

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN011819\
 Data File : VN053470.D
 Acq On : 18 Jan 2019 14:23
 Operator : JC/SP
 Sample : VN0118WBS02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 13 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0118WBS02

Manual Integrations
 APPROVED

MMDadoda
 1/21/2019 10:48:11 AM

Quant Time: Jan 19 00:38:34 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N011519W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 16 03:10:53 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	833670	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1225239	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1108839	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	539445	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	412644	50.08	ug/l	0.00
Spiked Amount			Recovery	=	100.16%	
35) Dibromofluoromethane	7.59	113	365418	52.26	ug/l	0.00
Spiked Amount			Recovery	=	104.52%	
50) Toluene-d8	10.09	98	1503792	50.85	ug/l	0.00
Spiked Amount			Recovery	=	101.70%	
62) 4-Bromofluorobenzene	12.40	95	525871	50.71	ug/l	0.00
Spiked Amount			Recovery	=	101.42%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.85	85	133072	19.853	ug/l	99
3) Chloromethane	2.06	50	174949	18.256	ug/l	99
4) Vinyl Chloride	2.19	62	174179	18.855	ug/l	99
5) Bromomethane	2.58	94	118913	18.761	ug/l	97
6) Chloroethane	2.71	64	103120	18.463	ug/l	97
7) Trichlorofluoromethane	3.03	101	239982	19.861	ug/l	99
8) Diethyl Ether	3.42	74	90241	19.885	ug/l	100
9) 1,1,2-Trichlorotrifluoroet	3.77	101	158783	20.750	ug/l	98
10) Methyl Iodide	3.96	142	218033	18.645	ug/l	99
11) Tert butyl alcohol	4.79	59	43953	109.010	ug/l #	88
12) 1,1-Dichloroethene	3.74	96	143635	19.352	ug/l	98
13) Acrolein	3.61	56	58999	90.906	ug/l	99
14) Allyl chloride	4.33	41	235123	19.502	ug/l	99
15) Acrylonitrile	4.99	53	269832	101.689	ug/l	99
16) Acetone	3.82	43	205377	106.234	ug/l	98
17) Carbon Disulfide	4.06	76	416409	18.552	ug/l	100
18) Methyl Acetate	4.33	43	131786	20.233	ug/l	99
19) Methyl tert-butyl Ether	5.05	73	397235	20.142	ug/l	99
20) Methylene Chloride	4.56	84	167990	19.033	ug/l	98
21) trans-1,2-Dichloroethene	5.05	96	156799	19.760	ug/l	97
22) Diisopropyl ether	5.95	45	505359	20.079	ug/l	98
23) Vinyl Acetate	5.90	43	1553588	100.417	ug/l	99
24) 1,1-Dichloroethane	5.85	63	299713	20.144	ug/l	99
25) 2-Butanone	6.84	43	313089	105.093	ug/l	99
26) 2,2-Dichloropropane	6.83	77	223351	19.882	ug/l	100
27) cis-1,2-Dichloroethene	6.83	96	183300	20.200	ug/l	99
28) Bromochloromethane	7.20	49	115363	17.600	ug/l	99
29) Tetrahydrofuran	7.21	42	199445	102.836	ug/l	99
30) Chloroform	7.37	83	293852	20.271	ug/l	97
31) Cyclohexane	7.66	56	281031	19.271	ug/l	96
32) 1,1,1-Trichloroethane	7.57	97	244942	19.919	ug/l	99
36) 1,1-Dichloropropene	7.80	75	225974	20.251	ug/l	99
37) Ethyl Acetate	6.93	43	134532	20.956	ug/l	99
38) Carbon Tetrachloride	7.78	117	212282	20.095	ug/l	100

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN011819\
 Data File : VN053470.D
 Acq On : 18 Jan 2019 14:23
 Operator : JC/SP
 Sample : VN0118WBS02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 13 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleID :
 VN0118WBS02

Manual Integrations
 APPROVED

MMDadoda
 1/21/2019 10:48:11 AM

Quant Time: Jan 19 00:38:34 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N011519W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 16 03:10:53 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	279650	20.277	ug/l	97
40) Benzene	8.04	78	684589	20.189	ug/l	99
41) Methacrylonitrile	7.17	41	75003	20.067	ug/l	96
42) 1,2-Dichloroethane	8.13	62	204244	20.676	ug/l	100
43) Isopropyl Acetate	8.16	43	247787	21.466	ug/l	98
44) Trichloroethene	8.84	130	190821	20.293	ug/l	100
45) 1,2-Dichloropropane	9.12	63	182787	20.352	ug/l	99
46) Dibromomethane	9.21	93	104755	20.301	ug/l	99
47) Bromodichloromethane	9.40	83	219144	20.195	ug/l	97
48) Methyl methacrylate	9.20	41	119760	20.093	ug/l	99
49) 1,4-Dioxane	9.20	88	25369	435.830	ug/l	98
51) 4-Methyl-2-Pentanone	9.99	43	669315	106.215	ug/l	100
52) Toluene	10.16	92	427285	20.298	ug/l	99
53) t-1,3-Dichloropropene	10.38	75	222232	20.204	ug/l	98
54) cis-1,3-Dichloropropene	9.84	75	259724	20.143	ug/l	100
55) 1,1,2-Trichloroethane	10.56	97	152010	20.945	ug/l	99
56) Ethyl methacrylate	10.43	69	191104	19.848	ug/l	99
57) 1,3-Dichloropropane	10.71	76	256977	20.468	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.70	63	509768	100.400	ug/l	100
59) 2-Hexanone	10.75	43	469955	106.238	ug/l	100
60) Dibromochloromethane	10.90	129	167302	20.324	ug/l	100
61) 1,2-Dibromoethane	11.01	107	149745	20.401	ug/l	100
64) Tetrachloroethene	10.63	164	210213	20.117	ug/l	99
65) Chlorobenzene	11.43	112	476757	20.313	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.51	131	165684	20.292	ug/l	99
67) Ethyl Benzene	11.51	91	811556	20.289	ug/l	99
68) m/p-Xylenes	11.62	106	630403	41.743	ug/l	99
69) o-Xylene	11.95	106	299676	20.422	ug/l	100
70) Styrene	11.96	104	501480	21.056	ug/l	100
71) Bromoform	12.13	173	115379	20.526	ug/l #	99
73) Isopropylbenzene	12.25	105	808208	20.459	ug/l	100
74) N-amyl acetate	12.07	43	216160	20.526	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.50	83	174226	21.029	ug/l	99
76) 1,2,3-Trichloropropane	12.55	75	150773m	21.209	ug/l	
77) Bromobenzene	12.53	156	212444	20.409	ug/l	99
78) n-propylbenzene	12.59	91	935607	20.633	ug/l	99
79) 2-Chlorotoluene	12.68	91	551237	20.509	ug/l	99
80) 1,3,5-Trimethylbenzene	12.73	105	666031	20.722	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.30	75	51029	19.779	ug/l	97
82) 4-Chlorotoluene	12.77	91	563447	20.556	ug/l	100
83) tert-Butylbenzene	12.99	119	585553	20.627	ug/l	99
84) 1,2,4-Trimethylbenzene	13.04	105	673228	20.773	ug/l	100
85) sec-Butylbenzene	13.17	105	813016	20.883	ug/l	100
86) p-Isopropyltoluene	13.29	119	706739	20.907	ug/l	100
87) 1,3-Dichlorobenzene	13.28	146	375568	20.511	ug/l	99
88) 1,4-Dichlorobenzene	13.36	146	373227	20.320	ug/l	99
89) n-Butylbenzene	13.62	91	591300	20.520	ug/l	100
90) Hexachloroethane	13.88	117	105056	19.815	ug/l	100
91) 1,2-Dichlorobenzene	13.65	146	349445	20.744	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.27	75	22736	21.643	ug/l	96

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN011819\
Data File : VN053470.D
Acq On : 18 Jan 2019 14:23
Operator : JC/SP
Sample : VN0118WBS02
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 13 Sample Multiplier: 28

Instrument :
MSVOA_N
ClientSampleId :
VN0118WBS02

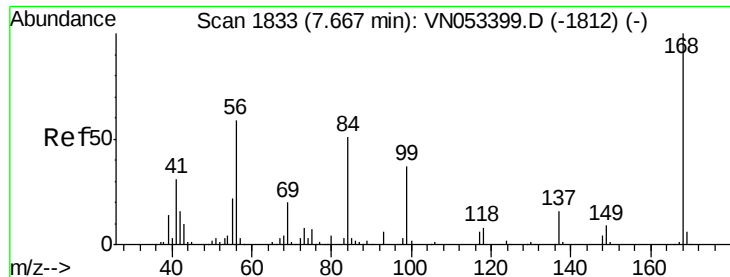
Manual Integrations
APPROVED

MMDadoda
1/21/2019 10:48:11 AM

Quant Time: Jan 19 00:38:34 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N011519W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 16 03:10:53 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	154533	22.407	ug/l	99
94) Hexachlorobutadiene	15.01	225	119650	22.769	ug/l	100
95) Naphthalene	15.13	128	248994	21.528	ug/l	100
96) 1,2,3-Trichlorobenzene	15.32	180	114992	23.397	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN053470.D

Acq: 18 Jan 2019 14:23

Instrument :

MSVOA_N

ClientSampleId :

VN0118WBS02

Tot Ion:168 Resp: 833670

Ion Ratio Lower Upper

168 100

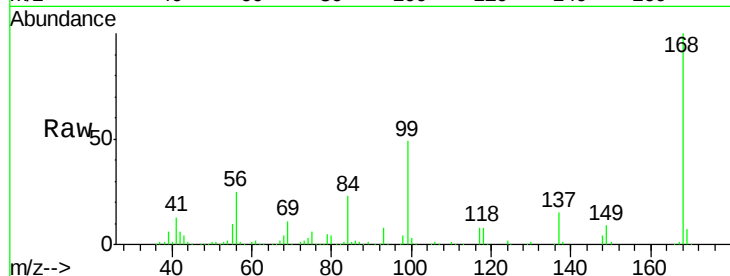
99 49.1 39.1 58.7

Manual Integrations

APPROVED

MMDadoda

1/21/2019 10:48:11 AM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.67

400000

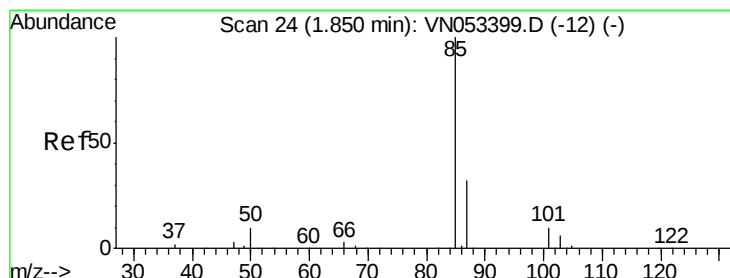
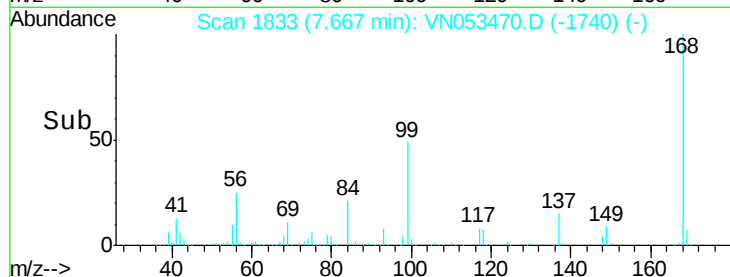
300000

200000

100000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 19.853 ug/l

RT: 1.85 min Scan# 25

Delta R.T. 0.00 min

Lab File: VN053470.D

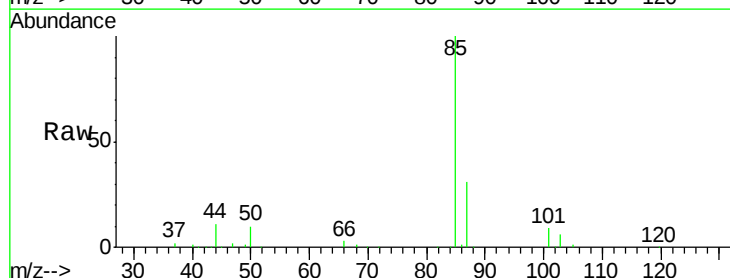
Acq: 18 Jan 2019 14:23

Tgt Ion: 85 Resp: 133072

Ion Ratio Lower Upper

85 100

87 31.5 16.2 48.5



Abundance Ion 84.90 (84.60 to 85.60): VN

Ion 86.90 (86.60 to 87.60): VN

1.85

100000

80000

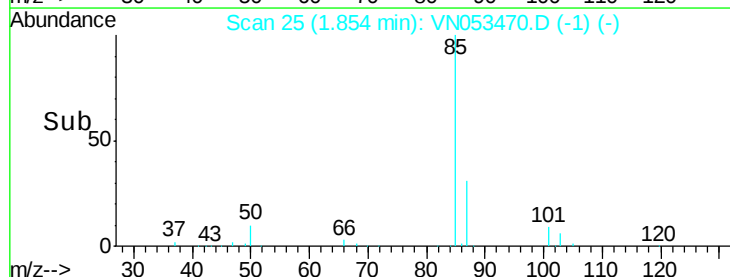
60000

40000

20000

0

Time-->





#3

Chloromethane

Concen: 18.256 ug/l

RT: 2.06 min Scan# 90

Delta R.T. 0.00 min

Lab File: VN053470.D

Acq: 18 Jan 2019 14:23

Instrument :

MSVOA_N

ClientSampleId :

VN0118WBS02

Tot Ion: 50 Resp: 174949

Ion Ratio Lower Upper

50 100

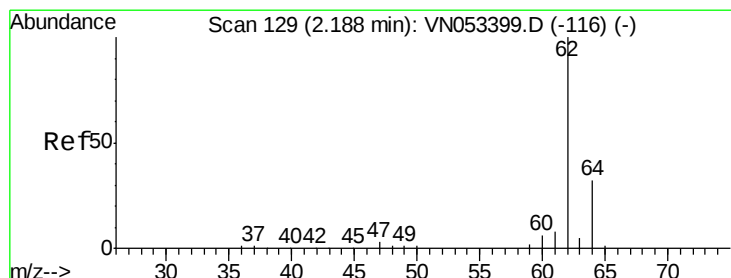
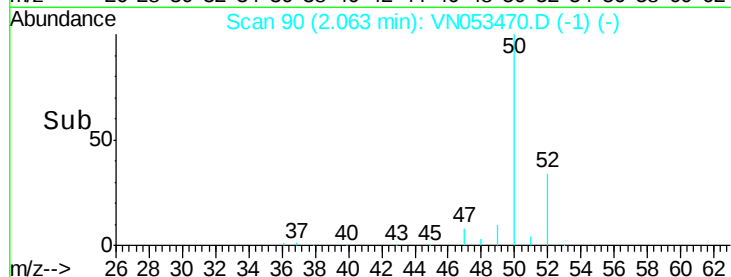
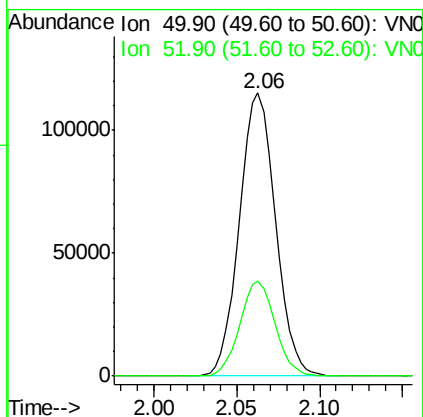
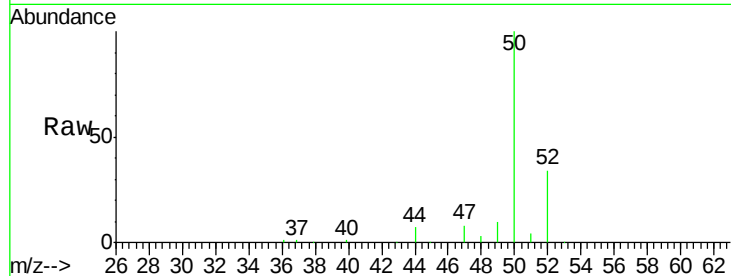
52 33.6 26.6 40.0

Manual Integrations

APPROVED

MMDadoda

1/21/2019 10:48:11 AM



#4

Vinyl Chloride

Concen: 18.855 ug/l

RT: 2.19 min Scan# 130

Delta R.T. 0.00 min

Lab File: VN053470.D

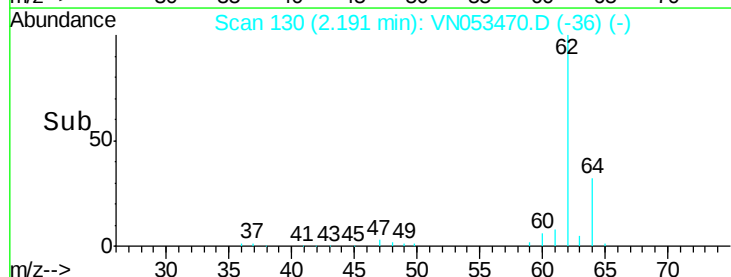
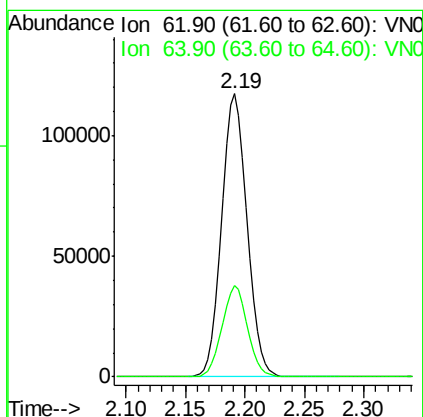
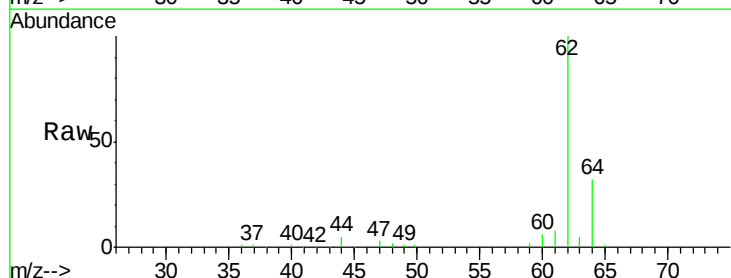
Acq: 18 Jan 2019 14:23

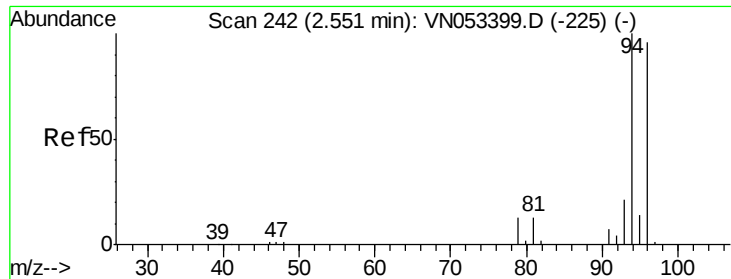
Tgt Ion: 62 Resp: 174179

Ion Ratio Lower Upper

62 100

64 32.1 25.4 38.2





#5

Bromomethane

Concen: 18.761 ug/l

RT: 2.58 min Scan# 250

Delta R.T. 0.03 min

Lab File: VN053470.D

Acq: 18 Jan 2019 14:23

Instrument :

