

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN081718\
 Data File : VN050719.D
 Acq On : 17 Aug 2018 10:01
 Operator : MD\SY
 Sample : VN0817WBSD01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleID :
 VN0817WBSD01

Manual Integrations
 APPROVED

MMDadoda
 8/20/2018 10:52:46 AM

Quant Time: Aug 17 15:30:01 2018
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA N\methods\624N072518W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Jul 26 15:21:50 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	117945	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	628212	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	551635	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	235849	29.42	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	98.07%
60) 4-Bromofluorobenzene	12.40	95	248370	29.31	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	97.70%
63) Toluene-d8	10.09	98	809791	30.73	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	102.43%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	1.85	85	126086	15.51	ug/l	96
3) Chloromethane	2.06	50	163051	19.46	ug/l	99
4) Vinyl Chloride	2.18	62	168975	18.94	ug/l	99
5) Bromomethane	2.57	94	98193	18.05	ug/l	97
6) Chloroethane	2.70	64	101625	19.26	ug/l	98
7) Trichlorofluoromethane	3.01	101	221933	19.04	ug/l	100
8) Diethyl Ether	3.41	74	74599	19.08	ug/l	95
9) 1,1,2-Trichlorotrifluoroet	3.76	101	137349	19.37	ug/l	100
10) 1,1-Dichloroethene	3.74	96	124926	19.87	ug/l	91
11) Methyl Iodide	3.95	142	80766	8.73	ug/l	99
12) Methyl Acetate	4.33	43	116399	16.16	ug/l	96
13) Acrolein	3.61	56	37984	85.32	ug/l	98
14) Acrylonitrile	4.99	53	215413	89.62	ug/l	100
15) Acetone	3.82	58	63590	99.54	ug/l	91
16) Carbon Disulfide	4.05	76	371539	19.31	ug/l	99
17) Allyl chloride	4.32	41	189303	19.06	ug/l	96
18) Methylene Chloride	4.55	84	146358	20.17	ug/l	98
19) trans-1,2-Dichloroethene	5.04	96	132896	19.74	ug/l	97
20) Diisopropyl ether	5.96	45	419815	20.62	ug/l	99
21) 1,1-Dichloroethane	5.85	63	257903	20.14	ug/l	98
22) cis-1,2-Dichloroethene	6.83	96	148963	19.95	ug/l	99
23) tert-Butyl Alcohol	4.79	59	38238	71.19	ug/l	# 100
24) Methyl tert-Butyl Ether	5.05	73	321451	18.74	ug/l	100
25) Chloroform	7.37	83	261384	20.17	ug/l	100
26) Cyclohexane	7.65	56	207817	20.42	ug/l	# 96
29) 1,1-Dichloropropene	7.79	75	192322	19.73	ug/l	99
30) 2-Butanone	6.84	43	297832	97.35	ug/l	99
31) 2,2-Dichloropropane	6.83	77	200184	18.58	ug/l	100
32) 1,1,1-Trichloroethane	7.57	97	219019	19.09	ug/l	100
33) Carbon Tetrachloride	7.78	117	195206	19.08	ug/l	99
34) Benzene	8.04	78	591443	19.98	ug/l	99
35) Methacrylonitrile	7.18	41	52908	15.19	ug/l	97
36) 1,2-Dichloroethane	8.13	62	180110	18.53	ug/l	# 88
37) Trichloroethene	8.84	130	150462	19.38	ug/l	98
38) Methylcyclohexane	9.08	83	189719	18.46	ug/l	99
39) 1,2-Dichloropropane	9.12	63	157292	20.17	ug/l	99
40) Dibromomethane	9.21	93	90838	18.84	ug/l	99

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN081718\
 Data File : VN050719.D
 Acq On : 17 Aug 2018 10:01
 Operator : MD\SY
 Sample : VN0817WBSD01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0817WBSD01

Manual Integrations
 APPROVED

MMDadoda
 8/20/2018 10:52:46 AM

Quant Time: Aug 17 15:30:01 2018
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA N\methods\624N072518W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Jul 26 15:21:50 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	194859	19.16	ug/l	96
42) Vinyl Acetate	5.90	43	1328469	92.28	ug/l	100
43) Ethyl Acetate	6.93	43	111091	17.39	ug/l	98
44) Isopropyl Acetate	8.17	43	193943	16.39	ug/l	97
45) 1,4-Dioxane	9.20	88	26121	335.43	ug/l	97
46) Methyl methacrylate	9.20	41	90310	15.74	ug/l	96
47) n-amyl Acetate	12.07	43	147151	15.98	ug/l	97
48) t-1,3-Dichloropropene	10.38	75	178488	18.42	ug/l	98
49) cis-1,3-Dichloropropene	9.84	75	220192	19.33	ug/l	98
50) 1,1,2-Trichloroethane	10.56	97	130303	18.83	ug/l	97
51) Ethyl methacrylate	10.43	69	145259	17.30	ug/l	97
52) 1,3-Dichloropropane	10.71	76	216017	19.01	ug/l	100
53) Dibromochloromethane	10.90	129	143938	18.33	ug/l	99
54) 1,2-Dibromoethane	11.01	107	123061	18.16	ug/l	100
55) 2-Chloroethyl vinyl ether	9.70	63	349646	91.99	ug/l	99
56) Bromoform	12.13	173	95597	17.24	ug/l	100
58) 4-Methyl-2-Pentanone	9.99	43	682630	106.35	ug/l	99
59) 2-Hexanone	10.75	43	426465	97.39	ug/l	100
61) Tetrachloroethene	10.63	164	140696	18.83	ug/l	99
62) Toluene	10.16	91	634564	20.16	ug/l	99
64) Chlorobenzene	11.43	112	377998	19.81	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.51	131	146373	19.66	ug/l	100
66) Ethyl Benzene	11.51	91	619066	19.25	ug/l	99
67) m/p-Xylenes	11.62	106	491162	39.68	ug/l	99
68) o-Xylene	11.95	106	230446	19.57	ug/l	99
69) Styrene	11.97	104	368306	19.51	ug/l	99
70) Isopropylbenzene	12.25	105	613141	19.55	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.51	83	157238	18.26	ug/l	98
72) 1,2,3-Trichloropropane	12.55	75	139078m	18.91	ug/l	
73) Bromobenzene	12.53	156	158862	19.01	ug/l	99
74) n-propylbenzene	12.59	91	691995	18.94	ug/l	100
75) 2-Chlorotoluene	12.68	91	427466	19.48	ug/l	99
76) 1,3,5-Trimethylbenzene	12.73	105	508735	19.75	ug/l	99
77) t-1,4-Dichloro-2-butene	12.30	75	34709	14.43	ug/l	93
78) 4-Chlorotoluene	12.77	91	417125	19.19	ug/l	99
79) tert-butylbenzene	12.99	119	418185	18.99	ug/l	98
80) 1,2,4-Trimethylbenzene	13.04	105	507462	19.44	ug/l	98
81) sec-Butylbenzene	13.17	105	566844	18.95	ug/l	100
82) p-Isopropyltoluene	13.29	119	477207	18.69	ug/l	98
83) 1,3-Dichlorobenzene	13.28	146	268016	18.42	ug/l	99
84) 1,4-Dichlorobenzene	13.36	146	249239	18.13	ug/l	99
85) n-Butylbenzene	13.62	91	349943	16.89	ug/l	99
86) Hexachloroethane	13.88	117	90926	17.82	ug/l	97
87) 1,2-Dichlorobenzene	13.65	146	263325	18.52	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.27	75	20534	15.31	ug/l	98
89) 1,2,4-Trichlorobenzene	14.91	180	102872	15.15	ug/l	97
90) Hexachlorobutadiene	15.01	225	80468	17.97	ug/l	98
91) Naphthalene	15.13	128	187544	16.45	ug/l	99
92) 1,2,3-Trichlorobenzene	15.31	180	103521	14.99	ug/l	98

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN081718\
Data File : VN050719.D
Acq On : 17 Aug 2018 10:01
Operator : MD\SY
Sample : VN0817WBSD01
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0817WBSD01

Manual Integrations
APPROVED

MMDadoda
8/20/2018 10:52:46 AM

Quant Time: Aug 17 15:30:01 2018
Quant Method : Z:\voasrv\HPCHEM1\MSVOA N\methods\624N072518W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Thu Jul 26 15:21:50 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
--------------------	------	------	----------	------	-------	----------

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

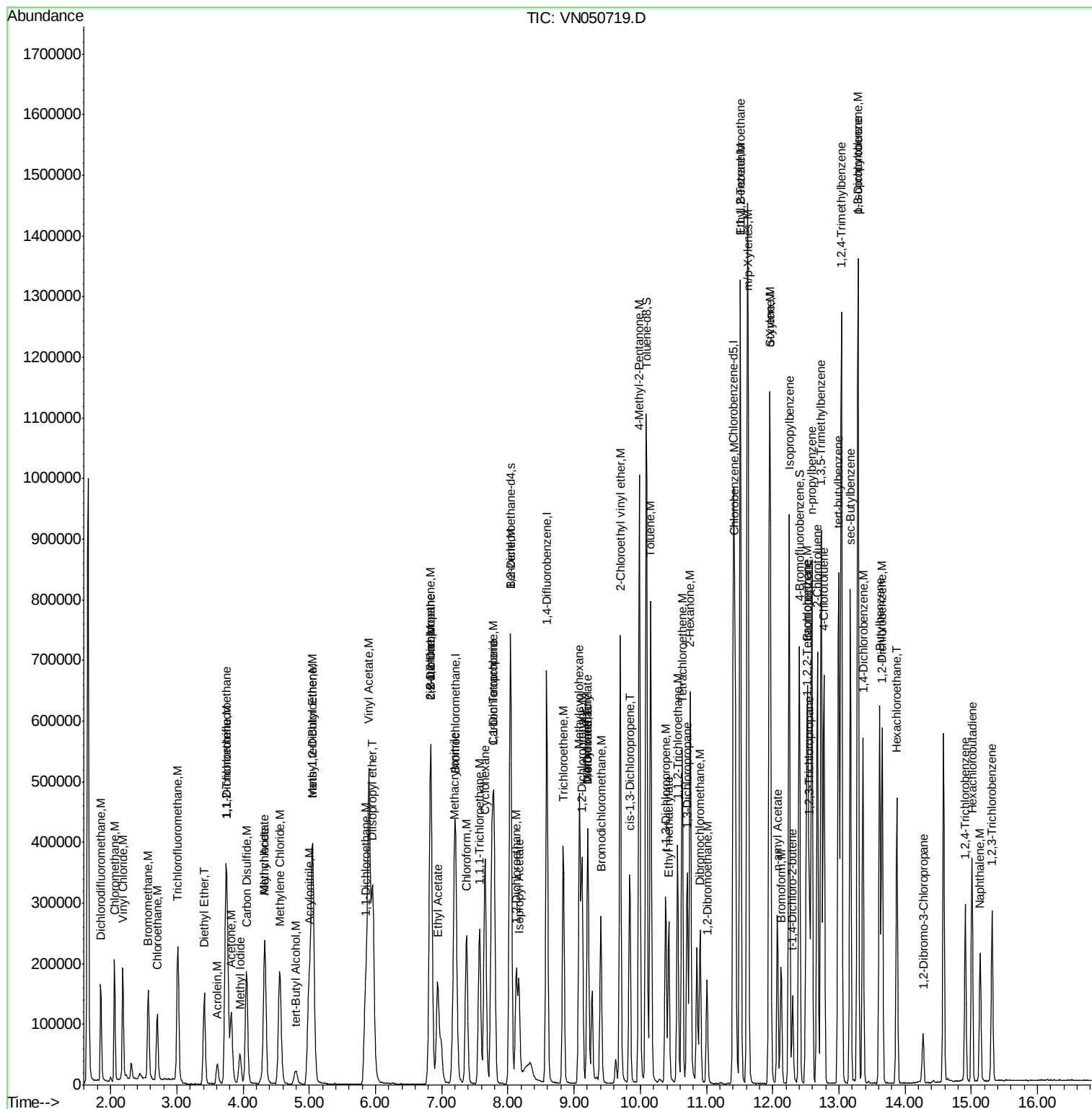
Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN081718\
Data File : VN050719.D
Acq On : 17 Aug 2018 10:01
Operator : MD\SY
Sample : VN0817WBSD01
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 6 Sample Multiplier: 1

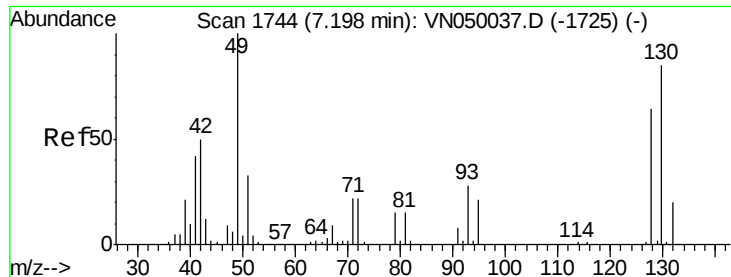
Instrument :
MSVOA_N
Client Sample Id :
VN0817WBSD01

Manual Integrations
APPROVED

MMDadoda
8/20/2018 10:52:46 AM

Quant Time: Aug 17 15:30:01 2018
Quant Method : Z:\voasrv\HPCHEM1\MSVOA N\methods\624N072518W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Thu Jul 26 15:21:50 2018
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.00 ug/l

RT: 7.20 min Scan# 1744

Delta R.T. 0.00 min

Lab File: VN050719.D

Acq: 17 Aug 2018 10:01

Instrument :

MSVOA_N

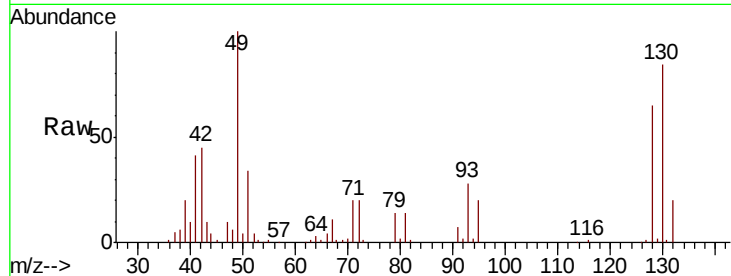
ClientSampleId :

VN0817WBSD01

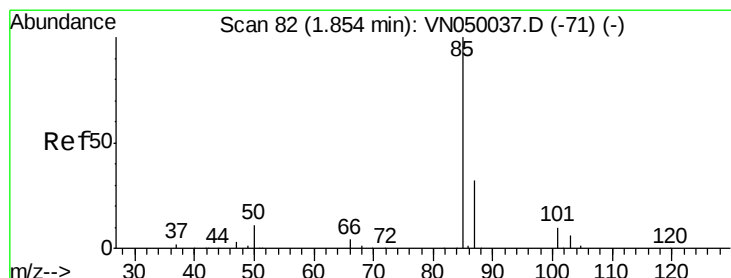
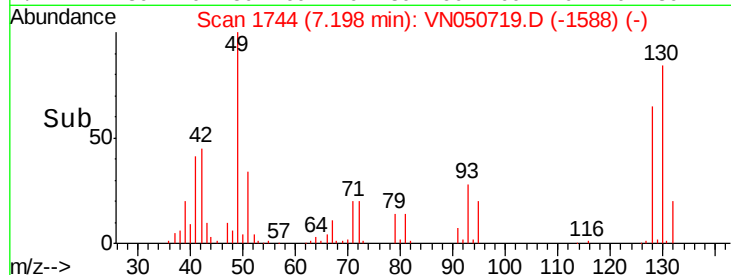
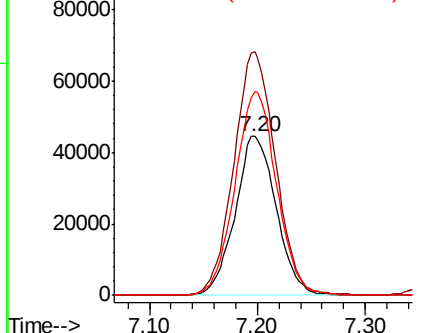
Tot Ion:	128	Resp:	117945
Ion	Ratio	Lower	Upper
128	100		
49	155.8	0.0	378.3
130	130.0	0.0	320.7

Manual Integrations
APPROVED

MMDadoda
8/20/2018 10:52:46 AM



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 49.00 (48.70 to 49.70): VN
Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 15.51 ug/l

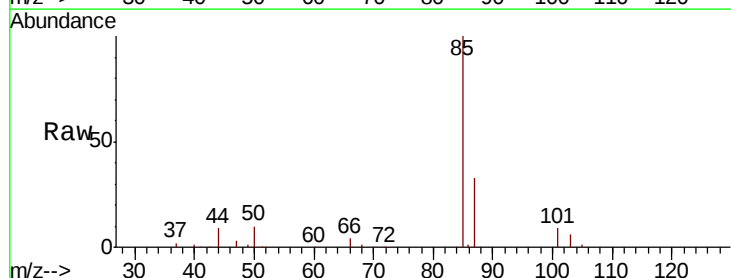
RT: 1.85 min Scan# 81

Delta R.T. -0.00 min

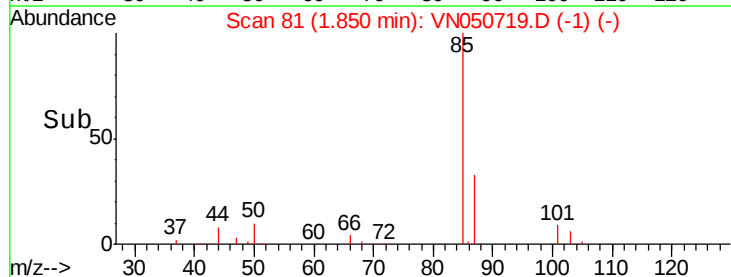
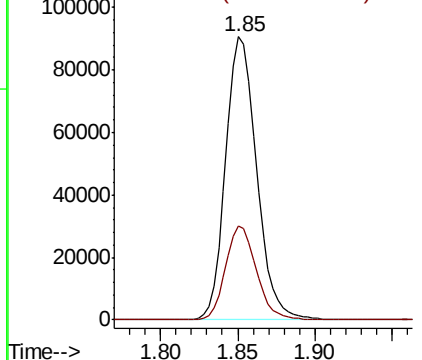
Lab File: VN050719.D

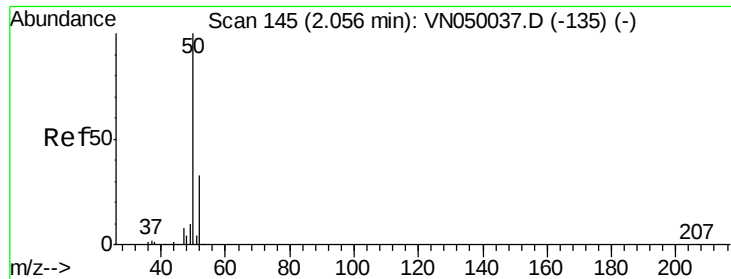
Acq: 17 Aug 2018 10:01

Tgt Ion:	85	Resp:	126086
Ion	Ratio	Lower	Upper
85	100		
87	33.1	15.4	46.4



Abundance Ion 85.00 (84.70 to 85.70): VN
Ion 87.00 (86.70 to 87.70): VN





#3

Chloromethane

Concen: 19.46 ug/l

RT: 2.06 min Scan# 146

Delta R.T. 0.00 min

Lab File: VN050719.D

Acq: 17 Aug 2018 10:01

Instrument :

MSVOA_N

ClientSampleId :

VN0817WBSD01

Tot Ion: 50 Resp: 163051

Ion Ratio Lower Upper

50 100

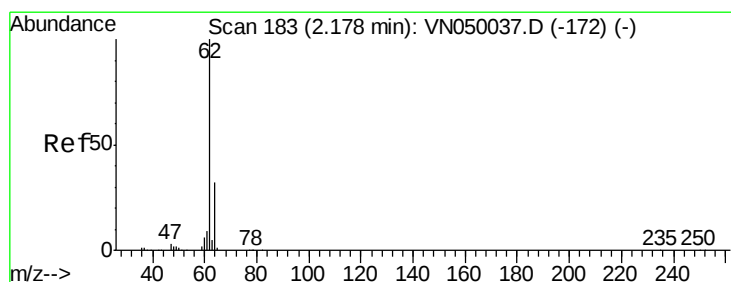
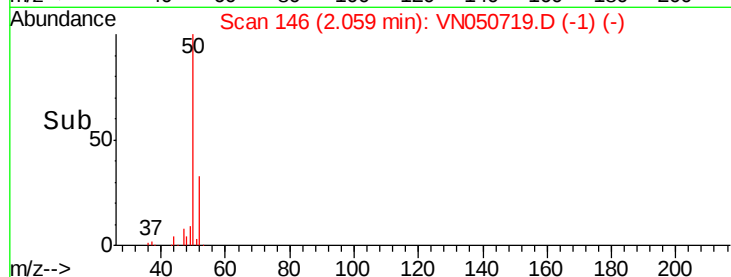
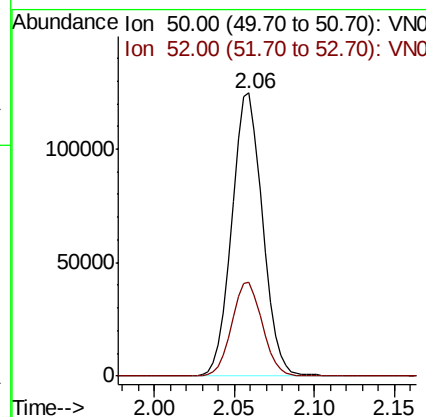
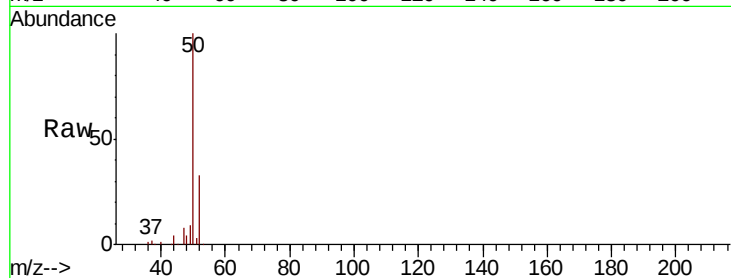
52 33.1 26.1 39.1

Manual Integrations

APPROVED

MMDadoda

8/20/2018 10:52:46 AM



#4

Vinyl Chloride

Concen: 18.94 ug/l

RT: 2.18 min Scan# 184

Delta R.T. 0.00 min

Lab File: VN050719.D

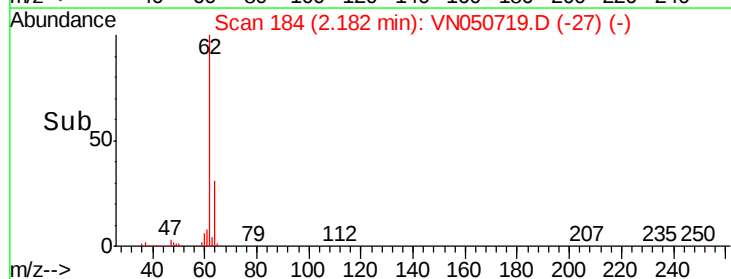
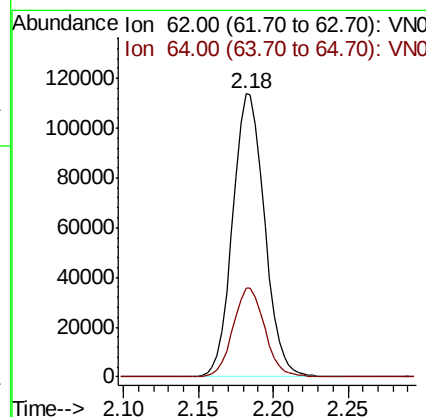
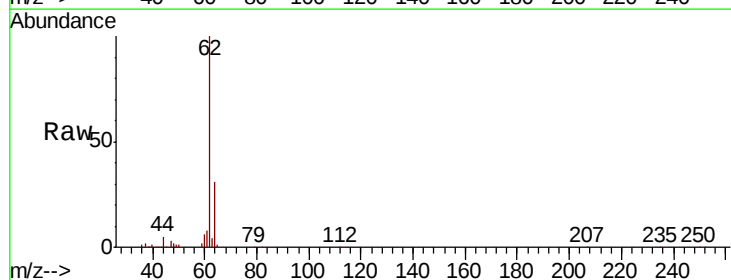
Acq: 17 Aug 2018 10:01

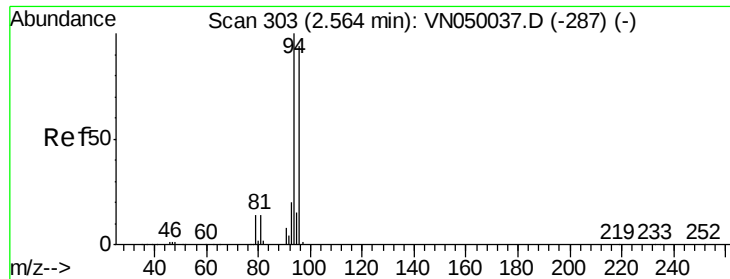
Tgt Ion: 62 Resp: 168975

Ion Ratio Lower Upper

62 100

64 31.3 24.4 36.6





#5

Bromomethane

Concen: 18.05 ug/l

RT: 2.57 min Scan# 304

Delta R.T. 0.00 min

Lab File: VN050719.D

Acq: 17 Aug 2018 10:01

Instrument :

MSVOA_N

ClientSampleId :

VN0817WBSD01

Tot Ion: 94 Resp: 98193

Ion Ratio Lower Upper

94 100

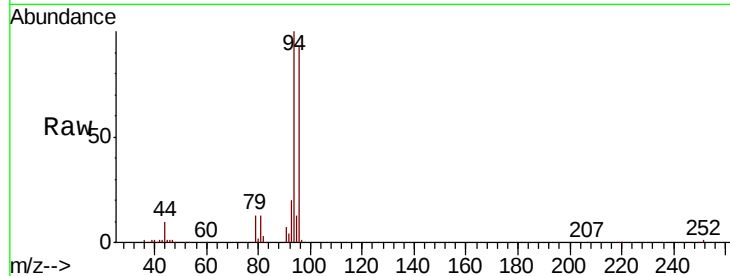
96 92.5 75.9 113.9

Manual Integrations

APPROVED

MMDadoda

8/20/2018 10:52:46 AM



Abundance Ion 94.00 (93.70 to 94.70): VN0

Ion 96.00 (95.70 to 96.70): VN0

60000

50000

40000

30000

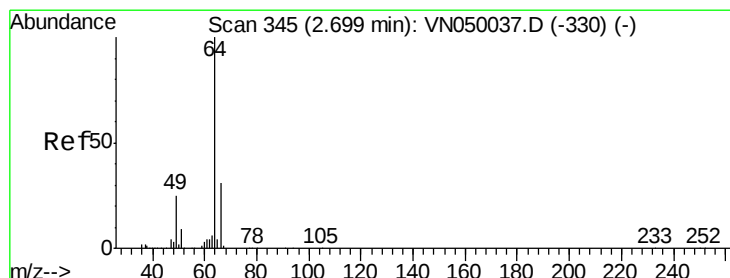
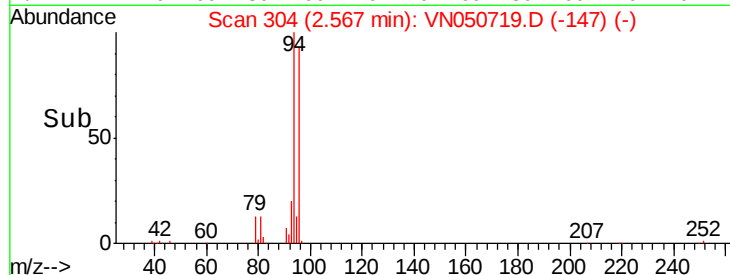
20000

10000

0

2.50 2.55 2.60 2.65

Time-->



#6

Chloroethane

Concen: 19.26 ug/l

RT: 2.70 min Scan# 346

Delta R.T. 0.00 min

Lab File: VN050719.D

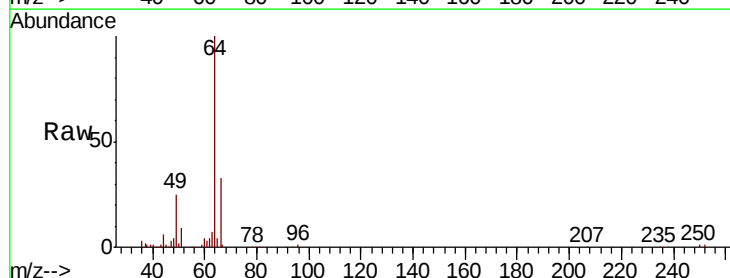
Acq: 17 Aug 2018 10:01

Tgt Ion: 64 Resp: 101625

Ion Ratio Lower Upper

64 100

66 32.5 25.0 37.4



Abundance Ion 64.00 (63.70 to 64.70): VN0

Ion 66.00 (65.70 to 66.70): VN0

60000

50000

40000

30000

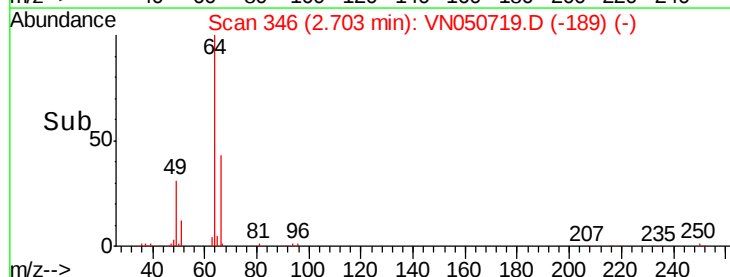
20000

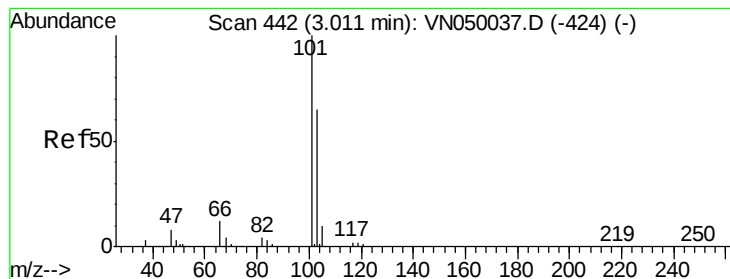
10000

0

2.60 2.65 2.70 2.75 2.80

Time-->





#7

Trichlorofluoromethane

Concen: 19.04 ug/l

RT: 3.01 min Scan# 443

Delta R.T. 0.00 min

Lab File: VN050719.D

Acq: 17 Aug 2018 10:01

Instrument :

MSVOA_N

ClientSampleId :

VN0817WBSD01

Tot Ion:101 Resp: 221933

Ion Ratio Lower Upper

101 100

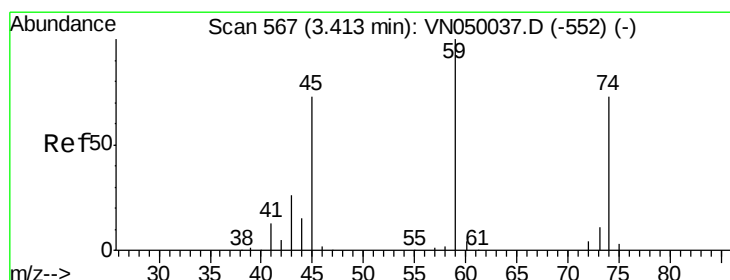
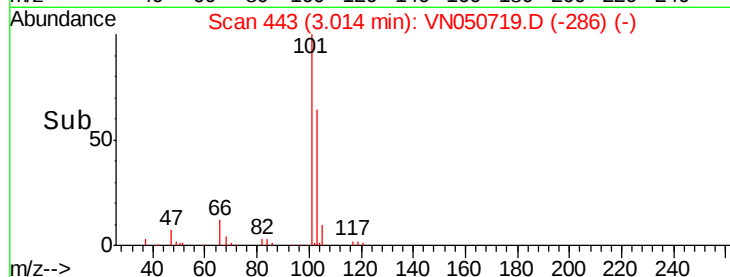
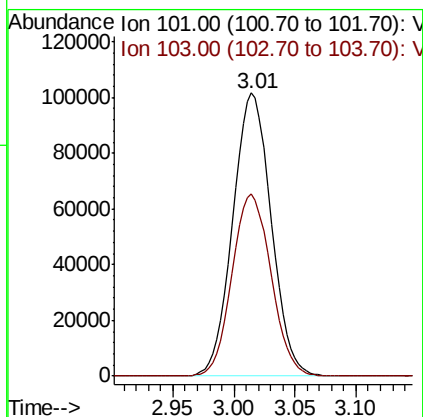
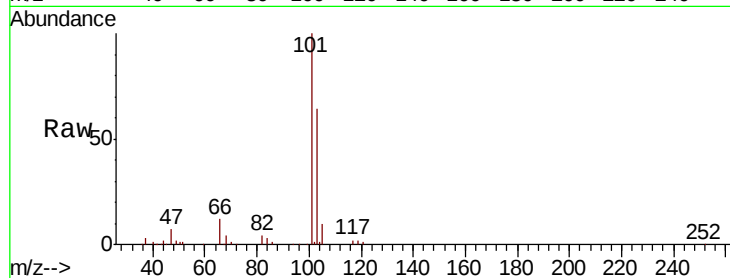
103 64.2 51.5 77.3

Manual Integrations

APPROVED

MMDadoda

8/20/2018 10:52:46 AM



#8

Diethyl Ether

Concen: 19.08 ug/l

RT: 3.41 min Scan# 567

Delta R.T. 0.00 min

Lab File: VN050719.D

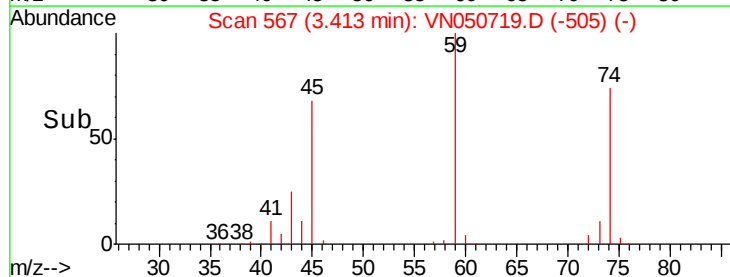
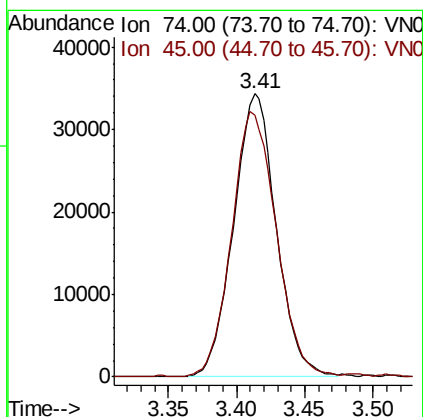
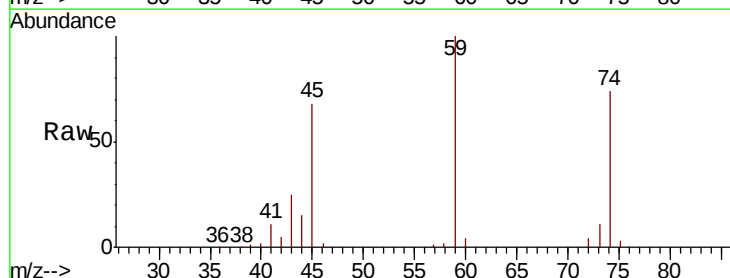
Acq: 17 Aug 2018 10:01

