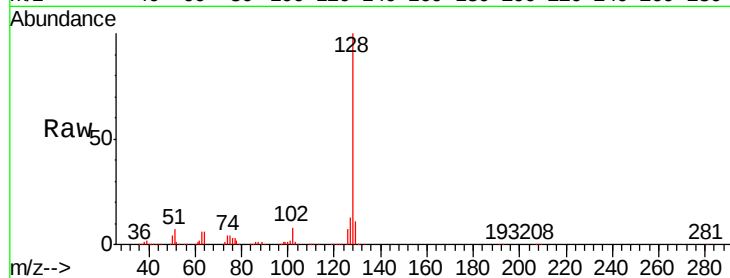
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion	Ratio	Lower	Upper
128	100		
127	12.7	10.2	15.2
129	10.8	8.7	13.1

Manual Integrations
APPROVED

MMDadoda

12/5/2018 9:12:58 AM



#96
1,2,3-Trichlorobenzene
Concen: 48.906 ug/l
RT: 15.32 min Scan# 4212
Delta R.T. 0.00 min
Lab File: VN052645.D
Acq: 4 Dec 2018 10:47

Tgt Ion	Ratio	Lower	Upper
180	100		
182	96.1	47.8	143.3
145	30.4	15.2	45.5