MSVOA_N

ClientSampleId :

VN0118WBS02

Tot Ion: 94 Resp: 118913

Ion Ratio Lower Upper

94 100

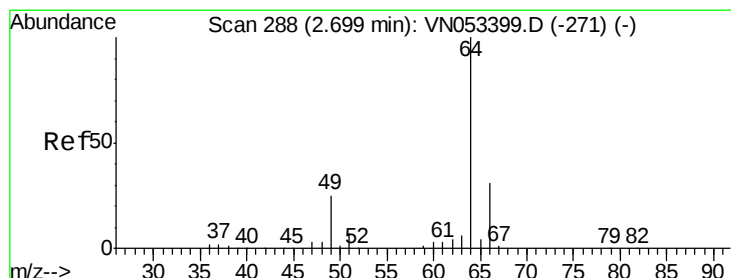
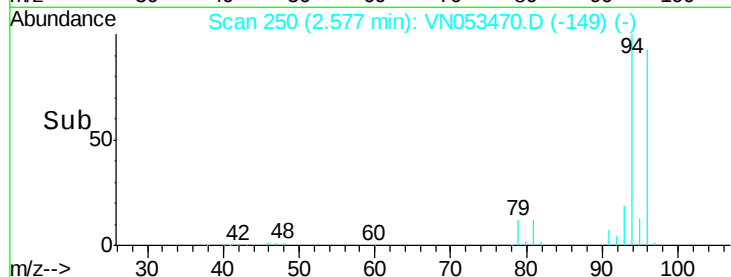
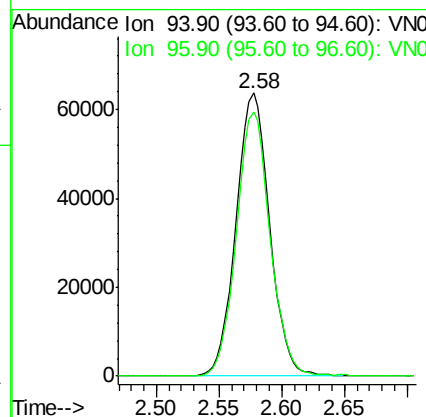
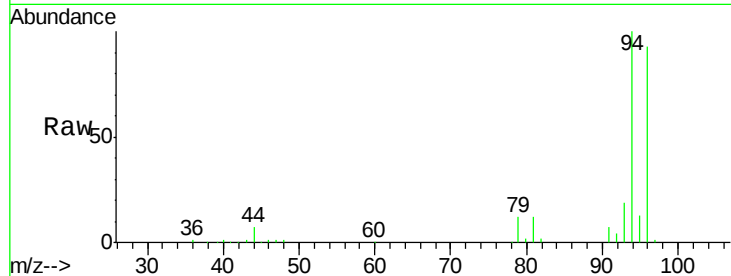
96 93.3 76.8 115.2

Manual Integrations

APPROVED

MMDadoda

1/21/2019 10:48:11 AM



#6

Chloroethane

Concen: 18.463 ug/l

RT: 2.71 min Scan# 292

Delta R.T. 0.01 min

Lab File: VN053470.D

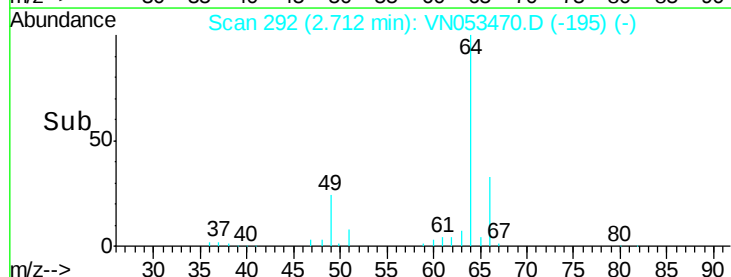
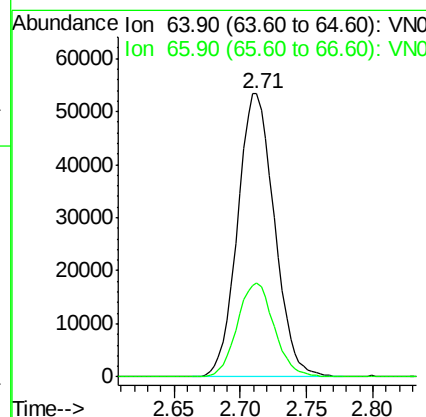
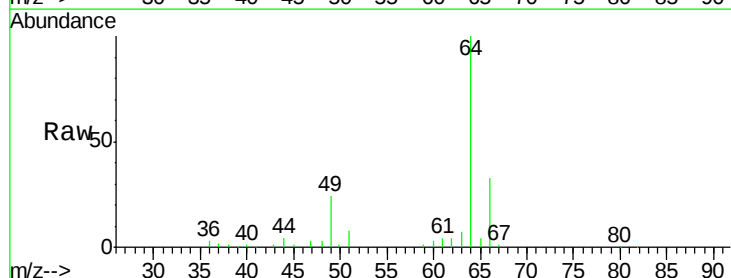
Acq: 18 Jan 2019 14:23

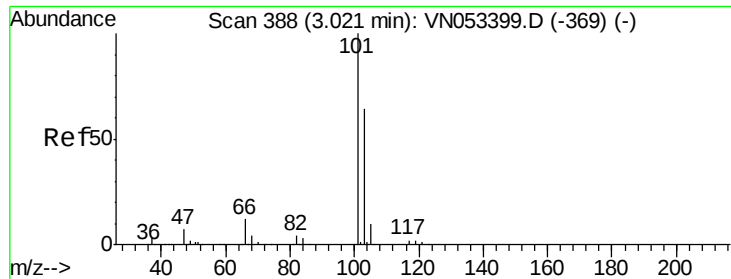
Tgt Ion: 64 Resp: 103120

Ion Ratio Lower Upper

64 100

66 33.0 25.1 37.7





#7

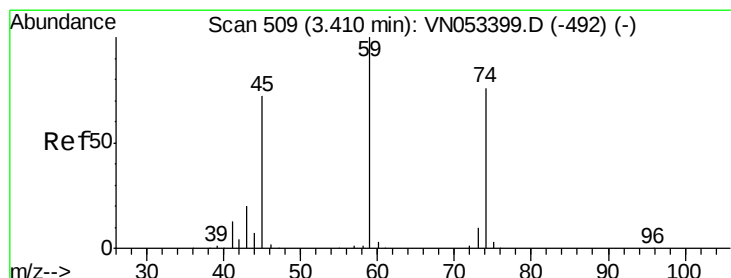
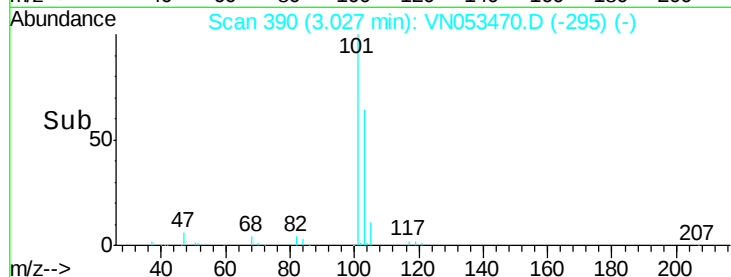
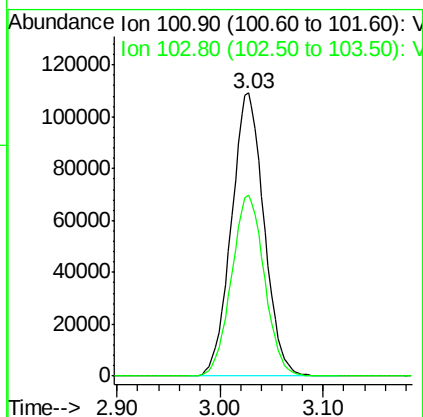
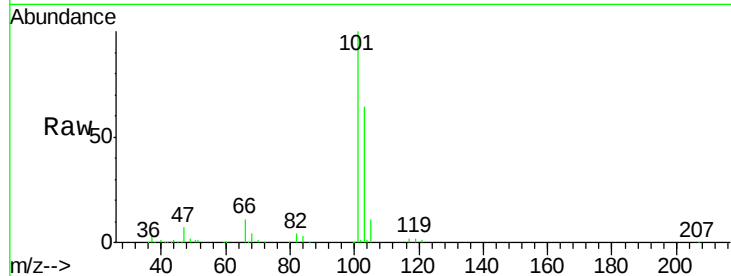
Trichlorofluoromethane
 Concen: 19.861 ug/l
 RT: 3.03 min Scan# 390
 Delta R.T. 0.01 min
 Lab File: VN053470.D
 Acq: 18 Jan 2019 14:23

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0118WBS02

Tot Ion	Ratio	Lower	Upper
101	100		
103	63.8	51.6	77.4

Manual Integrations
 APPROVED

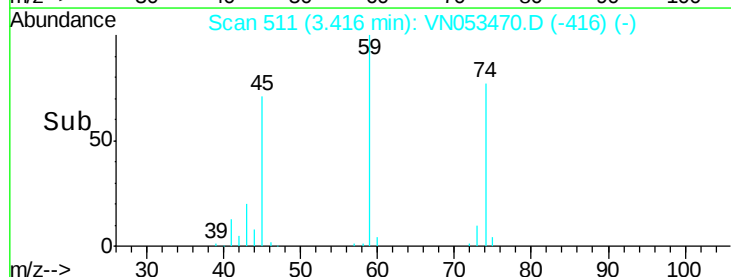
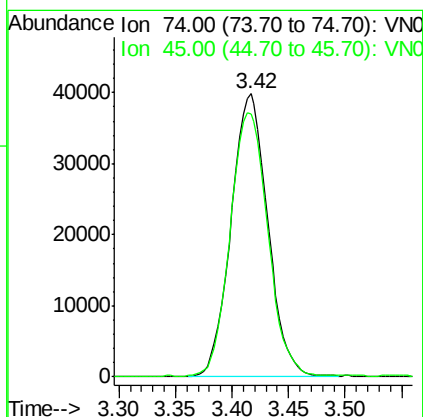
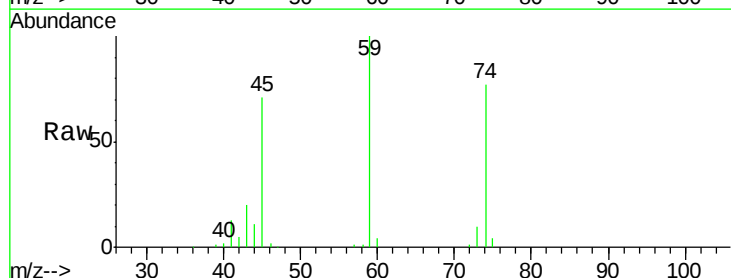
MMDadoda
 1/21/2019 10:48:11 AM

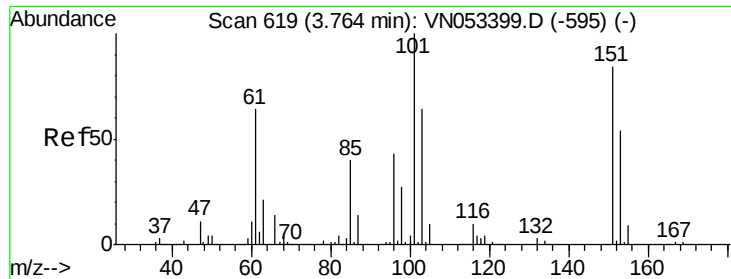


#8

Diethyl Ether
 Concen: 19.885 ug/l
 RT: 3.42 min Scan# 511
 Delta R.T. 0.01 min
 Lab File: VN053470.D
 Acq: 18 Jan 2019 14:23

Tgt Ion	Ratio	Lower	Upper
74	100		
45	96.2	47.9	143.7





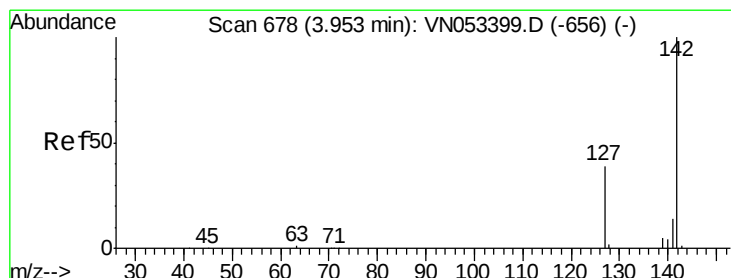
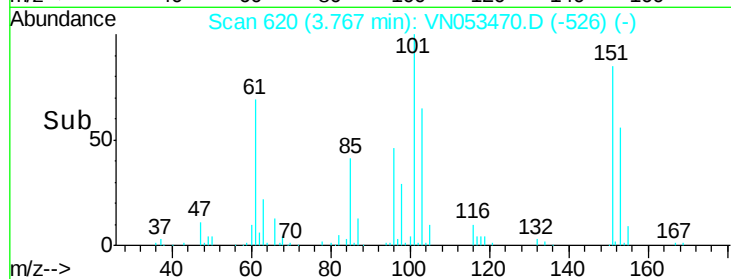
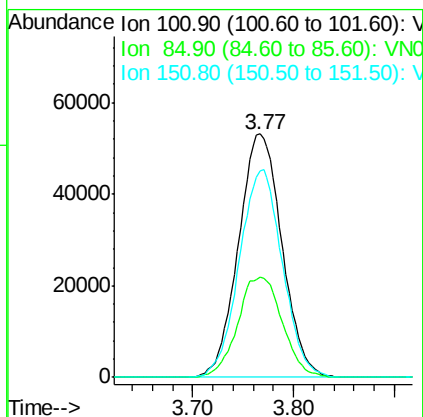
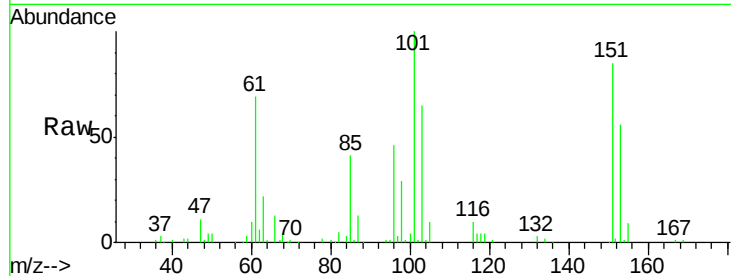
#9
1,1,2-Trichlorotrifluoroethane
Concen: 20.750 ug/l
RT: 3.77 min Scan# 620
Delta R.T. 0.00 min
Lab File: VN053470.D
Acq: 18 Jan 2019 14:23

Instrument :
MSVOA_N
ClientSampleId :
VN0118WBS02

Tot Ion	Ratio	Resp	Lower	Upper
101	100	158783		
85	42.3	32.8	49.2	
151	84.7	66.9	100.3	

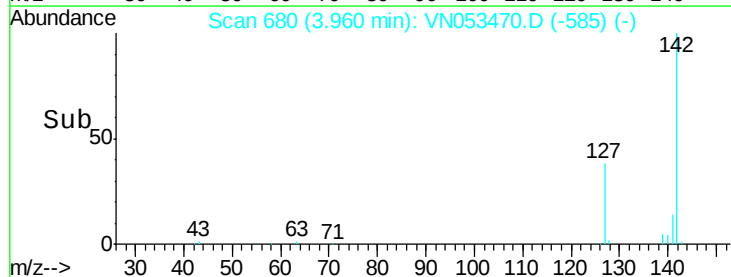
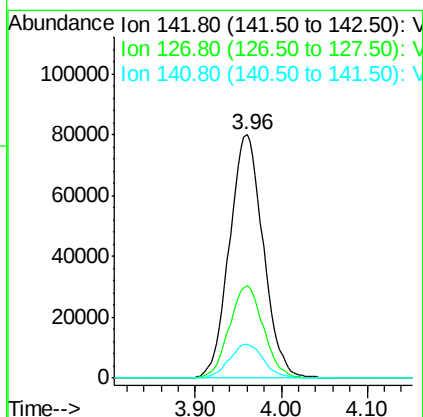
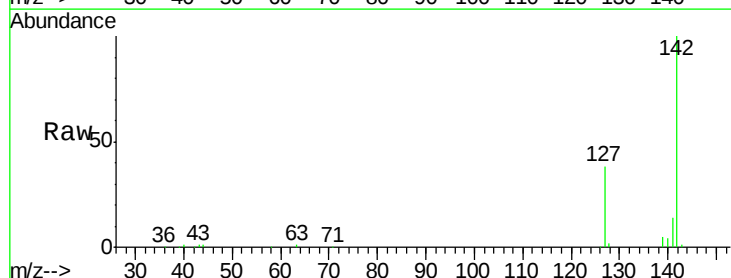
Manual Integrations
APPROVED

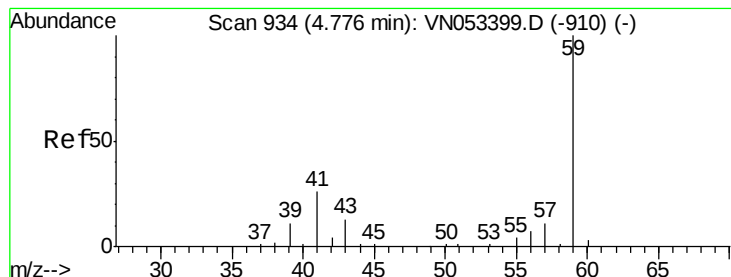
MMDadoda
1/21/2019 10:48:11 AM



#10
Methyl Iodide
Concen: 18.645 ug/l
RT: 3.96 min Scan# 680
Delta R.T. 0.01 min
Lab File: VN053470.D
Acq: 18 Jan 2019 14:23

Tgt Ion	Ratio	Resp	Lower	Upper
142	100	218033		
127	38.3	31.0	46.4	
141	14.1	11.1	16.7	