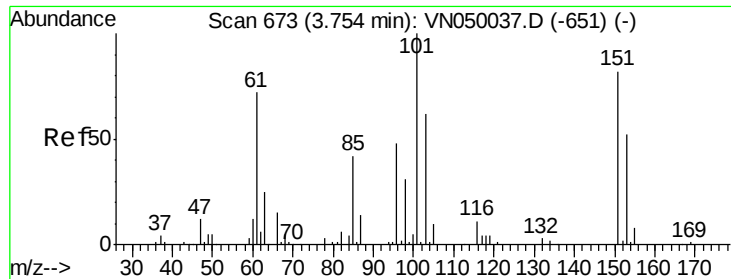
Tgt Ion: 74 Resp: 74599

Ion Ratio Lower Upper

74 100

45 98.2 18.7 167.9





#9

1,1,2-Trichlorotrifluoroethane

Concen: 19.37 ug/l

RT: 3.76 min Scan# 674

Delta R.T. 0.00 min

Lab File: VN050719.D

Acq: 17 Aug 2018 10:01

Instrument :

MSVOA_N

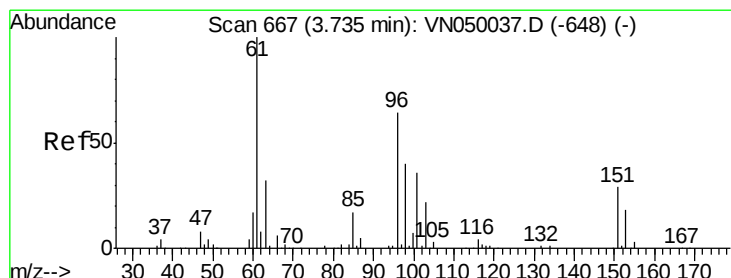
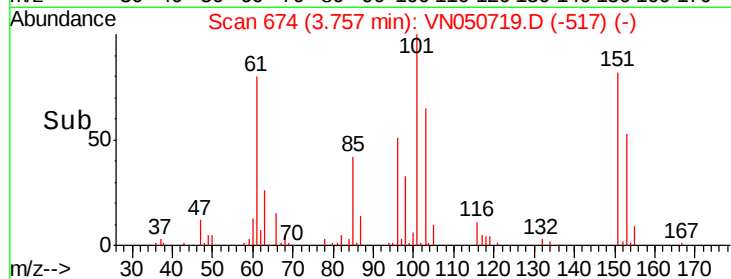
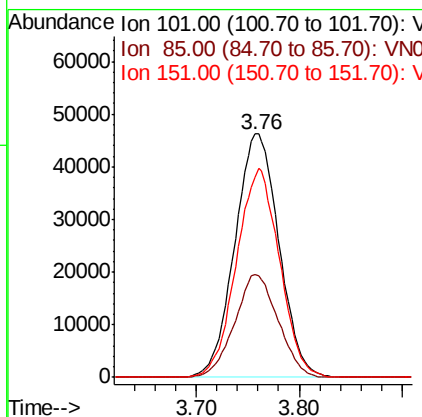
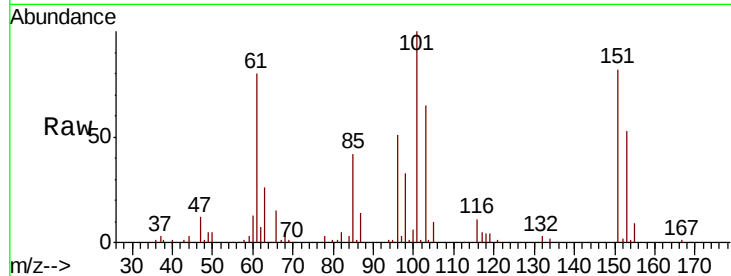
ClientSampleId :

VN0817WBSD01

Tot Ion:	101	Resp:	137349
Ion Ratio	Lower	Upper	
101	100		
85	41.5	0.0	83.0
151	83.7	0.0	166.8

Manual Integrations
APPROVED

MMDadoda
8/20/2018 10:52:46 AM



#10

1,1-Dichloroethene

Concen: 19.87 ug/l

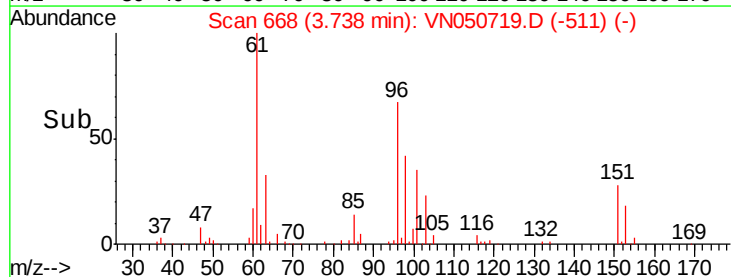
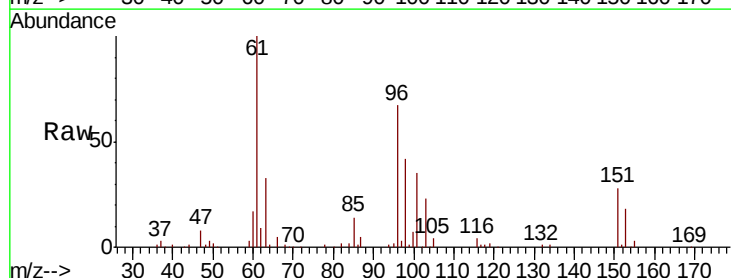
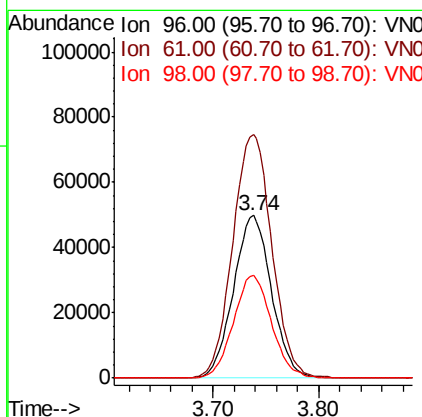
RT: 3.74 min Scan# 668

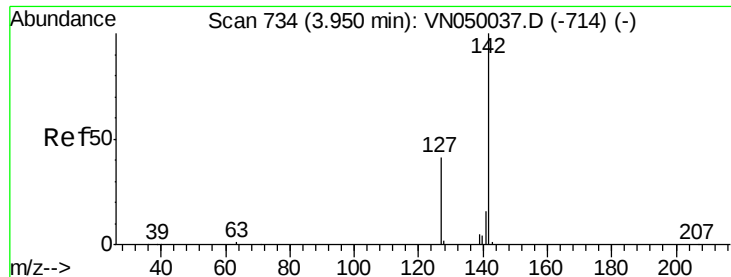
Delta R.T. 0.00 min

Lab File: VN050719.D

Acq: 17 Aug 2018 10:01

Tgt Ion:	96	Resp:	124926
Ion Ratio	Lower	Upper	
96	100		
61	149.7	130.6	195.8
98	63.0	53.5	80.3





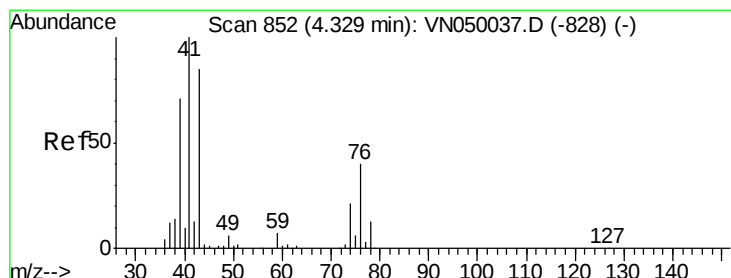
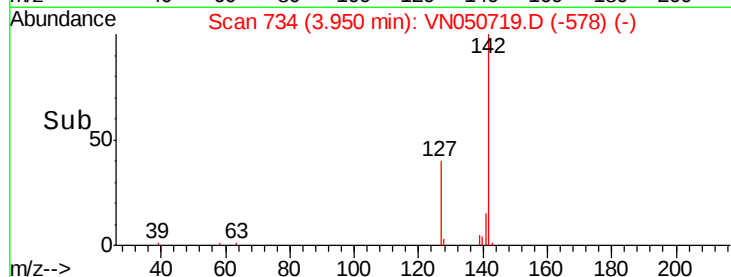
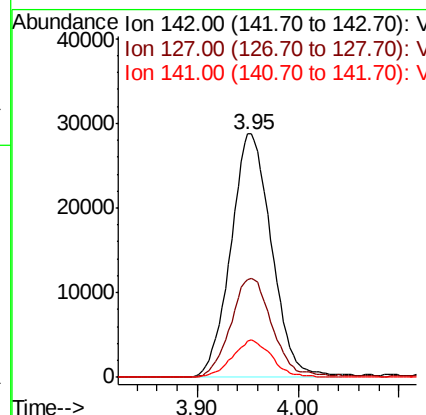
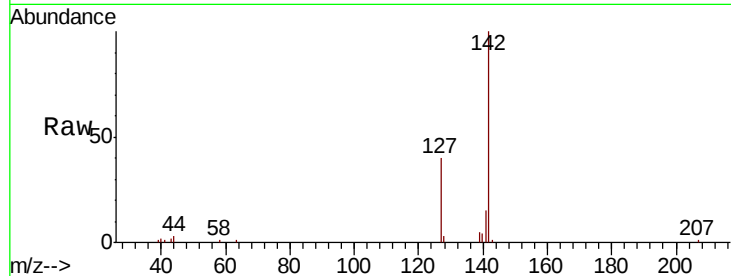
#11
Methyl Iodide
Concen: 8.73 ug/l
RT: 3.95 min Scan# 734
Delta R.T. 0.00 min
Lab File: VN050719.D
Acq: 17 Aug 2018 10:01

Instrument :
MSVOA_N
ClientSampleId :
VN0817WBSD01

Tot Ion	Ratio	Lower	Upper
142	100		
127	39.7	20.2	60.5
141	14.8	6.9	20.6

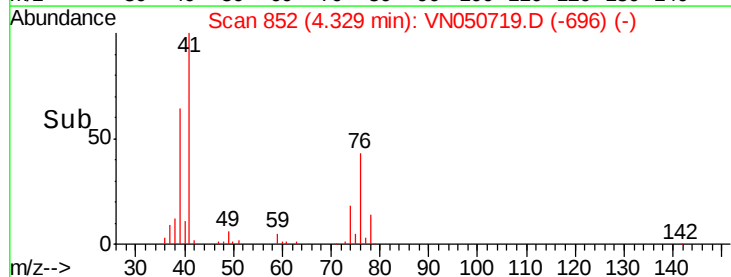
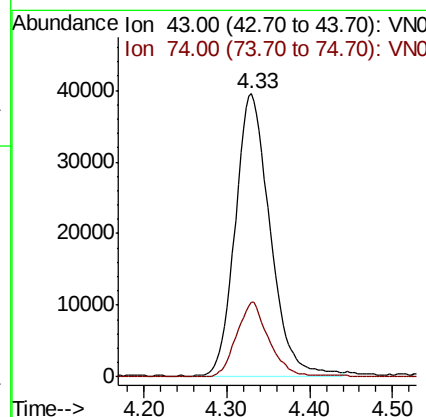
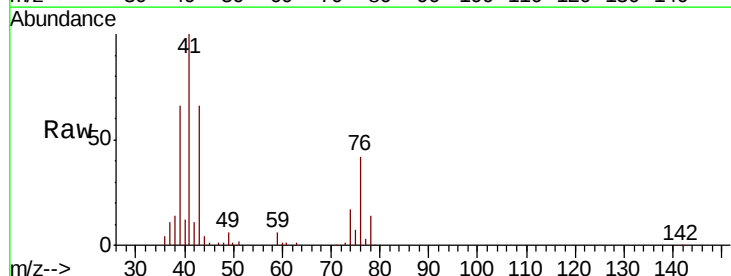
Manual Integrations
APPROVED

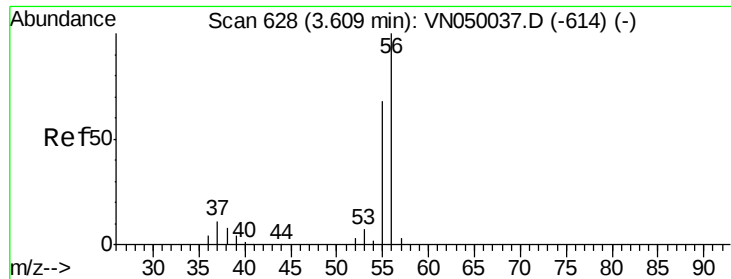
MMDadoda
8/20/2018 10:52:46 AM



#12
Methyl Acetate
Concen: 16.16 ug/l
RT: 4.33 min Scan# 852
Delta R.T. 0.00 min
Lab File: VN050719.D
Acq: 17 Aug 2018 10:01

Tgt Ion	Ratio	Lower	Upper
43	100		
74	26.2	19.3	28.9





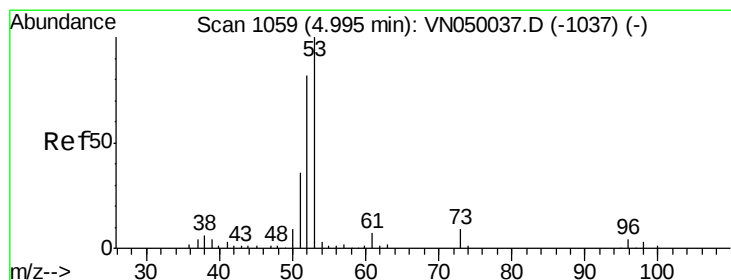
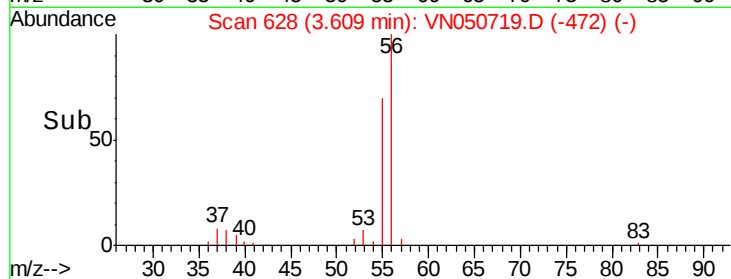
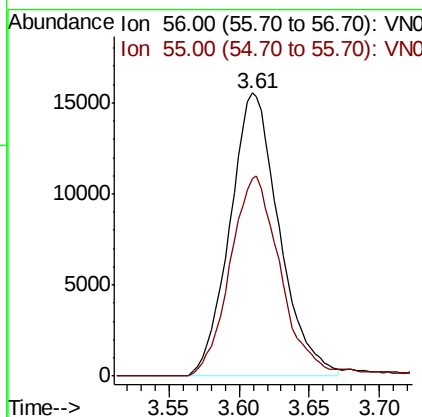
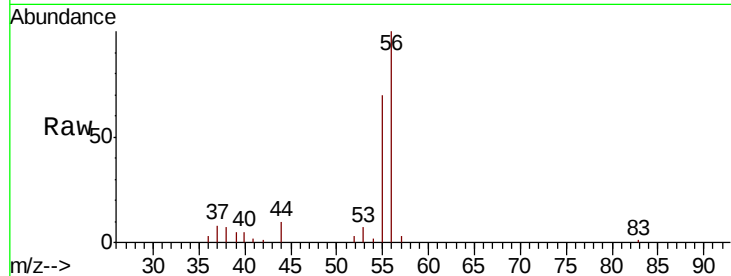
#13
Acrolein
Concen: 85.32 ug/l
RT: 3.61 min Scan# 628
Delta R.T. 0.00 min
Lab File: VN050719.D
Acq: 17 Aug 2018 10:01

Instrument :
MSVOA_N
ClientSampleId :
VN0817WBSD01

Tot Ion	Ion	Ratio	Lower	Upper
56	100			
55	71.7	58.6	88.0	

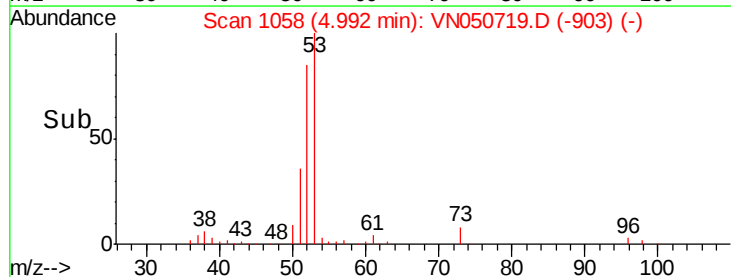
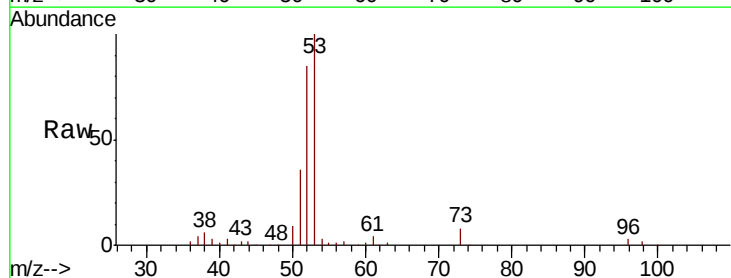
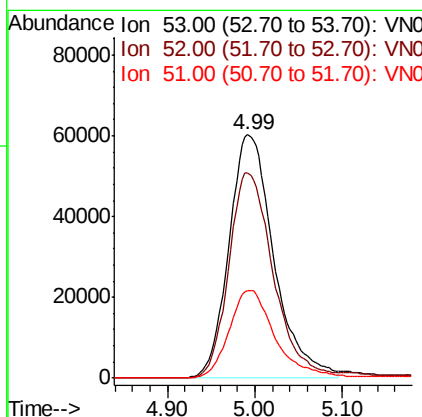
Manual Integrations
APPROVED

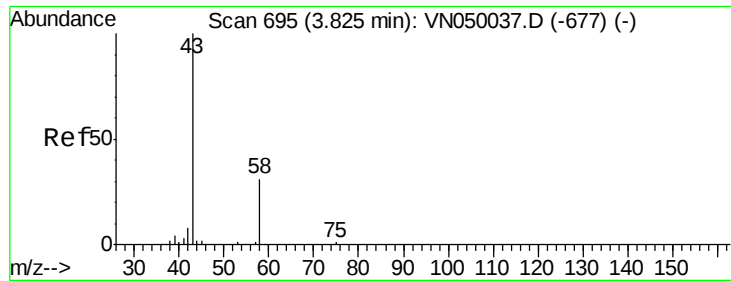
MMDadoda
8/20/2018 10:52:46 AM



#14
Acrylonitrile
Concen: 89.62 ug/l
RT: 4.99 min Scan# 1058
Delta R.T. -0.00 min
Lab File: VN050719.D
Acq: 17 Aug 2018 10:01

Tgt Ion	Ion	Ratio	Lower	Upper
53	100			
52	83.2	41.5	124.5	
51	37.1	18.7	56.1	





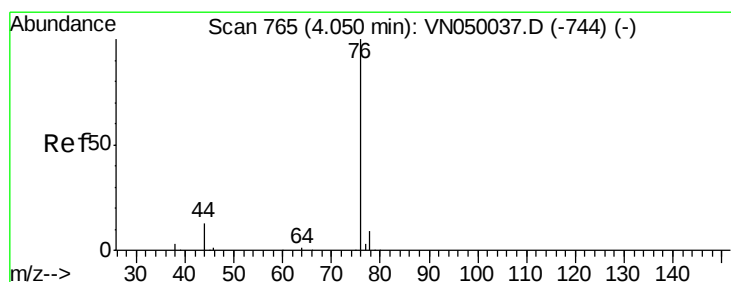
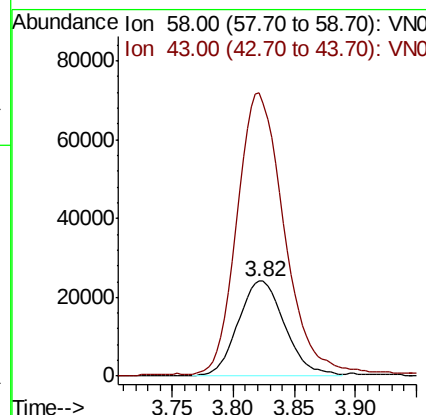
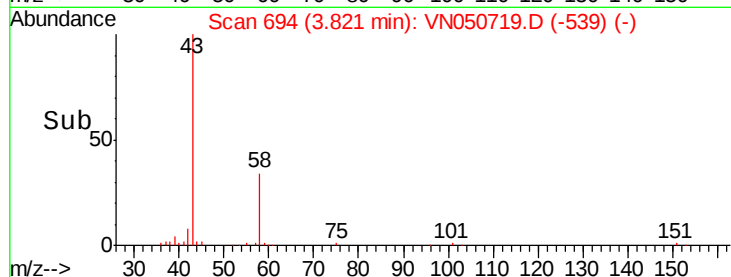
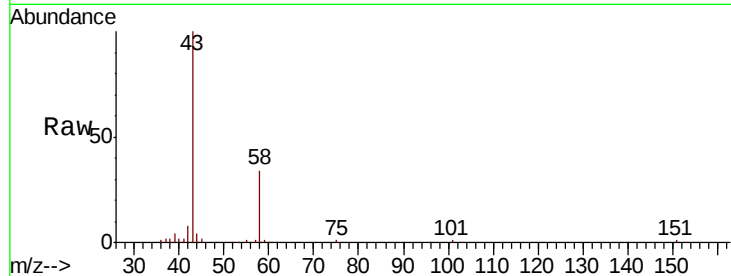
#15
Acetone
Concen: 99.54 ug/l
RT: 3.82 min Scan# 694
Delta R.T. -0.00 min
Lab File: VN050719.D
Acq: 17 Aug 2018 10:01

Instrument :
MSVOA_N
ClientSampleId :
VN0817WBSD01

Tot Ion: 58 Resp: 63590
Ion Ratio Lower Upper
58 100
43 297.2 252.0 378.0

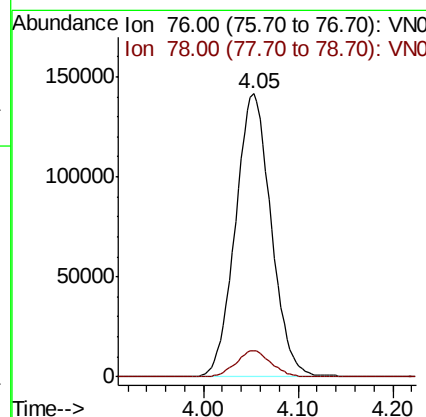
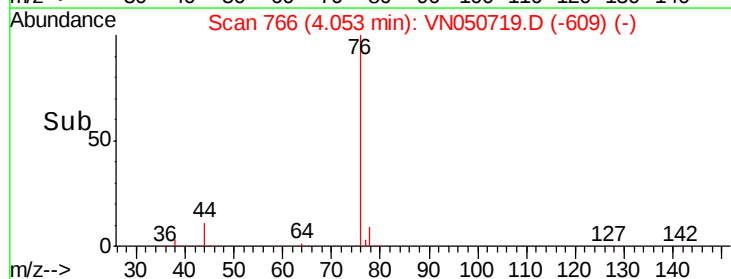
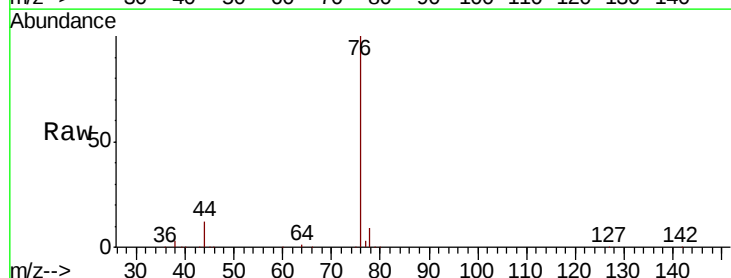
Manual Integrations
APPROVED

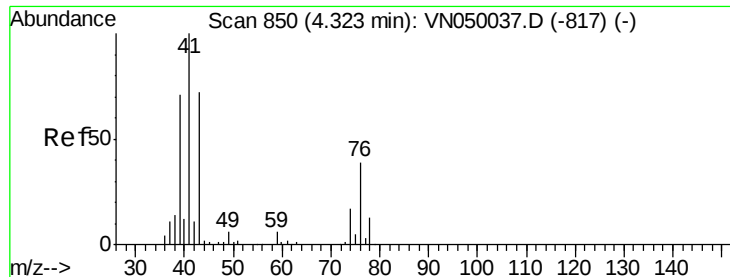
MMDadoda
8/20/2018 10:52:46 AM



#16
Carbon Disulfide
Concen: 19.31 ug/l
RT: 4.05 min Scan# 766
Delta R.T. 0.00 min
Lab File: VN050719.D
Acq: 17 Aug 2018 10:01

Tgt Ion: 76 Resp: 371539
Ion Ratio Lower Upper
76 100
78 9.4 7.3 10.9





#17

Allvl chloride

Concen: 19.06 ug/l

RT: 4.32 min Scan# 850

Delta R.T. 0.00 min

Lab File: VN050719.D

Acq: 17 Aug 2018 10:01

Instrument :

MSVOA_N

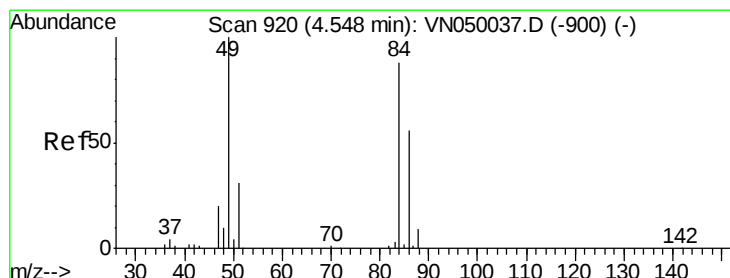
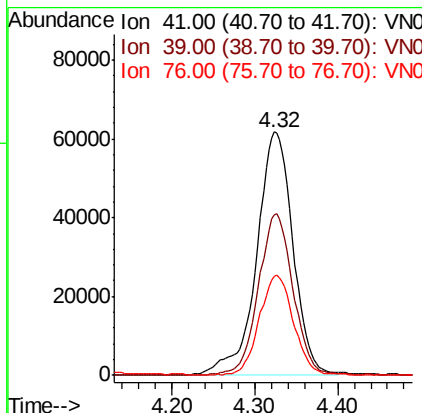
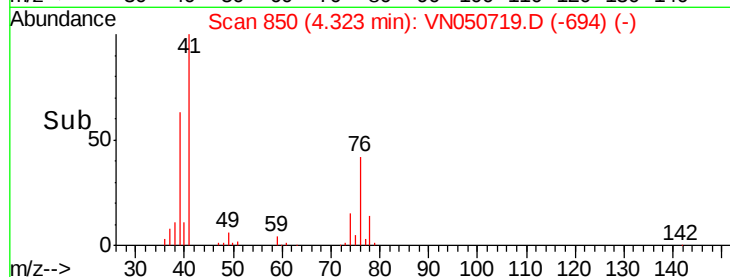
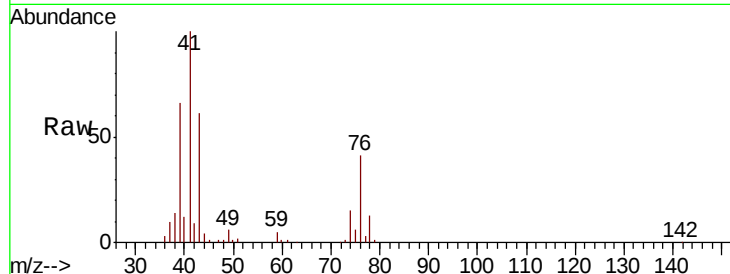
ClientSampleId :

VN0817WBSD01

Tot Ion:	41	Resp:	189303
Ion Ratio	Lower	Upper	
41	100		
39	66.0	35.4	106.3
76	40.6	19.7	59.1

Manual Integrations
APPROVED

MMDadoda
8/20/2018 10:52:46 AM



#18

Methylene Chloride

Concen: 20.17 ug/l

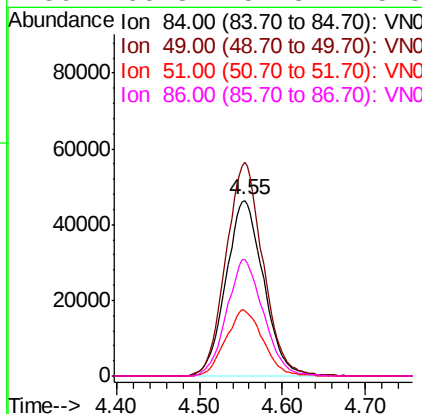
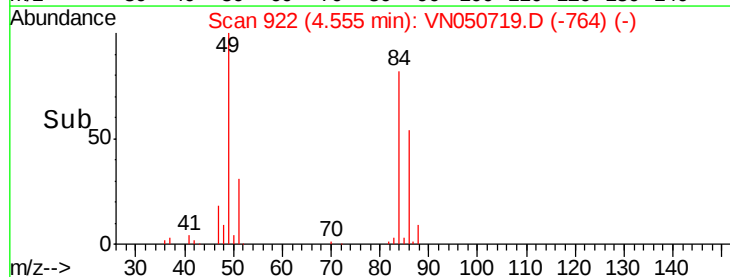
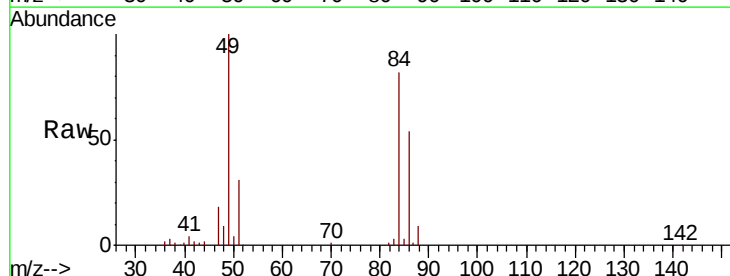
RT: 4.55 min Scan# 922

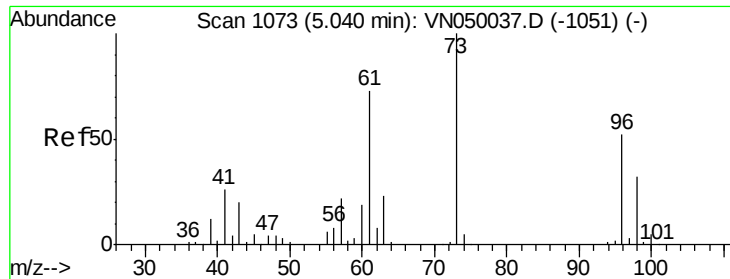
Delta R.T. 0.01 min

Lab File: VN050719.D

Acq: 17 Aug 2018 10:01

Tgt Ion:	84	Resp:	146358
Ion Ratio	Lower	Upper	
84	100		
49	121.8	95.1	142.7
51	37.2	28.8	43.2
86	66.3	52.3	78.5





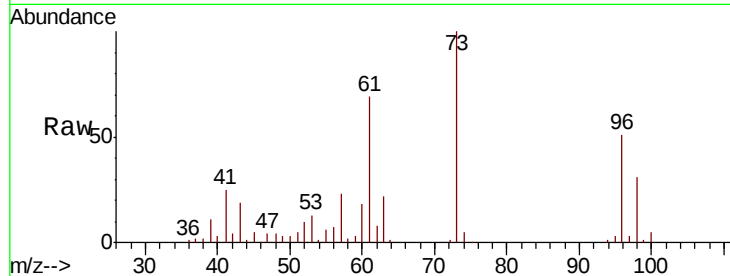
#19
trans-1,2-Dichloroethene
Concen: 19.74 ug/l
RT: 5.04 min Scan# 1074
Delta R.T. 0.00 min
Lab File: VN050719.D
Acq: 17 Aug 2018 10:01

Instrument :
MSVOA_N
ClientSampleId :
VN0817WBSD01

Tot Ion	Ratio	Lower	Upper
96	100		
61	136.9	112.1	168.1
98	61.5	51.3	76.9

Manual Integrations
APPROVED

MMDadoda
8/20/2018 10:52:46 AM

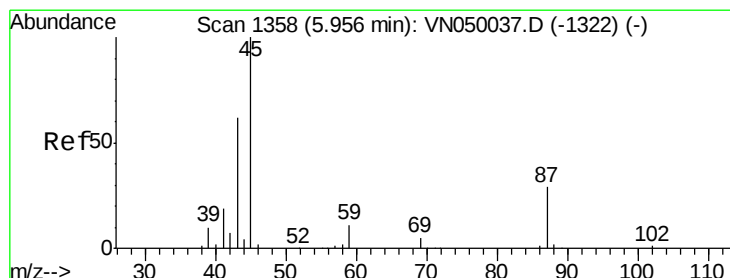
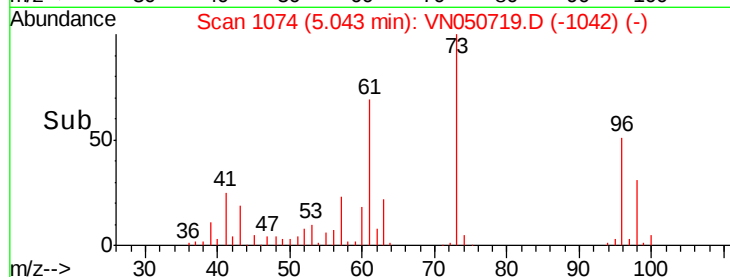
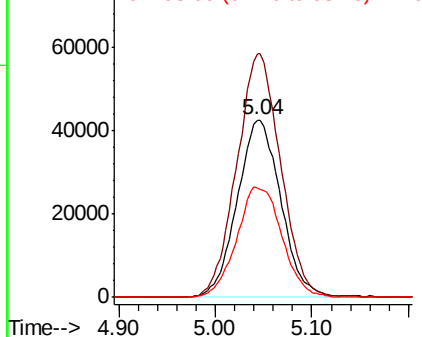


Abundance

Ion 96.00 (95.70 to 96.70): VNO

Ion 61.00 (60.70 to 61.70): VNO

Ion 98.00 (97.70 to 98.70): VNO



#20
Diisopropyl ether
Concen: 20.62 ug/l
RT: 5.96 min Scan# 1358
Delta R.T. 0.00 min
Lab File: VN050719.D
Acq: 17 Aug 2018 10:01

Tgt Ion	Ratio	Lower	Upper
45	100		
43	59.3	46.6	70.0
87	28.4	22.3	33.5
59	11.9	9.5	14.3

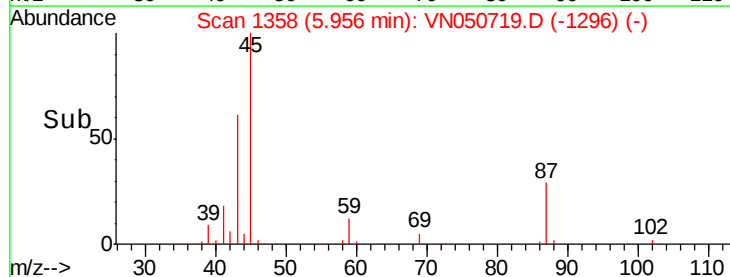
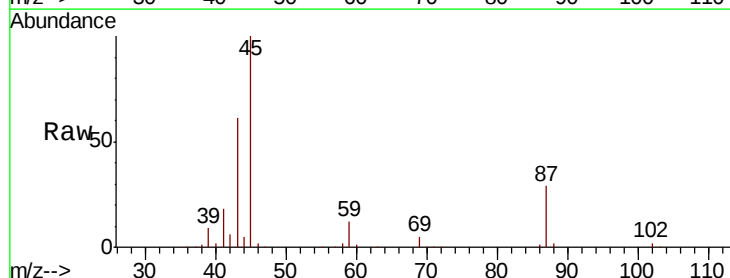
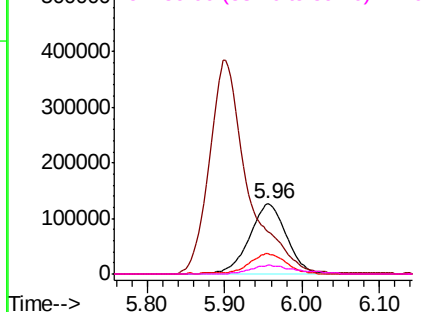
Abundance