#11

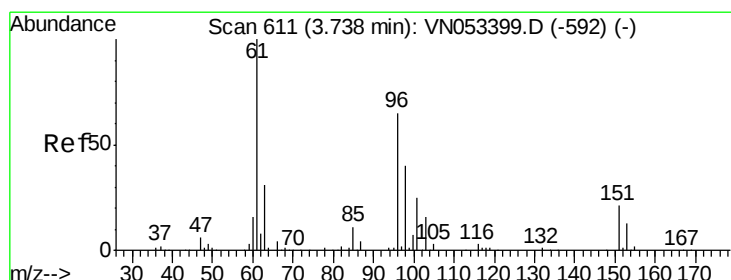
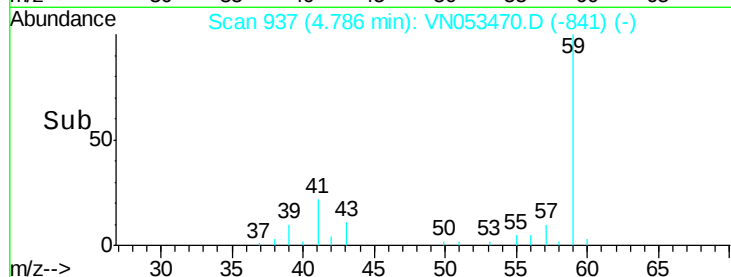
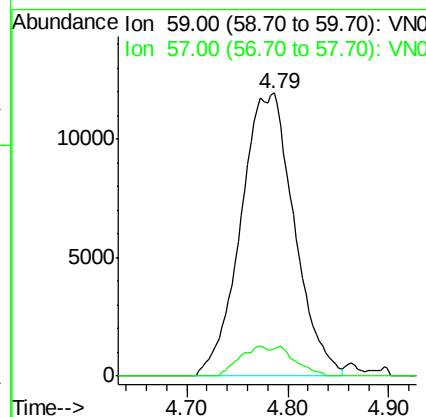
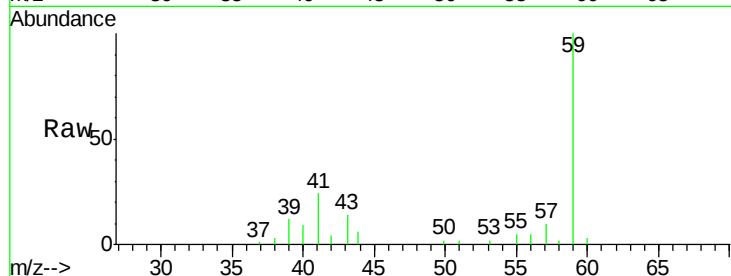
Tert butyl alcohol
Concen: 109.010 ug/l
RT: 4.79 min Scan# 937
Delta R.T. 0.01 min
Lab File: VN053470.D
Acq: 18 Jan 2019 14:23

Instrument :
MSVOA_N
ClientSampled :
VN0118WBS02

Tot Ion	59	57	Ratio	100	6.0	Resp:	43953	Lower	8.2	Upper	12.4#
Ion	59	57	Ratio	100	6.0	Resp:	43953	Lower	8.2	Upper	12.4#

Manual Integrations
APPROVED

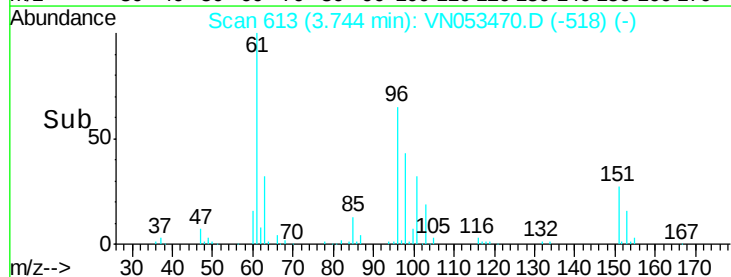
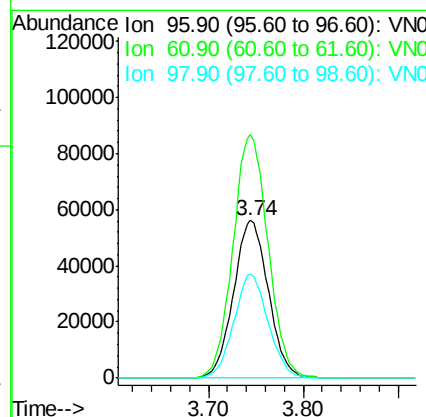
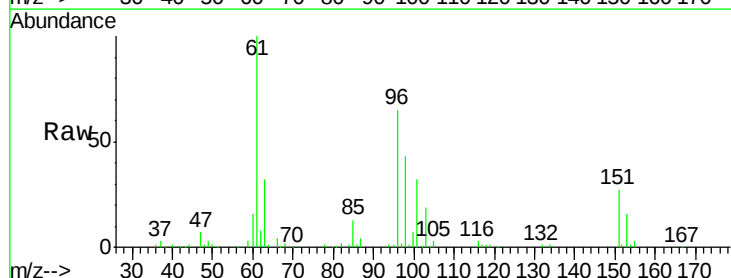
MMDadoda
1/21/2019 10:48:11 AM

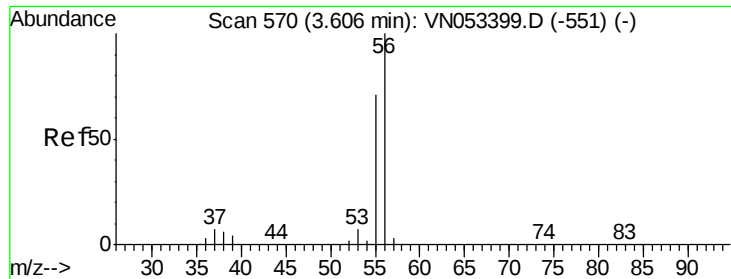


#12

1,1-Dichloroethene
Concen: 19.352 ug/l
RT: 3.74 min Scan# 613
Delta R.T. 0.01 min
Lab File: VN053470.D
Acq: 18 Jan 2019 14:23

Tgt Ion	96	61	98	Ratio	100	154.7	66.1	Resp:	143635	Lower	122.9	49.4	Upper	184.3	74.0
Ion	96	61	98	Ratio	100	154.7	66.1	Resp:	143635	Lower	122.9	49.4	Upper	184.3	74.0





#13

Acrolein

Concen: 90.906 ug/l

RT: 3.61 min Scan# 571

Delta R.T. 0.00 min

Lab File: VN053470.D

Acq: 18 Jan 2019 14:23

Instrument :

MSVOA_N

ClientSampled :

VN0118WBS02

Tot Ion: 56 Resp: 58999

Ion Ratio Lower Upper

56 100

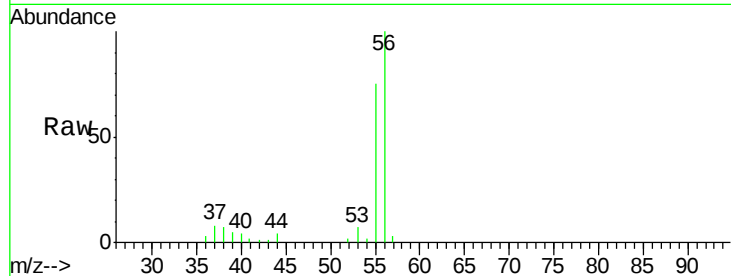
55 72.3 57.4 86.0

Manual Integrations

APPROVED

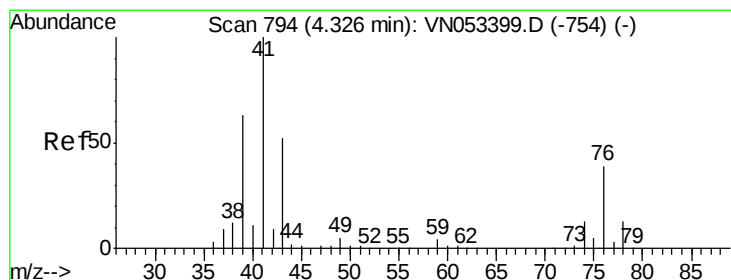
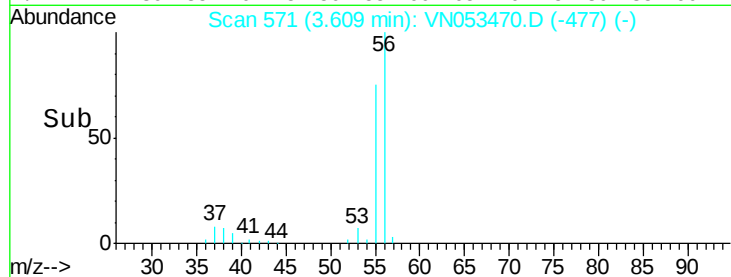
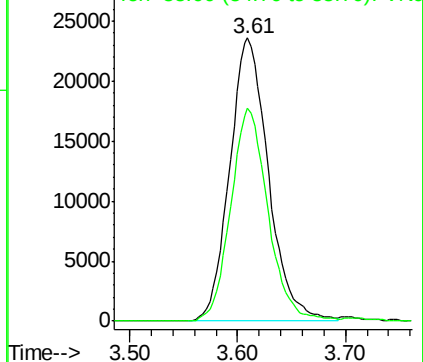
MMDadoda

1/21/2019 10:48:11 AM



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#14

Allyl chloride

Concen: 19.502 ug/l

RT: 4.33 min Scan# 795

Delta R.T. 0.00 min

Lab File: VN053470.D

Acq: 18 Jan 2019 14:23

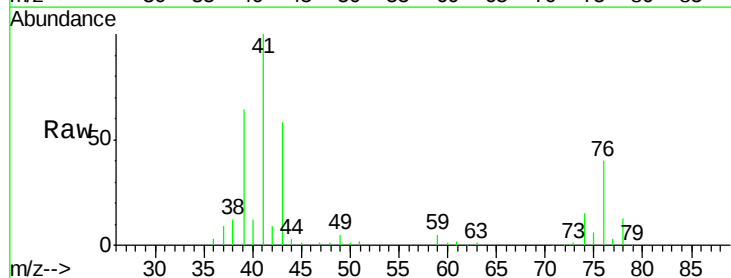
Tgt Ion: 41 Resp: 235123

Ion Ratio Lower Upper

41 100

39 61.7 48.9 73.3

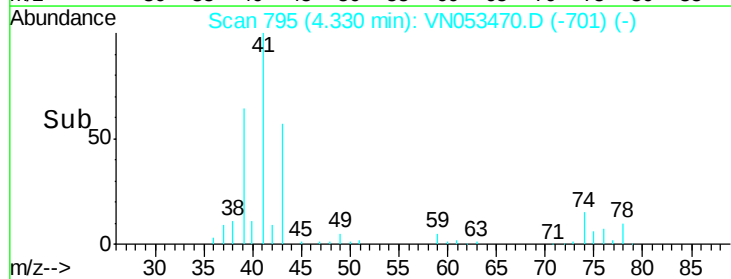
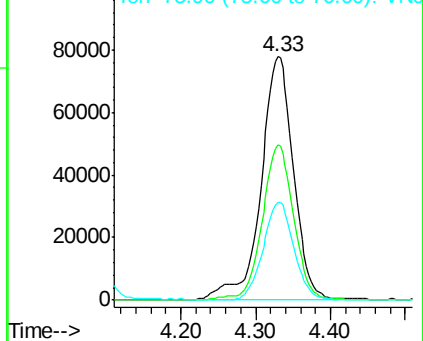
76 37.3 29.4 44.2

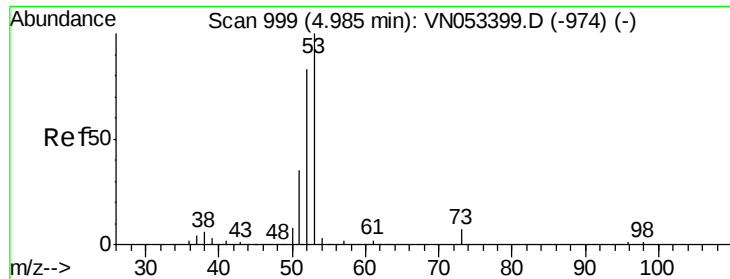


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

Ion 75.90 (75.60 to 76.60): VN0





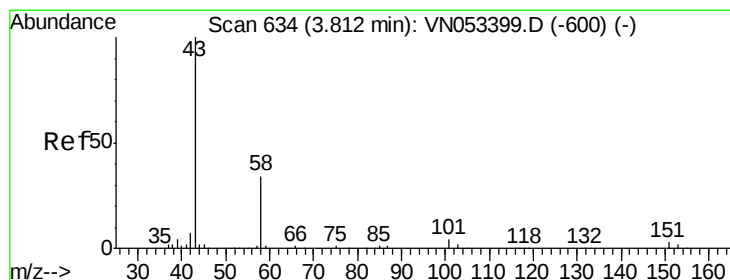
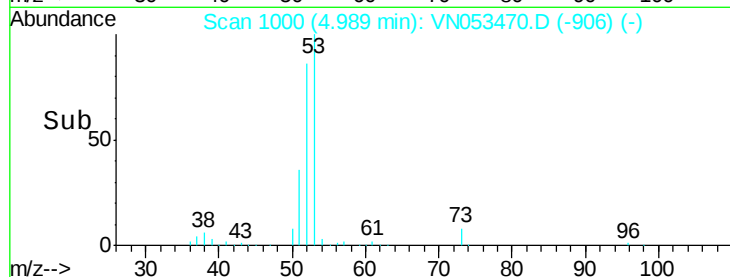
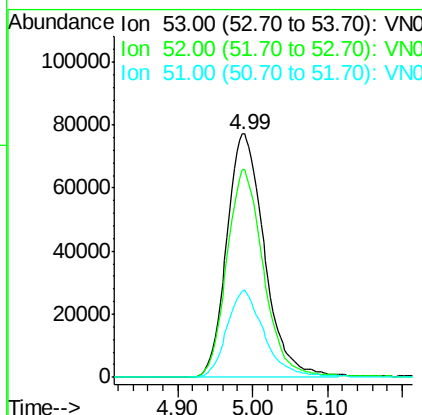
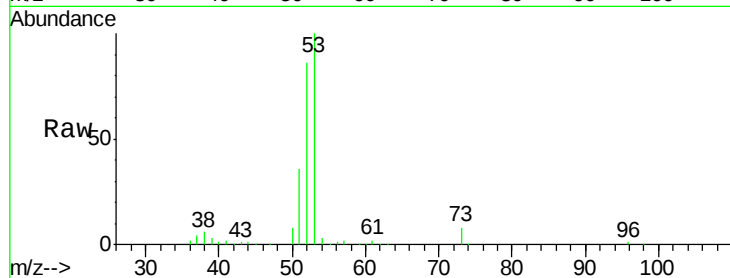
#15
 Acrylonitrile
 Concen: 101.689 ug/l
 RT: 4.99 min Scan# 1000
 Delta R.T. 0.00 min
 Lab File: VN053470.D
 Acq: 18 Jan 2019 14:23

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0118WBS02

Tot Ion	Ion	Ratio	Lower	Upper
53	100			
52	83.1	66.0	99.0	
51	35.3	28.3	42.5	

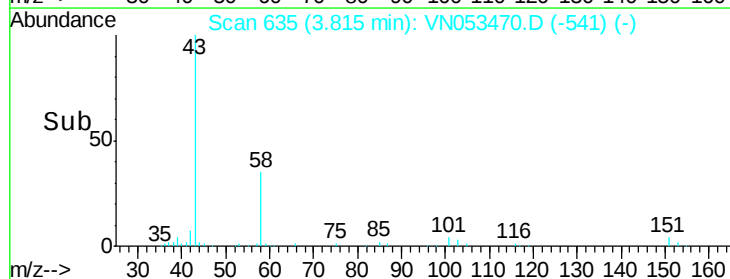
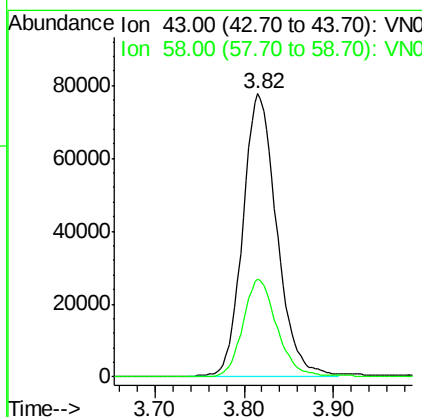
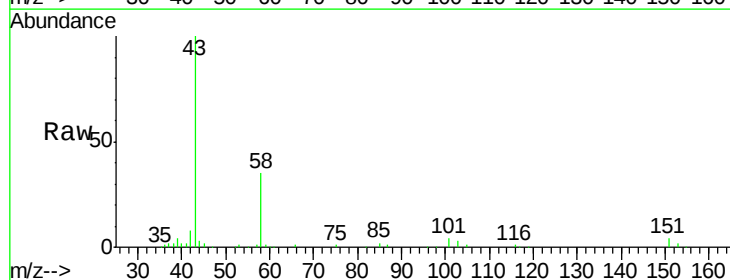
Manual Integrations
 APPROVED

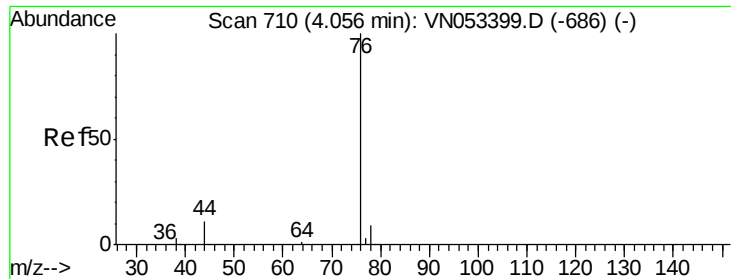
MMDadoda
 1/21/2019 10:48:11 AM



#16
 Acetone
 Concen: 106.234 ug/l
 RT: 3.82 min Scan# 635
 Delta R.T. 0.00 min
 Lab File: VN053470.D
 Acq: 18 Jan 2019 14:23

Tgt Ion	Ion	Ratio	Lower	Upper
43	100			
58	34.8	27.1	40.7	





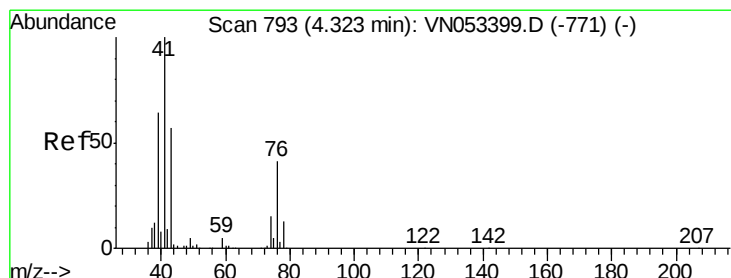
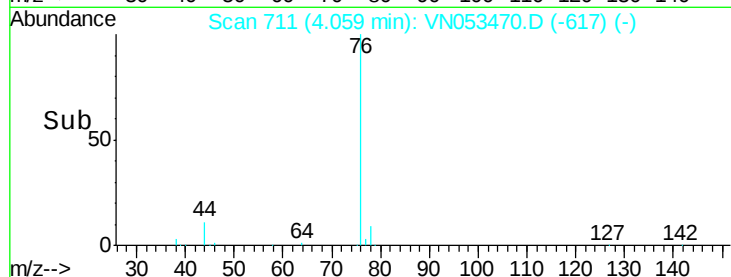
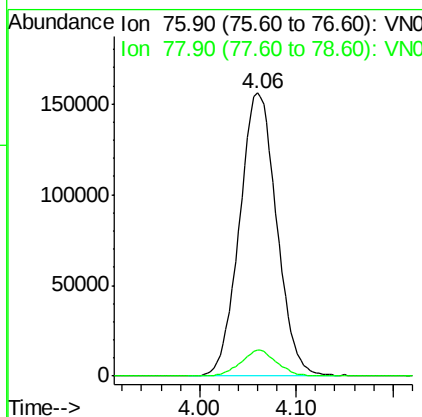
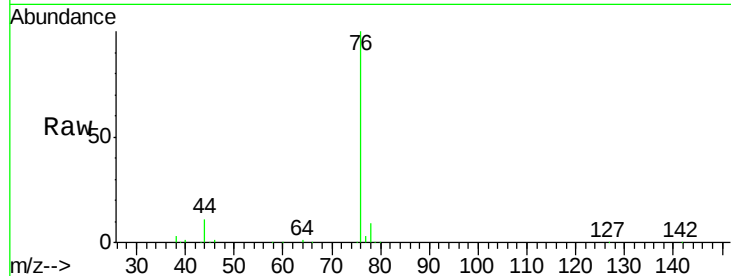
#17
Carbon Disulfide
Concen: 18.552 ug/l
RT: 4.06 min Scan# 711
Delta R.T. 0.00 min
Lab File: VN053470.D
Acq: 18 Jan 2019 14:23

Instrument :
MSVOA_N
ClientSampleId :
VN0118WBS02

Tot Ion: 76 Resp: 416409
Ion Ratio Lower Upper
76 100
78 9.3 7.3 10.9

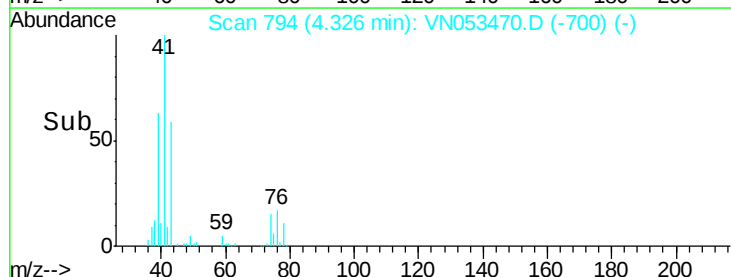
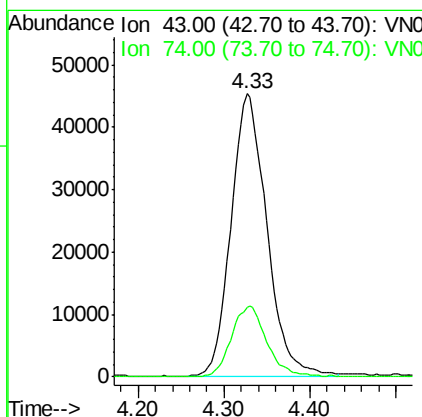
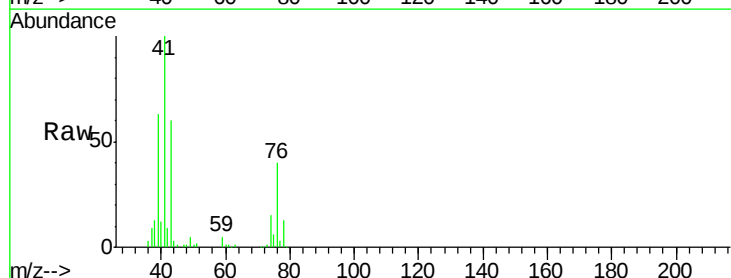
Manual Integrations
APPROVED

MMDadoda
1/21/2019 10:48:11 AM



#18
Methyl Acetate
Concen: 20.233 ug/l
RT: 4.33 min Scan# 794
Delta R.T. 0.00 min
Lab File: VN053470.D
Acq: 18 Jan 2019 14:23

Tgt Ion: 43 Resp: 131786
Ion Ratio Lower Upper
43 100
74 24.7 19.4 29.2





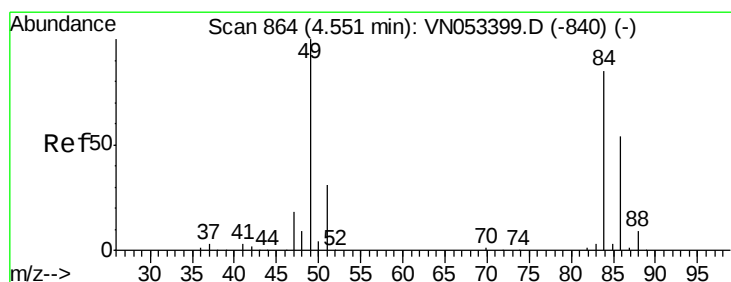
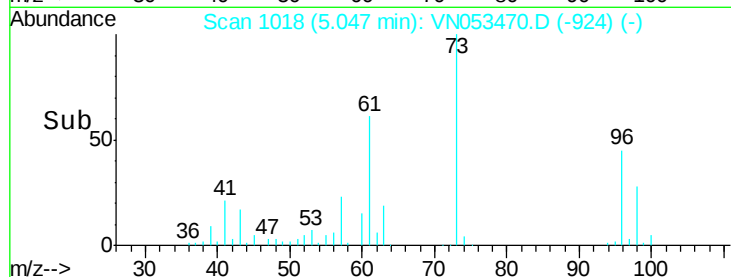
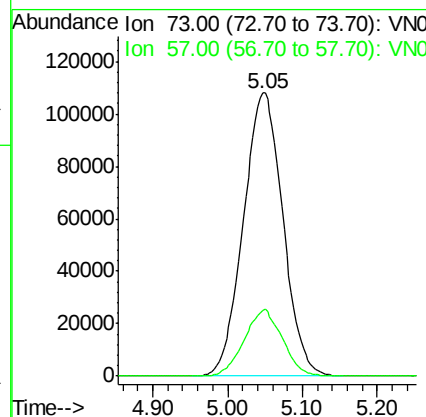
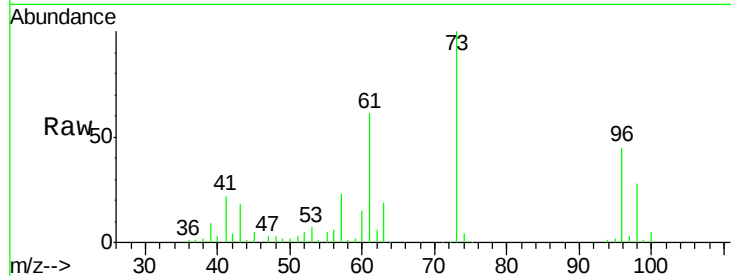
#19
Methvl tert-butvl Ether
Concen: 20.142 ug/l
RT: 5.05 min Scan# 1018
Delta R.T. 0.00 min
Lab File: VN053470.D
Acq: 18 Jan 2019 14:23

Instrument :
MSVOA_N
ClientSampleId :
VN0118WBS02

Tot Ion: 73 Resp: 397235
Ion Ratio Lower Upper
73 100
57 23.4 18.3 27.5

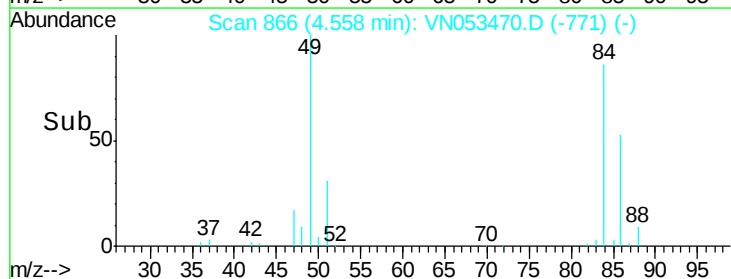
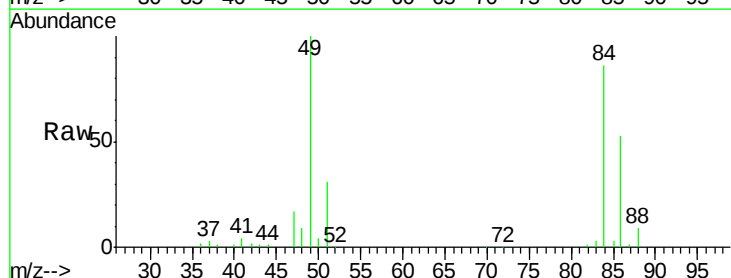
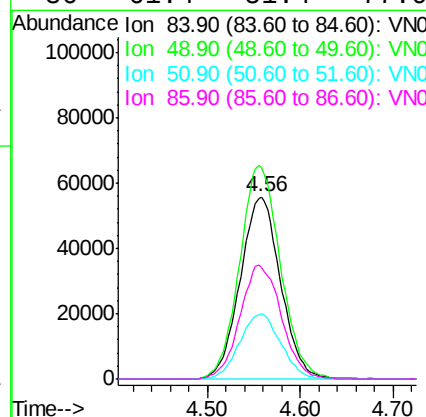
Manual Integrations
APPROVED

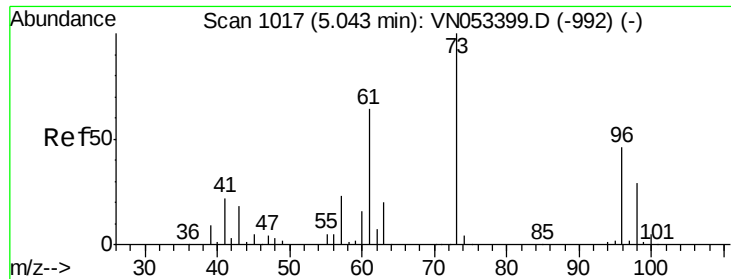
MMDadoda
1/21/2019 10:48:11 AM



#20
Methylene Chloride
Concen: 19.033 ug/l
RT: 4.56 min Scan# 866
Delta R.T. 0.01 min
Lab File: VN053470.D
Acq: 18 Jan 2019 14:23

Tgt Ion: 84 Resp: 167990
Ion Ratio Lower Upper
84 100
49 116.4 94.3 141.5
51 36.0 29.4 44.2
86 61.4 51.4 77.0





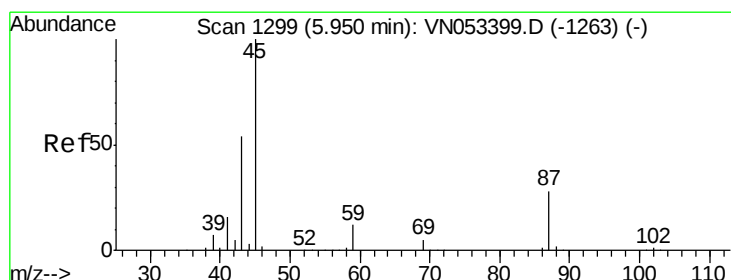
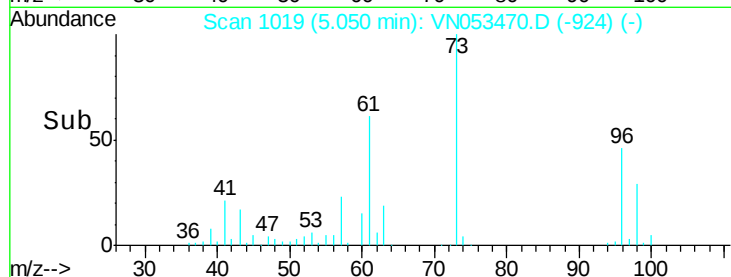
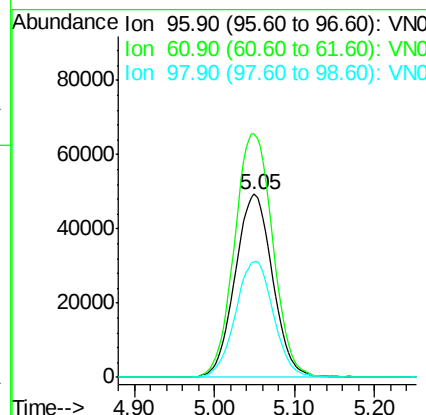
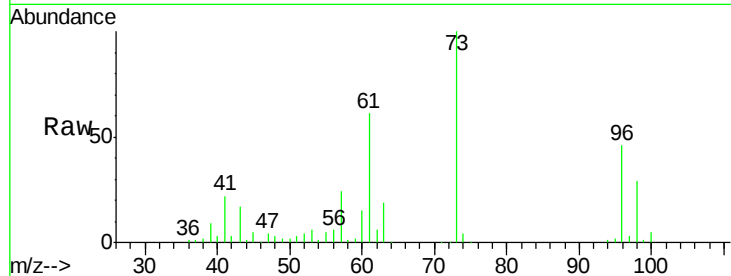
#21
trans-1,2-Dichloroethene
Concen: 19.760 ug/l
RT: 5.05 min Scan# 1019
Delta R.T. 0.01 min
Lab File: VN053470.D
Acq: 18 Jan 2019 14:23

Instrument :
MSVOA_N
ClientSampleId :
VN0118WBS02

Tot Ion	Ratio	Lower	Upper
96	100		
61	132.8	110.1	165.1
98	63.3	50.0	75.0

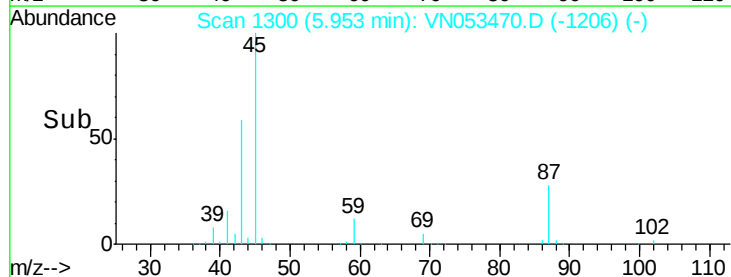
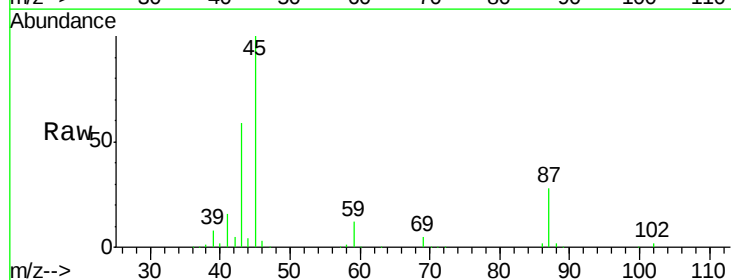
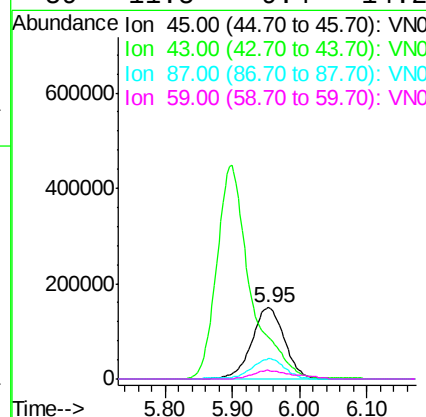
Manual Integrations
APPROVED

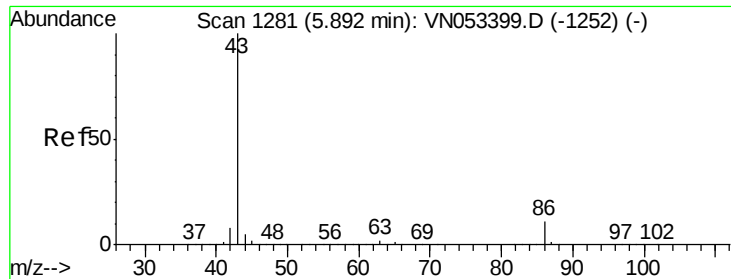
MMDadoda
1/21/2019 10:48:11 AM



#22
Diisopropyl ether
Concen: 20.079 ug/l
RT: 5.95 min Scan# 1300
Delta R.T. 0.00 min
Lab File: VN053470.D
Acq: 18 Jan 2019 14:23

Tgt Ion	Ratio	Lower	Upper
45	100		
43	57.6	44.2	66.4
87	28.0	22.7	34.1
59	11.5	9.4	14.2





#23

Vinyl Acetate

Concen: 100.417 ug/l

RT: 5.90 min Scan# 1283

Delta R.T. 0.01 min

Lab File: VN053470.D

Acq: 18 Jan 2019 14:23

Instrument :

MSVOA_N

ClientSampleId :

VN0118WBS02

Tot Ion: 43 Resp: 1553588

Ion Ratio Lower Upper

43 100

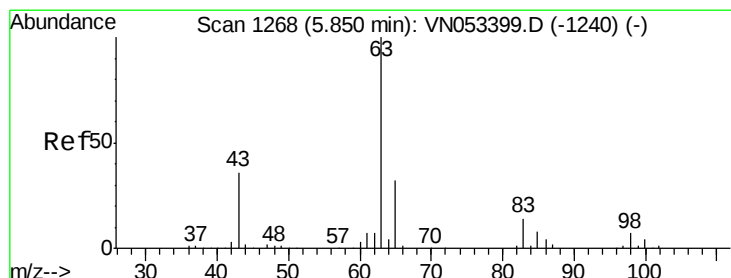
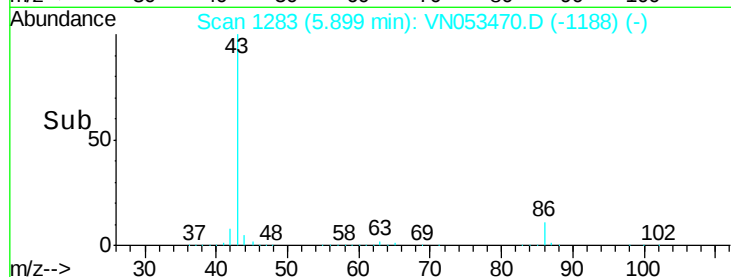
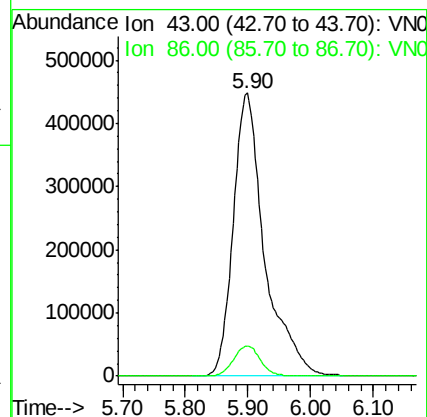
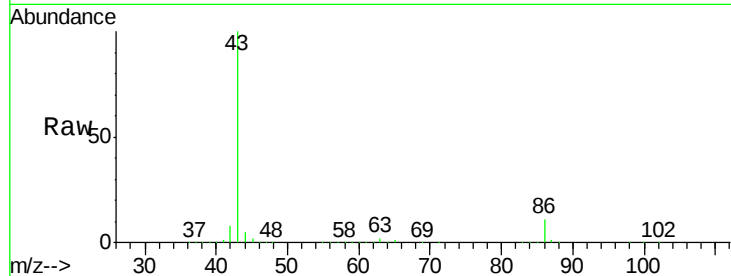
86 10.8 8.4 12.6