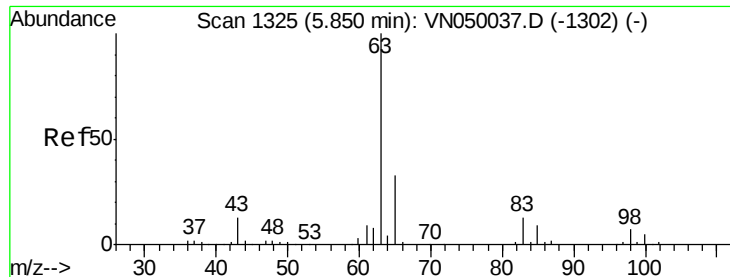
Ion 45.00 (44.70 to 45.70): VNO

Ion 43.00 (42.70 to 43.70): VNO

Ion 87.00 (86.70 to 87.70): VNO

Ion 59.00 (58.70 to 59.70): VNO





#21

1,1-Dichloroethane

Concen: 20.14 ug/l

RT: 5.85 min Scan# 1325

Delta R.T. 0.00 min

Lab File: VN050719.D

Acq: 17 Aug 2018 10:01

Instrument :

MSVOA_N

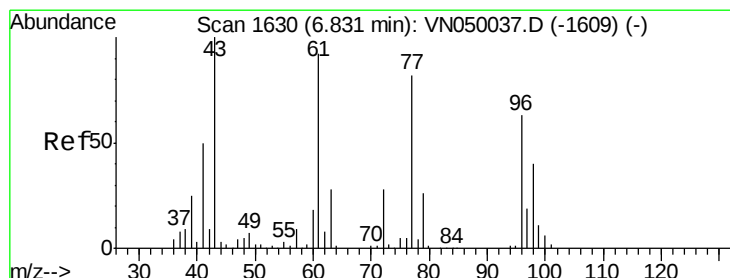
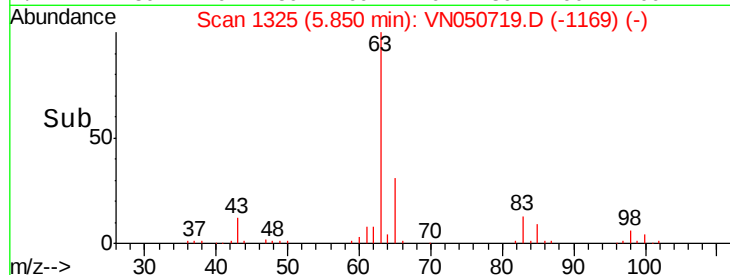
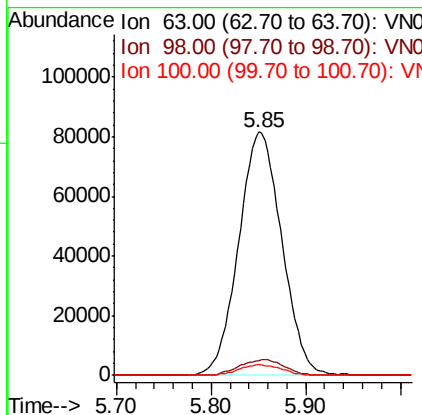
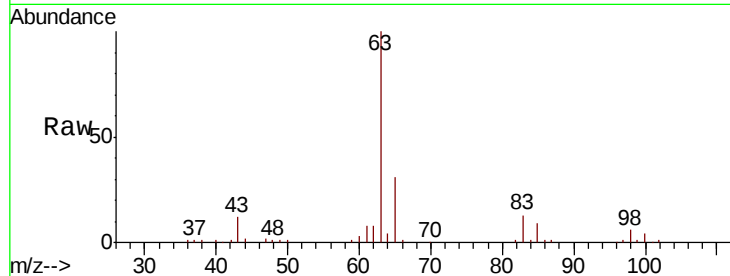
ClientSampleId :

VN0817WBSD01

Tot Ion:	63	Resp:	257903
Ion	Ratio	Lower	Upper
63	100		
98	6.2	3.5	10.6
100	4.4	2.3	6.8

Manual Integrations
APPROVED

MMDadoda
8/20/2018 10:52:46 AM



#22

cis-1,2-Dichloroethene

Concen: 19.95 ug/l

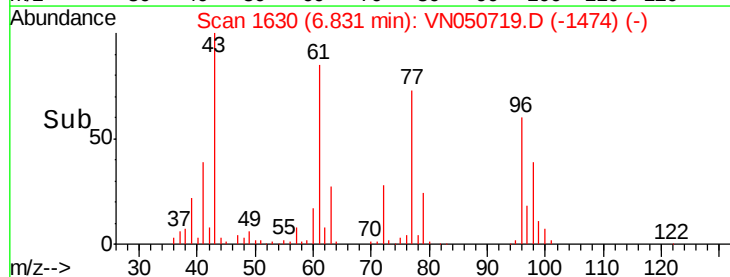
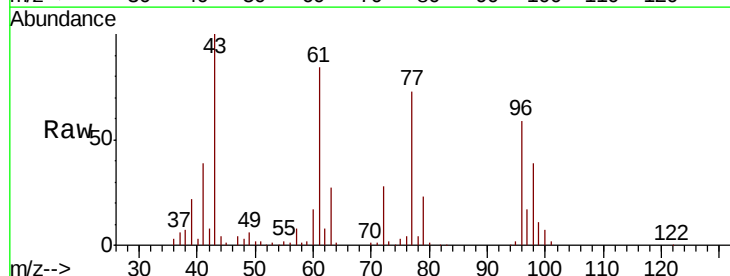
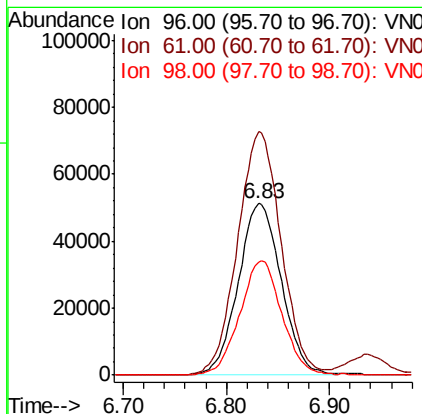
RT: 6.83 min Scan# 1630

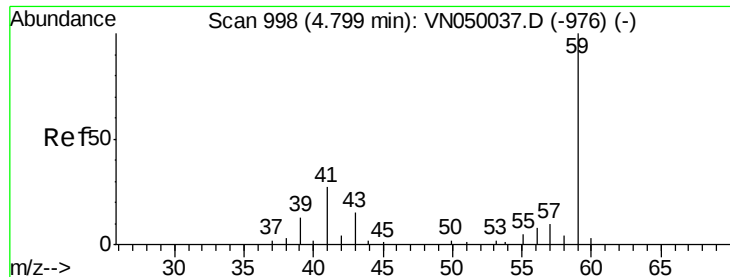
Delta R.T. 0.00 min

Lab File: VN050719.D

Acq: 17 Aug 2018 10:01

Tgt Ion:	96	Resp:	148963
Ion	Ratio	Lower	Upper
96	100		
61	143.3	114.2	171.2
98	65.1	51.7	77.5





#23

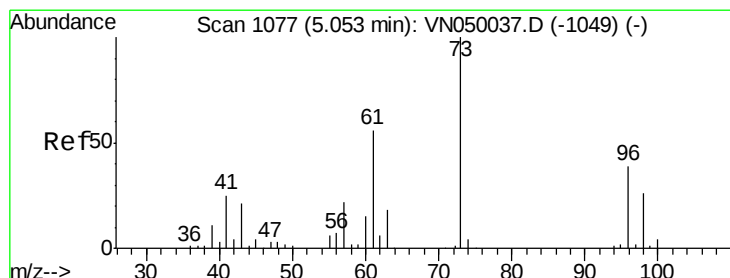
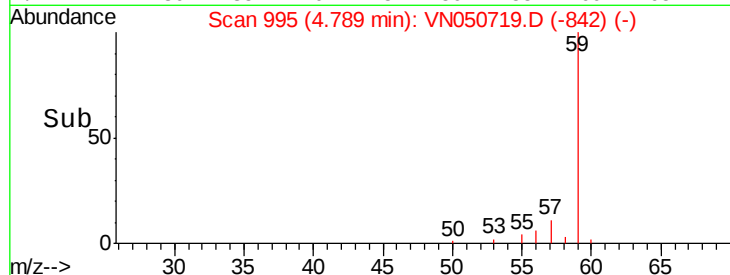
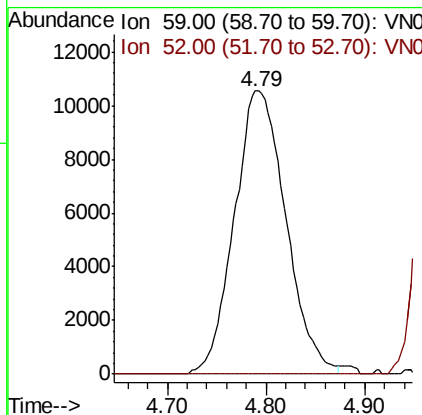
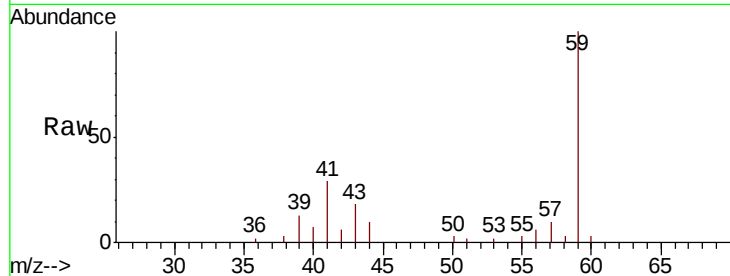
tert-Butyl Alcohol
 Concen: 71.19 ug/l
 RT: 4.79 min Scan# 995
 Delta R.T. -0.01 min
 Lab File: VN050719.D
 Acq: 17 Aug 2018 10:01

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0817WBSD01

Tot Ion	Ratio	Lower	Upper
59	100		
52	0.0	0.1	0.1#

Manual Integrations
 APPROVED

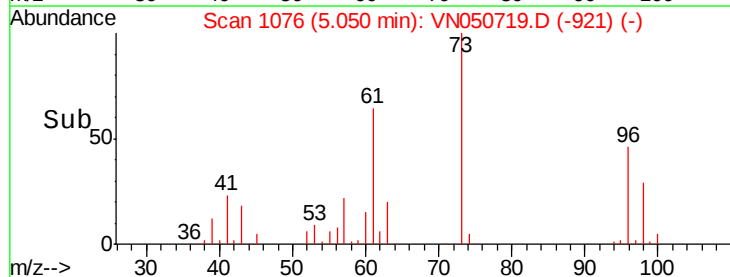
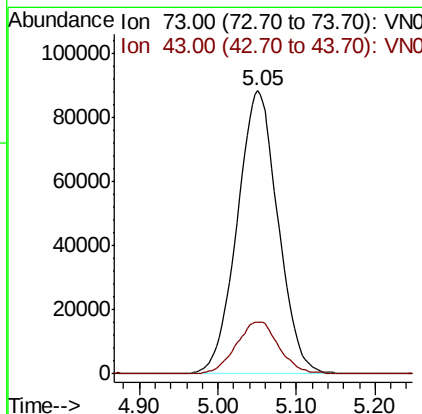
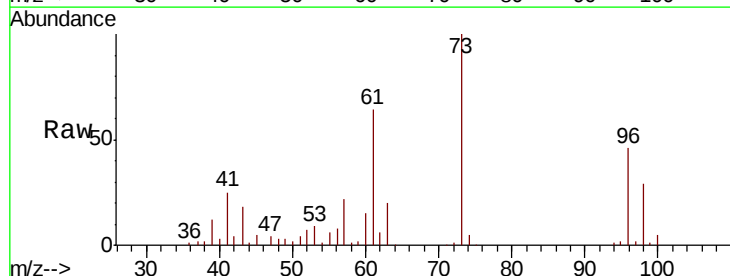
MMDadoda
 8/20/2018 10:52:46 AM

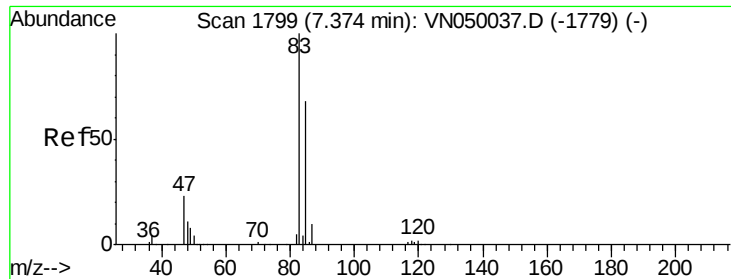


#24

Methyl tert-Butyl Ether
 Concen: 18.74 ug/l
 RT: 5.05 min Scan# 1076
 Delta R.T. -0.00 min
 Lab File: VN050719.D
 Acq: 17 Aug 2018 10:01

Tgt Ion	Ratio	Lower	Upper
73	100		
43	19.2	15.5	23.3





#25

Chloroform

Concen: 20.17 ug/l

RT: 7.37 min Scan# 1799

Delta R.T. 0.00 min

Lab File: VN050719.D

Acq: 17 Aug 2018 10:01

Instrument :

MSVOA_N

ClientSampleId :

VN0817WBSD01

Tot Ion: 83 Resp: 261384

Ion Ratio Lower Upper

83 100

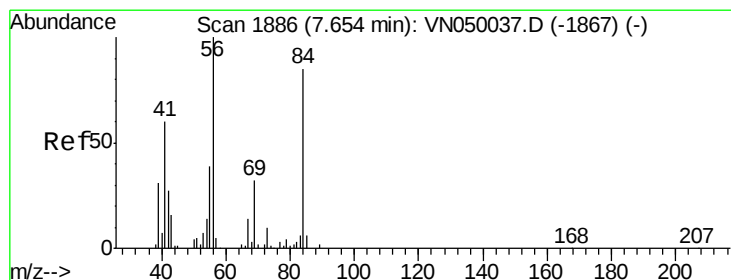
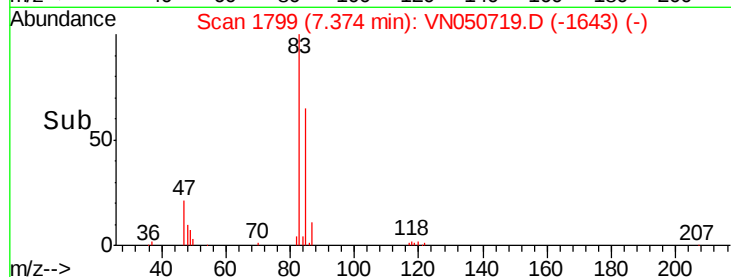
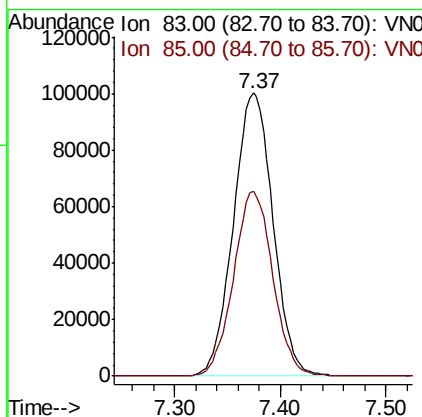
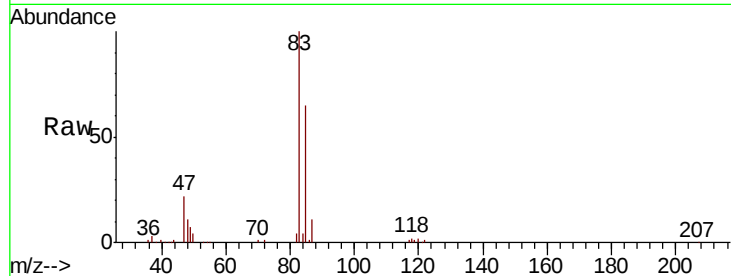
85 65.3 52.1 78.1

Manual Integrations

APPROVED

MMDadoda

8/20/2018 10:52:46 AM



#26

Cyclohexane

Concen: 20.42 ug/l

RT: 7.65 min Scan# 1886

Delta R.T. 0.00 min

Lab File: VN050719.D

Acq: 17 Aug 2018 10:01

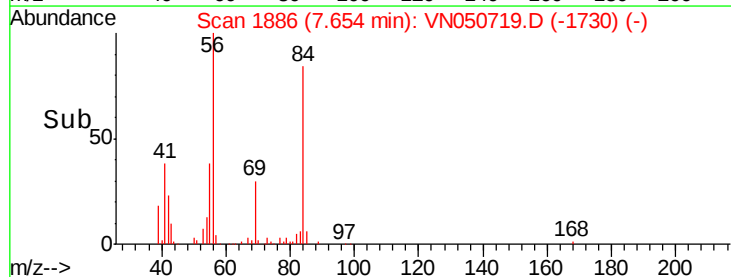
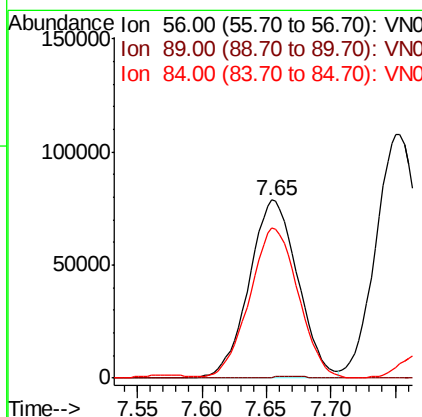
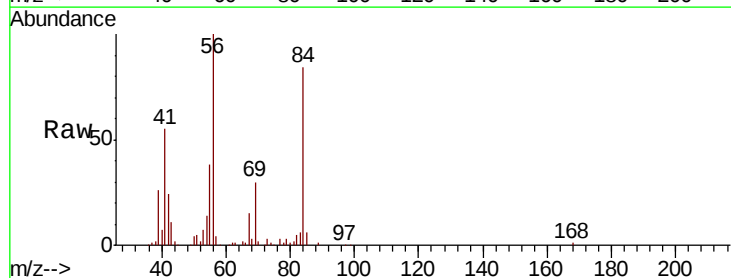
Tgt Ion: 56 Resp: 207817

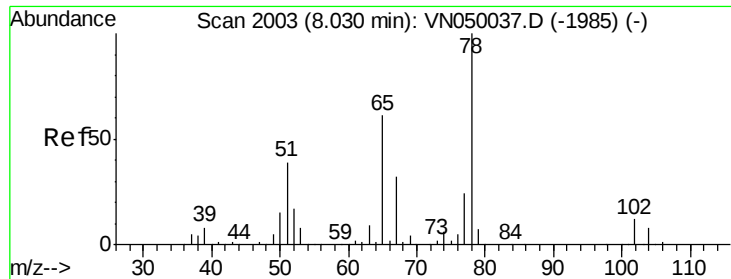
Ion Ratio Lower Upper

56 100

89 0.5 3.0 4.4#

84 84.2 69.8 104.8





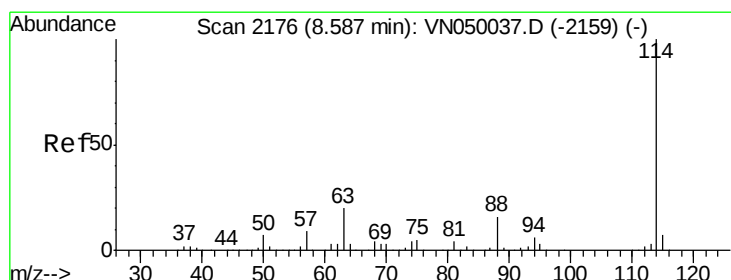
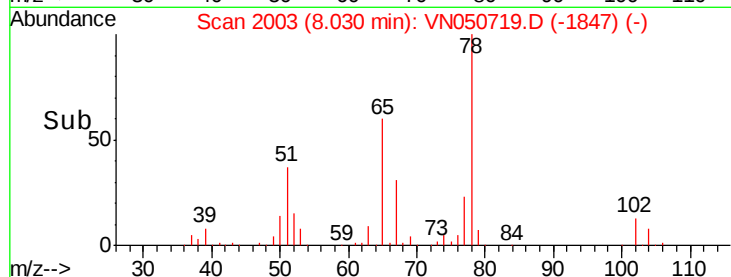
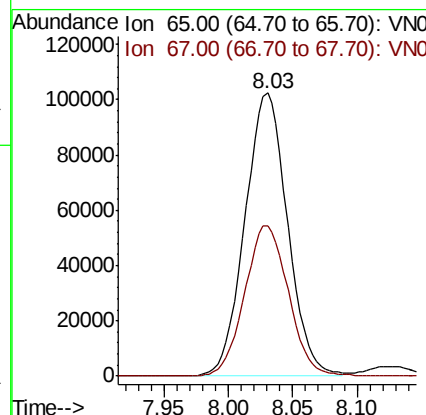
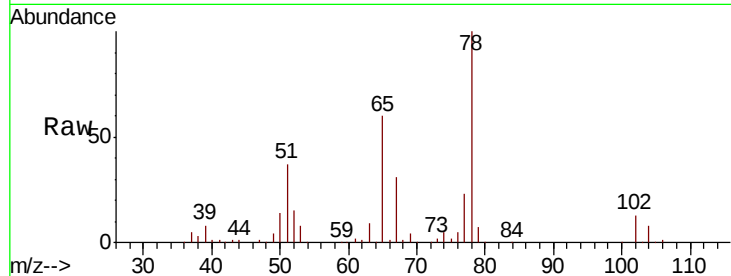
#27
 1,2-Dichloroethane-d4
 Concen: 29.42 ug/l
 RT: 8.03 min Scan# 2003
 Delta R.T. 0.00 min
 Lab File: VN050719.D
 Acq: 17 Aug 2018 10:01

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0817WBSD01

Tot Ion: 65 Resp: 235849
 Ion Ratio Lower Upper
 65 100
 67 54.6 42.7 64.1

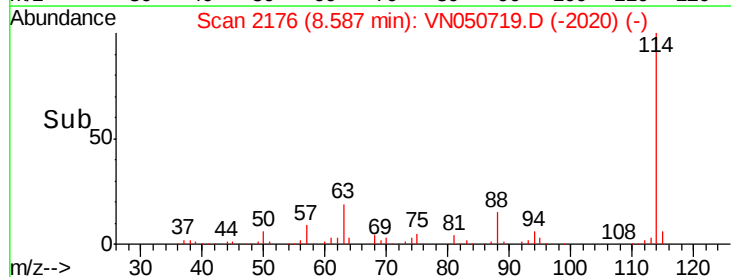
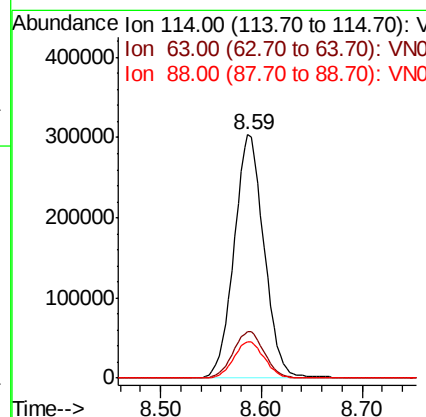
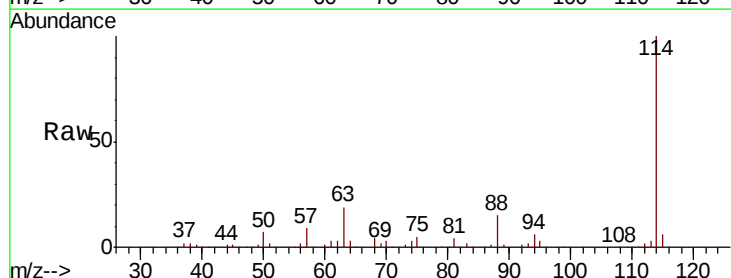
Manual Integrations
 APPROVED

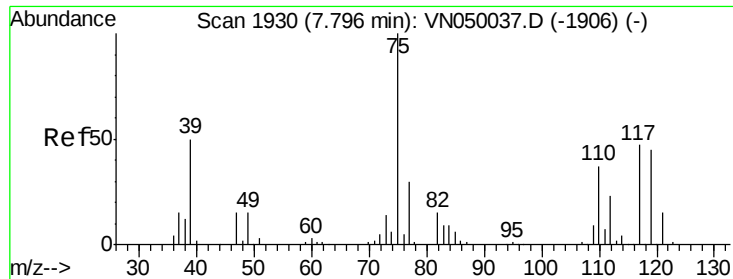
MMDadoda
 8/20/2018 10:52:46 AM



#28
 1,4-Difluorobenzene
 Concen: 30.00 ug/l
 RT: 8.59 min Scan# 2176
 Delta R.T. 0.00 min
 Lab File: VN050719.D
 Acq: 17 Aug 2018 10:01

Tgt Ion: 114 Resp: 628212
 Ion Ratio Lower Upper
 114 100
 63 19.9 16.2 24.2
 88 15.3 12.3 18.5





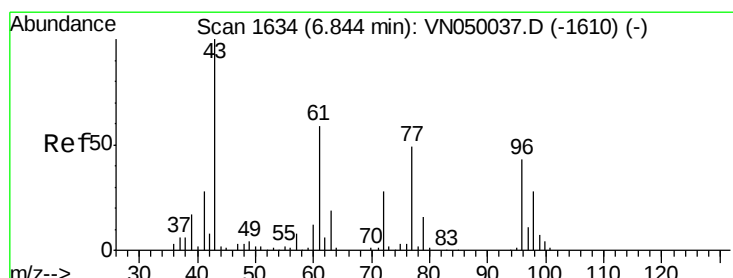
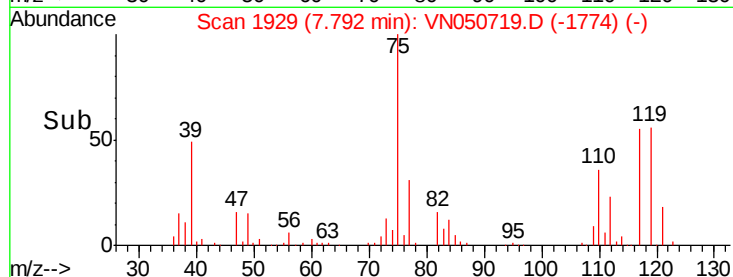
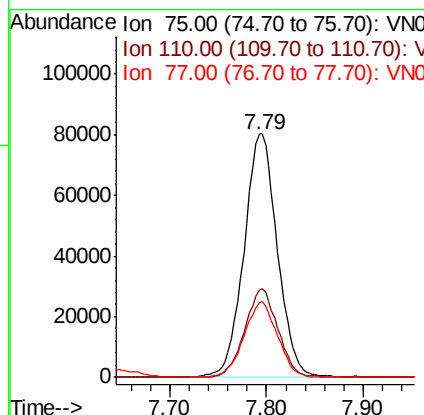
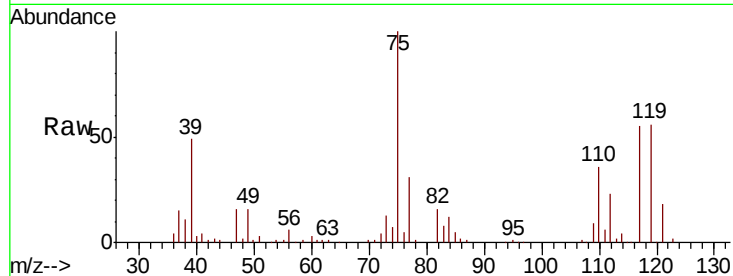
#29
 1,1-Dichloropropene
 Concen: 19.73 ug/l
 RT: 7.79 min Scan# 1929
 Delta R.T. -0.00 min
 Lab File: VN050719.D
 Acq: 17 Aug 2018 10:01

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0817WBSD01

Tot Ion	Ratio	Resp Lower	Upper
75	100		
110	36.1	0.0	73.2
77	31.2	0.0	62.0

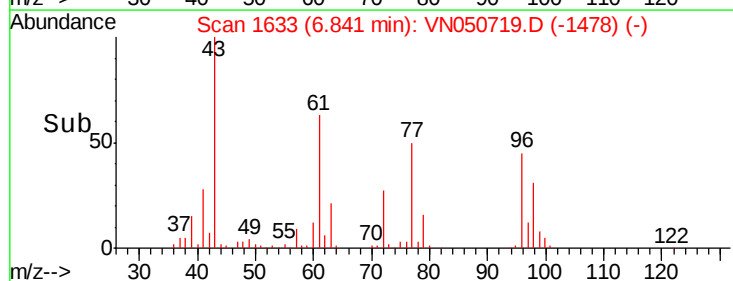
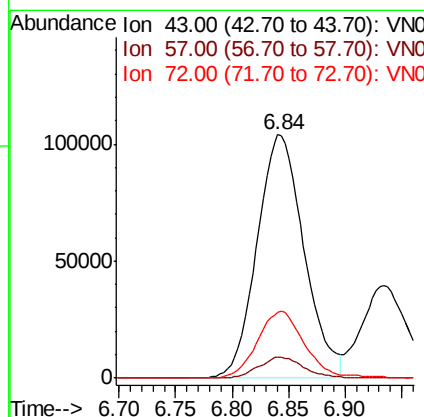
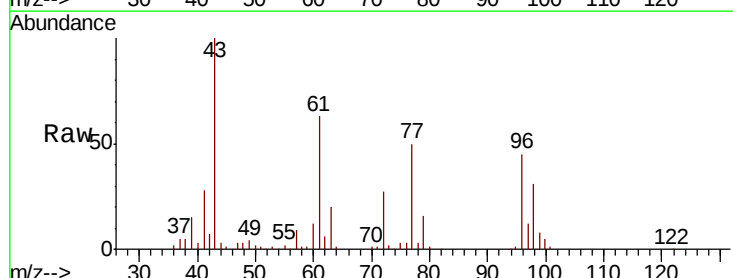
Manual Integrations
 APPROVED

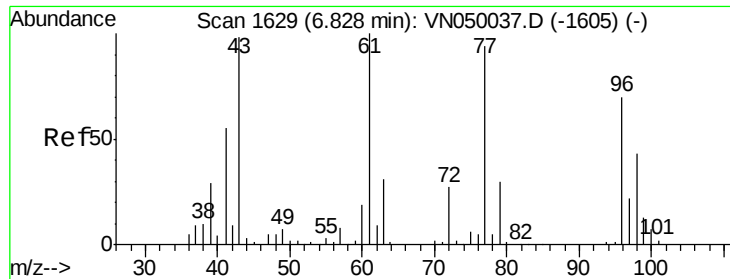
MMDadoda
 8/20/2018 10:52:46 AM



#30
 2-Butanone
 Concen: 97.35 ug/l
 RT: 6.84 min Scan# 1633
 Delta R.T. -0.00 min
 Lab File: VN050719.D
 Acq: 17 Aug 2018 10:01

Tgt Ion	Ratio	Resp Lower	Upper
43	100		
57	8.4	6.8	10.2
72	27.3	21.4	32.0





#31

2,2-Dichloropropane

Concen: 18.58 ug/l

RT: 6.83 min Scan# 1629

Delta R.T. 0.00 min

Lab File: VN050719.D

Acq: 17 Aug 2018 10:01

Instrument :

MSVOA_N

ClientSampled :

VN0817WBSD01

Tot Ion: 77 Resp: 200184

Ion Ratio Lower Upper

77 100

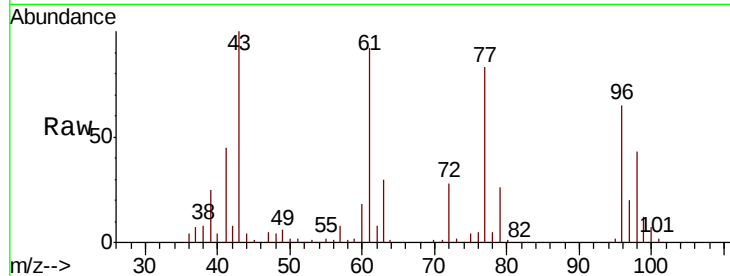
97 23.8 18.9 28.3

Manual Integrations

APPROVED

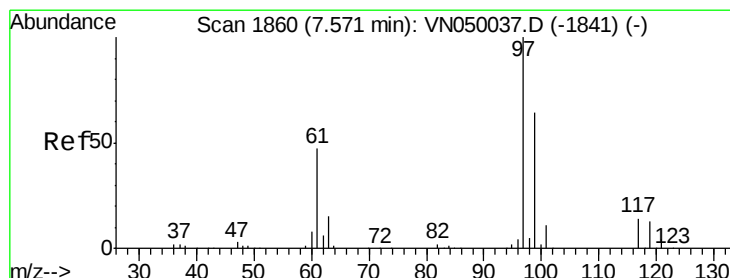
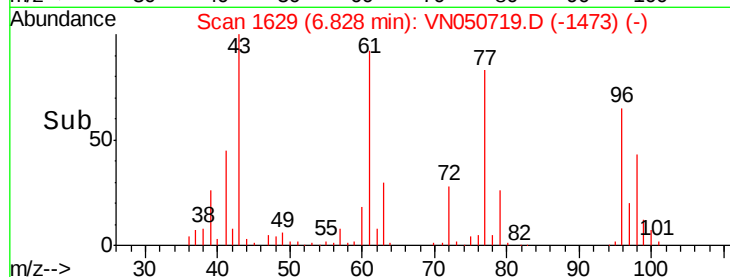
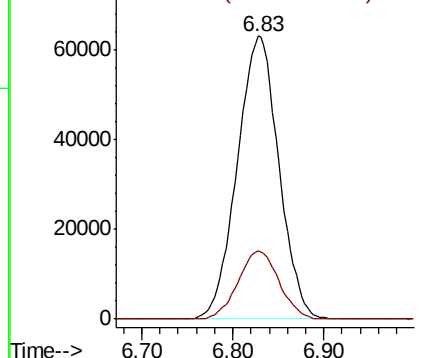
MMDadoda

8/20/2018 10:52:46 AM



Abundance Ion 77.00 (76.70 to 77.70): VN0

Ion 97.00 (96.70 to 97.70): VN0



#32

1,1,1-Trichloroethane

Concen: 19.09 ug/l

RT: 7.57 min Scan# 1861

Delta R.T. 0.00 min

Lab File: VN050719.D

Acq: 17 Aug 2018 10:01

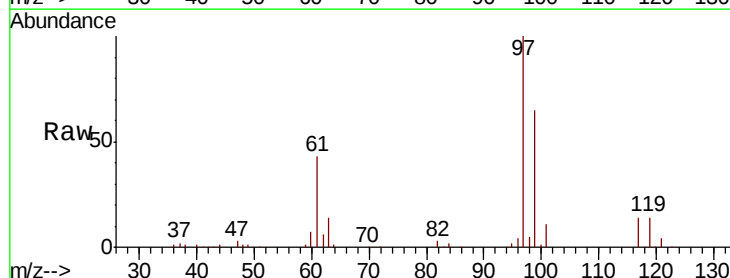
Tgt Ion: 97 Resp: 219019

Ion Ratio Lower Upper

97 100

99 64.2 51.2 76.8

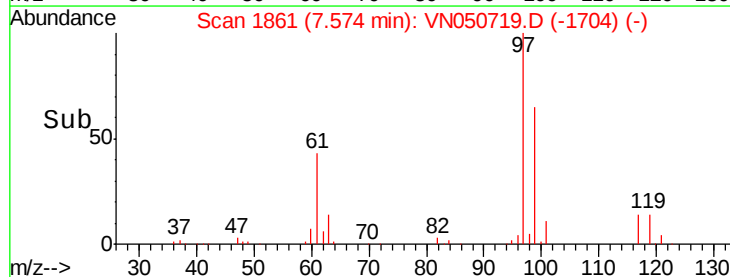
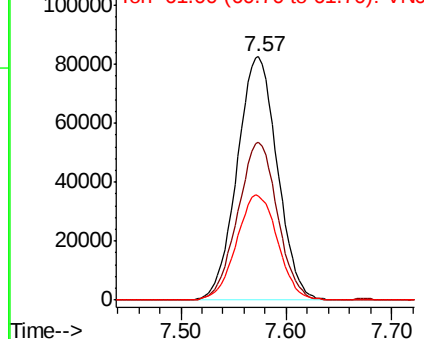
61 44.2 35.3 52.9

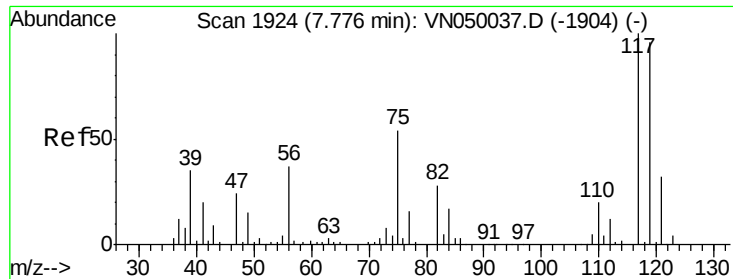


Abundance Ion 97.00 (96.70 to 97.70): VN0

Ion 99.00 (98.70 to 99.70): VN0

Ion 61.00 (60.70 to 61.70): VN0





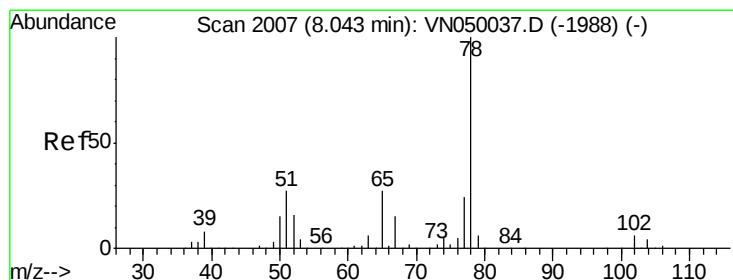
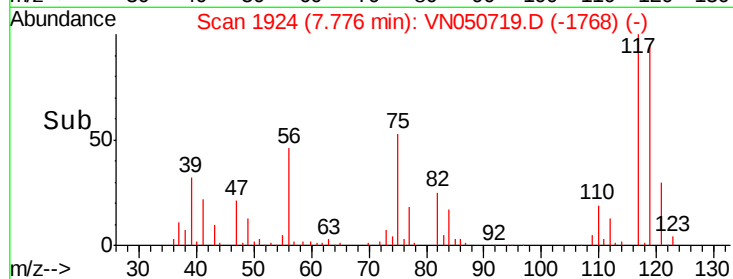
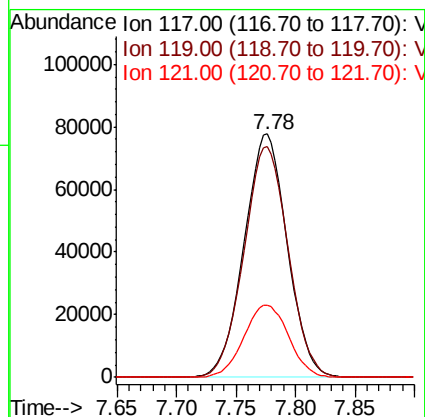
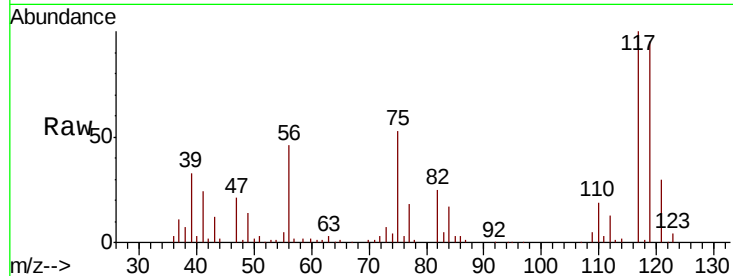
#33
Carbon Tetrachloride
Concen: 19.08 ug/l
RT: 7.78 min Scan# 1924
Delta R.T. 0.00 min
Lab File: VN050719.D
Acq: 17 Aug 2018 10:01

Instrument :
MSVOA_N
ClientSampled :
VN0817WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
117	100	195206		
119	94.7	76.9	115.3	
121	29.9	24.4	36.6	

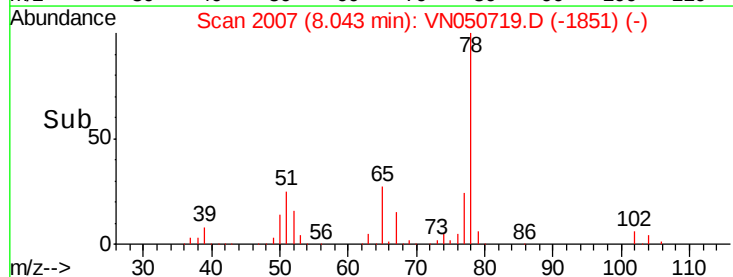
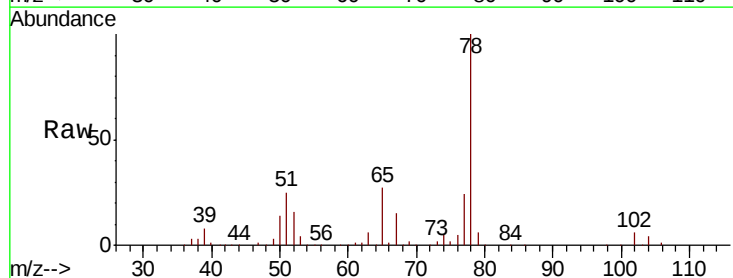
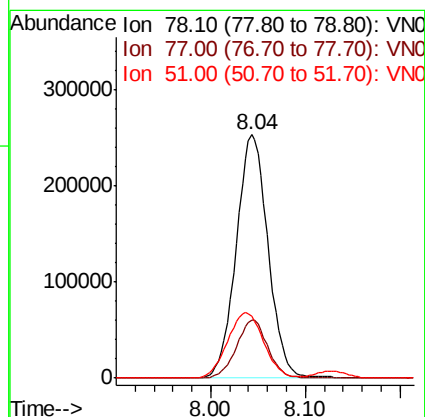
Manual Integrations
APPROVED

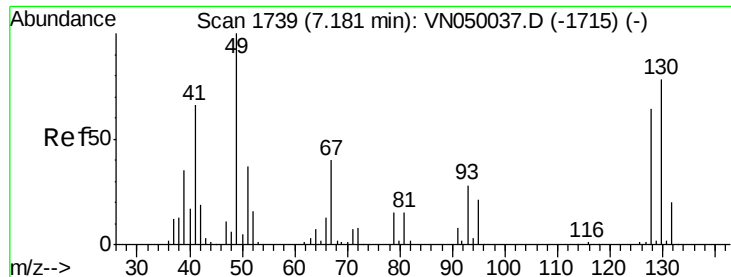
MMDadoda
8/20/2018 10:52:46 AM



#34
Benzene
Concen: 19.98 ug/l
RT: 8.04 min Scan# 2007
Delta R.T. 0.00 min
Lab File: VN050719.D
Acq: 17 Aug 2018 10:01

Tgt Ion	Ratio	Resp	Lower	Upper
78	100	591443		
77	23.8	19.1	28.7	
51	25.1	21.0	31.4	





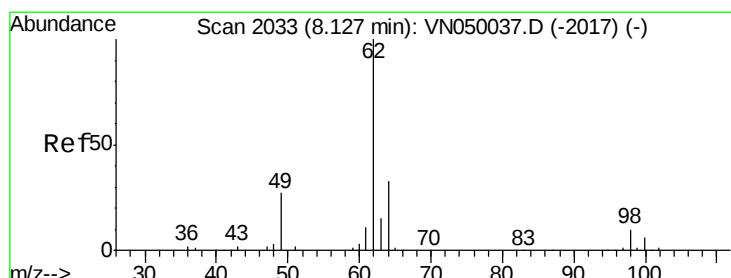
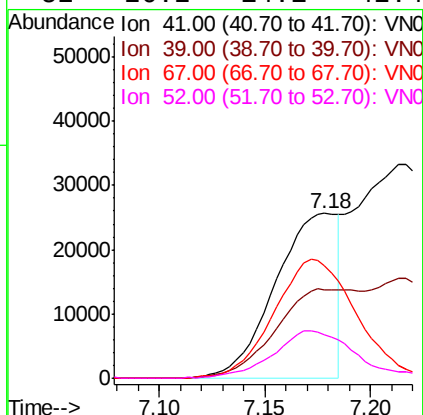
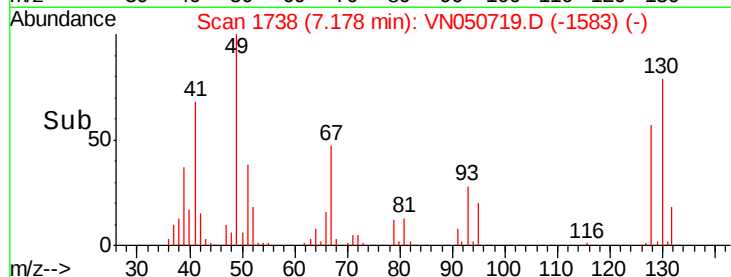
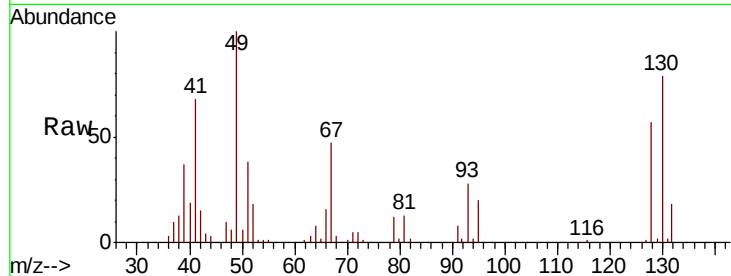
#35
Methacrylonitrile
Concen: 15.19 ug/l
RT: 7.18 min Scan# 1738
Delta R.T. -0.00 min
Lab File: VN050719.D
Acq: 17 Aug 2018 10:01

Instrument :
MSVOA_N
ClientSampleId :
VN0817WBSD01

Tot Ion	Ion	Ratio	Lower	Upper
41	100			
39	53.8	27.6	82.7	
67	68.3	35.1	105.5	
52	26.2	14.1	42.4	

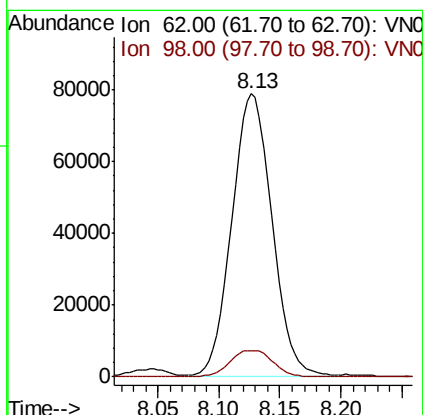
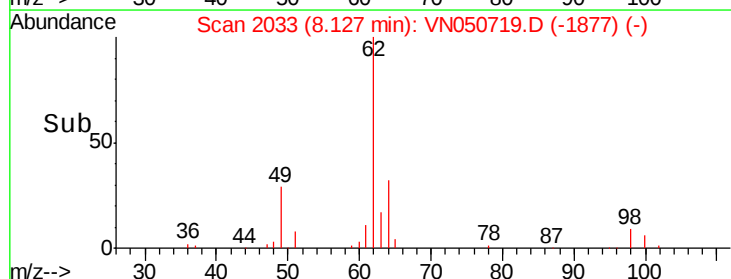
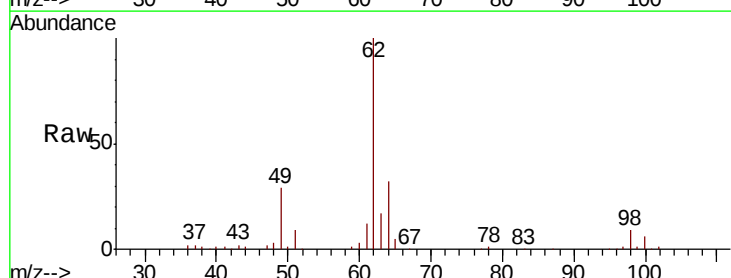
Manual Integrations
APPROVED

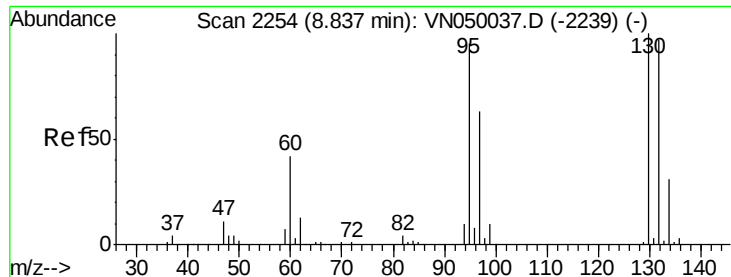
MMDadoda
8/20/2018 10:52:46 AM



#36
1,2-Dichloroethane
Concen: 18.53 ug/l
RT: 8.13 min Scan# 2033
Delta R.T. 0.00 min
Lab File: VN050719.D
Acq: 17 Aug 2018 10:01

Tgt Ion	Ion	Ratio	Lower	Upper
62	100			
98	5.4	7.8	11.6	#





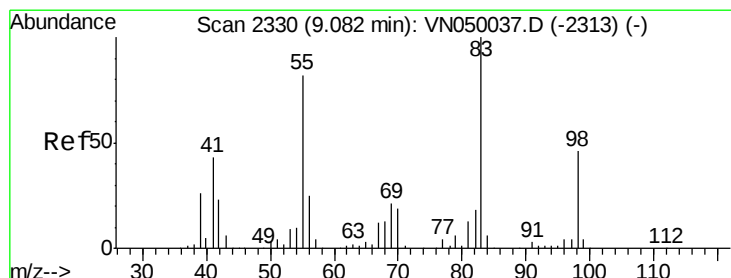
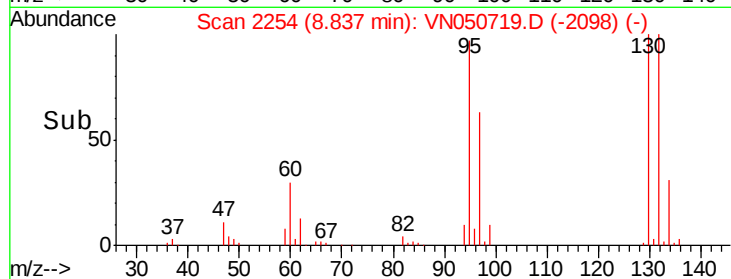
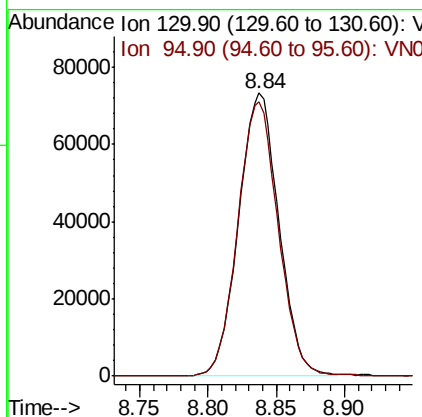
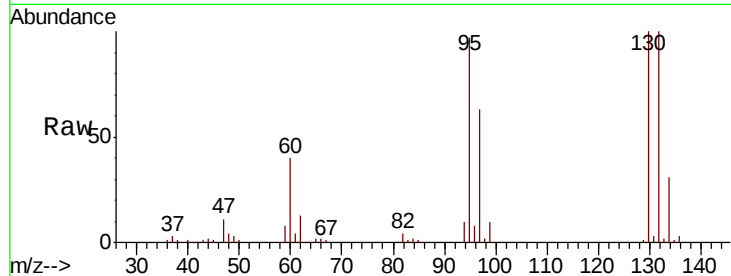
#37
 Trichloroethene
 Concen: 19.38 ug/l
 RT: 8.84 min Scan# 2254
 Delta R.T. 0.00 min
 Lab File: VN050719.D
 Acq: 17 Aug 2018 10:01

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0817WBSD01

Tot Ion:130 Resp: 150462
 Ion Ratio Lower Upper
 130 100
 95 97.1 79.7 119.5

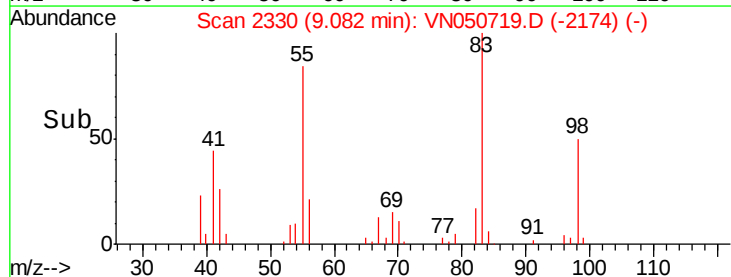
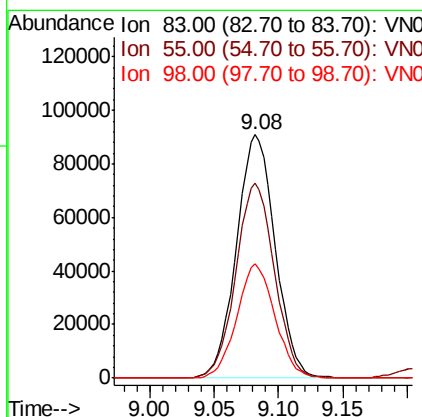
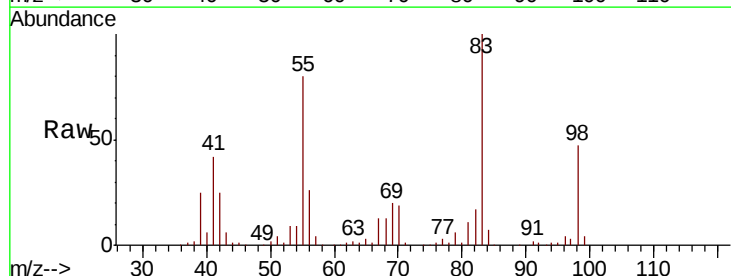
Manual Integrations
 APPROVED

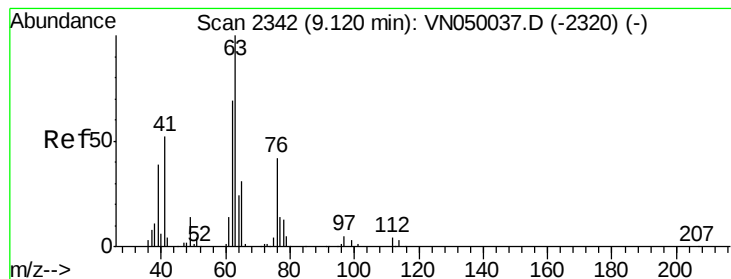
MMDadoda
 8/20/2018 10:52:46 AM



#38
 Methylcyclohexane
 Concen: 18.46 ug/l
 RT: 9.08 min Scan# 2330
 Delta R.T. 0.00 min
 Lab File: VN050719.D
 Acq: 17 Aug 2018 10:01

Tgt Ion: 83 Resp: 189719
 Ion Ratio Lower Upper
 83 100
 55 80.0 39.3 117.8
 98 46.2 23.0 69.0





#39

1,2-Dichloropropane

Concen: 20.17 ug/l

RT: 9.12 min Scan# 2342

Delta R.T. 0.00 min

Lab File: VN050719.D

Acq: 17 Aug 2018 10:01

Instrument :

MSVOA_N

ClientSampleId :

VN0817WBSD01

Tot Ion: 63 Resp: 157292

Ion Ratio Lower Upper

63 100

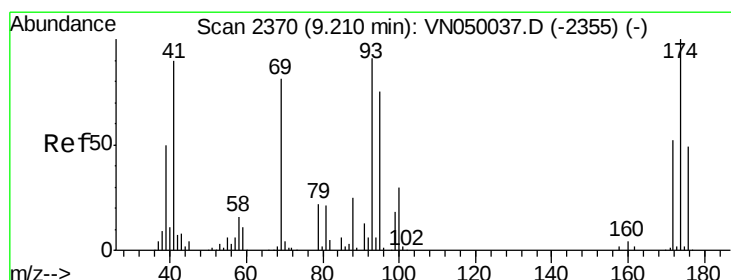
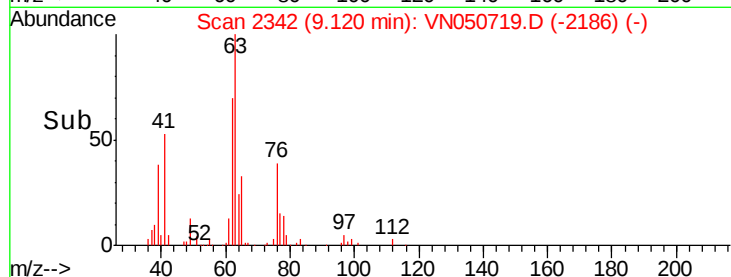
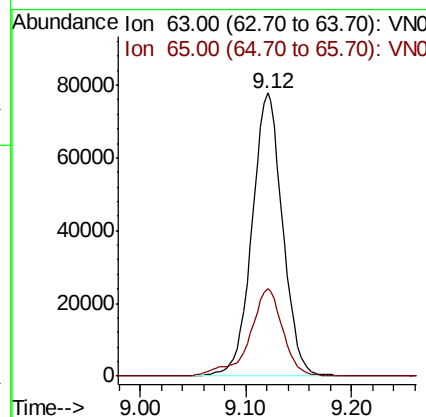
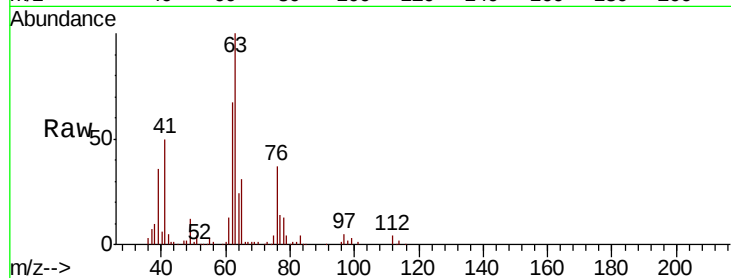
65 30.9 24.2 36.2

Manual Integrations

APPROVED

MMDadoda

8/20/2018 10:52:46 AM



#40

Dibromomethane

Concen: 18.84 ug/l

RT: 9.21 min Scan# 2370

Delta R.T. 0.00 min

Lab File: VN050719.D

Acq: 17 Aug 2018 10:01

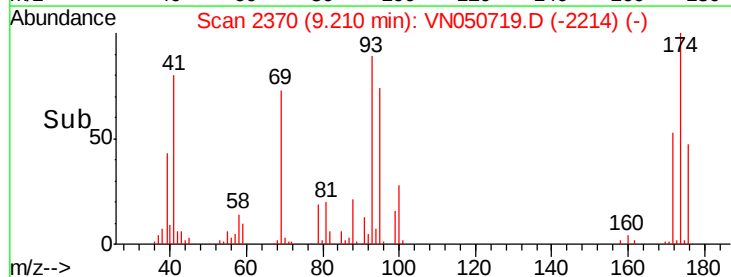
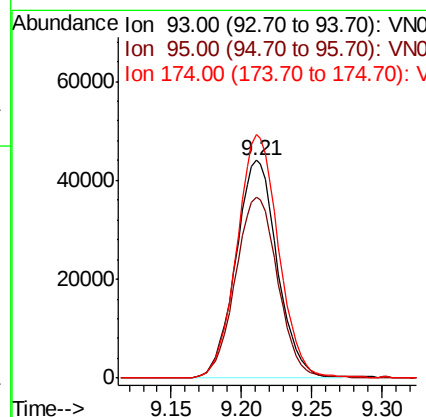
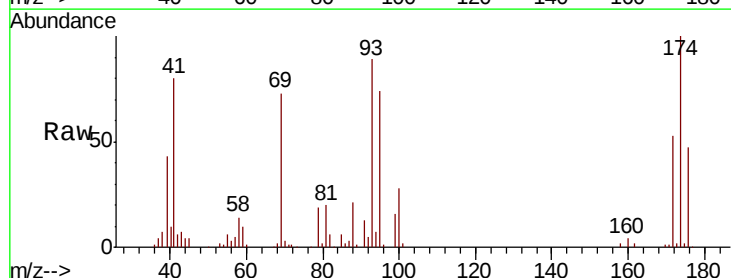
Tgt Ion: 93 Resp: 90838

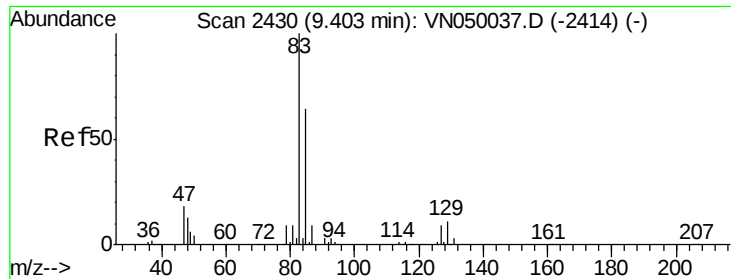
Ion Ratio Lower Upper

93 100

95 84.8 0.0 165.6

174 112.2 0.0 223.2





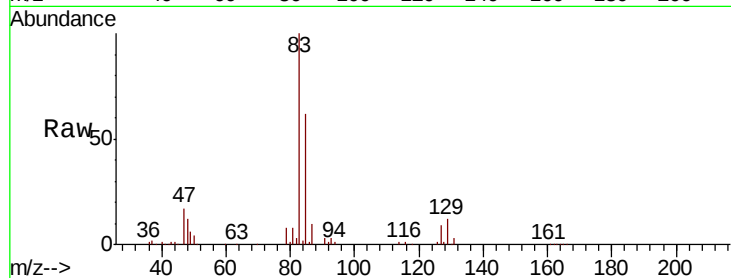
#41
Bromodichloromethane
Concen: 19.16 ug/l
RT: 9.40 min Scan# 2430
Delta R.T. 0.00 min
Lab File: VN050719.D
Acq: 17 Aug 2018 10:01

Instrument :
MSVOA_N
ClientSampleId :
VN0817WBSD01

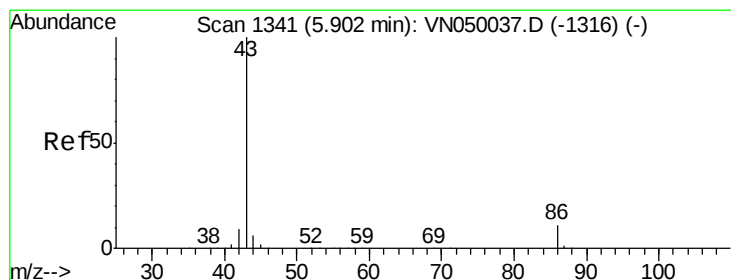
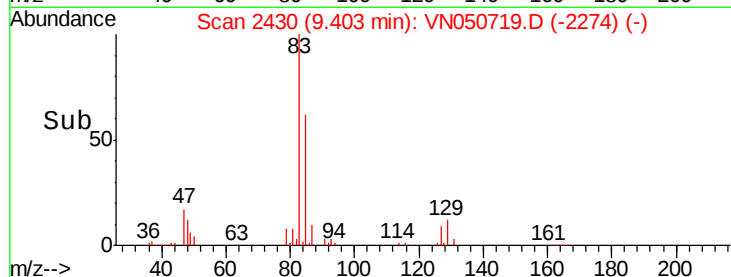
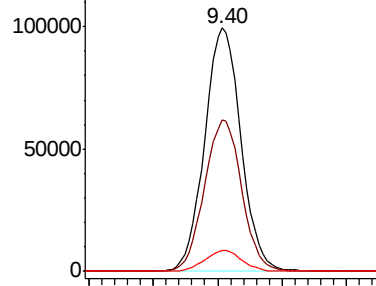
Tot Ion	83	Resp	194859
Ion Ratio	100	Lower	Upper
83	100		
85	62.1	52.6	78.8
127	8.5	7.0	10.4

Manual Integrations
APPROVED

MMDadoda
8/20/2018 10:52:46 AM

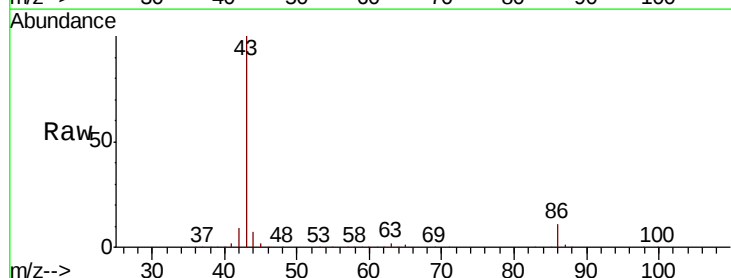


Abundance Ion 83.00 (82.70 to 83.70): VN050037.D (-2414) (-)

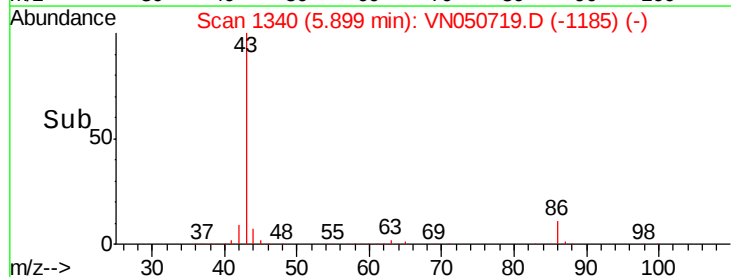
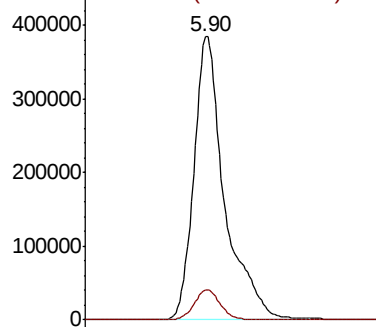


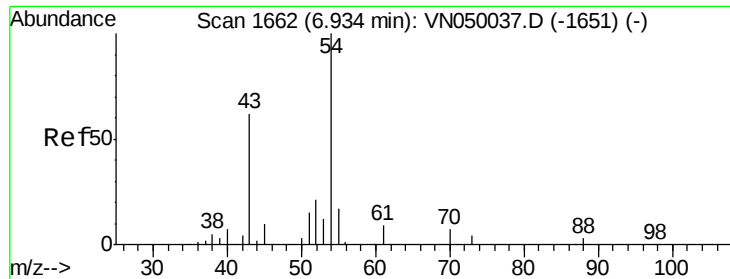
#42
Vinyl Acetate
Concen: 92.28 ug/l
RT: 5.90 min Scan# 1340
Delta R.T. -0.00 min
Lab File: VN050719.D
Acq: 17 Aug 2018 10:01

Tgt Ion	43	Resp	1328469
Ion Ratio	100	Lower	Upper
43	100		
86	9.0	7.3	10.9



Abundance Ion 43.00 (42.70 to 43.70): VN050037.D (-1316) (-)





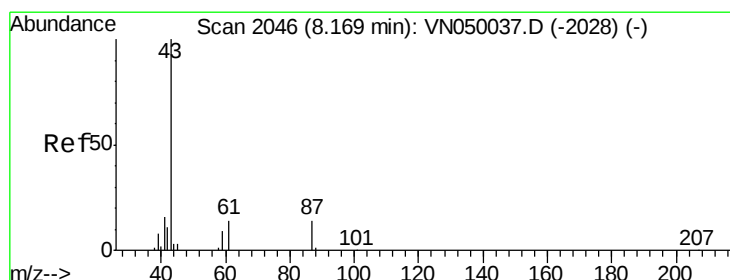
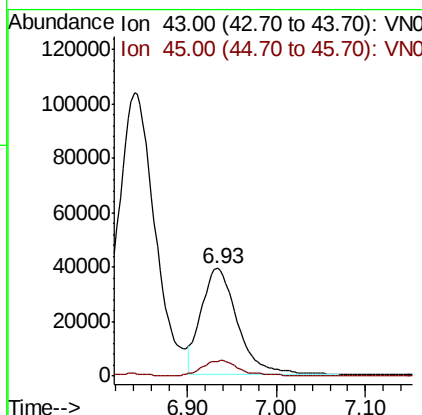
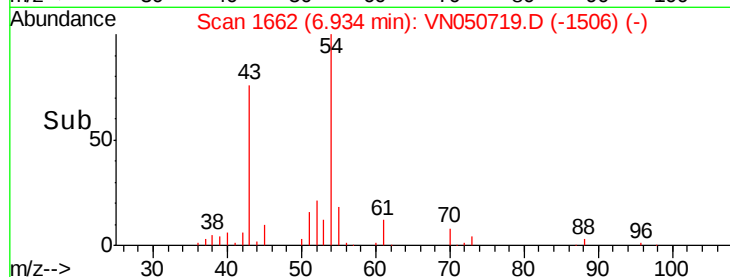
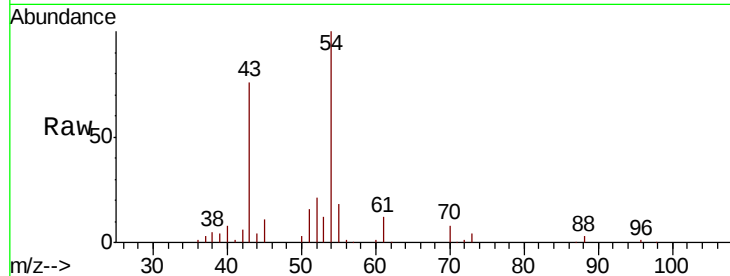
#43
Ethyl Acetate
Concen: 17.39 ug/l
RT: 6.93 min Scan# 1662
Delta R.T. 0.00 min
Lab File: VN050719.D
Acq: 17 Aug 2018 10:01