Manual Integrations

APPROVED

MMDadoda

1/21/2019 10:48:11 AM



#24

1,1-Dichloroethane

Concen: 20.144 ug/l

RT: 5.85 min Scan# 1269

Delta R.T. 0.00 min

Lab File: VN053470.D

Acq: 18 Jan 2019 14:23

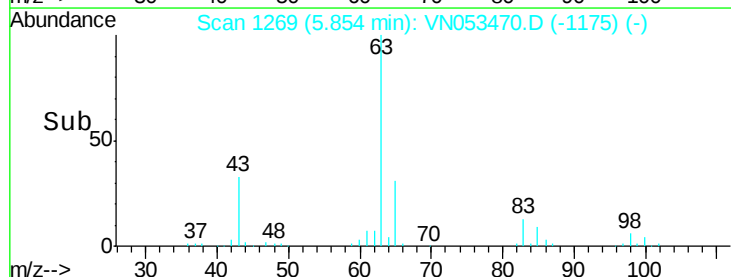
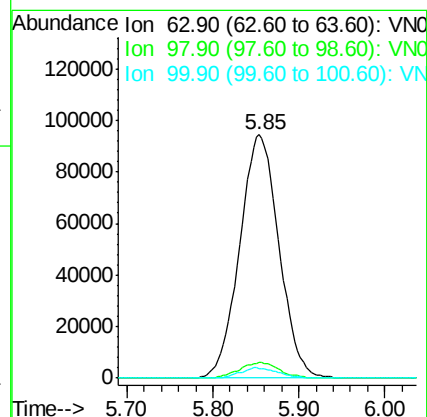
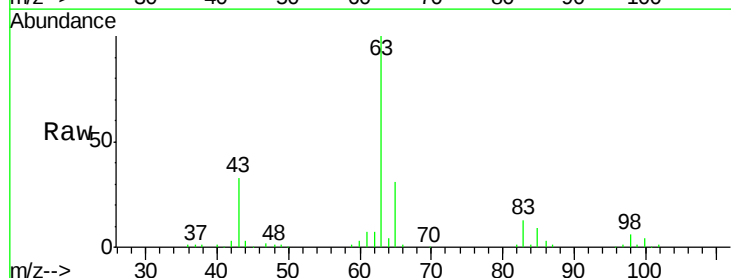
Tgt Ion: 63 Resp: 299713

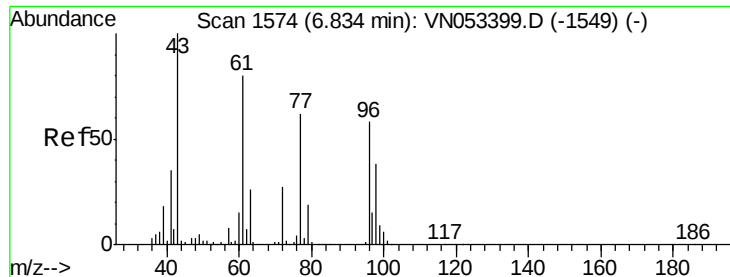
Ion Ratio Lower Upper

63 100

98 6.2 3.3 9.9

100 4.1 2.1 6.5





#25

2-Butanone

Concen: 105.093 ug/l

RT: 6.84 min Scan# 1575

Delta R.T. 0.00 min

Lab File: VN053470.D

Acq: 18 Jan 2019 14:23

Instrument :

MSVOA_N

ClientSampleId :

VN0118WBS02

Tot Ion: 43 Resp: 313089

Ion Ratio Lower Upper

43 100

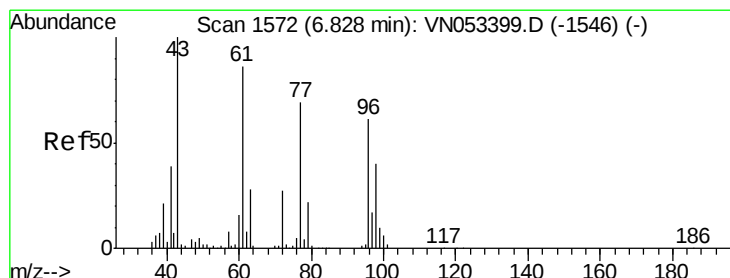
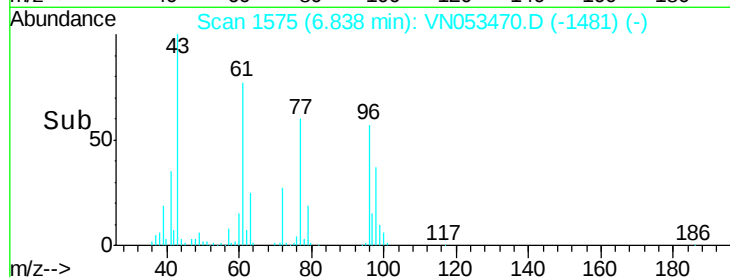
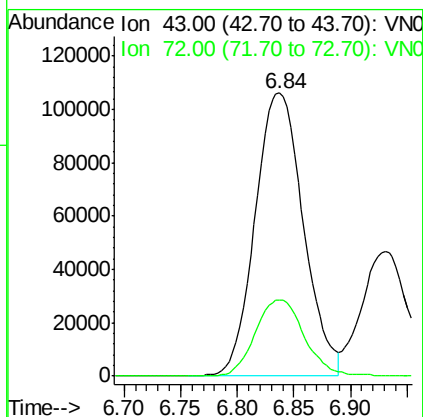
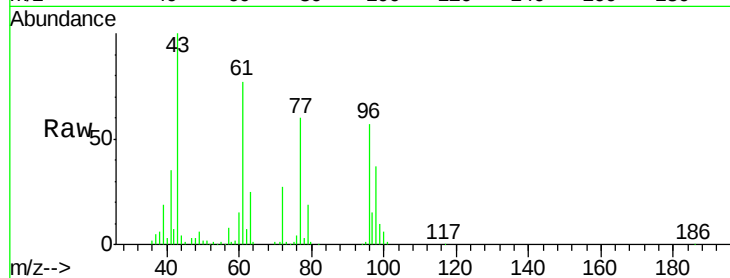
72 27.1 22.0 33.0

Manual Integrations

APPROVED

MMDadoda

1/21/2019 10:48:11 AM



#26

2,2-Dichloropropane

Concen: 19.882 ug/l

RT: 6.83 min Scan# 1572

Delta R.T. 0.00 min

Lab File: VN053470.D

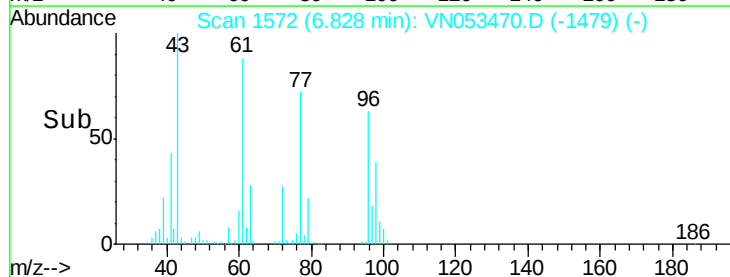
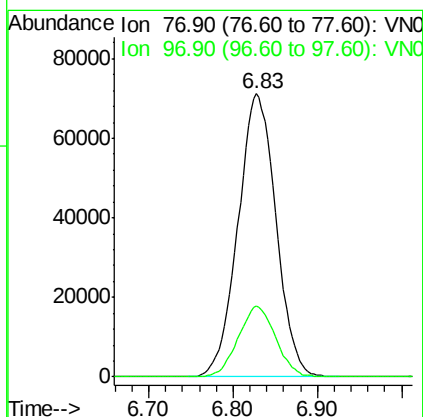
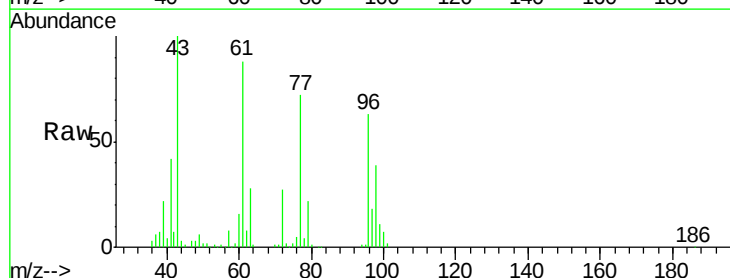
Acq: 18 Jan 2019 14:23

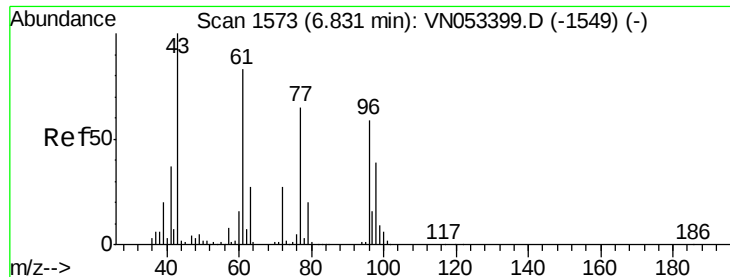
Tgt Ion: 77 Resp: 223351

Ion Ratio Lower Upper

77 100

97 24.5 12.2 36.6





#27

cis-1,2-Dichloroethene

Concen: 20.200 ug/l

RT: 6.83 min Scan# 1573

Delta R.T. 0.00 min

Lab File: VN053470.D

Acq: 18 Jan 2019 14:23

Instrument :

MSVOA_N

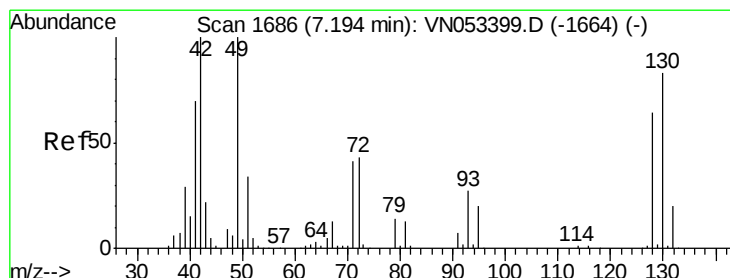
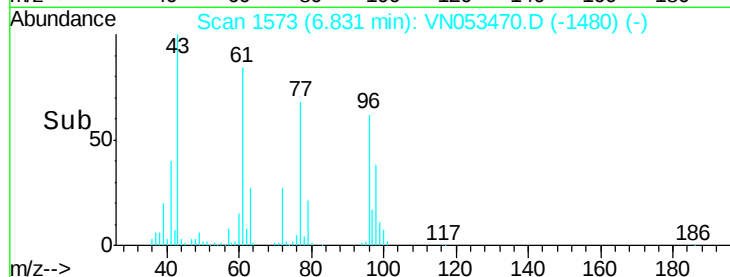
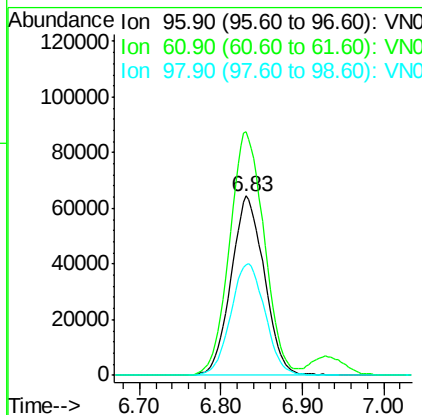
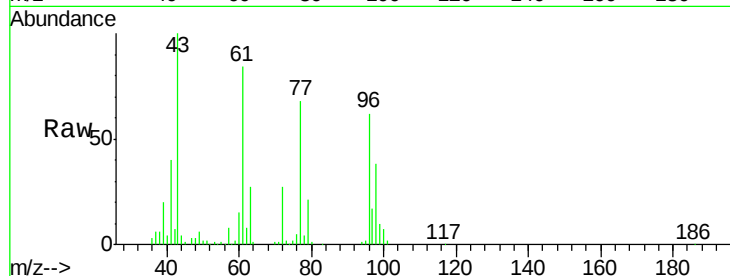
ClientSampleId :

VN0118WBS02

Tot Ion:	96	Resp:	183300
Ion	Ratio	Lower	Upper
96	100		
61	140.7	0.0	283.8
98	64.0	0.0	129.2

Manual Integrations
APPROVED

MMDadoda
1/21/2019 10:48:11 AM



#28

Bromochloromethane

Concen: 17.600 ug/l

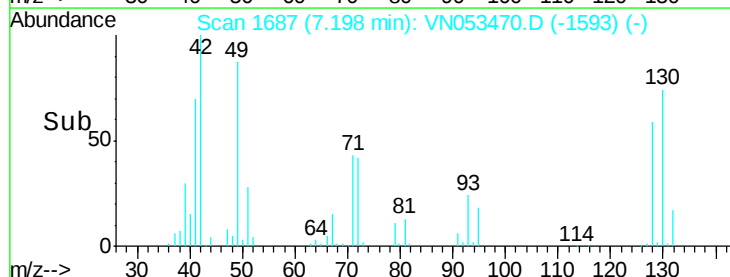
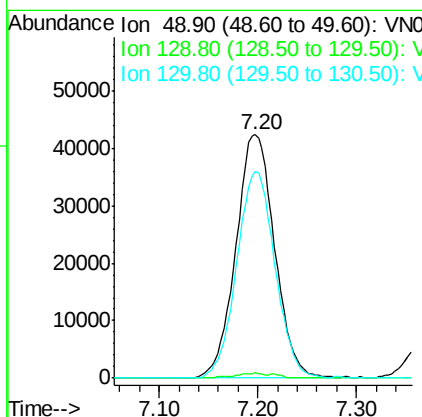
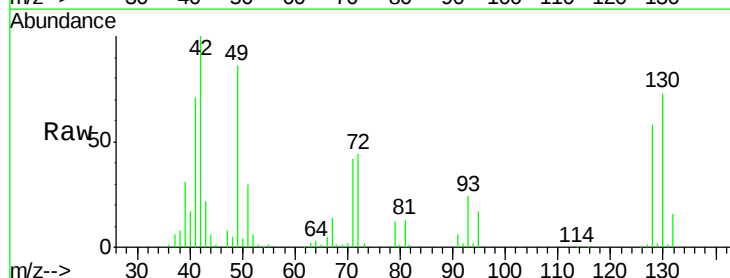
RT: 7.20 min Scan# 1687

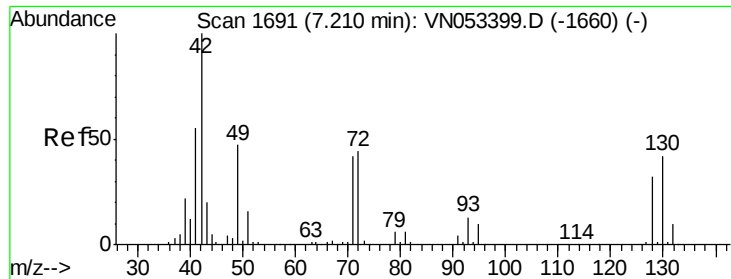
Delta R.T. 0.00 min

Lab File: VN053470.D

Acq: 18 Jan 2019 14:23

Tgt Ion:	49	Resp:	115363
Ion	Ratio	Lower	Upper
49	100		
129	0.8	0.0	4.0
130	84.1	66.3	99.5





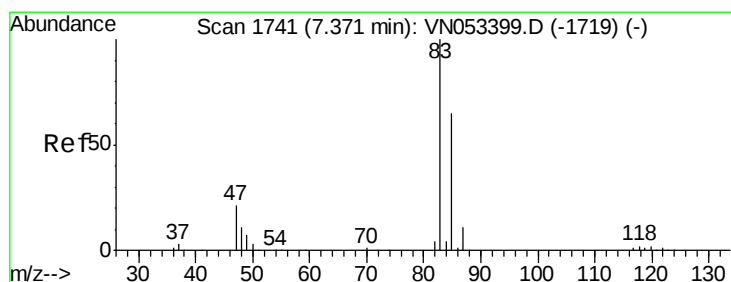
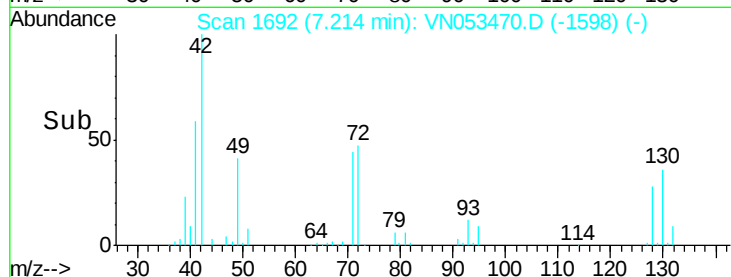
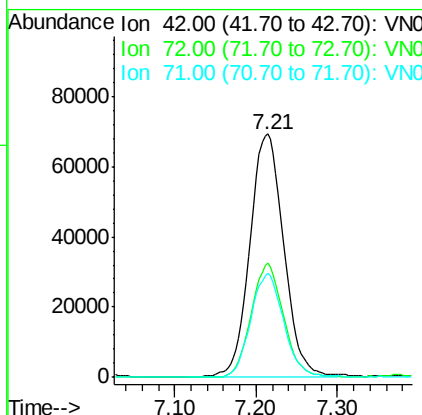
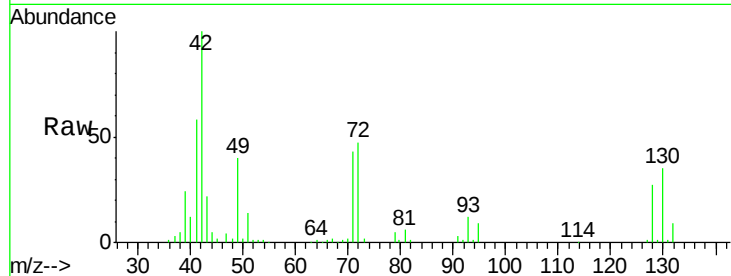
#29
Tetrahydrofuran
Concen: 102.836 ug/l
RT: 7.21 min Scan# 1692
Delta R.T. 0.00 min
Lab File: VN053470.D
Acq: 18 Jan 2019 14:23

Instrument :
MSVOA_N
ClientSampleId :
VN0118WBS02

Tot Ion	Ratio	Lower	Upper
42	100		
72	44.7	35.2	52.8
71	41.4	33.0	49.4

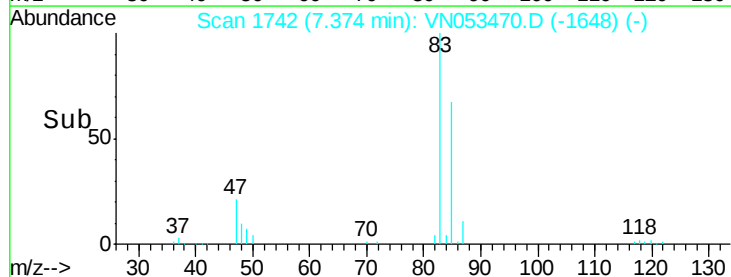
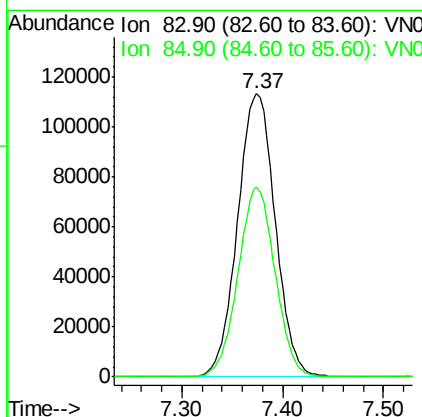
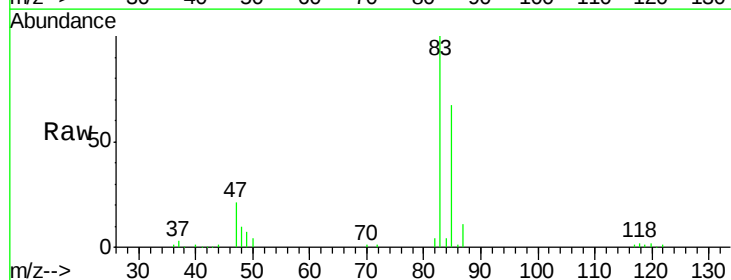
Manual Integrations
APPROVED