Instrument :
MSVOA_N
ClientSampleId :
VN0817WBSD01

Tot Ion: 43 Resp: 111091
Ion Ratio Lower Upper
43 100
45 15.2 13.0 19.6

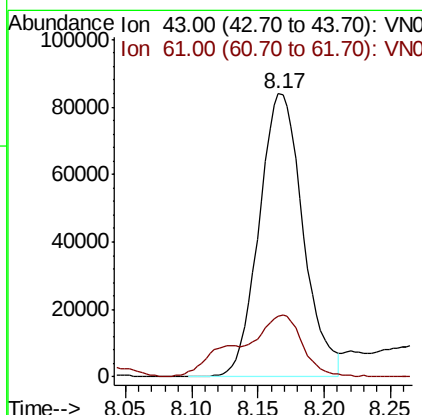
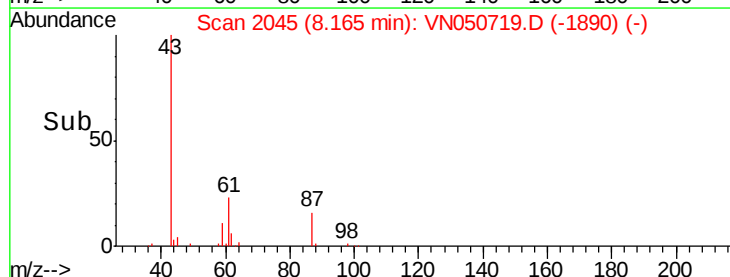
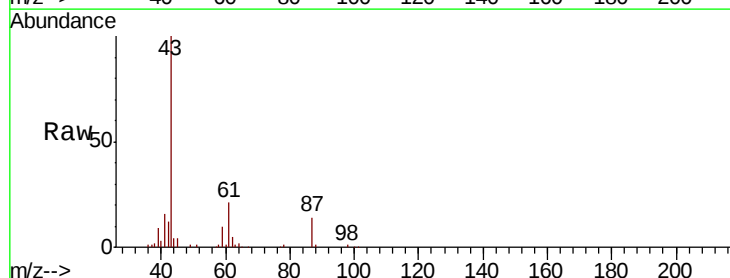
Manual Integrations
APPROVED

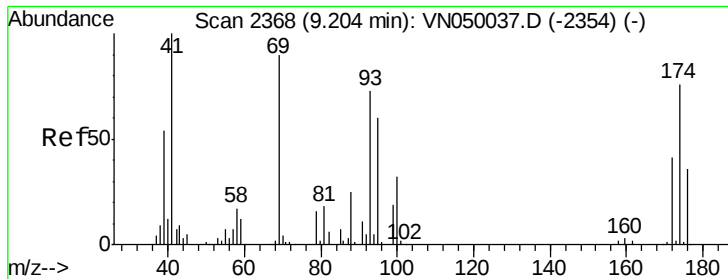
MMDadoda
8/20/2018 10:52:46 AM



#44
Isopropyl Acetate
Concen: 16.39 ug/l
RT: 8.17 min Scan# 2045
Delta R.T. -0.00 min
Lab File: VN050719.D
Acq: 17 Aug 2018 10:01

Tgt Ion: 43 Resp: 193943
Ion Ratio Lower Upper
43 100
61 19.3 16.4 24.6





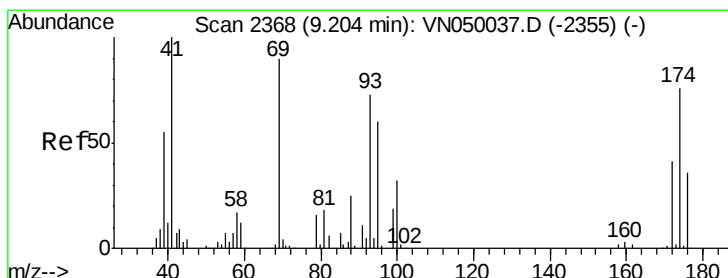
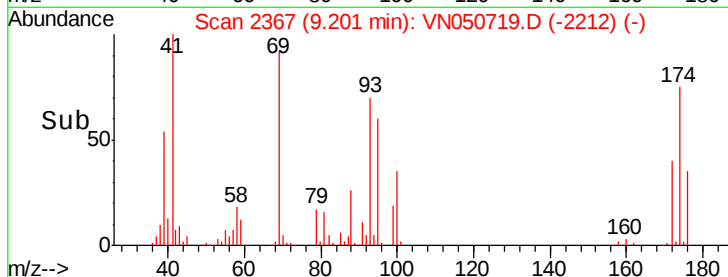
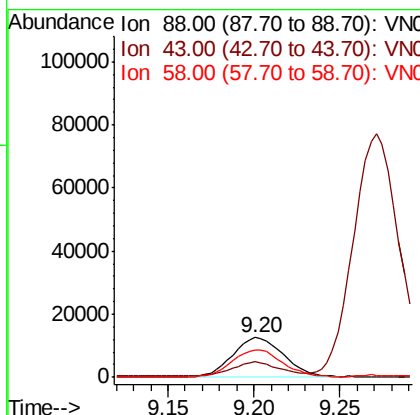
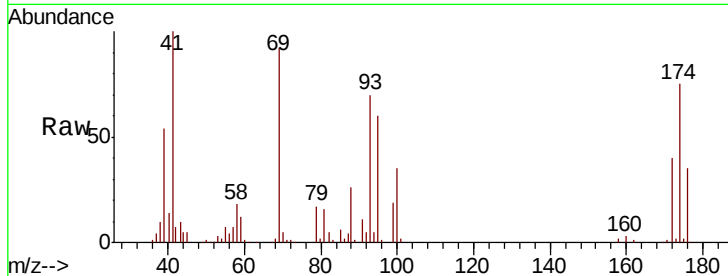
#45
 1,4-Dioxane
 Concen: 335.43 ug/l
 RT: 9.20 min Scan# 2367
 Delta R.T. -0.00 min
 Lab File: VN050719.D
 Acq: 17 Aug 2018 10:01

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0817WBSD01

Tot Ion:	88	Resp:	26121
Ion	Ratio	Lower	Upper
88	100		
43	31.9	26.9	40.3
58	68.9	53.6	80.4

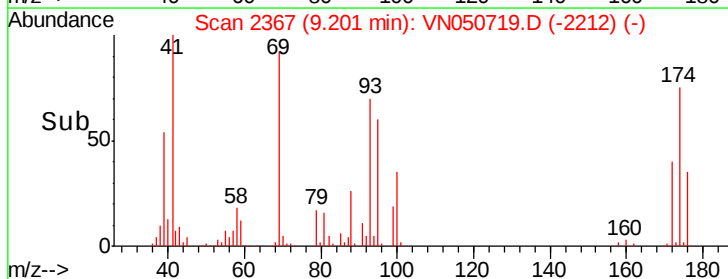
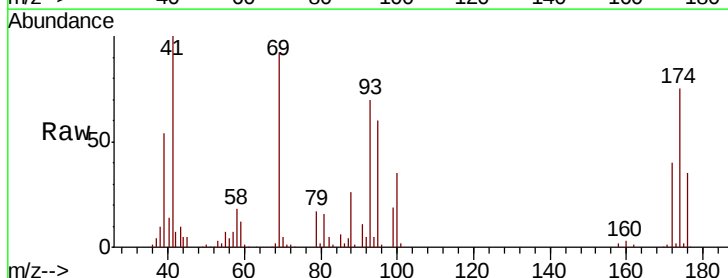
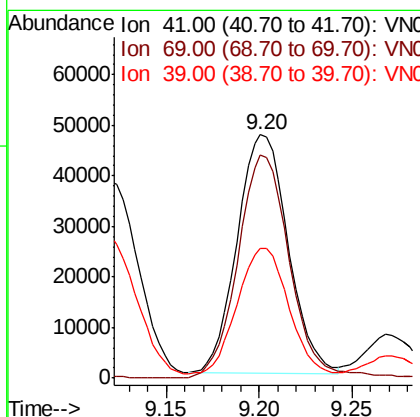
Manual Integrations
 APPROVED

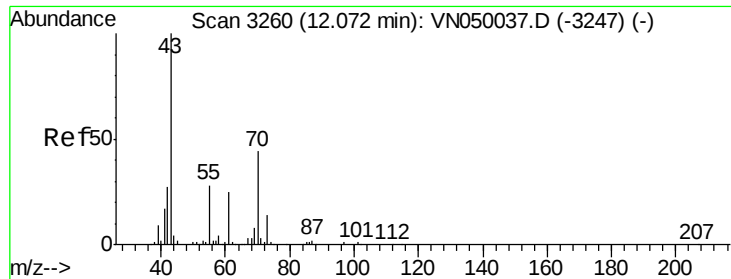
MMDadoda
 8/20/2018 10:52:46 AM



#46
 Methyl methacrylate
 Concen: 15.74 ug/l
 RT: 9.20 min Scan# 2367
 Delta R.T. -0.00 min
 Lab File: VN050719.D
 Acq: 17 Aug 2018 10:01

Tgt Ion:	41	Resp:	90310
Ion	Ratio	Lower	Upper
41	100		
69	93.4	44.0	132.1
39	53.0	27.0	80.8





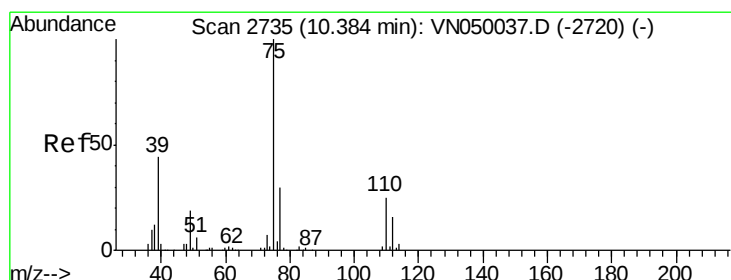
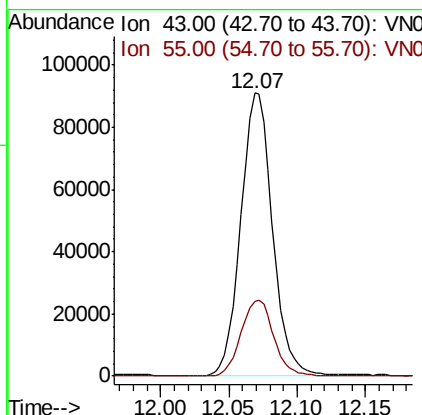
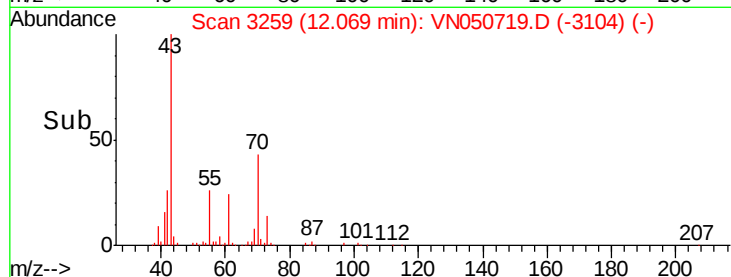
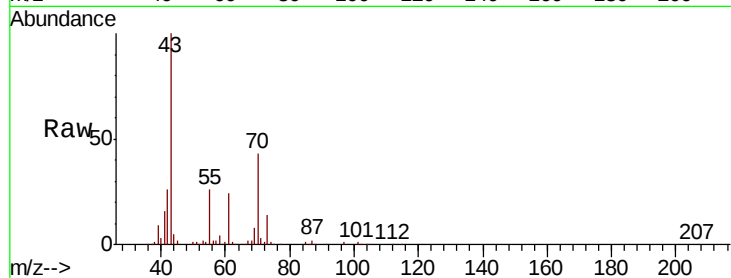
#47
n-amvl Acetate
Concen: 15.98 ug/l
RT: 12.07 min Scan# 3259
Delta R.T. -0.00 min
Lab File: VN050719.D
Acq: 17 Aug 2018 10:01

Instrument :
MSVOA_N
ClientSampled :
VN0817WBSD01

Tot Ion	43	Resp	147151
Ion Ratio	100	Lower	Upper
43	100		
55	27.6	21.0	31.4

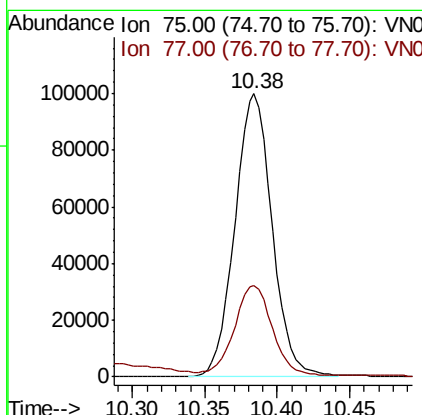
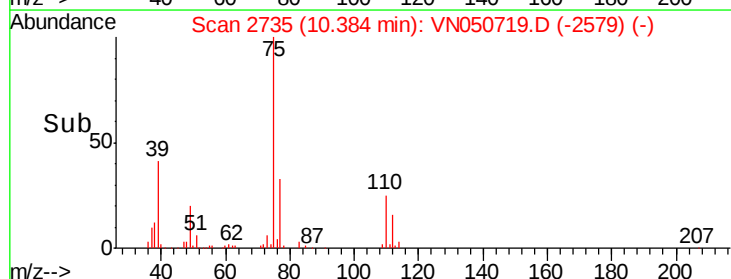
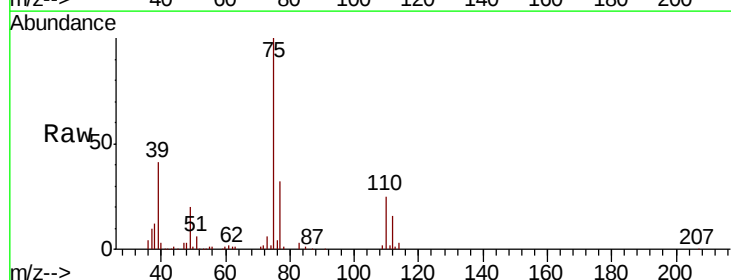
Manual Integrations
APPROVED

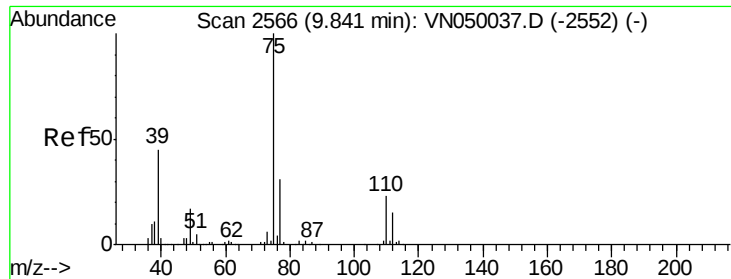
MMDadoda
8/20/2018 10:52:46 AM



#48
t-1,3-Dichloropropene
Concen: 18.42 ug/l
RT: 10.38 min Scan# 2735
Delta R.T. 0.00 min
Lab File: VN050719.D
Acq: 17 Aug 2018 10:01

Tgt Ion	75	Resp	178488
Ion Ratio	100	Lower	Upper
75	100		
77	31.8	24.6	37.0





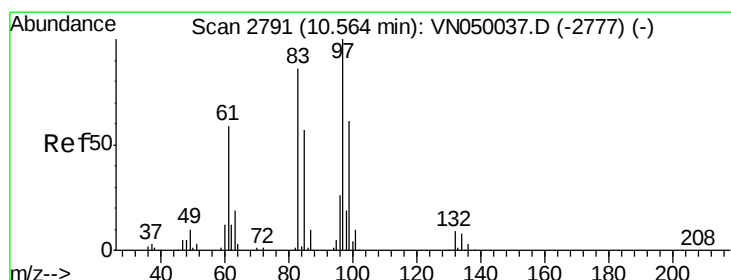
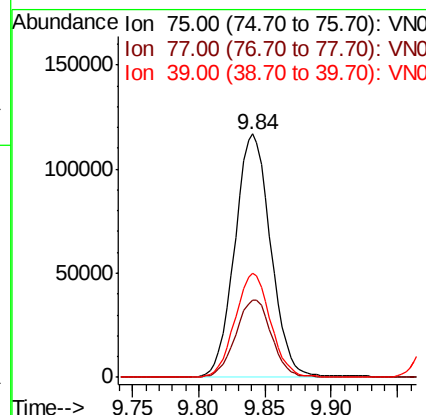
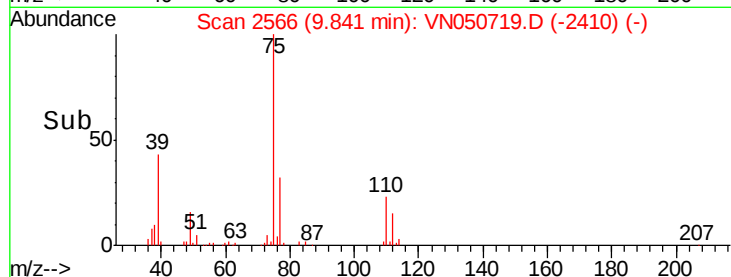
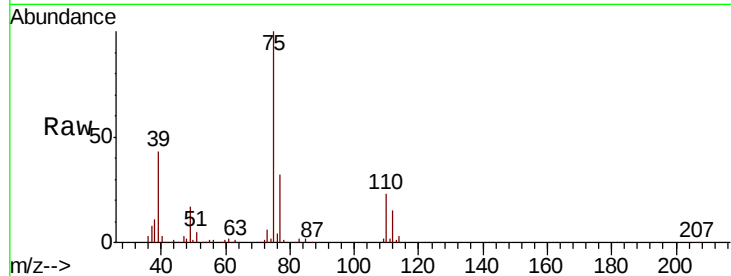
#49
 cis-1,3-Dichloropropene
 Concen: 19.33 ug/l
 RT: 9.84 min Scan# 2566
 Delta R.T. 0.00 min
 Lab File: VN050719.D
 Acq: 17 Aug 2018 10:01

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0817WBSD01

Tot Ion	Ratio	Lower	Upper
75	100		
77	31.8	25.7	38.5
39	42.9	36.3	54.5

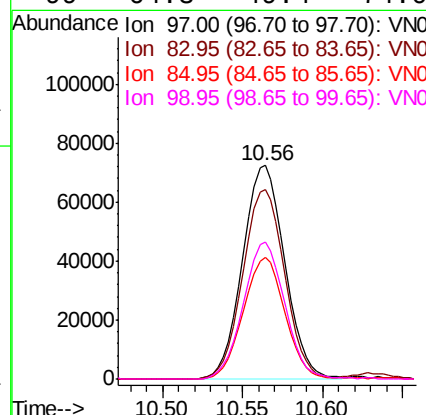
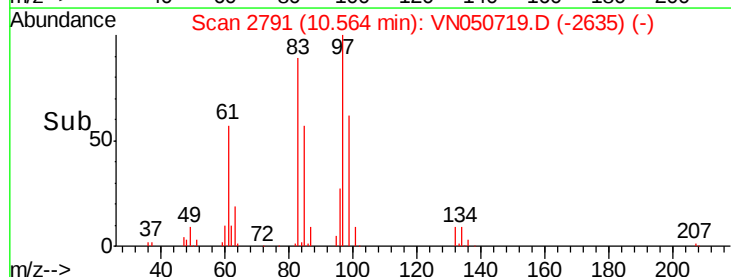
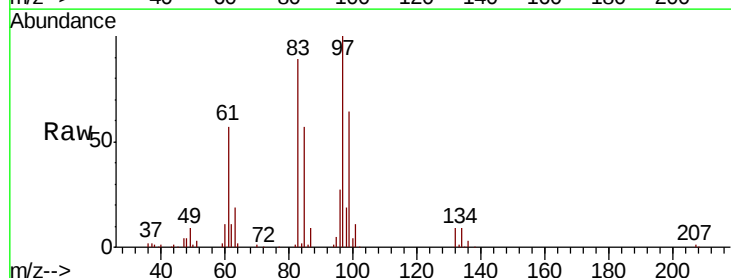
Manual Integrations
 APPROVED

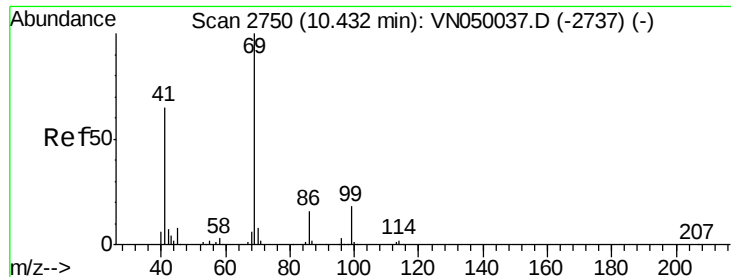
MMDadoda
 8/20/2018 10:52:46 AM



#50
 1,1,2-Trichloroethane
 Concen: 18.83 ug/l
 RT: 10.56 min Scan# 2791
 Delta R.T. 0.00 min
 Lab File: VN050719.D
 Acq: 17 Aug 2018 10:01

Tgt Ion	Ratio	Lower	Upper
97	100		
83	88.9	68.1	102.1
85	57.1	45.4	68.2
99	64.3	49.4	74.0





#51

Ethyl methacrylate

Concen: 17.30 ug/l

RT: 10.43 min Scan# 2749

Delta R.T. -0.00 min

Lab File: VN050719.D

Acq: 17 Aug 2018 10:01

Instrument :

MSVOA_N

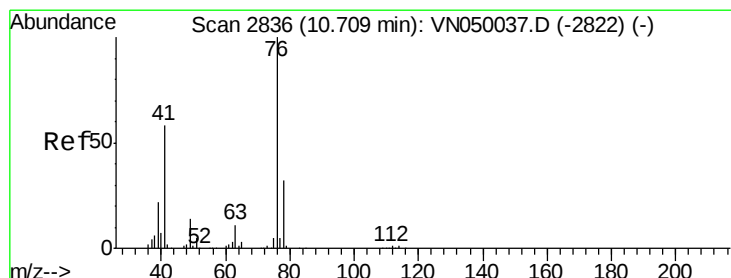
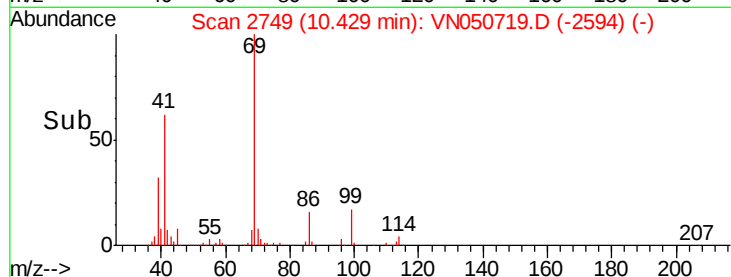
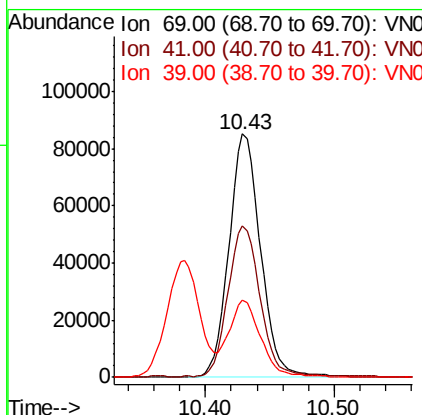
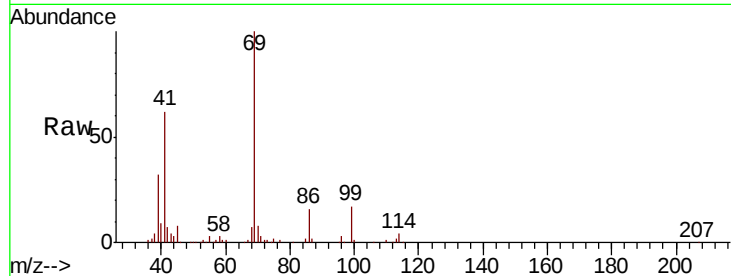
ClientSampleId :

VN0817WBSD01

Tot Ion:	69	Resp:	145259
Ion	Ratio	Lower	Upper
69	100		
41	61.7	31.9	95.9
39	31.6	16.7	50.1

Manual Integrations
APPROVED

MMDadoda
8/20/2018 10:52:46 AM



#52

1,3-Dichloropropane

Concen: 19.01 ug/l

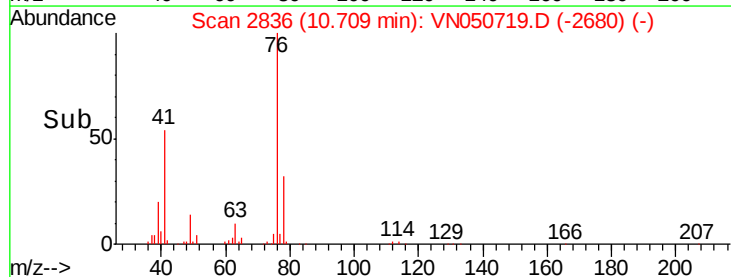
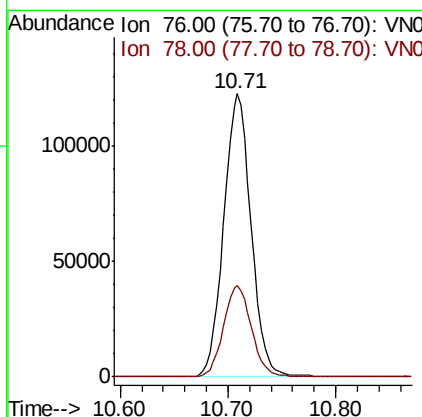
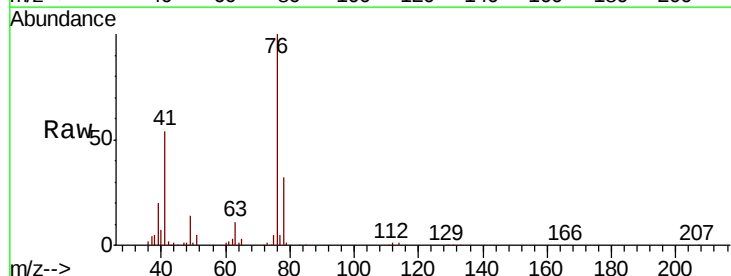
RT: 10.71 min Scan# 2836

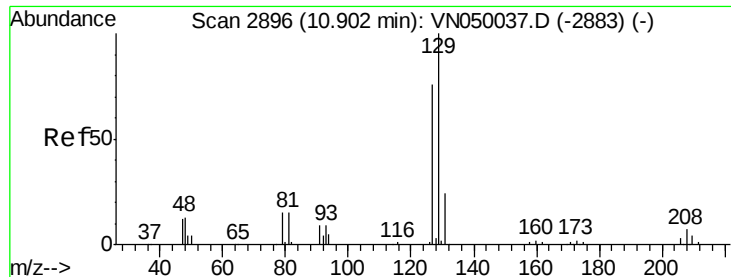
Delta R.T. 0.00 min

Lab File: VN050719.D

Acq: 17 Aug 2018 10:01

Tgt Ion:	76	Resp:	216017
Ion	Ratio	Lower	Upper
76	100		
78	33.1	0.0	65.6





#53

Dibromochloromethane

Concen: 18.33 ug/l

RT: 10.90 min Scan# 2896

Delta R.T. 0.00 min

Lab File: VN050719.D

Acq: 17 Aug 2018 10:01

Instrument :

MSVOA_N

ClientSampleId :

VN0817WBSD01

Tot Ion:129 Resp: 143938

Ion Ratio Lower Upper

129 100

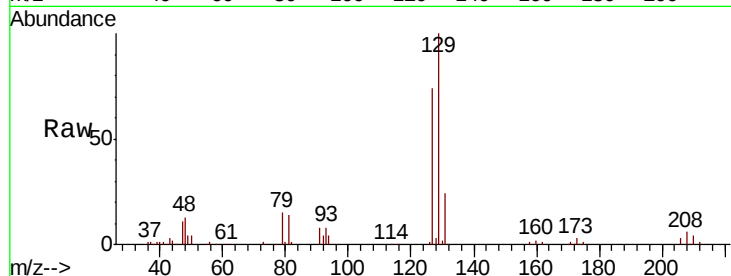
127 76.9 38.1 114.5

Manual Integrations

APPROVED

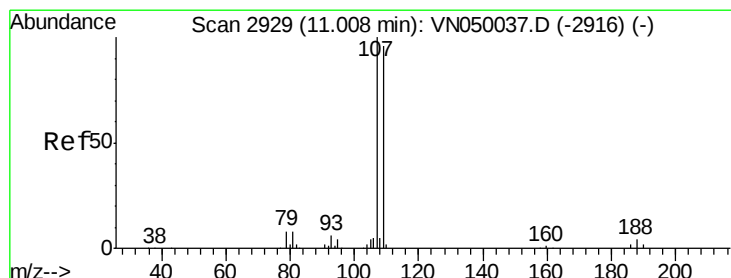
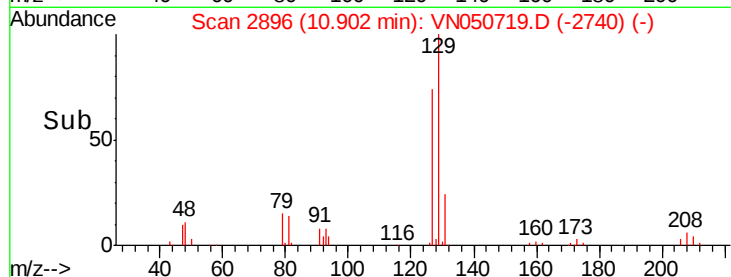
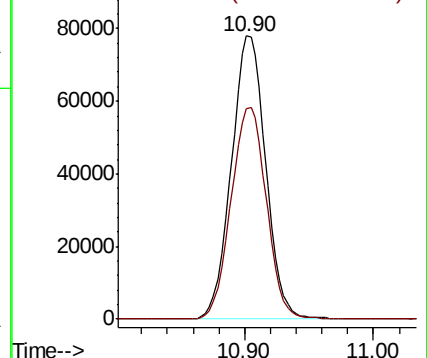
MMDadoda

8/20/2018 10:52:46 AM



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#54

1,2-Dibromoethane

Concen: 18.16 ug/l

RT: 11.01 min Scan# 2929

Delta R.T. 0.00 min

Lab File: VN050719.D

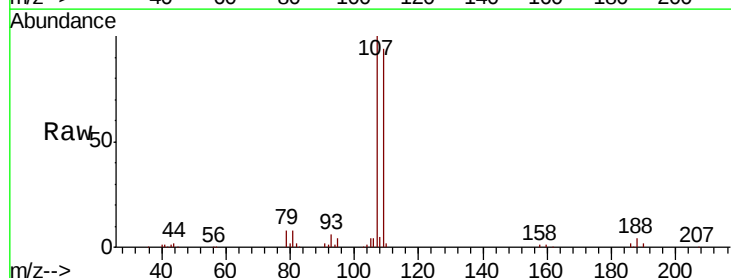
Acq: 17 Aug 2018 10:01

Tgt Ion:107 Resp: 123061

Ion Ratio Lower Upper

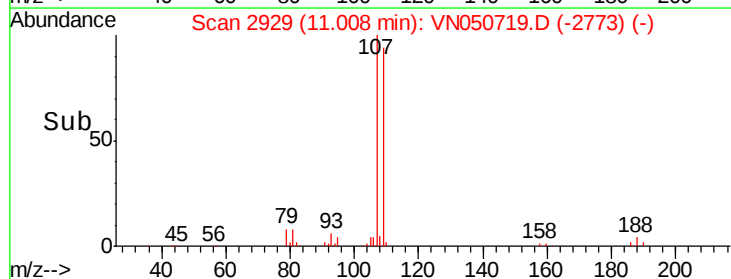
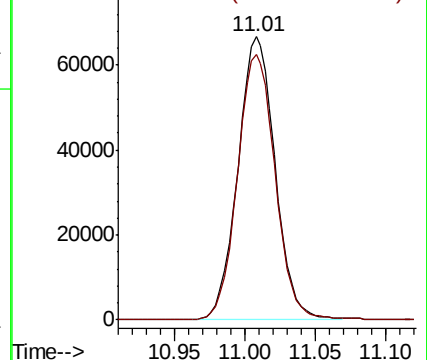
107 100

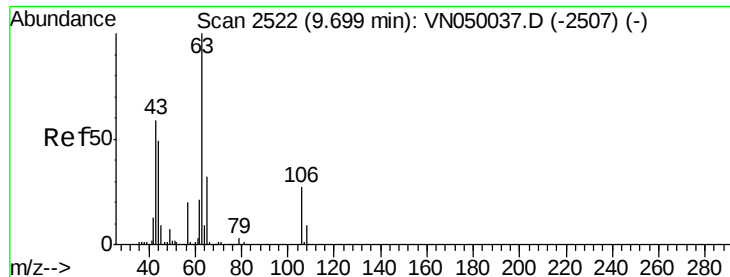
109 95.2 76.2 114.2



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V





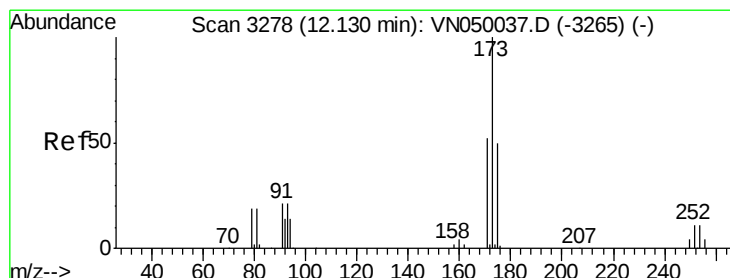
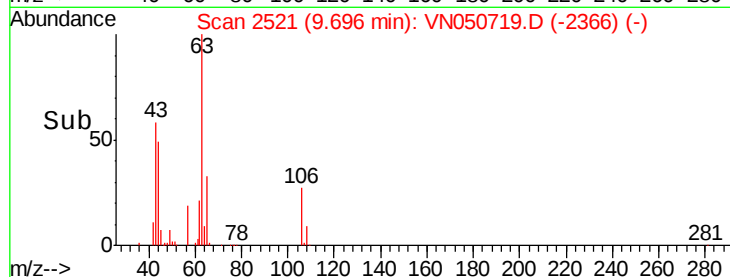
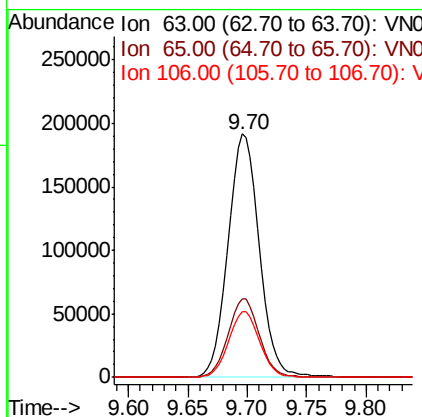
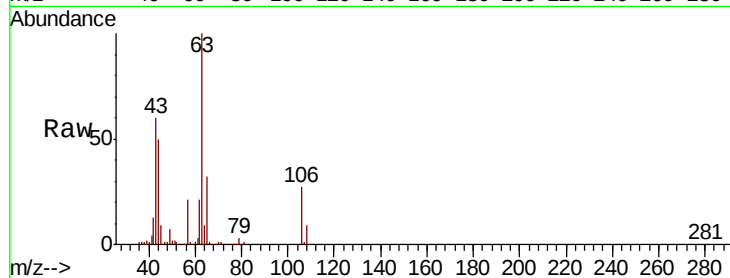
#55
2-Chloroethyl vinyl ether
Concen: 91.99 ug/l
RT: 9.70 min Scan# 2521
Delta R.T. -0.00 min
Lab File: VN050719.D
Acq: 17 Aug 2018 10:01

Instrument :
MSVOA_N
ClientSampleId :
VN0817WBSD01

Tot Ion:	63	Resp:	349646
Ion	Ratio	Lower	Upper
63	100		
65	32.2	25.5	38.3
106	26.8	21.8	32.6

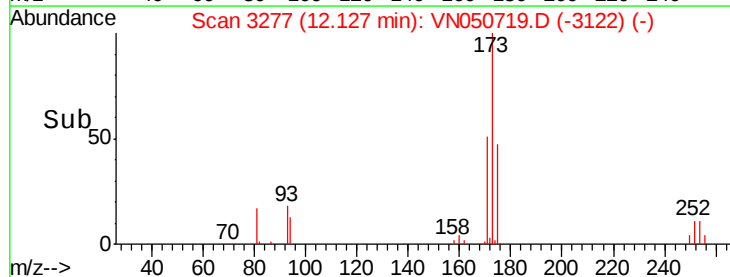
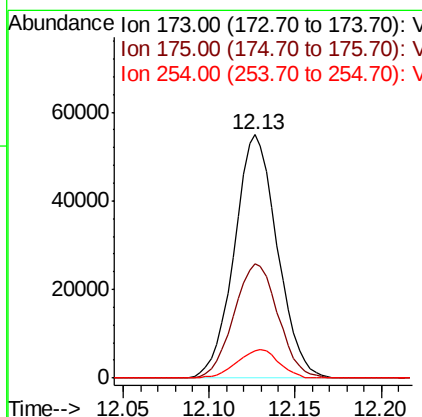
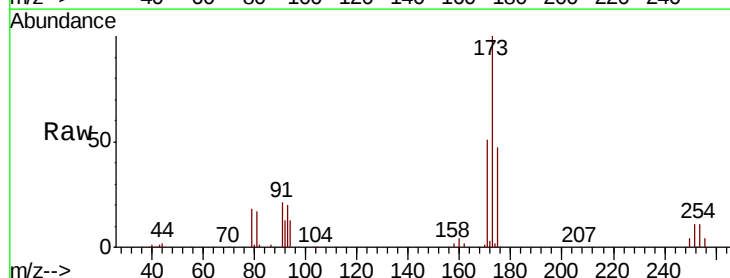
Manual Integrations
APPROVED

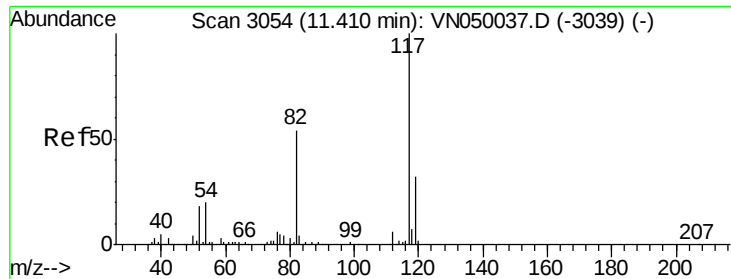
MMDadoda
8/20/2018 10:52:46 AM



#56
Bromoform
Concen: 17.24 ug/l
RT: 12.13 min Scan# 3277
Delta R.T. -0.00 min
Lab File: VN050719.D
Acq: 17 Aug 2018 10:01

Tgt Ion:	173	Resp:	95597
Ion	Ratio	Lower	Upper
173	100		
175	48.1	38.6	57.8
254	11.4	8.8	13.2





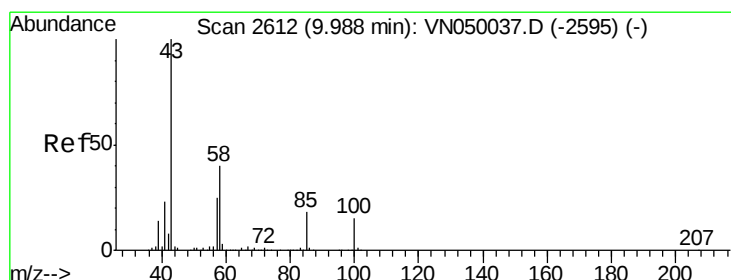
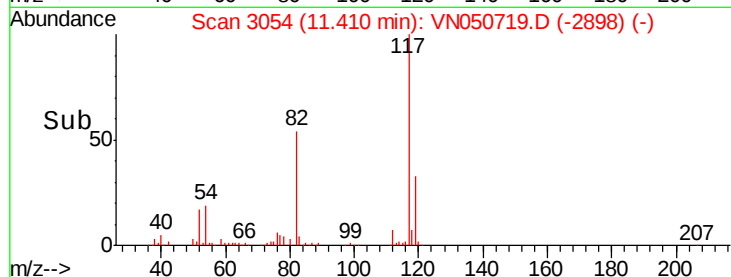
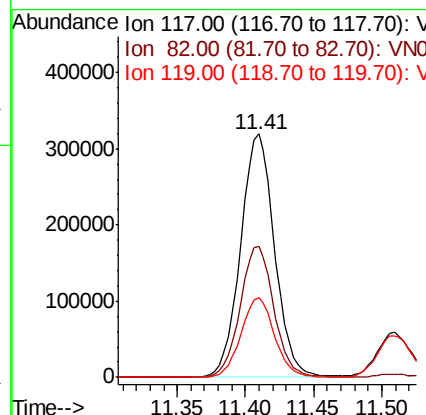
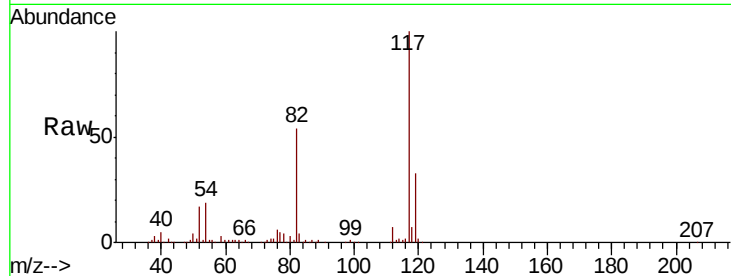
#57
Chlorobenzene-d5
Concen: 30.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. 0.00 min
Lab File: VN050719.D
Acq: 17 Aug 2018 10:01

Instrument :
MSVOA_N
ClientSampleId :
VN0817WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
117	100	551635		
82	53.7	42.4	63.6	
119	32.4	25.4	38.0	

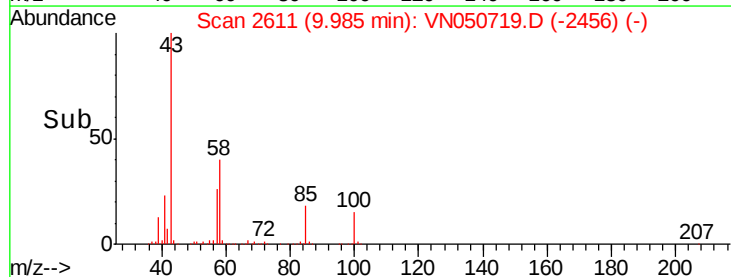
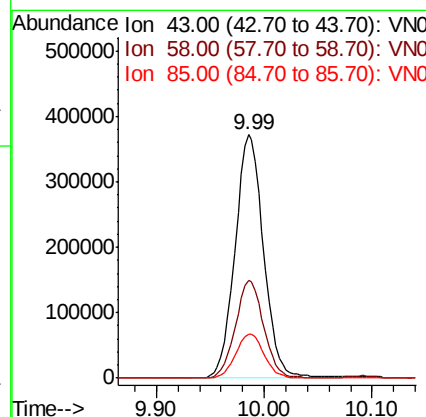
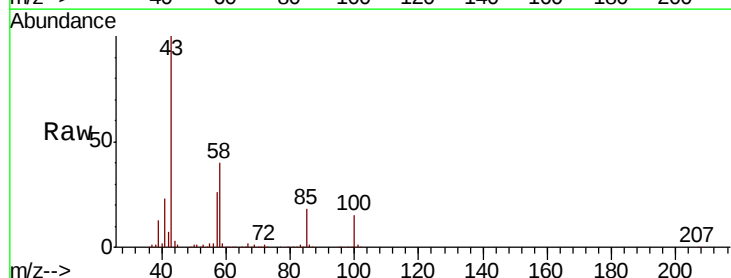
Manual Integrations
APPROVED

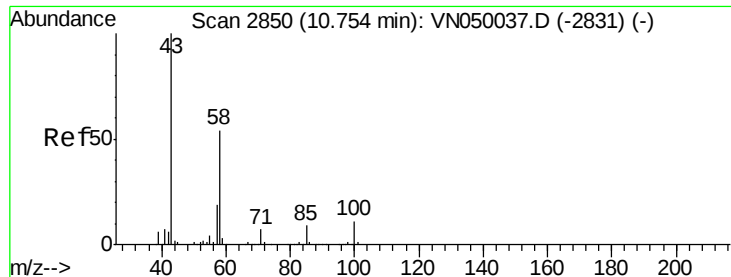
MMDadoda
8/20/2018 10:52:46 AM



#58
4-Methyl-2-Pentanone
Concen: 106.35 ug/l
RT: 9.99 min Scan# 2611
Delta R.T. -0.00 min
Lab File: VN050719.D
Acq: 17 Aug 2018 10:01

Tgt Ion	Ratio	Resp	Lower	Upper
43	100	682630		
58	40.0	31.2	46.8	
85	18.2	14.4	21.6	





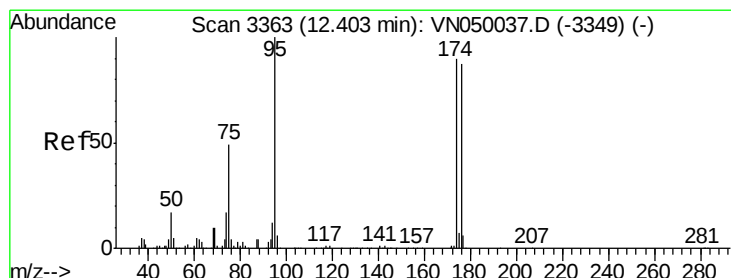
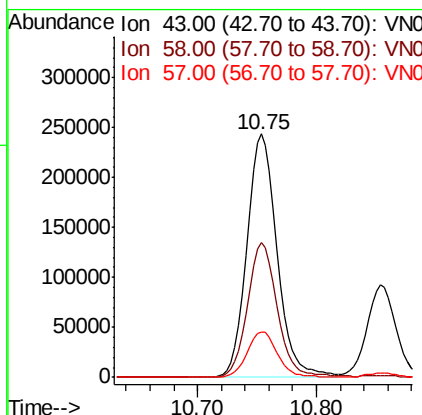
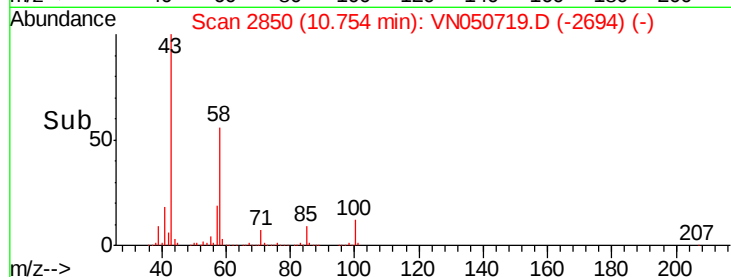
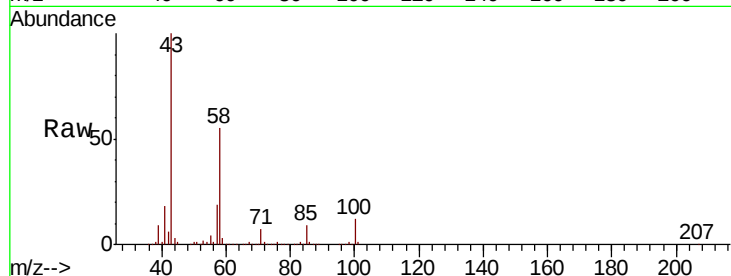
#59
2-Hexanone
Concen: 97.39 ug/l
RT: 10.75 min Scan# 2850
Delta R.T. 0.00 min
Lab File: VN050719.D
Acq: 17 Aug 2018 10:01

Instrument :
MSVOA_N
ClientSampleId :
VN0817WBSD01

Tot Ion	Ratio	Lower	Upper
43	100		
58	55.0	43.8	65.8
57	19.0	15.1	22.7

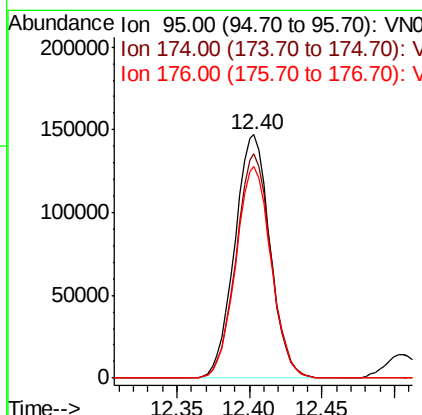
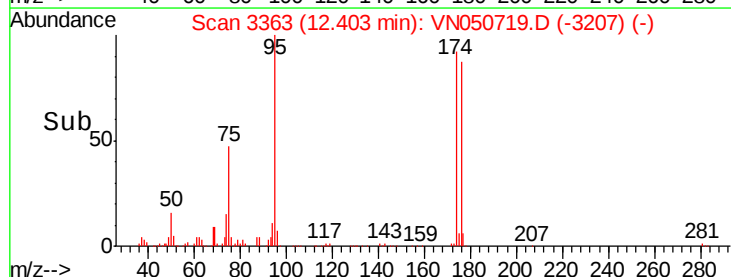
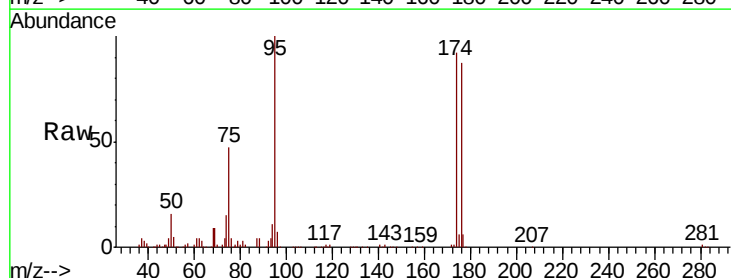
Manual Integrations
APPROVED

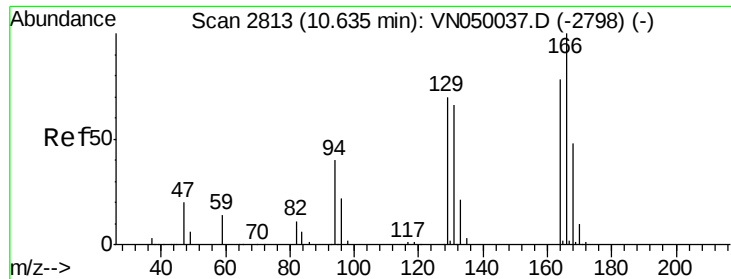
MMDadoda
8/20/2018 10:52:46 AM



#60
4-Bromofluorobenzene
Concen: 29.31 ug/l
RT: 12.40 min Scan# 3363
Delta R.T. 0.00 min
Lab File: VN050719.D
Acq: 17 Aug 2018 10:01

Tgt Ion	Ratio	Lower	Upper
95	100		
174	91.4	72.3	108.5
176	87.3	70.0	105.0





#61

Tetrachloroethene

Concen: 18.83 ug/l

RT: 10.63 min Scan# 2812

Delta R.T. -0.00 min

Lab File: VN050719.D

Acq: 17 Aug 2018 10:01

Instrument :

MSVOA_N

ClientSampleId :

VN0817WBSD01

Tot Ion:164 Resp: 140696

Ion Ratio Lower Upper

164 100

166 126.0 100.0 150.0

129 89.6 69.3 103.9

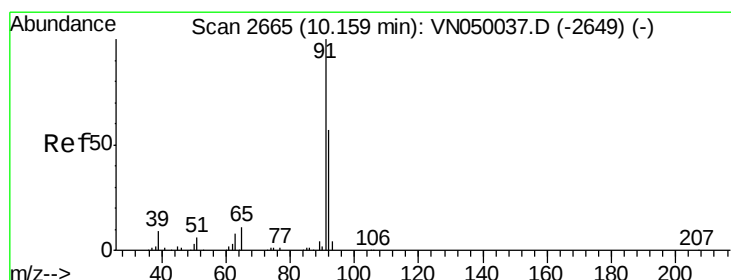
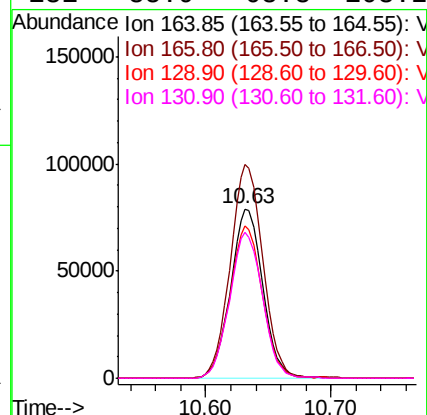
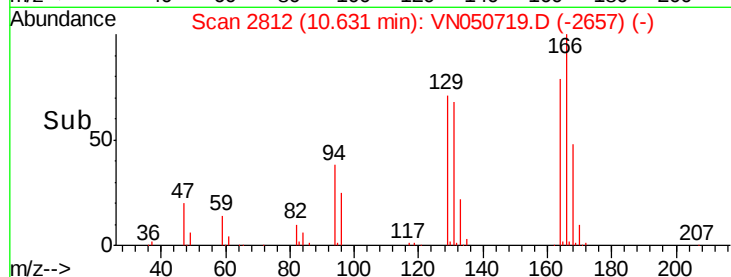
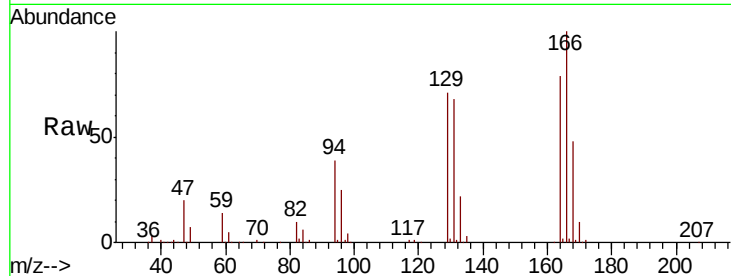
131 85.9 68.8 103.2

Manual Integrations

APPROVED

MMDadoda

8/20/2018 10:52:46 AM



#62

Toluene

Concen: 20.16 ug/l

RT: 10.16 min Scan# 2664

Delta R.T. -0.00 min

Lab File: VN050719.D

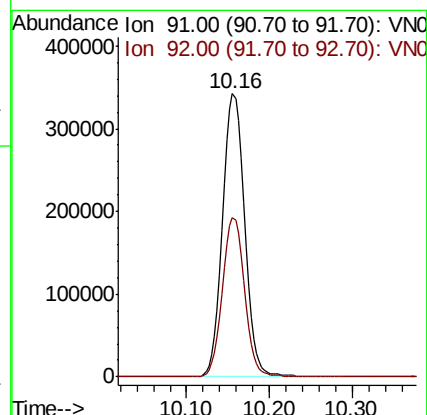
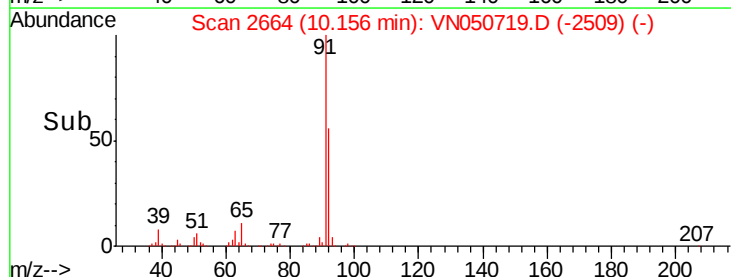
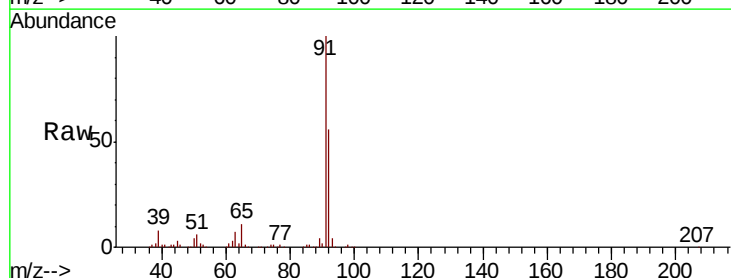
Acq: 17 Aug 2018 10:01

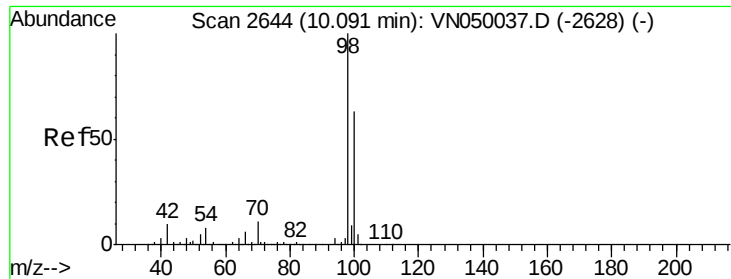
Tgt Ion: 91 Resp: 634564

Ion Ratio Lower Upper

91 100

92 56.1 45.7 68.5





#63

Toluene-d8

Concen: 30.73 ug/l

RT: 10.09 min Scan# 2644

Delta R.T. 0.00 min

Lab File: VN050719.D

Acq: 17 Aug 2018 10:01

Instrument :

MSVOA_N

ClientSampled :

VN0817WBSD01

Tot Ion: 98 Resp: 809791

Ion Ratio Lower Upper

98 100

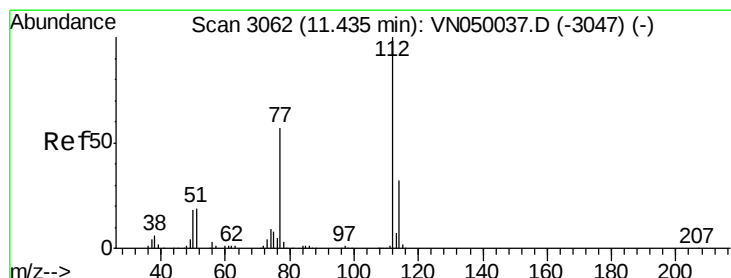
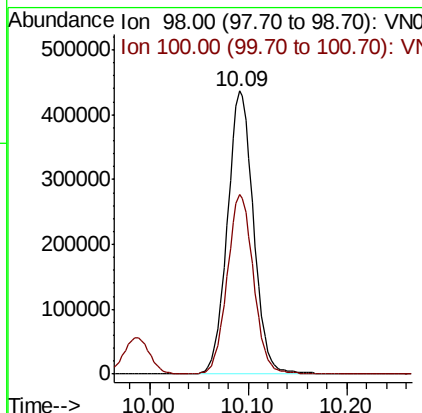
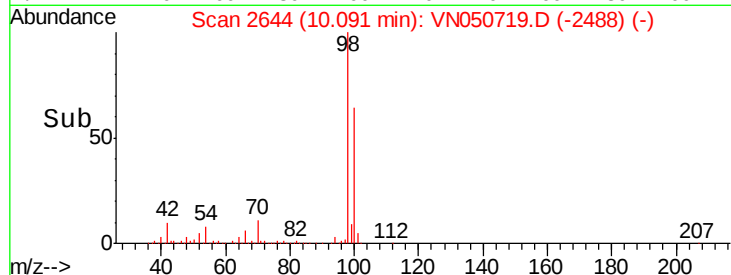
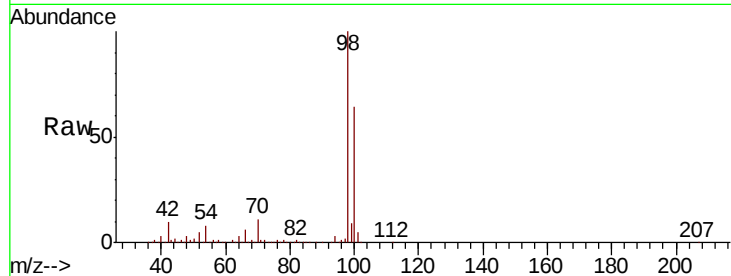
100 64.0 51.2 76.8

Manual Integrations

APPROVED

MMDadoda

8/20/2018 10:52:46 AM



#64

Chlorobenzene

Concen: 19.81 ug/l

RT: 11.43 min Scan# 3061

Delta R.T. -0.00 min

Lab File: VN050719.D

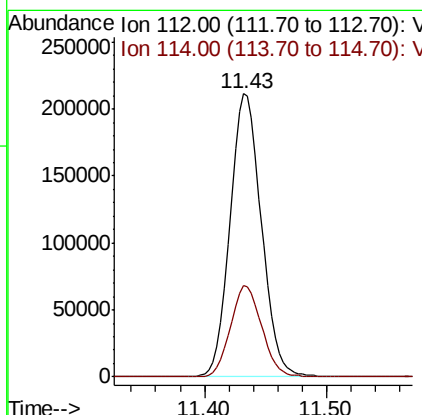
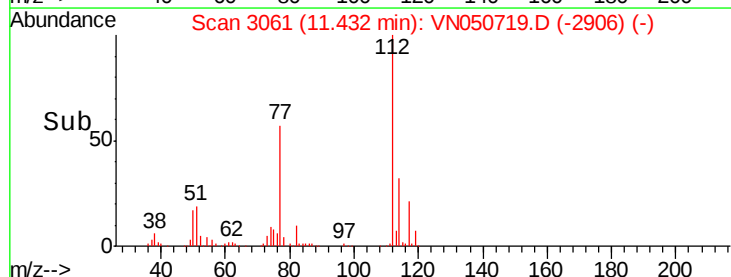
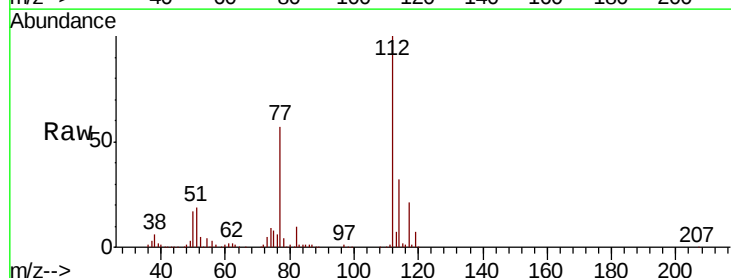
Acq: 17 Aug 2018 10:01

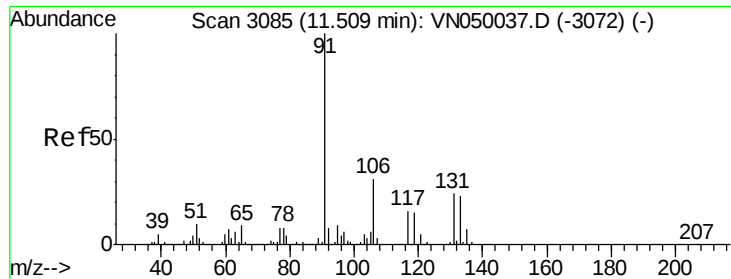
Tgt Ion: 112 Resp: 377998

Ion Ratio Lower Upper

112 100

114 32.1 26.2 39.2





#65

1,1,1,2-Tetrachloroethane

Concen: 19.66 ug/l

RT: 11.51 min Scan# 3085

Delta R.T. 0.00 min

Lab File: VN050719.D

Acq: 17 Aug 2018 10:01

Instrument :

MSVOA_N

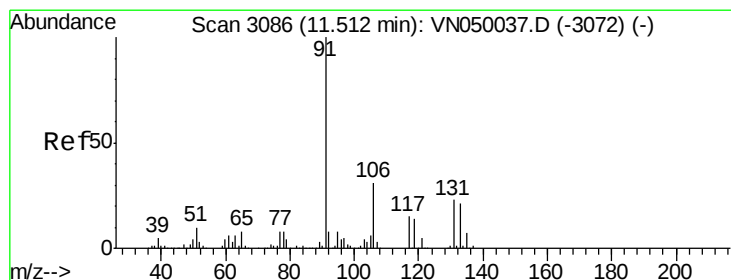
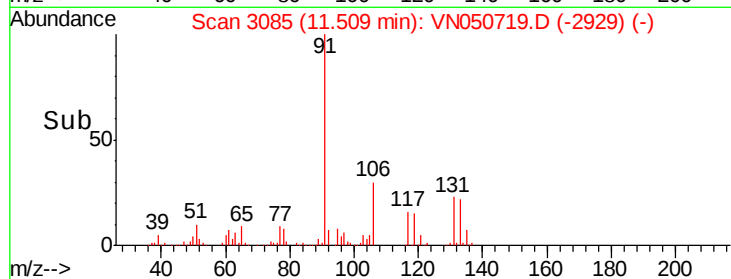
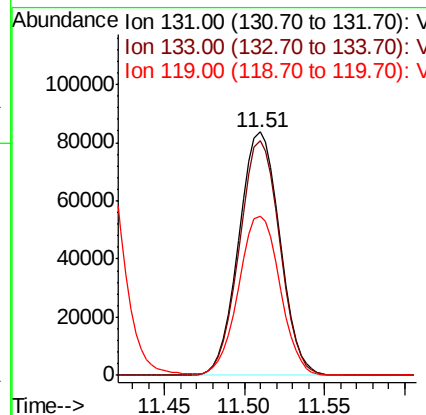
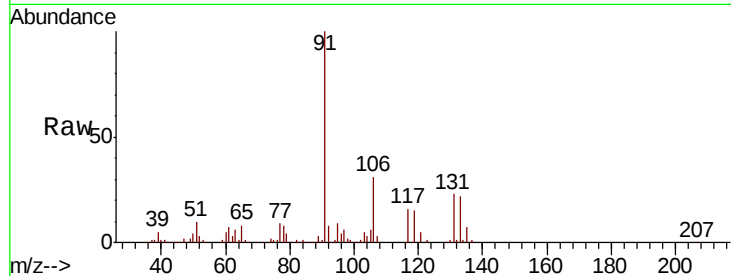
ClientSampleId :

VN0817WBSD01

Tot Ion:	131	Resp:	146373
Ion Ratio	Lower	Upper	
131	100		
133	95.0	0.0	190.0
119	66.1	0.0	131.6

Manual Integrations
APPROVED

MMDadoda
8/20/2018 10:52:46 AM



#66

Ethyl Benzene

Concen: 19.25 ug/l

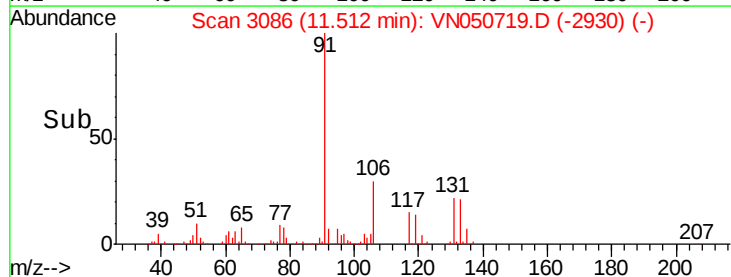
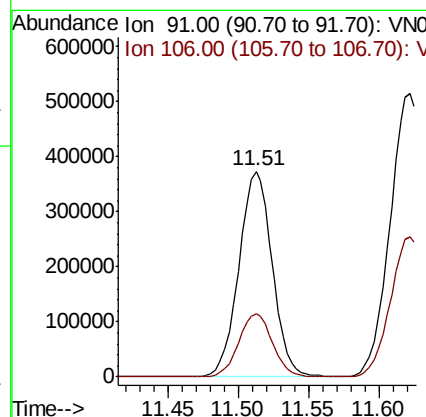
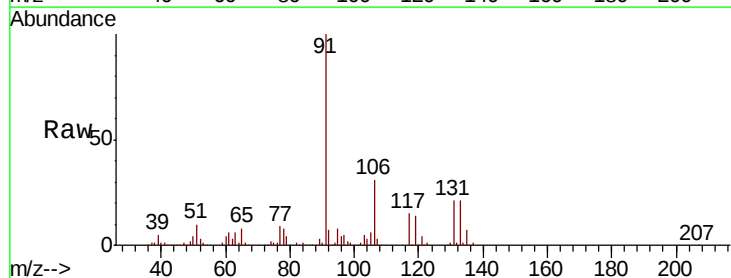
RT: 11.51 min Scan# 3086

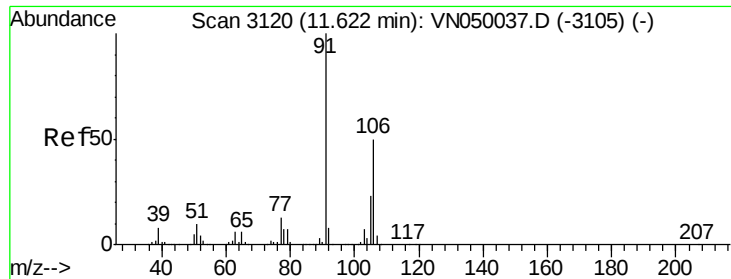
Delta R.T. 0.00 min

Lab File: VN050719.D

Acq: 17 Aug 2018 10:01

Tgt Ion:	91	Resp:	619066
Ion Ratio	Lower	Upper	
91	100		
106	30.8	25.1	37.7





#67

m/p-Xvlenes

Concen: 39.68 ug/l

RT: 11.62 min Scan# 3120

Delta R.T. 0.00 min

Lab File: VN050719.D

Acq: 17 Aug 2018 10:01

Instrument :

MSVOA_N

ClientSampled :

VN0817WBSD01

Tot Ion:106 Resp: 491162

Ion Ratio Lower Upper

106 100

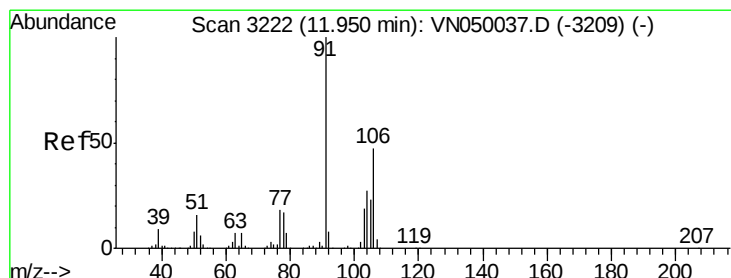
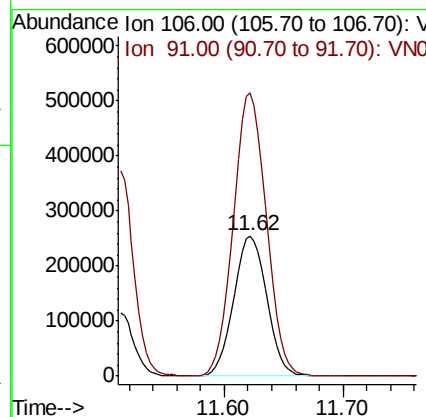
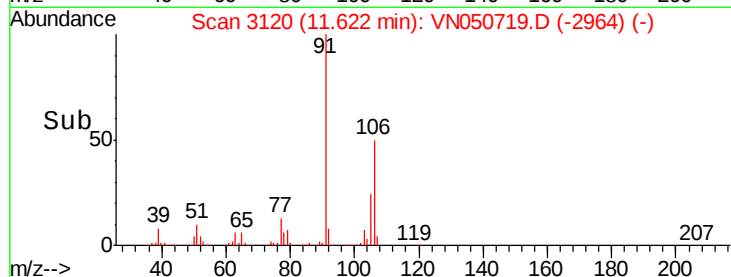
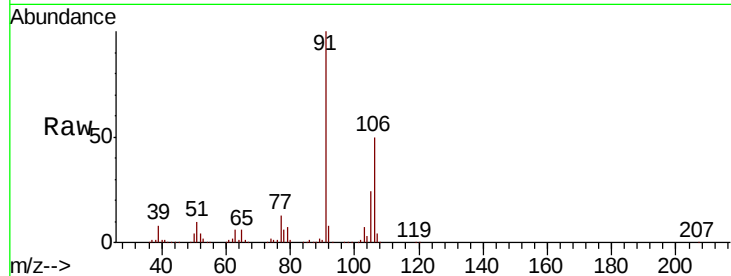
91 201.8 162.5 243.7