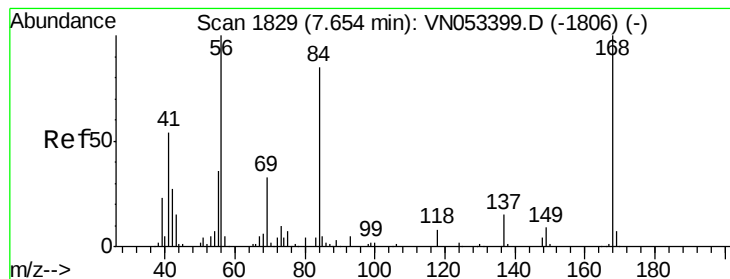
MMDadoda
1/21/2019 10:48:11 AM



#30
Chloroform
Concen: 20.271 ug/l
RT: 7.37 min Scan# 1742
Delta R.T. 0.00 min
Lab File: VN053470.D
Acq: 18 Jan 2019 14:23

Tgt Ion	Ratio	Lower	Upper
83	100		
85	67.2	52.2	78.2





#31

Cyclohexane

Concen: 19.271 ug/l

RT: 7.66 min Scan# 1830

Delta R.T. 0.00 min

Lab File: VN053470.D

Acq: 18 Jan 2019 14:23

Instrument :

MSVOA_N

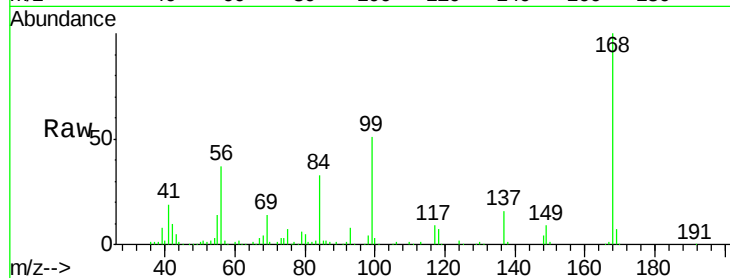
ClientSampled :

VN0118WBS02

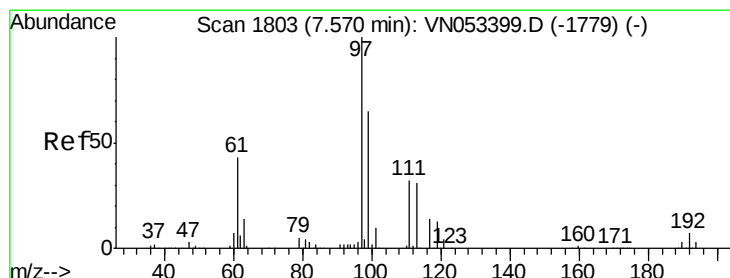
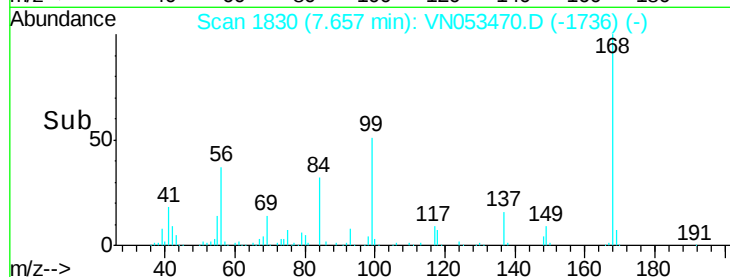
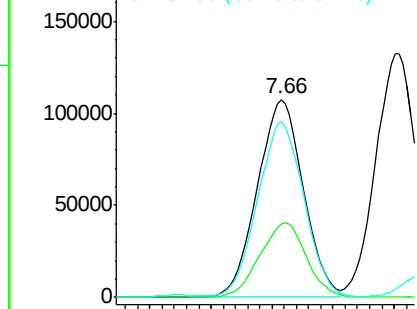
Tot Ion:	56	Resp:	281031
Ion Ratio	Lower	Upper	
56	100		
69	37.0	26.4	39.6
84	87.8	67.9	101.9

Manual Integrations
APPROVED

MMDadoda
1/21/2019 10:48:11 AM



Abundance Ion 56.00 (55.70 to 56.70): VNC
Ion 69.00 (68.70 to 69.70): VNC
Ion 84.00 (83.70 to 84.70): VNC



#32

1,1,1-Trichloroethane

Concen: 19.919 ug/l

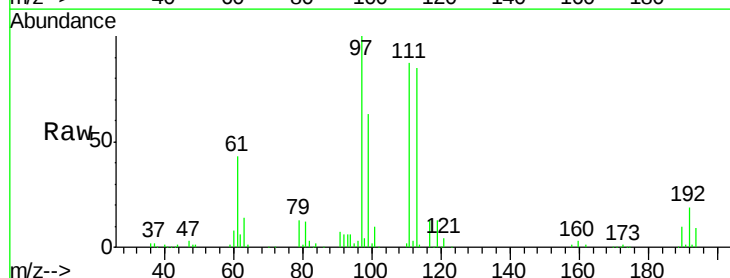
RT: 7.57 min Scan# 1804

Delta R.T. 0.00 min

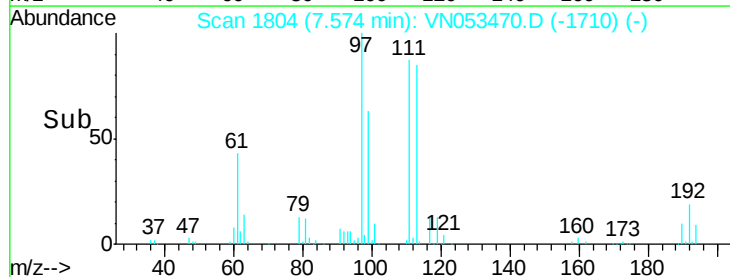
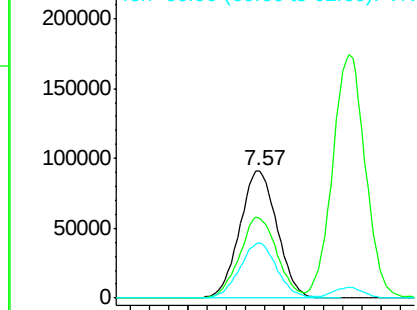
Lab File: VN053470.D

Acq: 18 Jan 2019 14:23

Tgt Ion:	97	Resp:	244942
Ion Ratio	Lower	Upper	
97	100		
99	63.5	52.0	78.0
61	42.9	34.4	51.6



Abundance Ion 96.90 (96.60 to 97.60): VNC
Ion 98.90 (98.60 to 99.60): VNC
Ion 60.90 (60.60 to 61.60): VNC





#33

1,2-Dichloroethane-d4

Concen: 19.919 ug/l

RT: 8.03 min Scan# 1945

Delta R.T. 0.00 min

Lab File: VN053470.D

Acq: 18 Jan 2019 14:23

Instrument :

MSVOA_N

ClientSampled :

VN0118WBS02

Tot Ion: 65 Resp: 412644

Ion Ratio Lower Upper

65 100

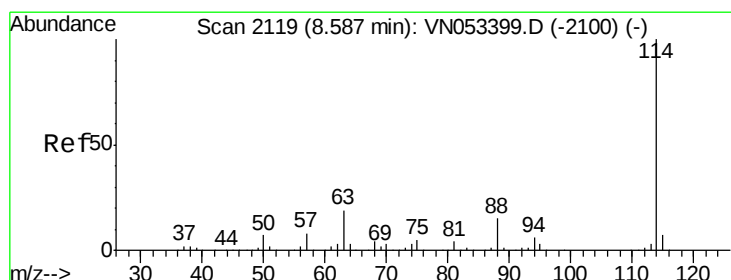
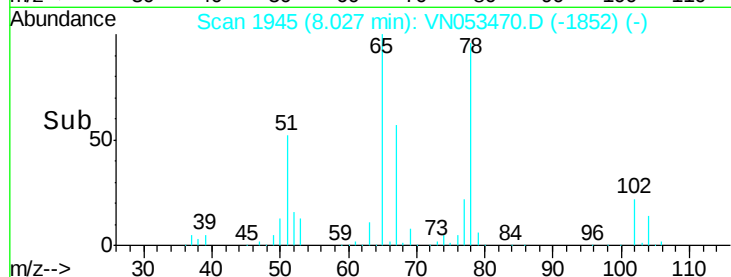
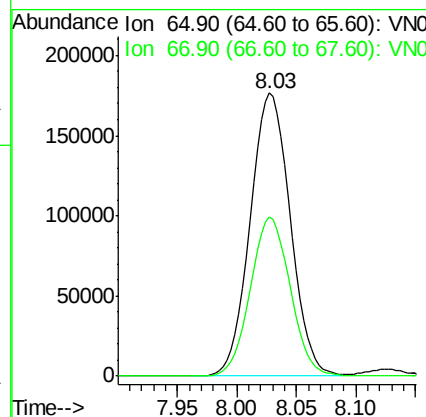
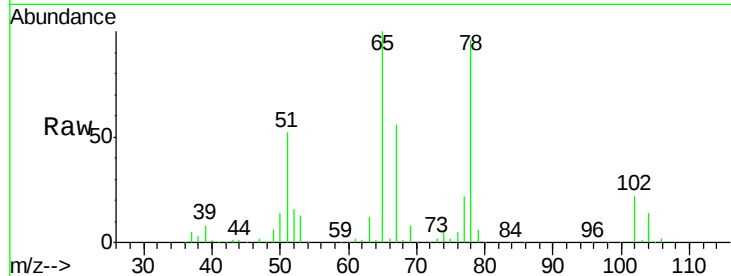
67 56.0 0.0 111.2

Manual Integrations

APPROVED

MMDadoda

1/21/2019 10:48:11 AM



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. 0.00 min

Lab File: VN053470.D

Acq: 18 Jan 2019 14:23

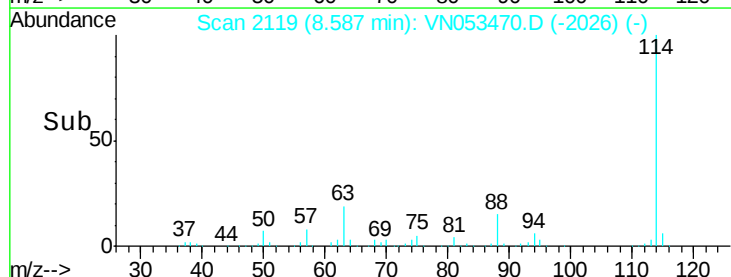
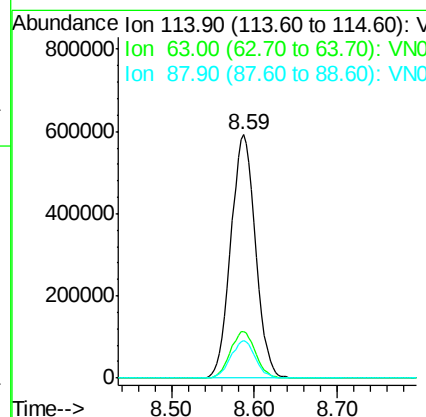
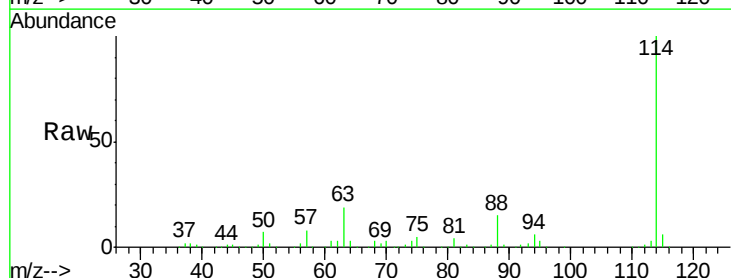
Tgt Ion: 114 Resp: 1225239

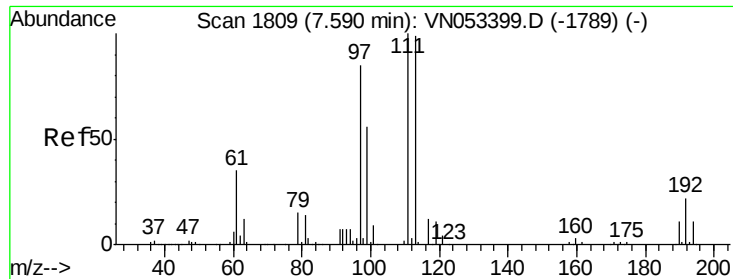
Ion Ratio Lower Upper

114 100

63 19.3 0.0 38.6

88 15.3 0.0 30.4





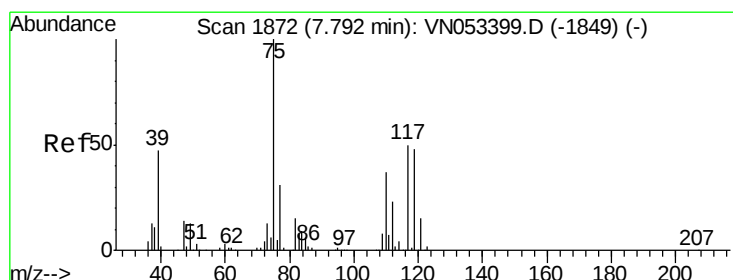
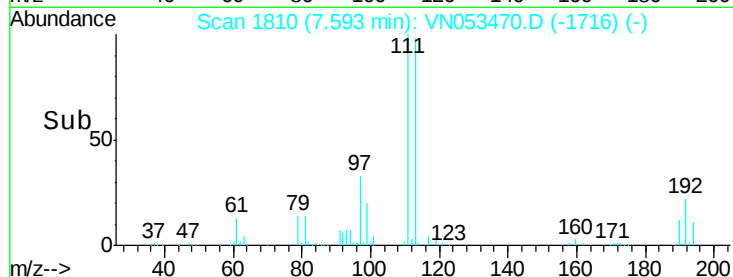
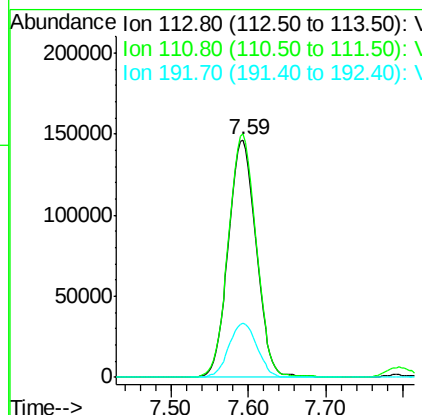
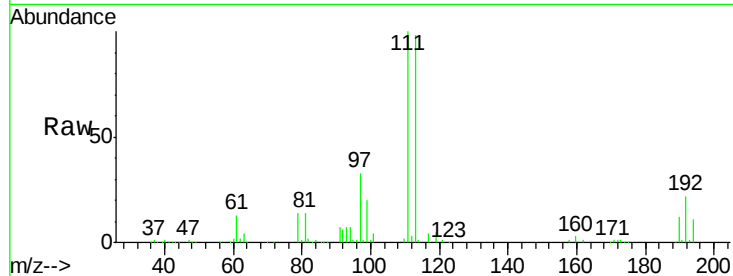
#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN053470.D
 Acq: 18 Jan 2019 14:23

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0118WBS02

Tot Ion	Ratio	Resp	Lower	Upper
113	100	365418		
111	101.8	81.1	121.7	
192	23.1	18.2	27.2	

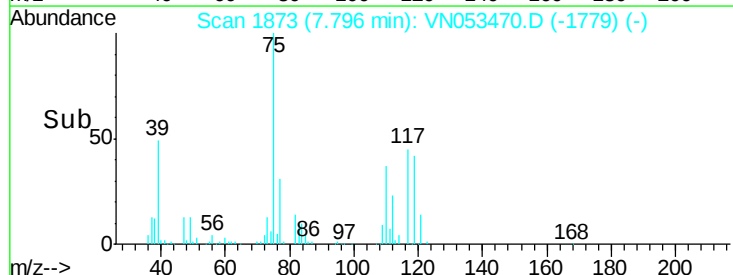
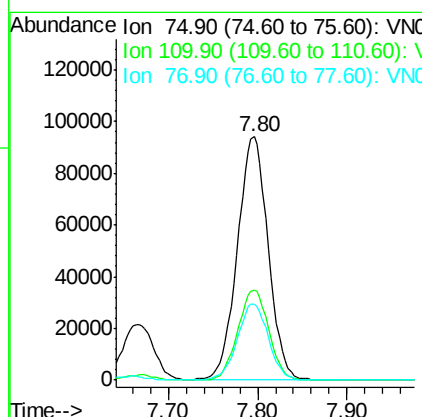
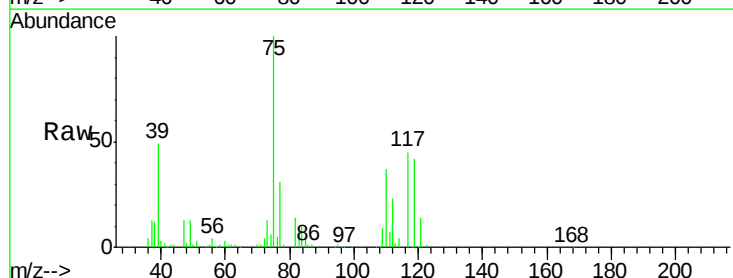
Manual Integrations
 APPROVED

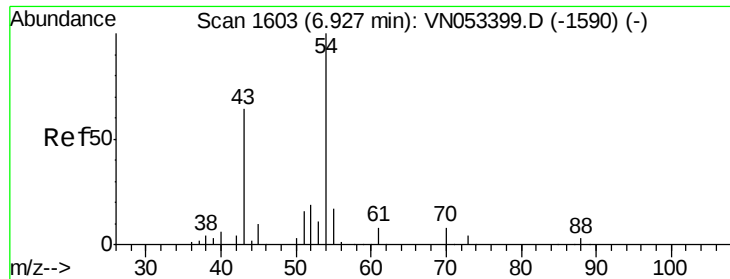
MMDadoda
 1/21/2019 10:48:11 AM



#36
 1,1-Dichloropropene
 Concen: 20.251 ug/l
 RT: 7.80 min Scan# 1873
 Delta R.T. 0.00 min
 Lab File: VN053470.D
 Acq: 18 Jan 2019 14:23

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	225974		
110	37.1	18.1	54.3	
77	31.5	25.1	37.7	