Manual Integrations

APPROVED

MMDadoda

8/20/2018 10:52:46 AM



#68

o-Xylene

Concen: 19.57 ug/l

RT: 11.95 min Scan# 3222

Delta R.T. 0.00 min

Lab File: VN050719.D

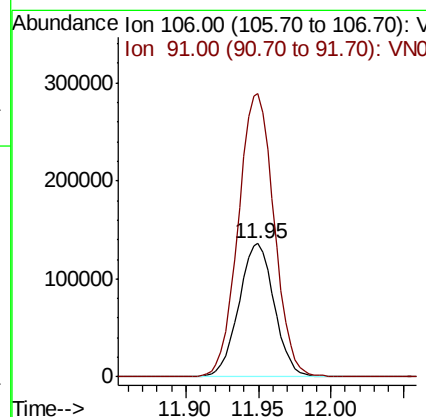
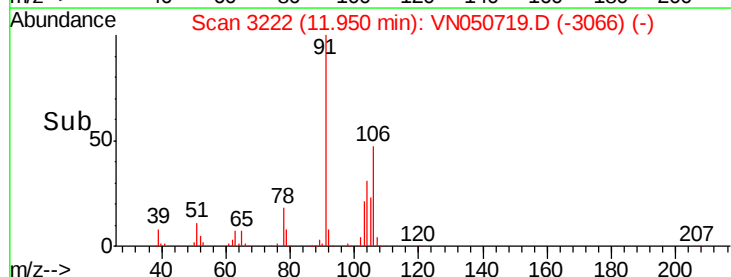
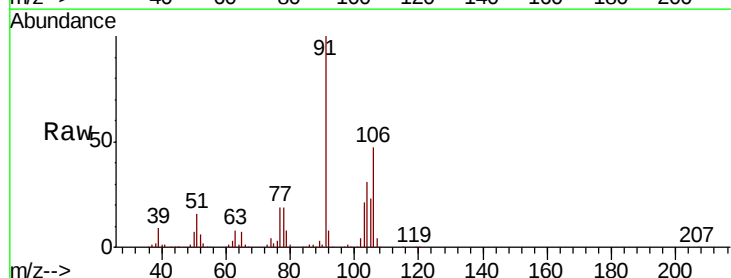
Acq: 17 Aug 2018 10:01

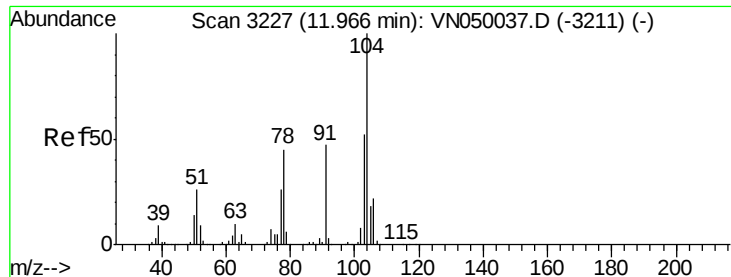
Tgt Ion:106 Resp: 230446

Ion Ratio Lower Upper

106 100

91 215.0 106.8 320.4





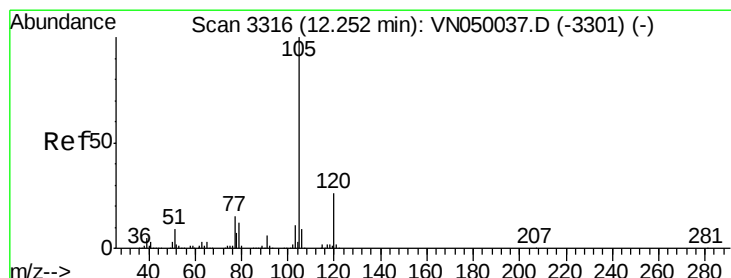
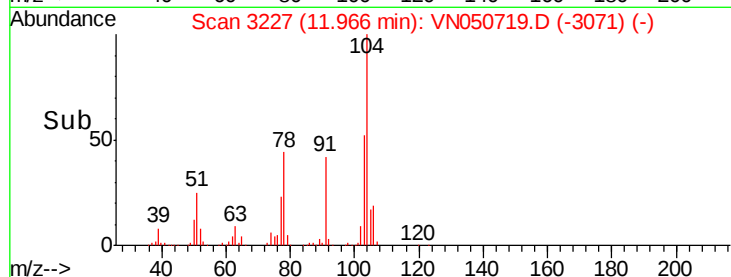
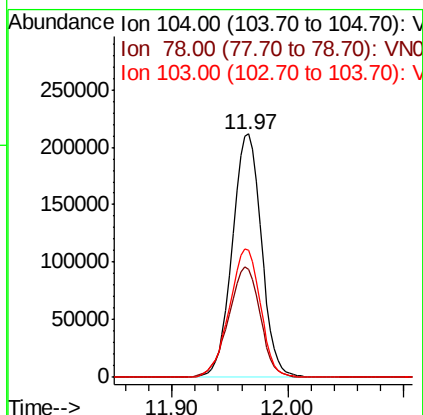
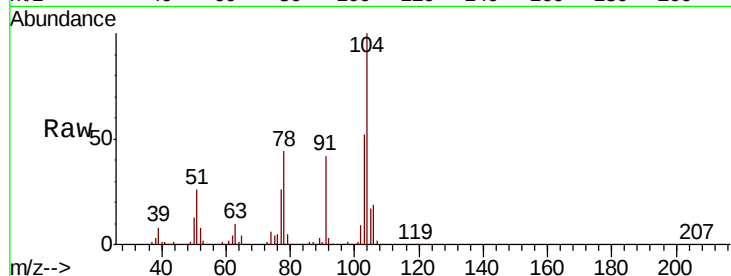
#69
Stvrene
Concen: 19.51 ug/l
RT: 11.97 min Scan# 3227
Delta R.T. 0.00 min
Lab File: VN050719.D
Acq: 17 Aug 2018 10:01

Instrument :
MSVOA_N
ClientSampleId :
VN0817WBSD01

Tot Ion	Ratio	Lower	Upper
104	100		
78	49.2	39.3	58.9
103	56.3	44.5	66.7

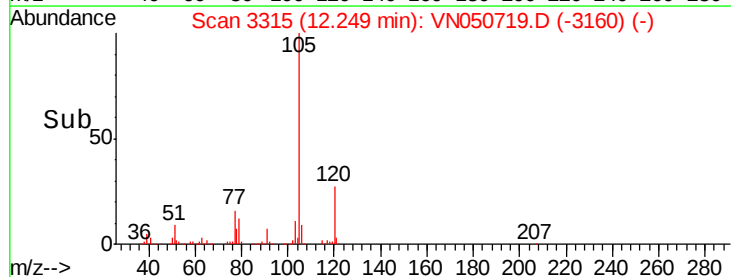
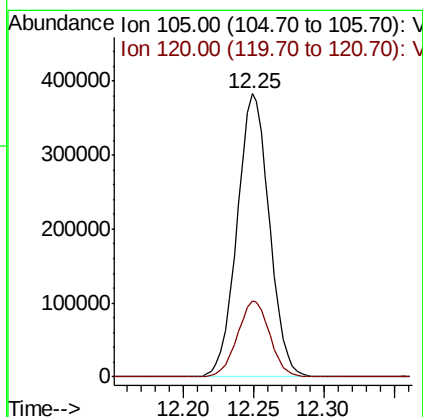
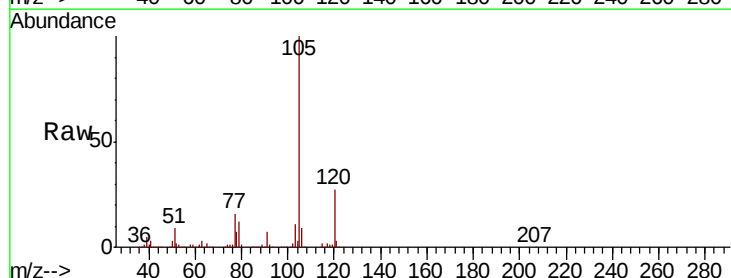
Manual Integrations
APPROVED

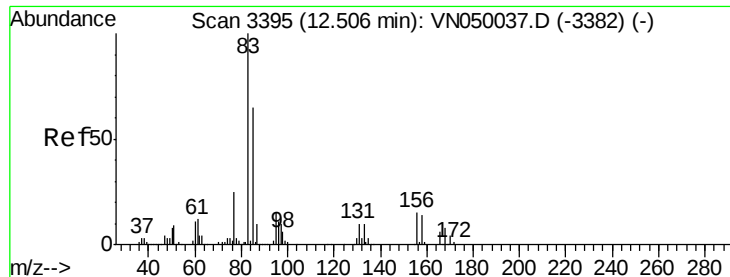
MMDadoda
8/20/2018 10:52:46 AM



#70
Isopropylbenzene
Concen: 19.55 ug/l
RT: 12.25 min Scan# 3315
Delta R.T. -0.00 min
Lab File: VN050719.D
Acq: 17 Aug 2018 10:01

Tgt Ion	Ratio	Lower	Upper
105	100		
120	26.9	18.9	35.1





#71

1,1,2,2-Tetrachloroethane

Concen: 18.26 ug/l

RT: 12.51 min Scan# 3395

Delta R.T. 0.00 min

Lab File: VN050719.D

Acq: 17 Aug 2018 10:01

Instrument :

MSVOA_N

ClientSampleId :

VN0817WBSD01

Tot Ion: 83 Resp: 157238

Ion Ratio Lower Upper

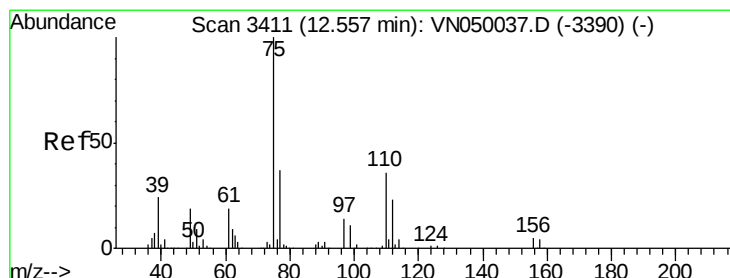
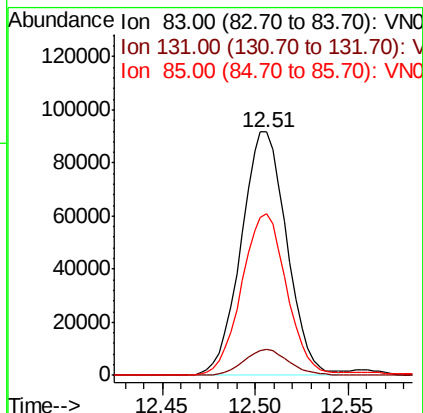
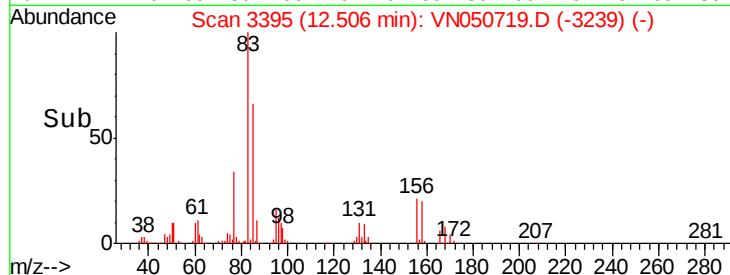
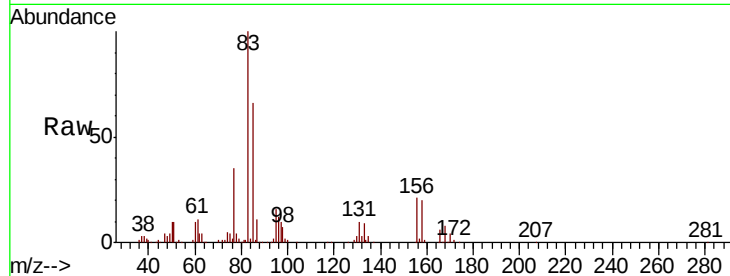
83 100

131 10.5 5.2 15.6

85 65.4 31.7 95.1

Manual Integrations
APPROVED

MMDadoda
8/20/2018 10:52:46 AM



#72

1,2,3-Trichloropropane

Concen: 18.91 ug/l m

RT: 12.55 min Scan# 3410

Delta R.T. -0.00 min

Lab File: VN050719.D

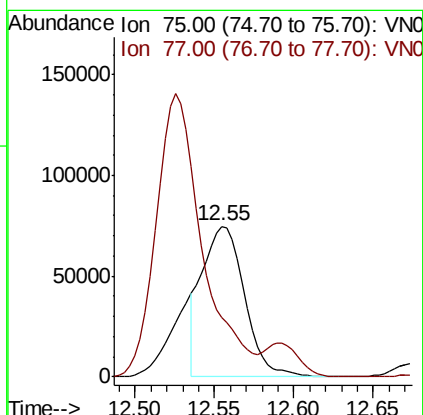
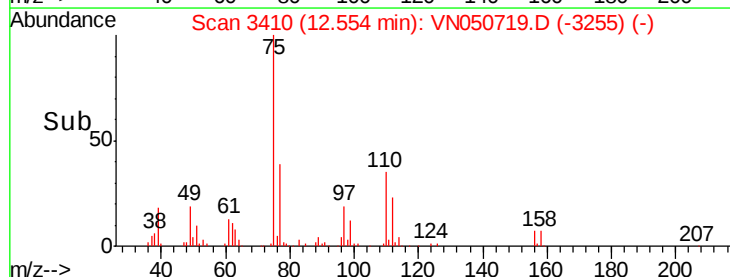
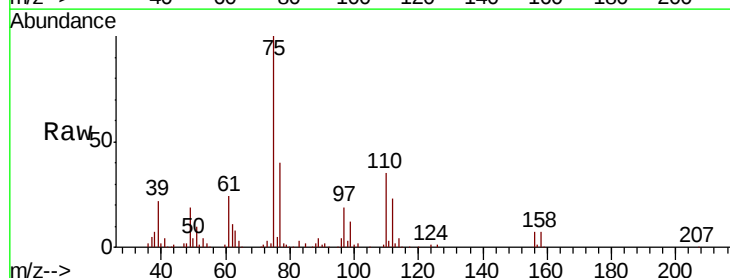
Acq: 17 Aug 2018 10:01

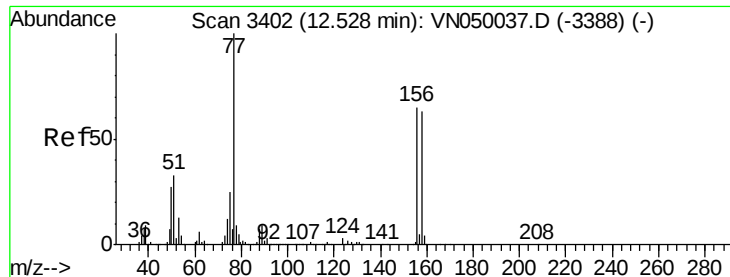
Tgt Ion: 75 Resp: 139078

Ion Ratio Lower Upper

75 100

77 204.2 0.0 454.4





#73

Bromobenzene

Concen: 19.01 ug/l

RT: 12.53 min Scan# 3401

Delta R.T. -0.00 min

Lab File: VN050719.D

Acq: 17 Aug 2018 10:01

Instrument :

MSVOA_N

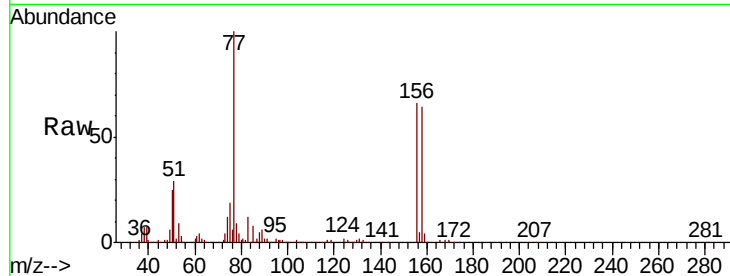
ClientSampleId :

VN0817WBSD01

Tot Ion:	156	Resp:	158862
Ion Ratio	Lower	Upper	
156	100		
77	178.7	0.0	359.8
158	97.2	0.0	192.8

Manual Integrations
APPROVED

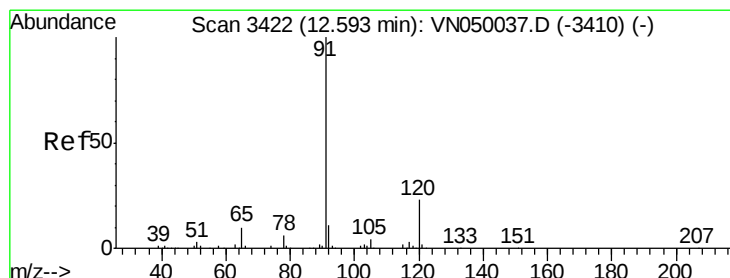
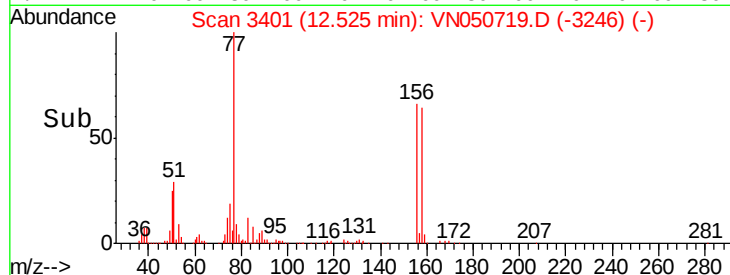
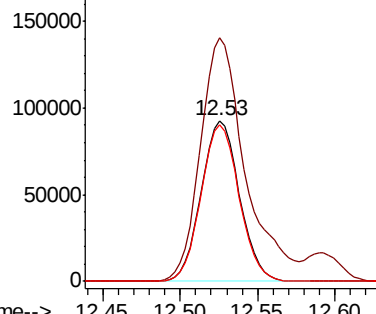
MMDadoda
8/20/2018 10:52:46 AM



Abundance Ion 156.00 (155.70 to 156.70): V

Ion 77.00 (76.70 to 77.70): VN0

Ion 158.00 (157.70 to 158.70): V



#74

n-propylbenzene

Concen: 18.94 ug/l

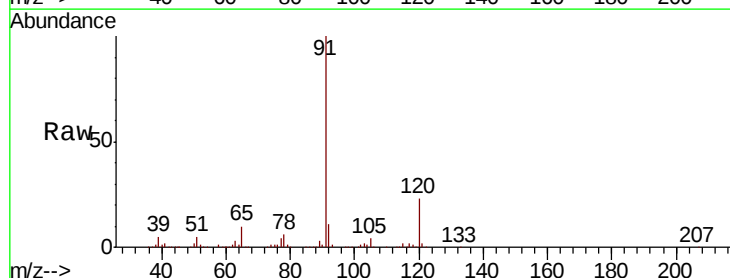
RT: 12.59 min Scan# 3422

Delta R.T. 0.00 min

Lab File: VN050719.D

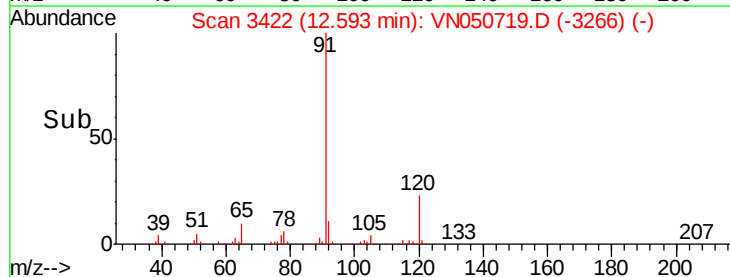
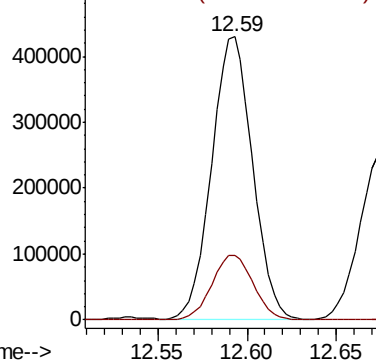
Acq: 17 Aug 2018 10:01

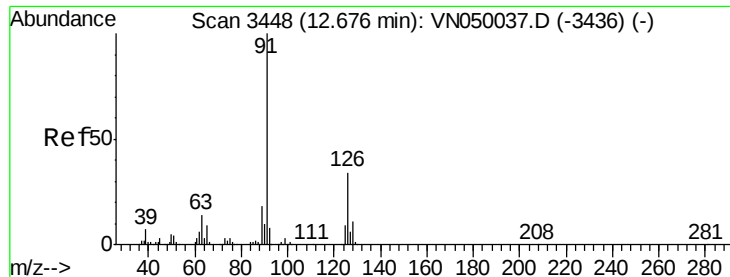
Tgt Ion:	91	Resp:	691995
Ion Ratio	Lower	Upper	
91	100		
120	23.1	0.0	46.4



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V





#75

2-Chlorotoluene

Concen: 19.48 ug/l

RT: 12.68 min Scan# 3448

Delta R.T. 0.00 min

Lab File: VN050719.D

Acq: 17 Aug 2018 10:01

Instrument :

MSVOA_N

ClientSampled :

VN0817WBSD01

Tot Ion: 91 Resp: 427466

Ion Ratio Lower Upper

91 100

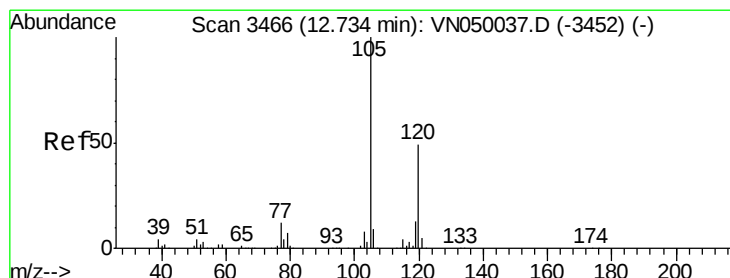
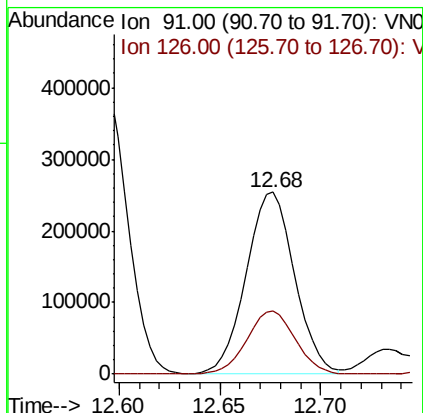
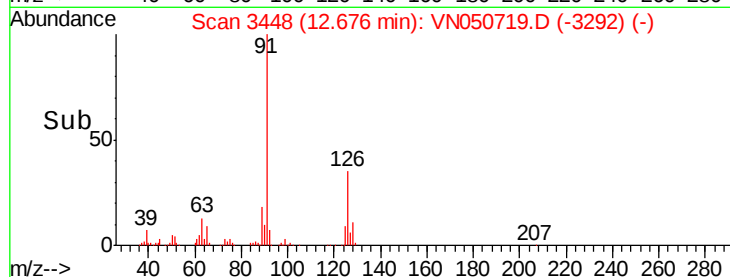
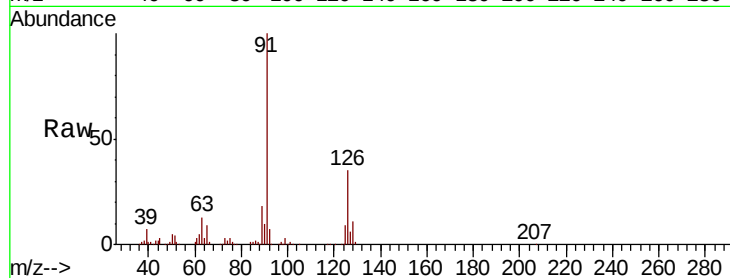
126 34.8 0.0 68.6

Manual Integrations

APPROVED

MMDadoda

8/20/2018 10:52:46 AM



#76

1,3,5-Trimethylbenzene

Concen: 19.75 ug/l

RT: 12.73 min Scan# 3466

Delta R.T. 0.00 min

Lab File: VN050719.D

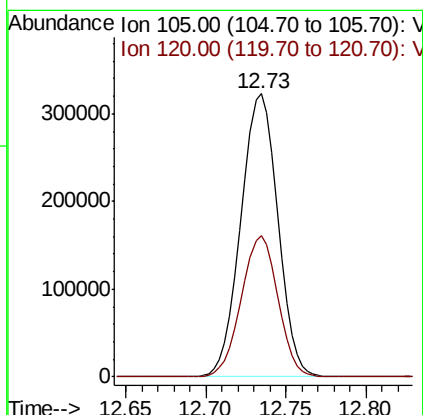
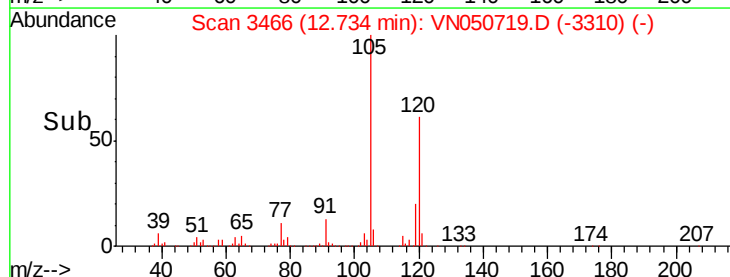
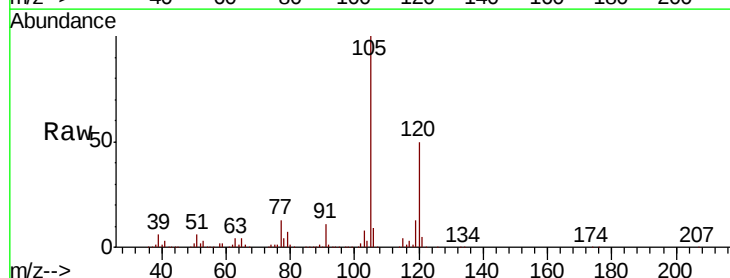
Acq: 17 Aug 2018 10:01

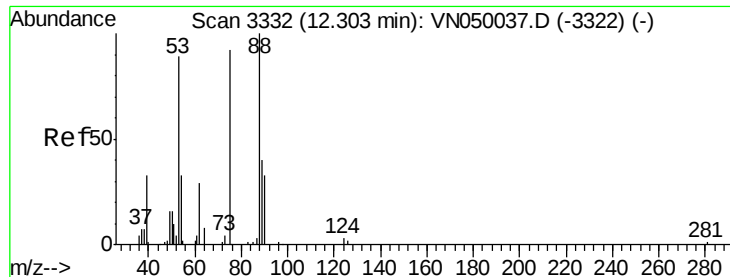
Tgt Ion: 105 Resp: 508735

Ion Ratio Lower Upper

105 100

120 49.4 0.0 98.0





#77

t-1,4-Dichloro-2-butene

Concen: 14.43 ug/l

RT: 12.30 min Scan# 3331

Delta R.T. -0.00 min

Lab File: VN050719.D

Acq: 17 Aug 2018 10:01

Instrument :

MSVOA_N

ClientSampleId :

VN0817WBSD01

Tot Ion: 75 Resp: 34709

Ion Ratio Lower Upper

75 100

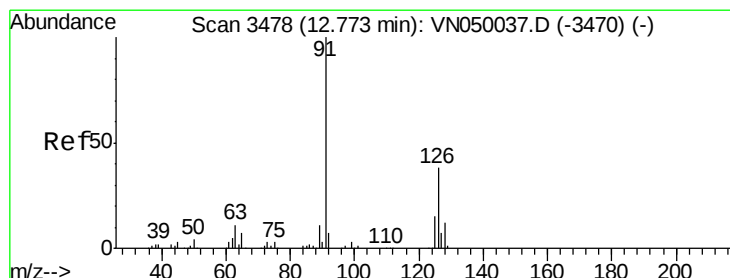
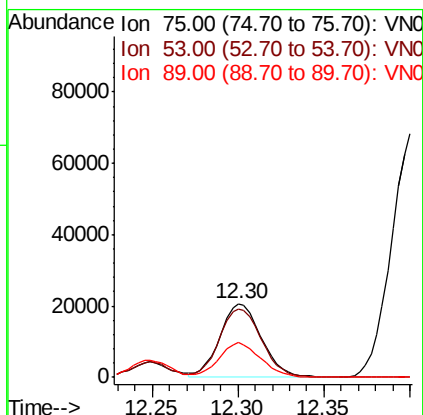
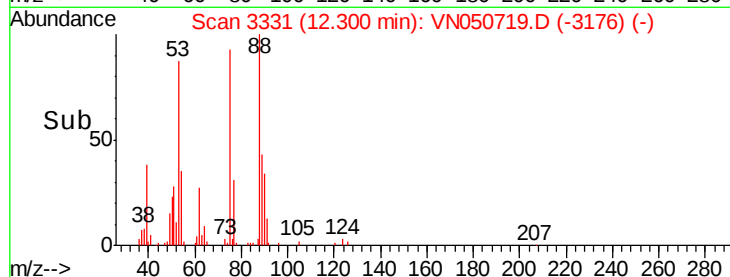
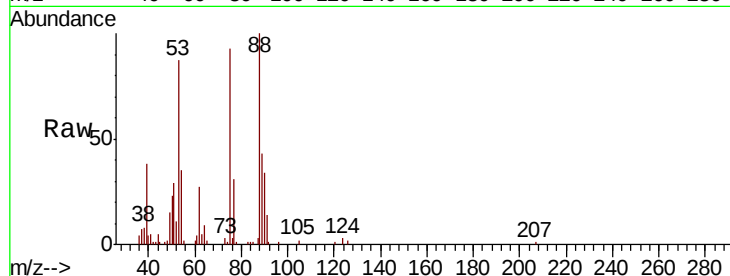
53 94.4 44.6 134.0

89 47.3 20.7 62.1

Manual Integrations
APPROVED

MMDadoda

8/20/2018 10:52:46 AM



#78

4-Chlorotoluene

Concen: 19.19 ug/l

RT: 12.77 min Scan# 3478

Delta R.T. 0.00 min

Lab File: VN050719.D

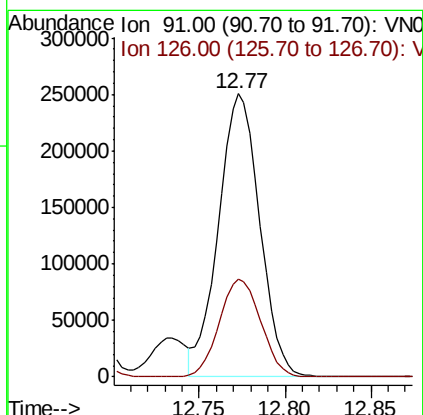
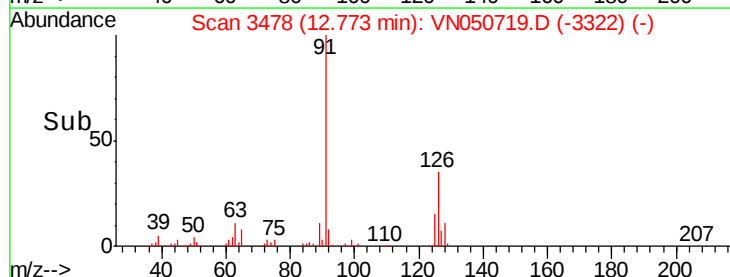
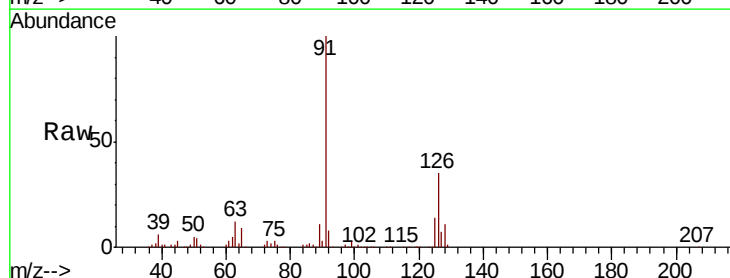
Acq: 17 Aug 2018 10:01

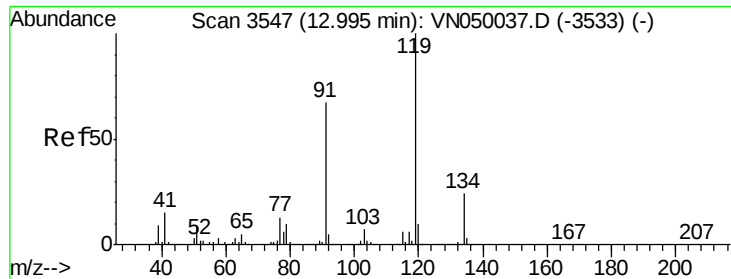
Tgt Ion: 91 Resp: 417125

Ion Ratio Lower Upper

91 100

126 34.8 0.0 68.4





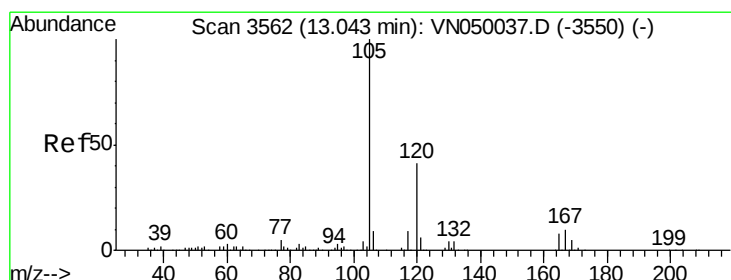
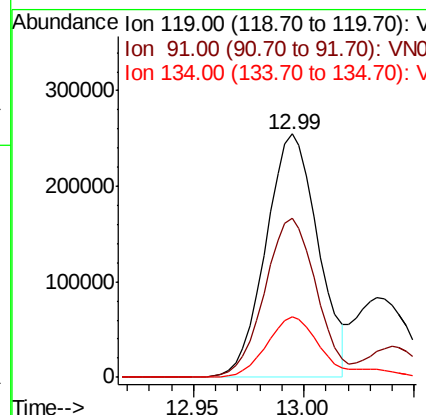
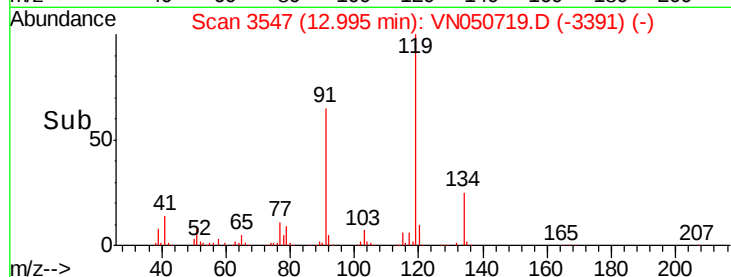
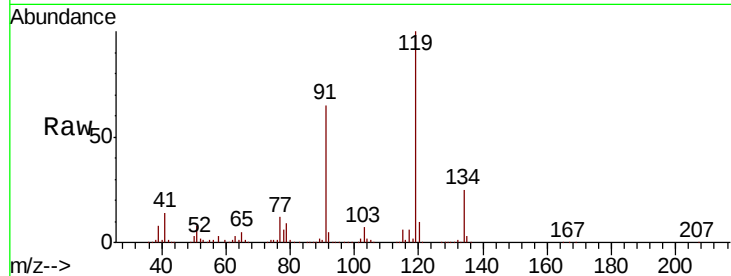
#79
tert-butylbenzene
Concen: 18.99 ug/l
RT: 12.99 min Scan# 3547
Delta R.T. 0.00 min
Lab File: VN050719.D
Acq: 17 Aug 2018 10:01