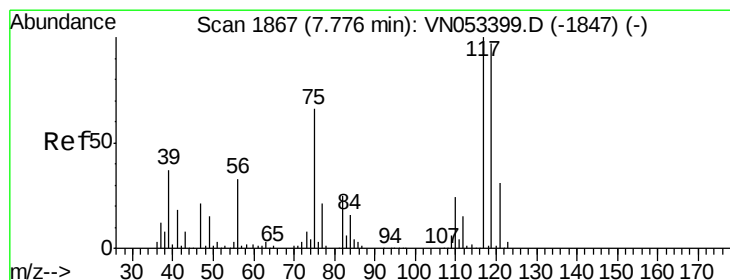
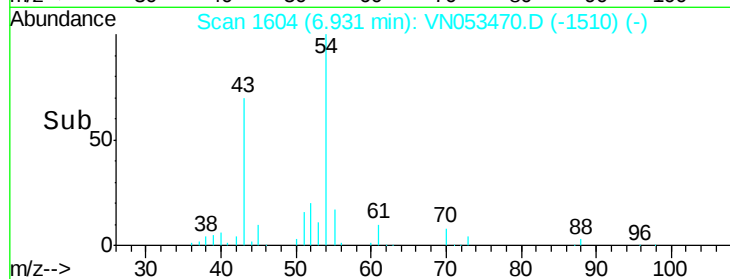
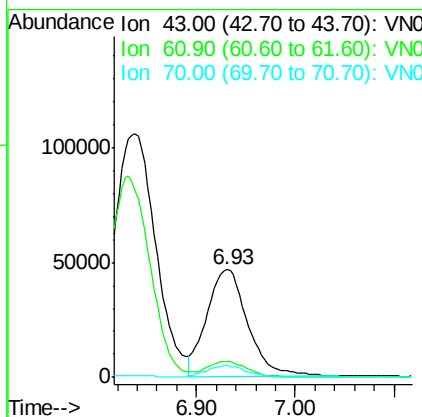
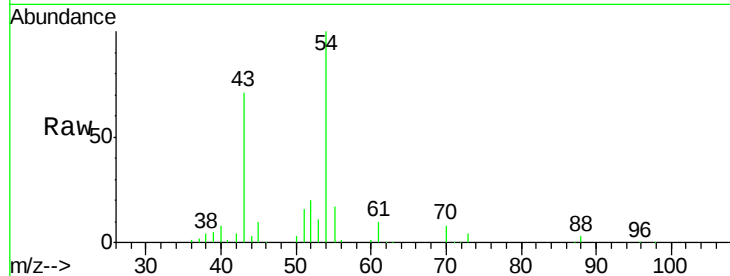
#37
Ethyl Acetate
Concen: 20.956 ug/l
RT: 6.93 min Scan# 1604
Delta R.T. 0.00 min
Lab File: VN053470.D
Acq: 18 Jan 2019 14:23

Instrument :
MSVOA_N
ClientSampled :
VN0118WBS02

Tot Ion	Ratio	Lower	Upper
43	100		
61	14.0	11.8	17.6
70	10.8	8.6	12.8

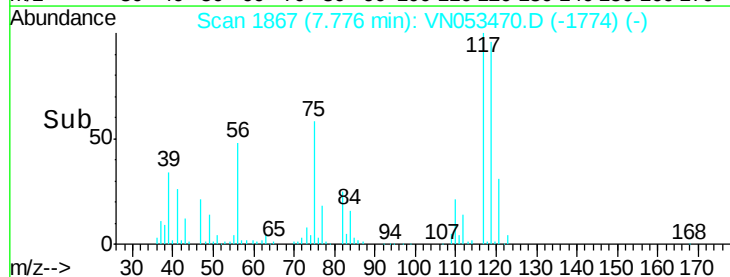
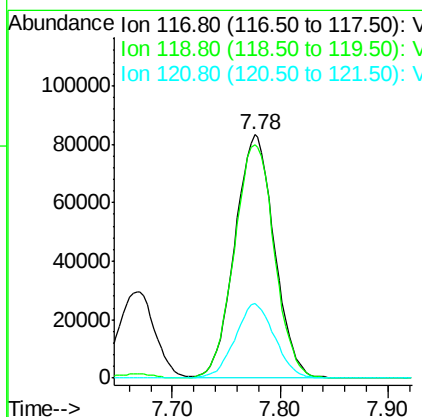
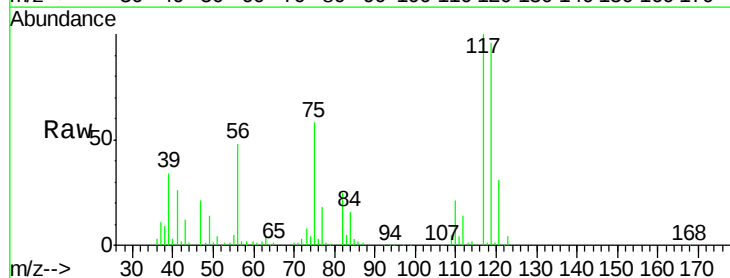
Manual Integrations
APPROVED

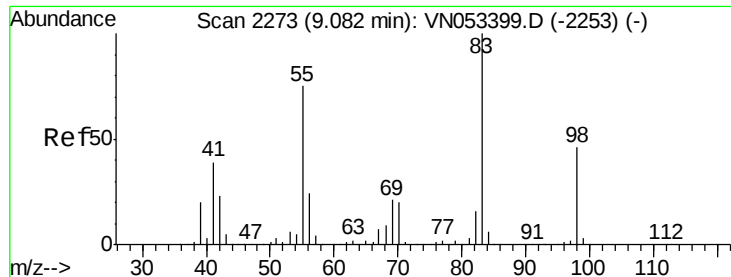
MMDadoda
1/21/2019 10:48:11 AM



#38
Carbon Tetrachloride
Concen: 20.095 ug/l
RT: 7.78 min Scan# 1867
Delta R.T. 0.00 min
Lab File: VN053470.D
Acq: 18 Jan 2019 14:23

Tgt Ion	Ratio	Lower	Upper
117	100		
119	96.1	77.2	115.8
121	30.6	24.6	37.0





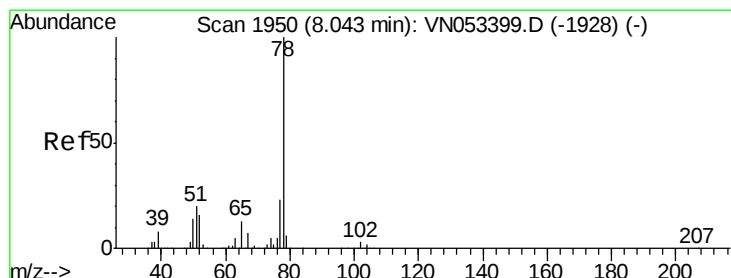
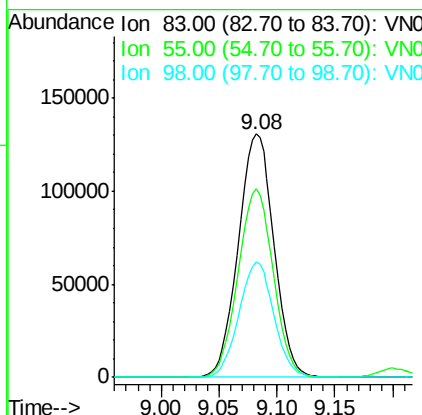
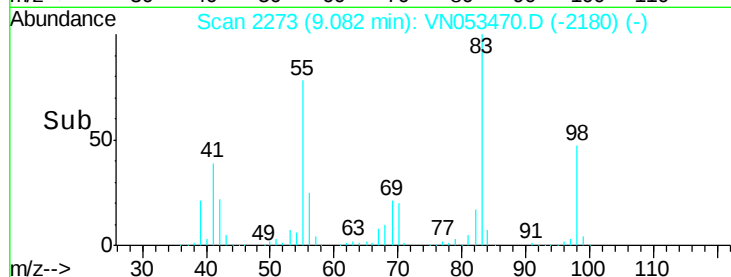
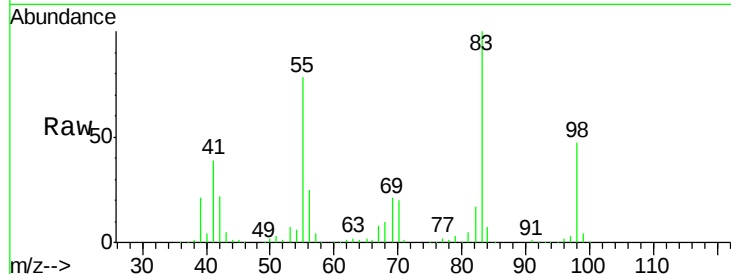
#39
Methvlcvclohexane
Concen: 20.277 ug/l
RT: 9.08 min Scan# 2273
Delta R.T. 0.00 min
Lab File: VN053470.D
Acq: 18 Jan 2019 14:23

Instrument :
MSVOA_N
ClientSampleId :
VN0118WBS02

Tot Ion	Ratio	Resp	Lower	Upper
83	100	279650		
55	77.5		60.1	90.1
98	47.5		36.6	55.0

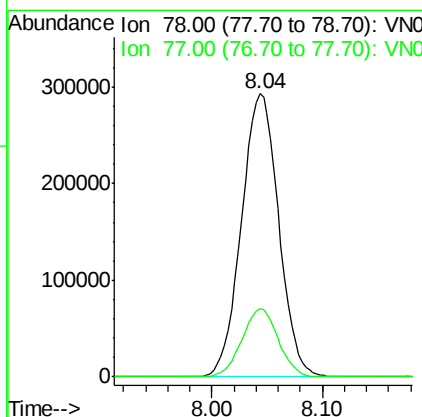
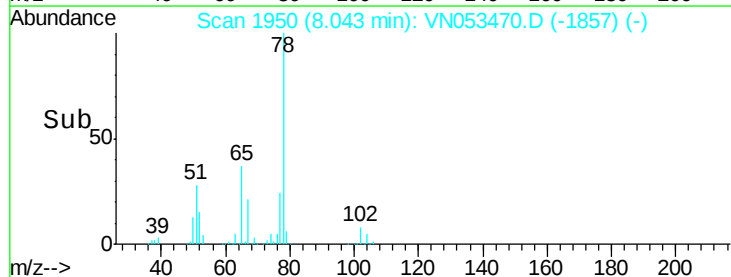
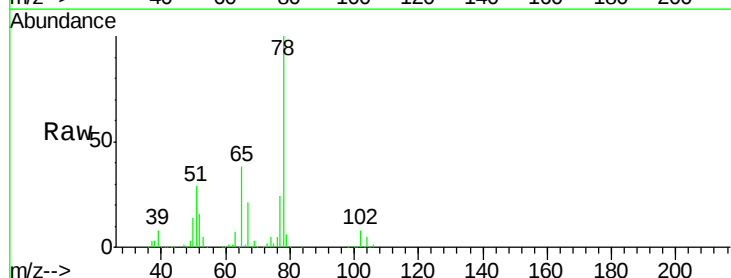
Manual Integrations
APPROVED

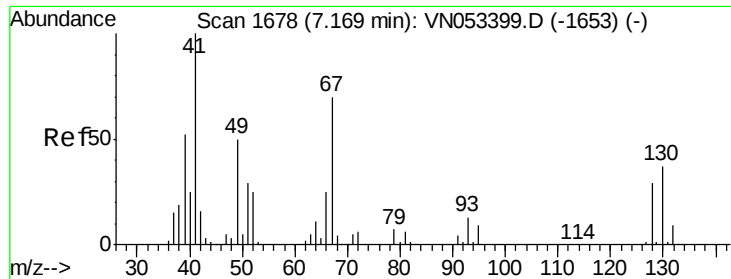
MMDadoda
1/21/2019 10:48:11 AM



#40
Benzene
Concen: 20.189 ug/l
RT: 8.04 min Scan# 1950
Delta R.T. 0.00 min
Lab File: VN053470.D
Acq: 18 Jan 2019 14:23

Tgt Ion	Ratio	Resp	Lower	Upper
78	100	684589		
77	24.0		18.8	28.2





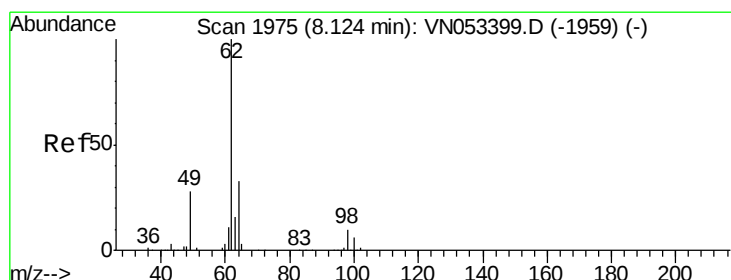
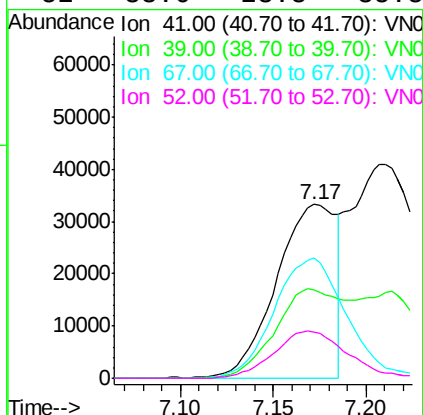
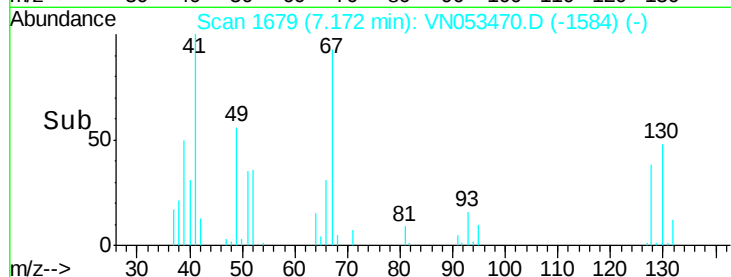
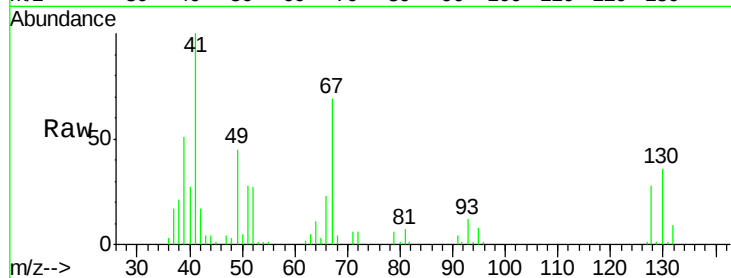
#41
Methacrylonitrile
Concen: 20.067 ug/l
RT: 7.17 min Scan# 1679
Delta R.T. 0.00 min
Lab File: VN053470.D
Acq: 18 Jan 2019 14:23

Instrument :
MSVOA_N
ClientSampleId :
VN0118WBS02

Tot Ion:	41	Resp:	75003
Ion	Ratio	Lower	Upper
41	100		
39	58.9	46.8	70.2
67	83.6	63.0	94.6
52	33.6	23.8	35.8

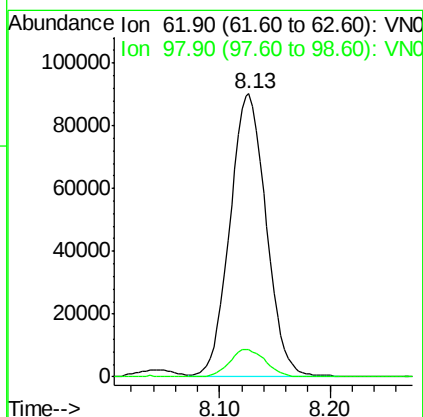
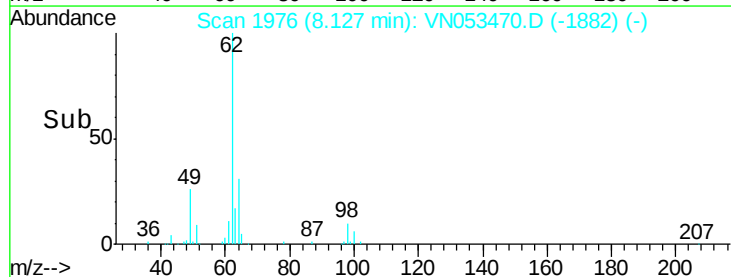
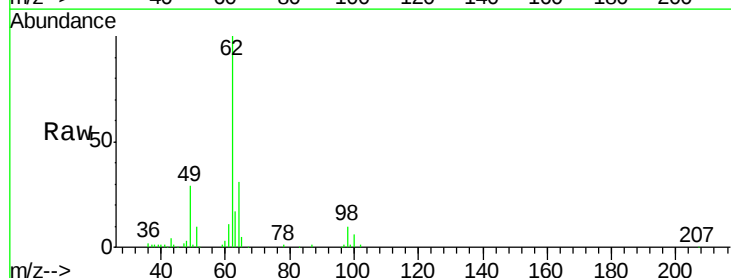
Manual Integrations
APPROVED

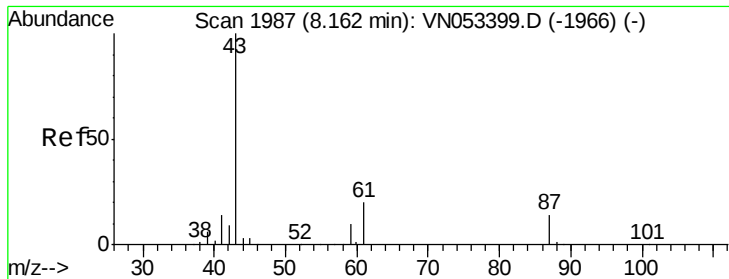
MMDadoda
1/21/2019 10:48:11 AM



#42
1,2-Dichloroethane
Concen: 20.676 ug/l
RT: 8.13 min Scan# 1976
Delta R.T. 0.00 min
Lab File: VN053470.D
Acq: 18 Jan 2019 14:23