Instrument :
MSVOA_N
ClientSampleId :
VN0817WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
119	100	418185		
91	64.7	0.0	126.8	
134	24.9	0.0	47.4	

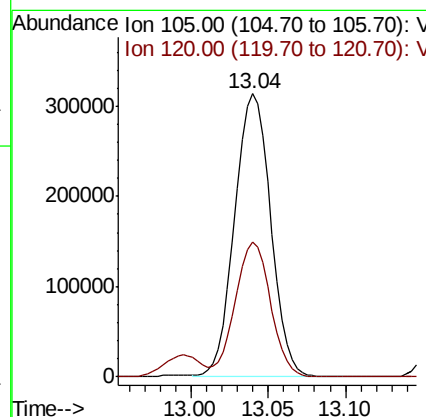
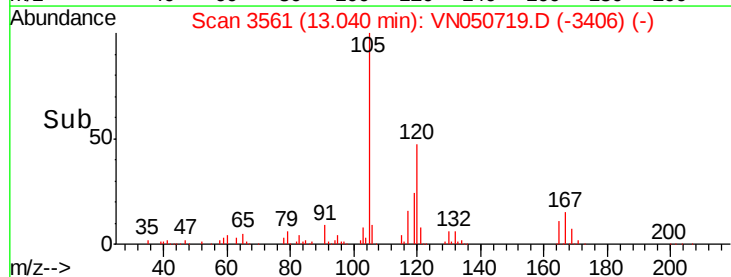
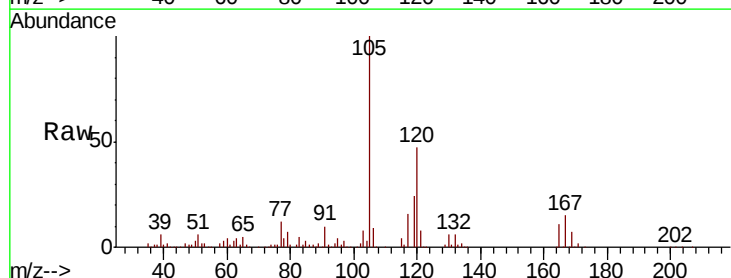
Manual Integrations
APPROVED

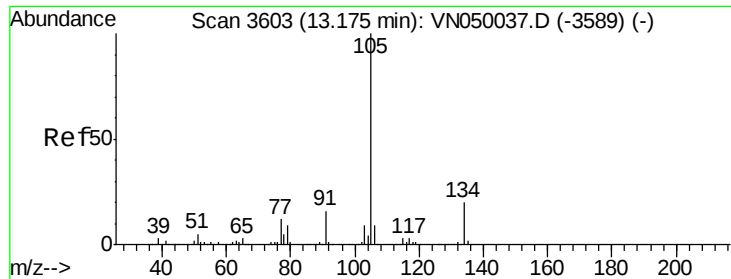
MMDadoda
8/20/2018 10:52:46 AM



#80
1,2,4-Trimethylbenzene
Concen: 19.44 ug/l
RT: 13.04 min Scan# 3561
Delta R.T. -0.00 min
Lab File: VN050719.D
Acq: 17 Aug 2018 10:01

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	507462		
120	46.8	0.0	90.6	





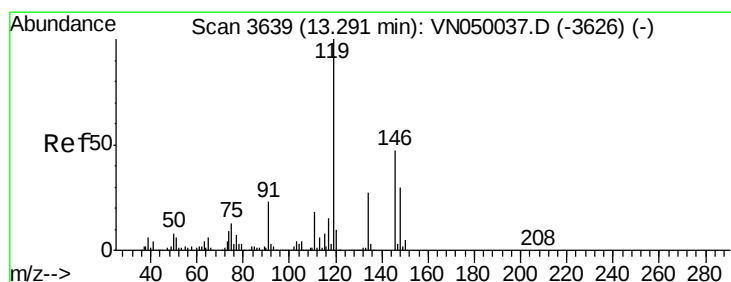
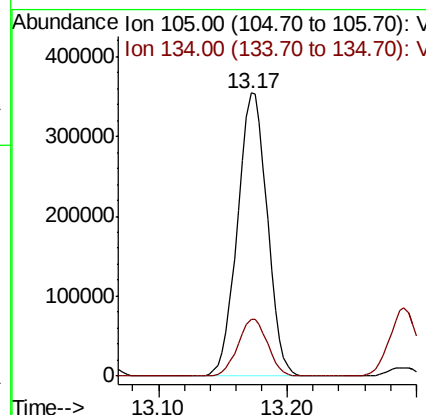
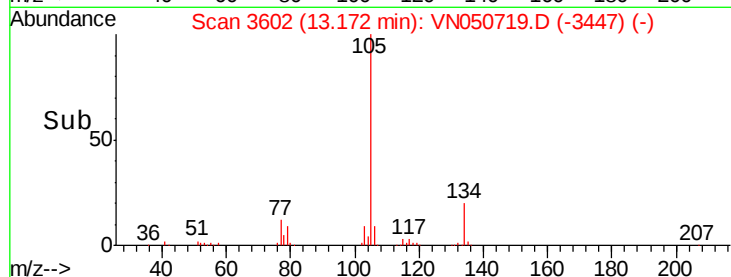
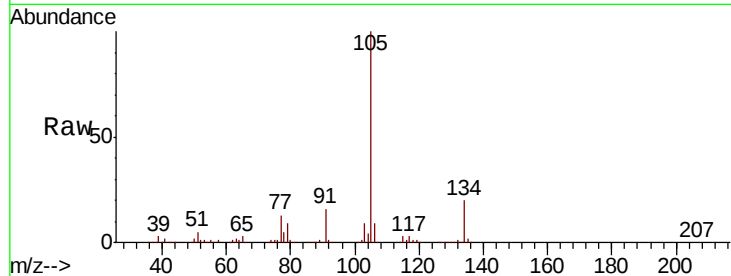
#81
 sec-Butylbenzene
 Concen: 18.95 ug/l
 RT: 13.17 min Scan# 3602
 Delta R.T. -0.00 min
 Lab File: VN050719.D
 Acq: 17 Aug 2018 10:01

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0817WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
105	100	566844		
134	20.1	0.0	40.6	

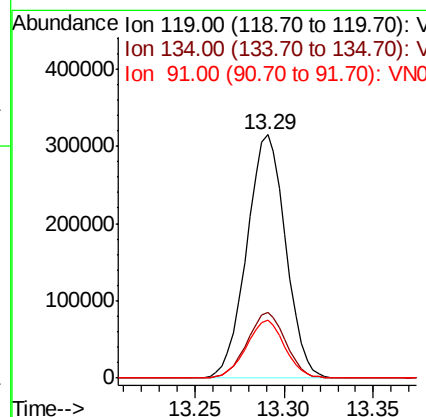
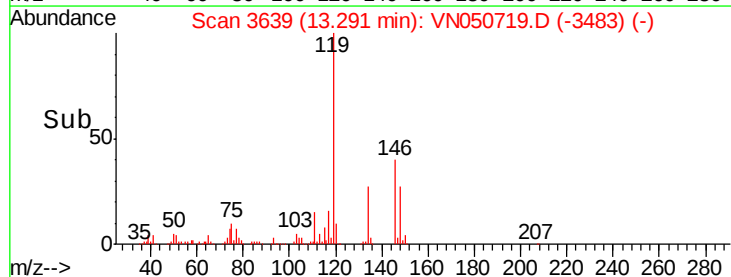
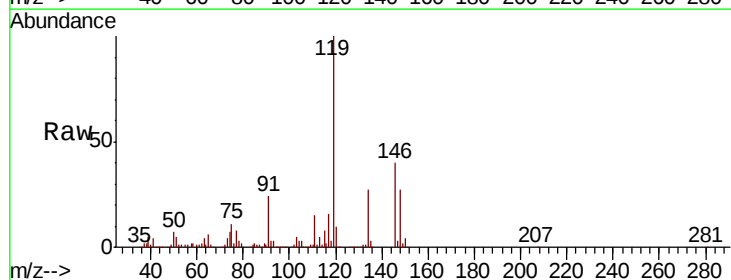
Manual Integrations
 APPROVED

MMDadoda
 8/20/2018 10:52:46 AM



#82
 p-Isopropyltoluene
 Concen: 18.69 ug/l
 RT: 13.29 min Scan# 3639
 Delta R.T. 0.00 min
 Lab File: VN050719.D
 Acq: 17 Aug 2018 10:01

Tgt Ion	Ratio	Resp	Lower	Upper
119	100	477207		
134	26.9	0.0	52.2	
91	23.5	0.0	45.6	





#83

1,3-Dichlorobenzene

Concen: 18.42 ug/l

RT: 13.28 min Scan# 3637

Delta R.T. 0.00 min

Lab File: VN050719.D

Acq: 17 Aug 2018 10:01

Instrument :

MSVOA_N

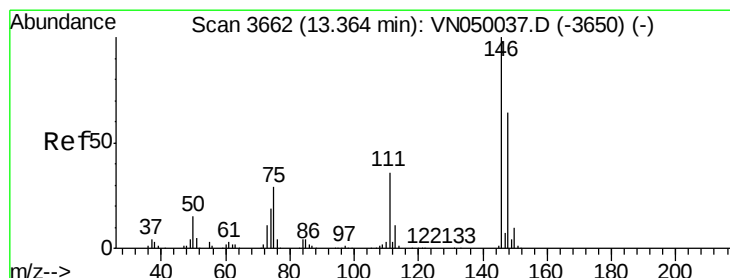
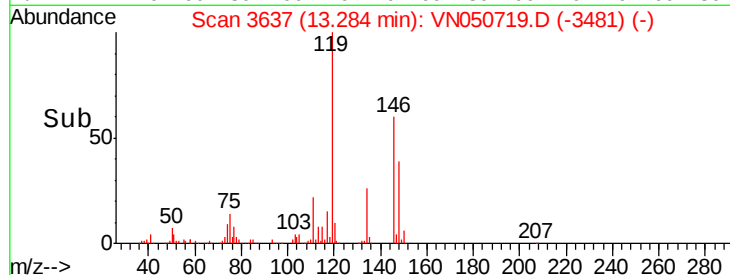
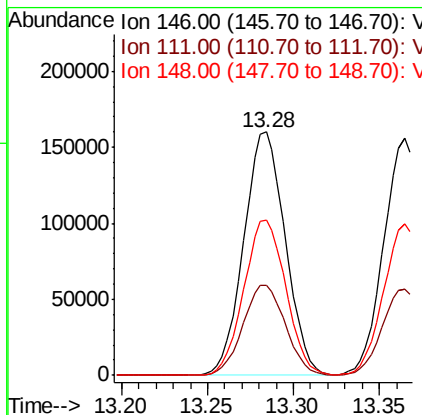
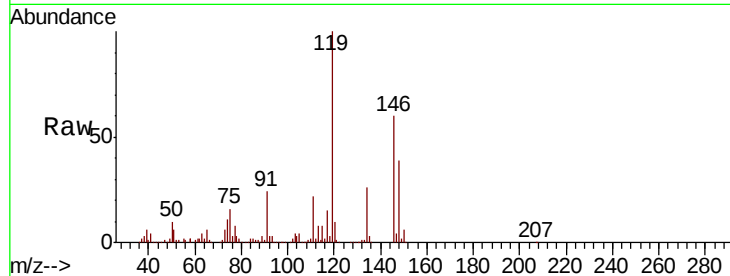
ClientSampleId :

VN0817WBSD01

Tot Ion:	146	Resp:	268016
Ion Ratio	Lower	Upper	
146	100		
111	37.8	19.1	57.1
148	64.5	31.9	95.9

Manual Integrations
APPROVED

MMDadoda
8/20/2018 10:52:46 AM



#84

1,4-Dichlorobenzene

Concen: 18.13 ug/l

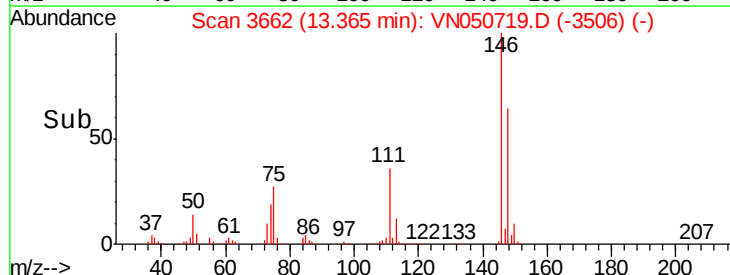
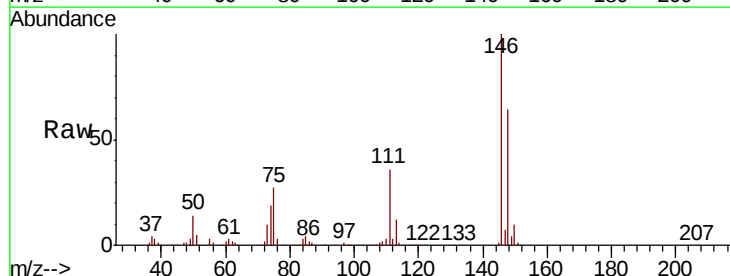
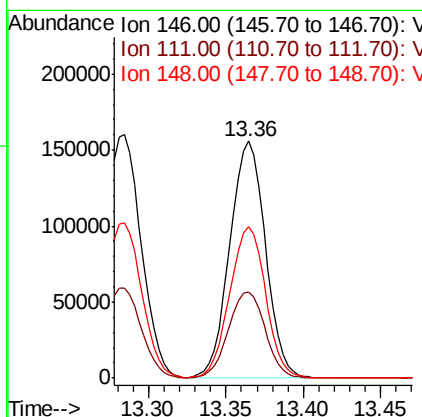
RT: 13.36 min Scan# 3662

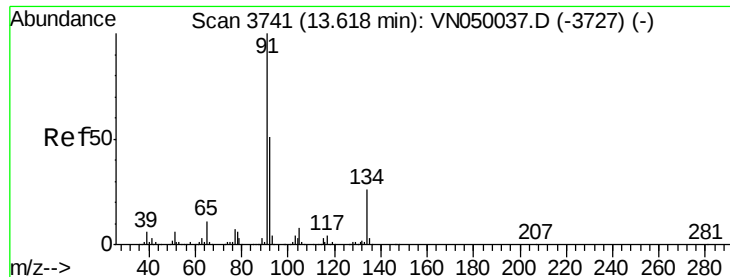
Delta R.T. 0.00 min

Lab File: VN050719.D

Acq: 17 Aug 2018 10:01

Tgt Ion:	146	Resp:	249239
Ion Ratio	Lower	Upper	
146	100		
111	37.4	17.9	53.8
148	64.4	32.4	97.0





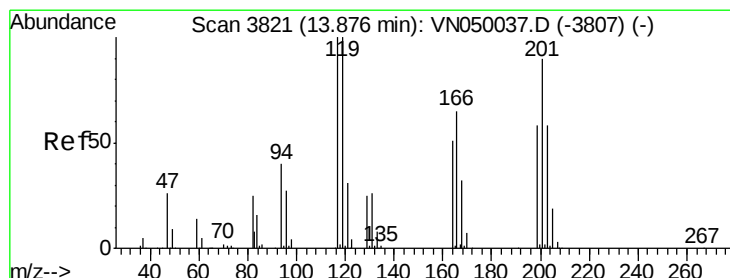
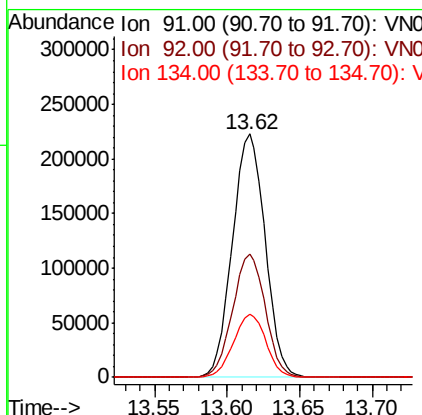
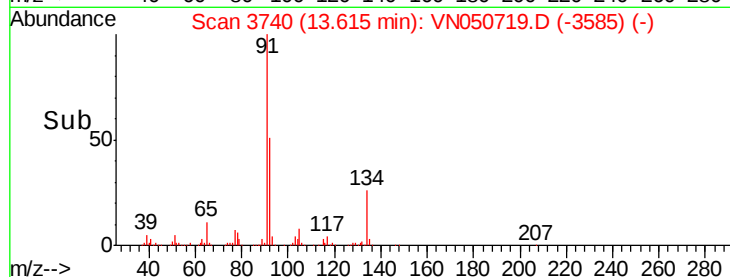
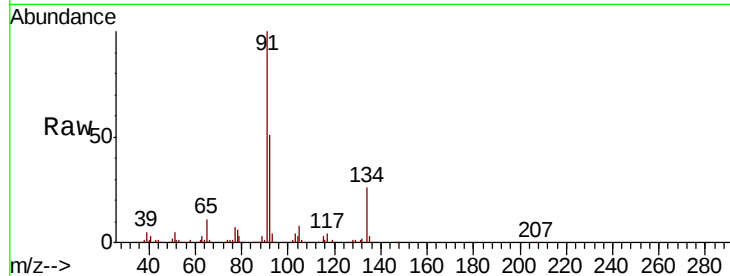
#85
n-Butylbenzene
Concen: 16.89 ug/l
RT: 13.62 min Scan# 3740
Delta R.T. -0.00 min
Lab File: VN050719.D
Acq: 17 Aug 2018 10:01

Instrument :
MSVOA_N
ClientSampleId :
VN0817WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
91	100	349943		
92	50.3	0.0	102.8	
134	25.6	0.0	51.0	

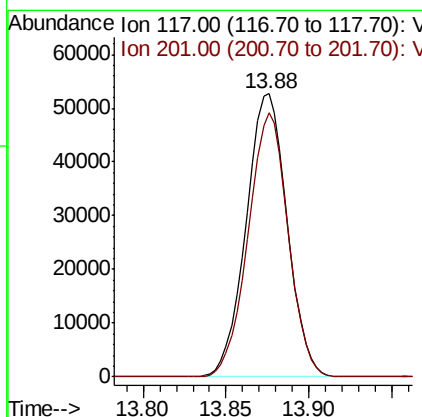
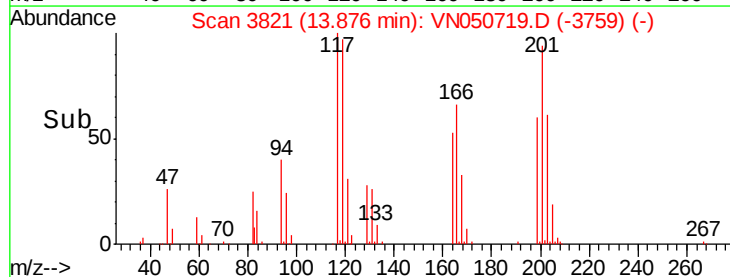
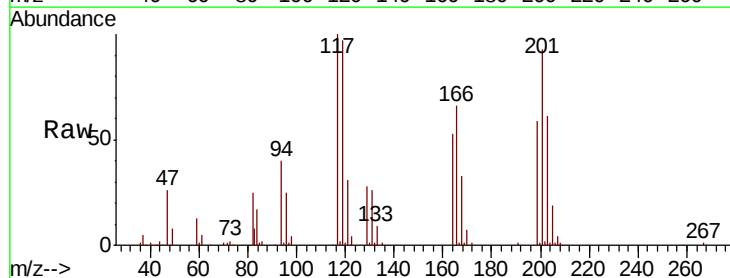
Manual Integrations
APPROVED

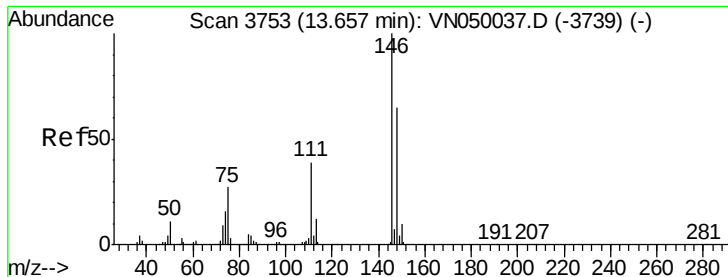
MMDadoda
8/20/2018 10:52:46 AM



#86
Hexachloroethane
Concen: 17.82 ug/l
RT: 13.88 min Scan# 3821
Delta R.T. 0.00 min
Lab File: VN050719.D
Acq: 17 Aug 2018 10:01

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	90926		
201	90.6	46.6	139.7	





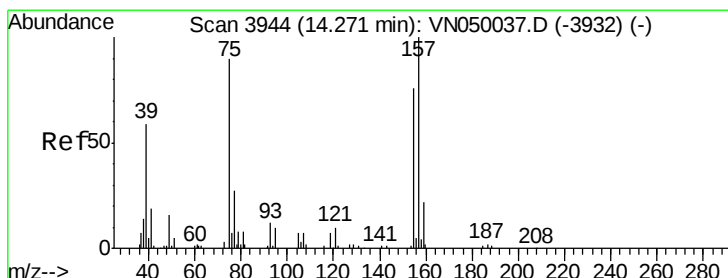
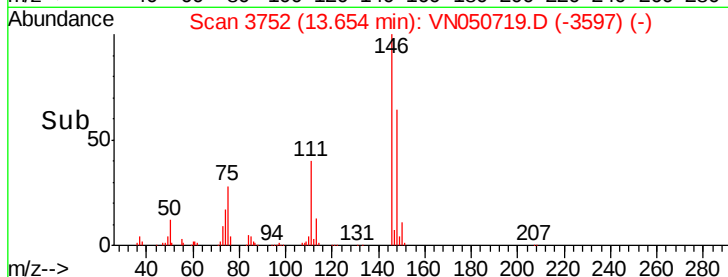
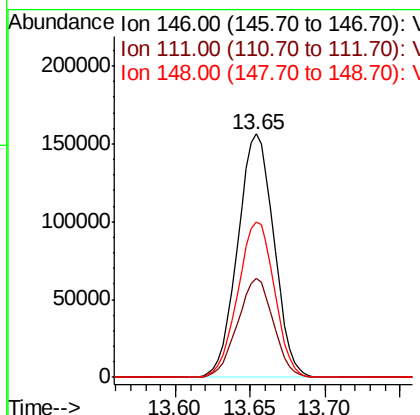
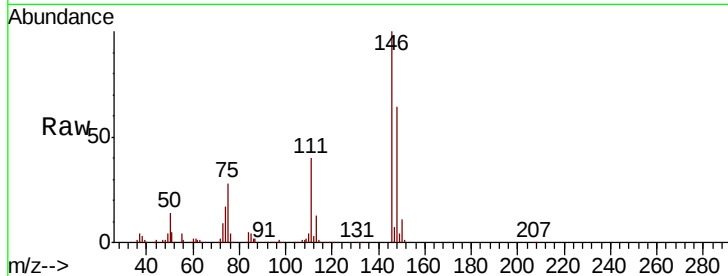
#87
 1,2-Dichlorobenzene
 Concen: 18.52 ug/l
 RT: 13.65 min Scan# 3752
 Delta R.T. -0.00 min
 Lab File: VN050719.D
 Acq: 17 Aug 2018 10:01

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0817WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
146	100	263325		
111	40.1	19.8	59.3	
148	64.5	31.8	95.3	

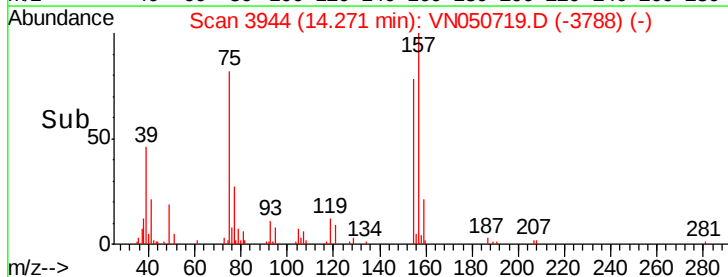
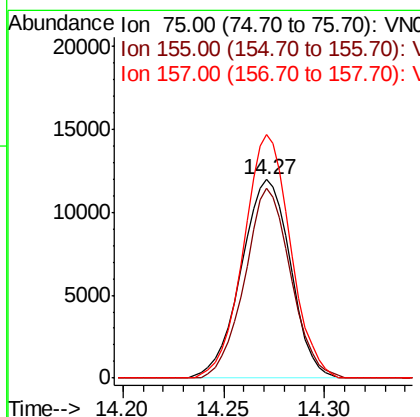
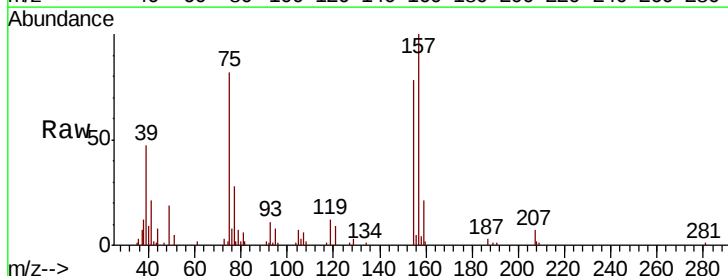
Manual Integrations
 APPROVED

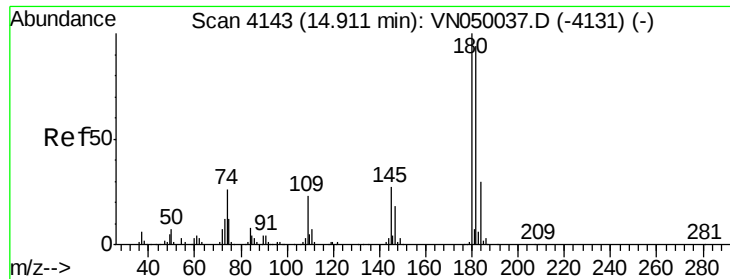
MMDadoda
 8/20/2018 10:52:46 AM



#88
 1,2-Dibromo-3-Chloropropane
 Concen: 15.31 ug/l
 RT: 14.27 min Scan# 3944
 Delta R.T. 0.00 min
 Lab File: VN050719.D
 Acq: 17 Aug 2018 10:01

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	20534		
155	88.8	73.0	109.6	
157	116.2	94.9	142.3	





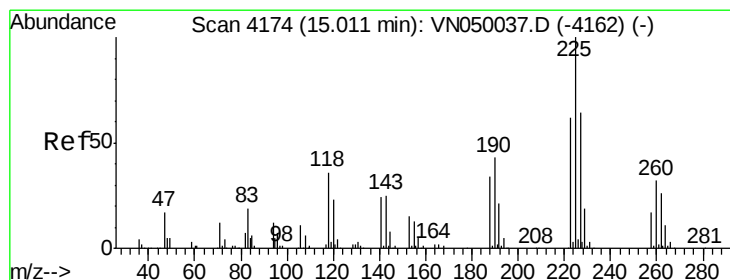
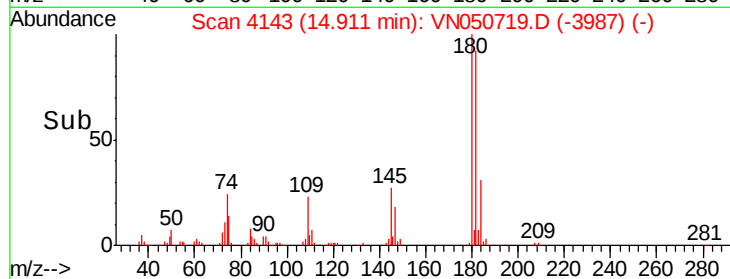
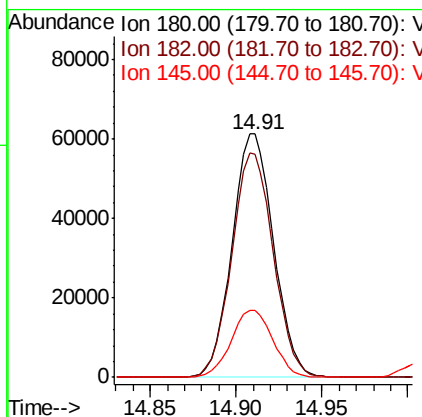
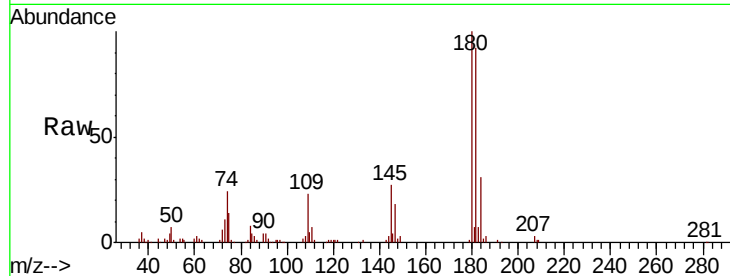
#89
 1,2,4-Trichlorobenzene
 Concen: 15.15 ug/l
 RT: 14.91 min Scan# 4143
 Delta R.T. 0.00 min
 Lab File: VN050719.D
 Acq: 17 Aug 2018 10:01

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0817WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
180	100	102872		
182	92.3	76.7	115.1	
145	27.9	23.4	35.0	

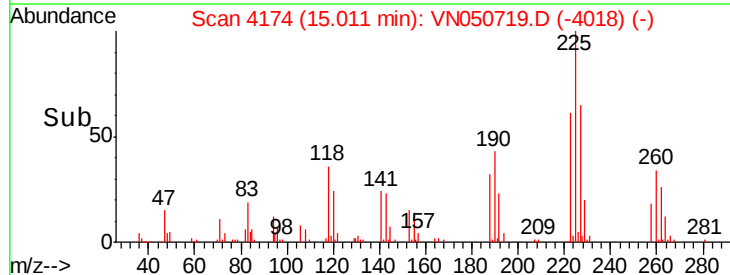
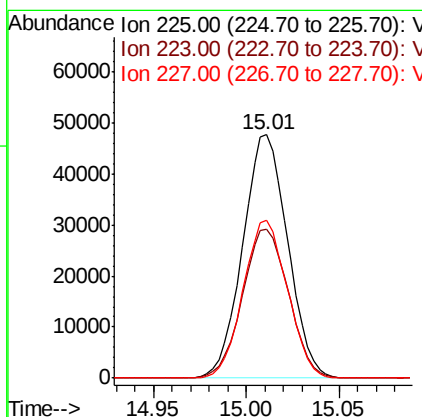
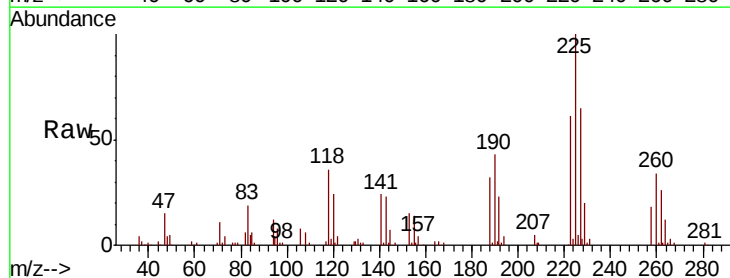
Manual Integrations
 APPROVED

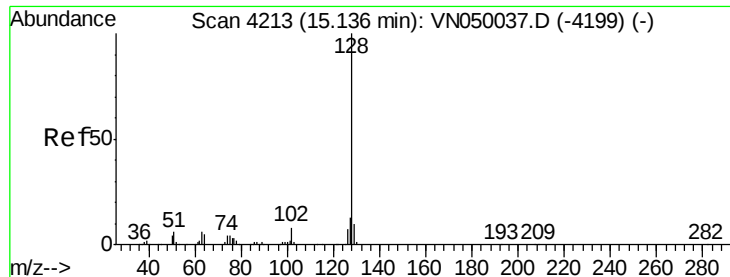
MMDadoda
 8/20/2018 10:52:46 AM



#90
 Hexachlorobutadiene
 Concen: 17.97 ug/l
 RT: 15.01 min Scan# 4174
 Delta R.T. 0.00 min
 Lab File: VN050719.D
 Acq: 17 Aug 2018 10:01

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	80468		
223	62.6	0.0	124.4	
227	63.4	0.0	133.0	





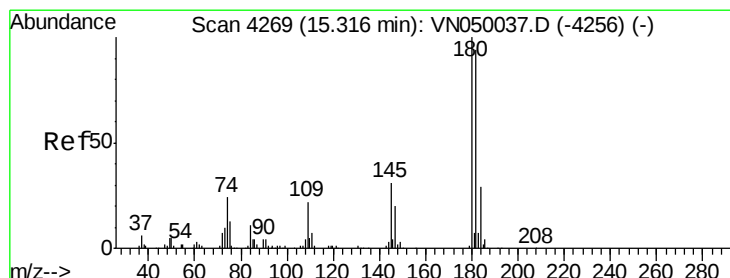
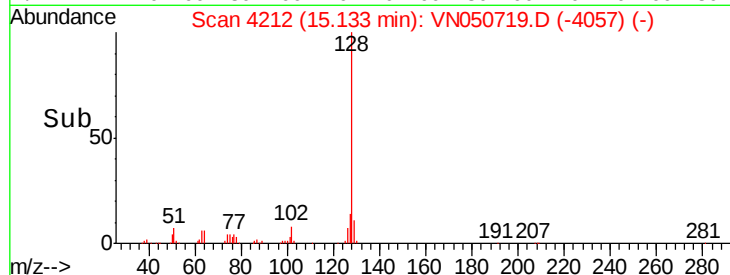
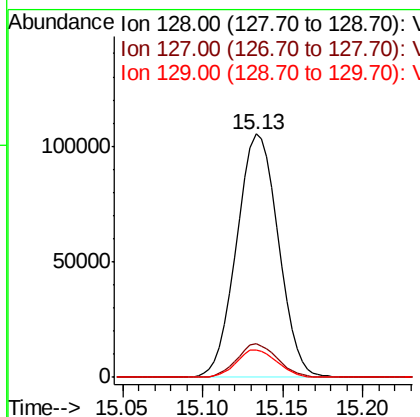
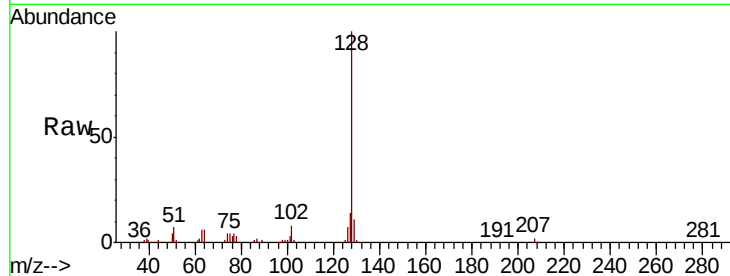
#91
Naphthalene
Concen: 16.45 ug/l
RT: 15.13 min Scan# 4212
Delta R.T. -0.00 min
Lab File: VN050719.D
Acq: 17 Aug 2018 10:01

Instrument :
MSVOA_N
ClientSampleId :
VN0817WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
128	100	187544		
127	13.4		10.2	15.4
129	10.9		9.0	13.4

Manual Integrations
APPROVED

MMDadoda
8/20/2018 10:52:46 AM



#92
1,2,3-Trichlorobenzene
Concen: 14.99 ug/l
RT: 15.31 min Scan# 4268
Delta R.T. -0.00 min
Lab File: VN050719.D
Acq: 17 Aug 2018 10:01

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	103521		
182	96.3		0.0	188.8
145	30.6		0.0	60.8