Tgt Ion:	62	Resp:	204244
Ion	Ratio	Lower	Upper
62	100		
98	9.7	0.0	19.6





#43

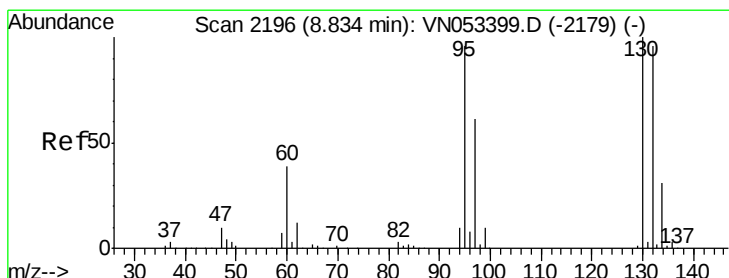
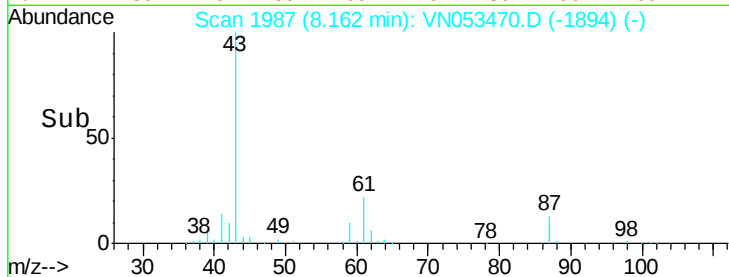
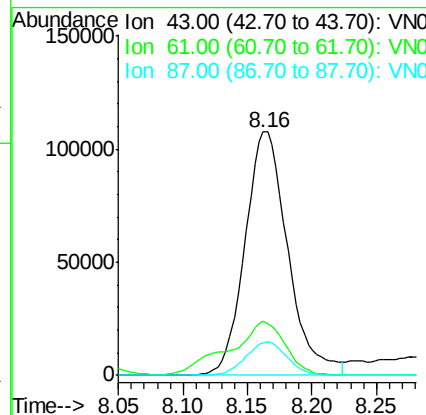
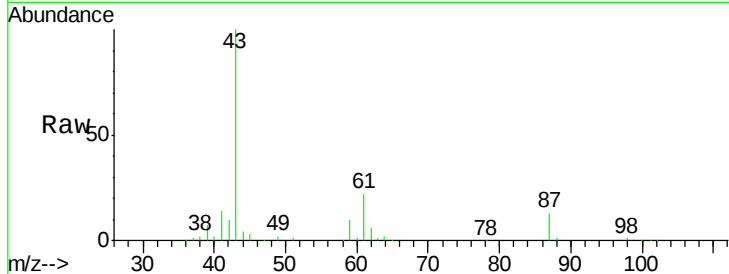
Isopropyl Acetate
 Concen: 21.466 ug/l
 RT: 8.16 min Scan# 1987
 Delta R.T. 0.00 min
 Lab File: VN053470.D
 Acq: 18 Jan 2019 14:23

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0118WBS02

Tot Ion	Ratio	Lower	Upper
43	100		
61	28.8	23.9	35.9
87	13.3	11.0	16.6

Manual Integrations
 APPROVED

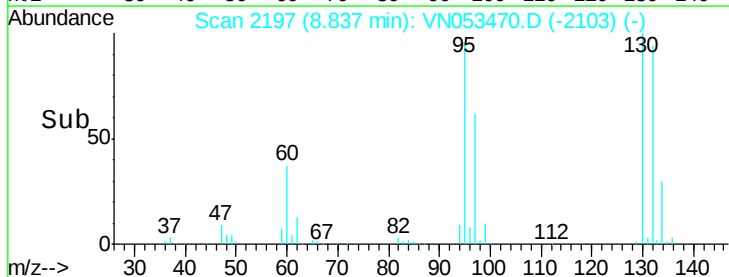
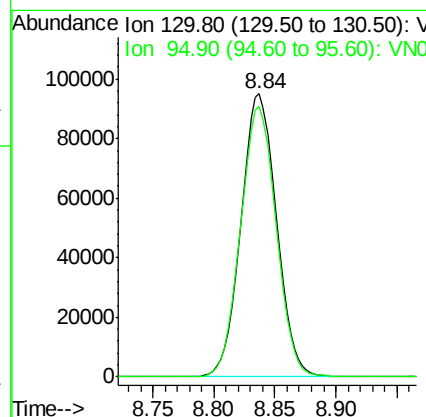
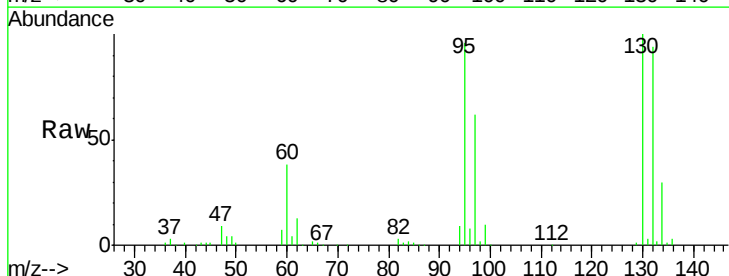
MMDadoda
 1/21/2019 10:48:11 AM

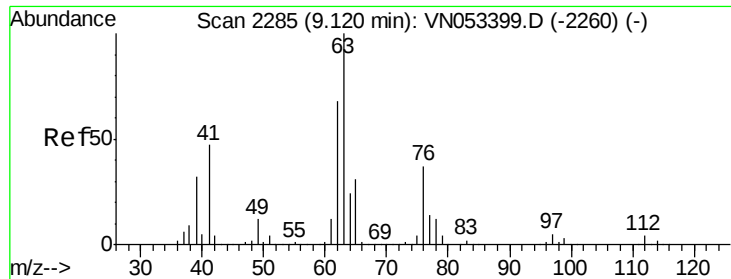


#44

Trichloroethene
 Concen: 20.293 ug/l
 RT: 8.84 min Scan# 2197
 Delta R.T. 0.00 min
 Lab File: VN053470.D
 Acq: 18 Jan 2019 14:23

Tgt Ion	Ratio	Lower	Upper
130	100		
95	95.7	0.0	191.4





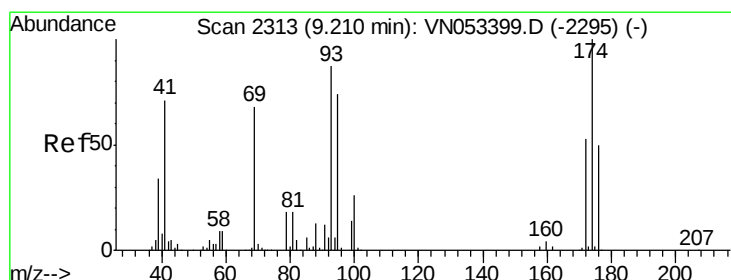
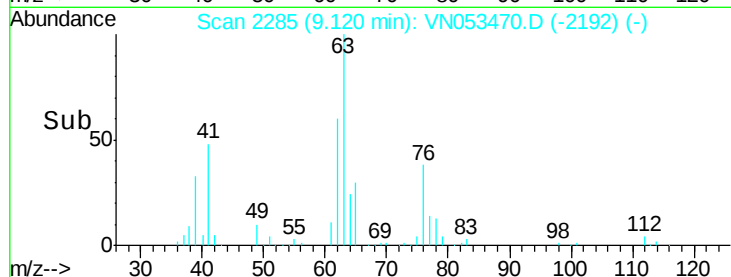
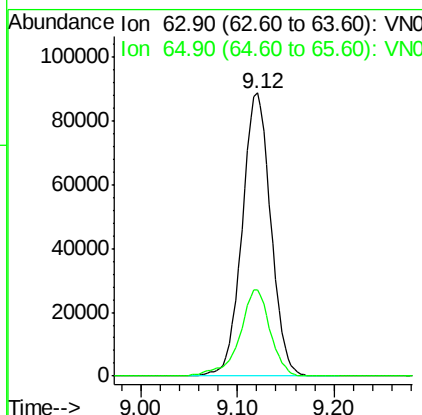
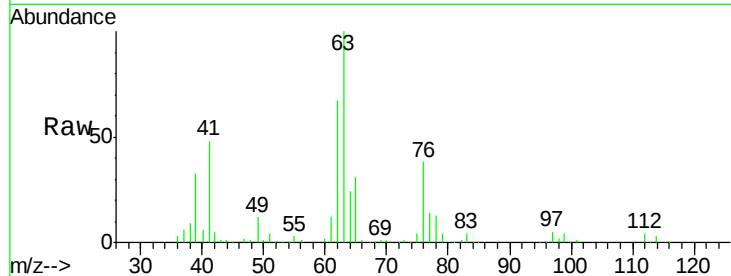
#45
 1,2-Dichloropropane
 Concen: 20.352 ug/l
 RT: 9.12 min Scan# 2285
 Delta R.T. 0.00 min
 Lab File: VN053470.D
 Acq: 18 Jan 2019 14:23

Instrument :
 MSVOA_N
 ClientSampleID :
 VN0118WBS02

Tot Ion: 63 Resp: 182787
 Ion Ratio Lower Upper
 63 100
 65 30.6 25.0 37.4

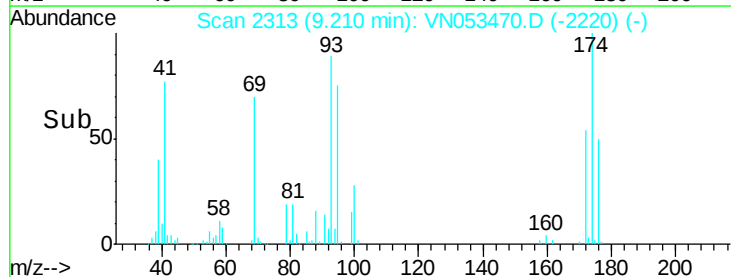
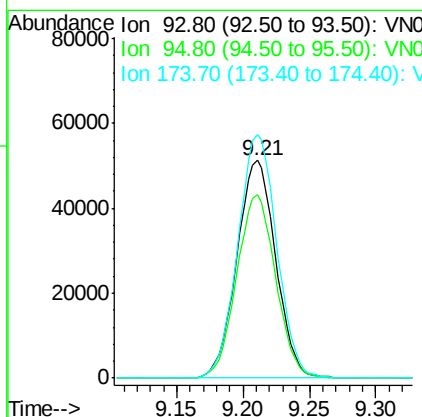
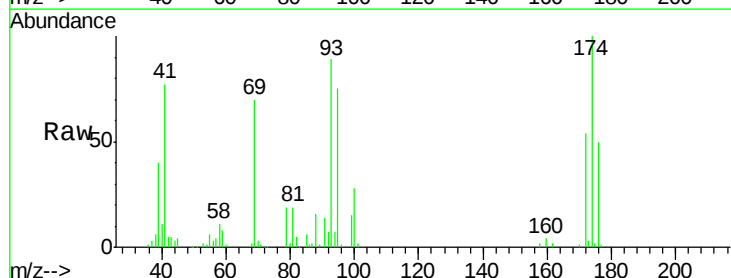
Manual Integrations
 APPROVED

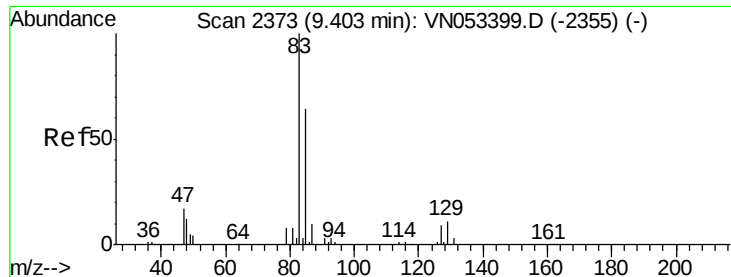
MMDadoda
 1/21/2019 10:48:11 AM



#46
 Dibromomethane
 Concen: 20.301 ug/l
 RT: 9.21 min Scan# 2313
 Delta R.T. 0.00 min
 Lab File: VN053470.D
 Acq: 18 Jan 2019 14:23

Tgt Ion: 93 Resp: 104755
 Ion Ratio Lower Upper
 93 100
 95 84.3 67.3 100.9
 174 111.9 91.0 136.4





#47

Bromodichloromethane

Concen: 20.195 ug/l

RT: 9.40 min Scan# 2373

Delta R.T. 0.00 min

Lab File: VN053470.D

Acq: 18 Jan 2019 14:23

Instrument :

MSVOA_N

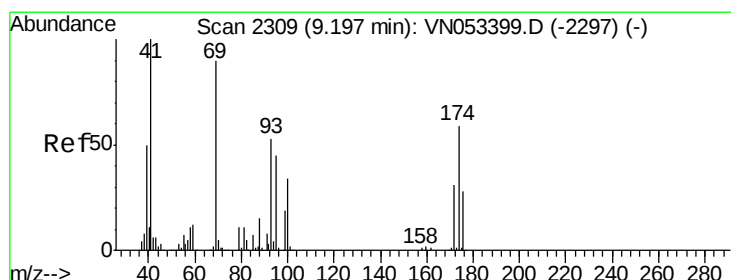
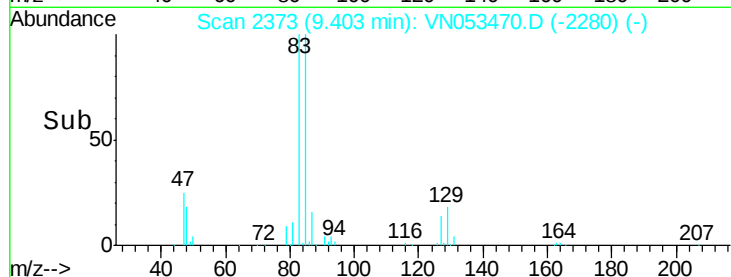
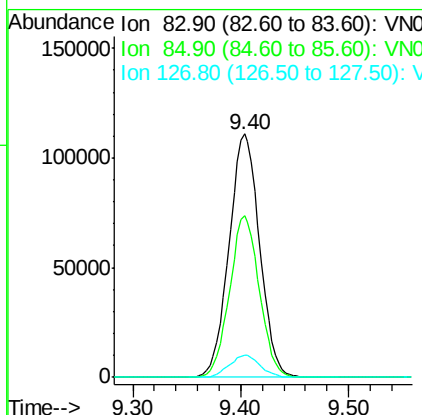
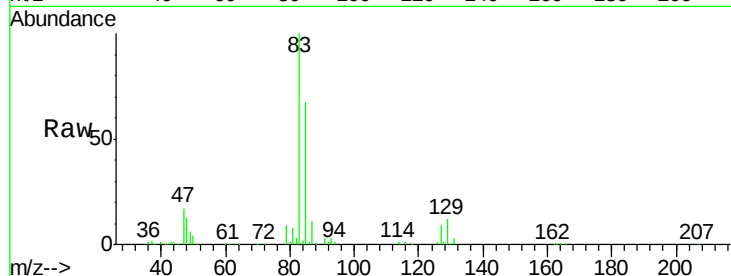
ClientSampleId :

VN0118WBS02

Tot Ion:	83	Resp:	219144
Ion Ratio	Lower	Upper	
83	100		
85	66.6	51.0	76.6
127	9.1	7.0	10.6

Manual Integrations
APPROVED

MMDadoda
1/21/2019 10:48:11 AM



#48

Methyl methacrylate

Concen: 20.093 ug/l

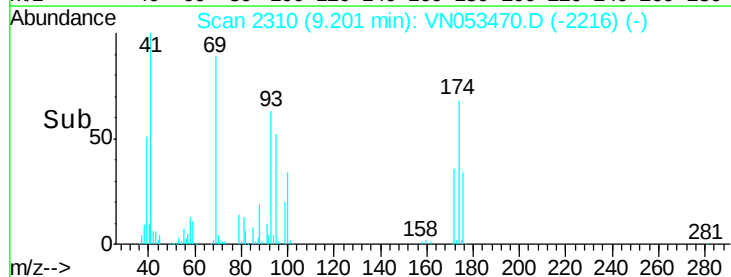
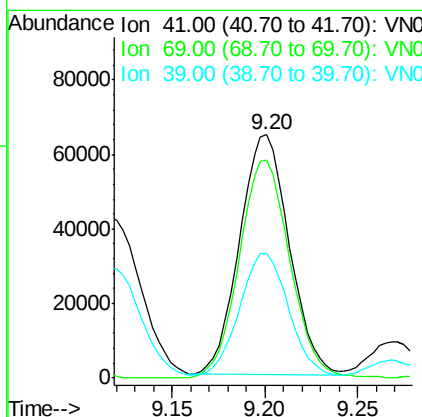
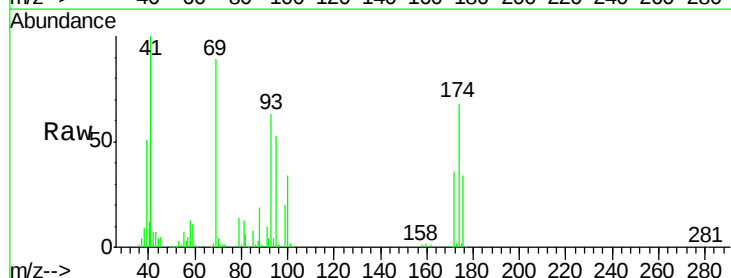
RT: 9.20 min Scan# 2310

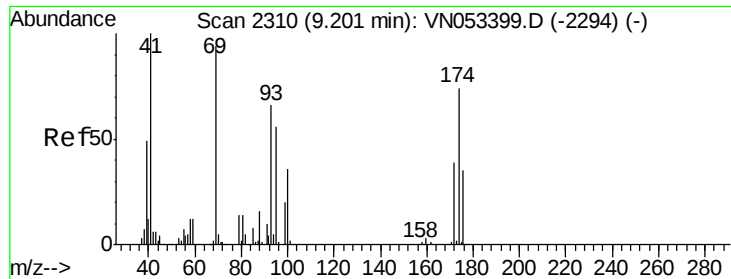
Delta R.T. 0.00 min

Lab File: VN053470.D

Acq: 18 Jan 2019 14:23

Tgt Ion:	41	Resp:	119760
Ion Ratio	Lower	Upper	
41	100		
69	93.4	73.8	110.6
39	50.3	40.0	60.0





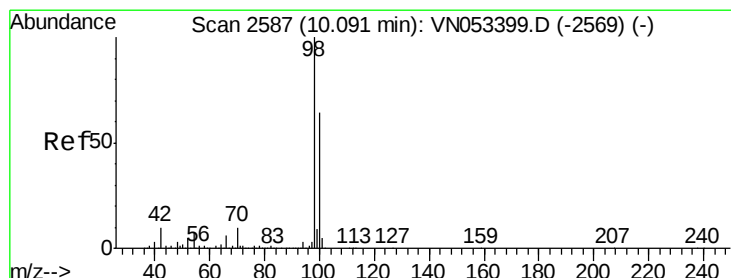
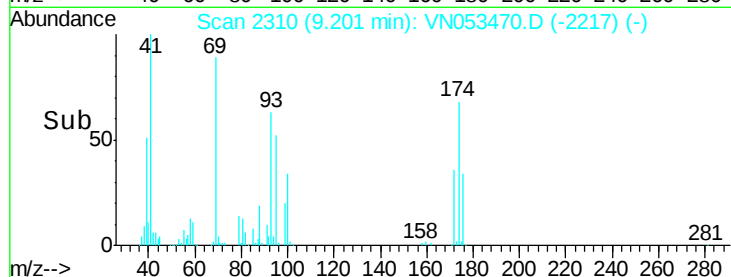
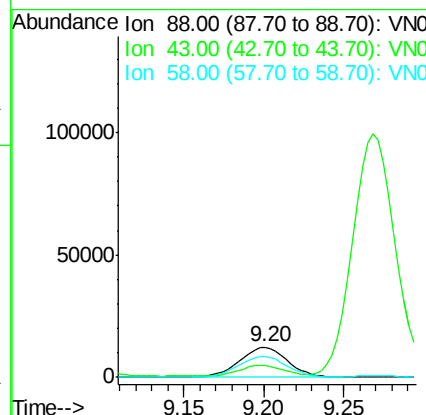
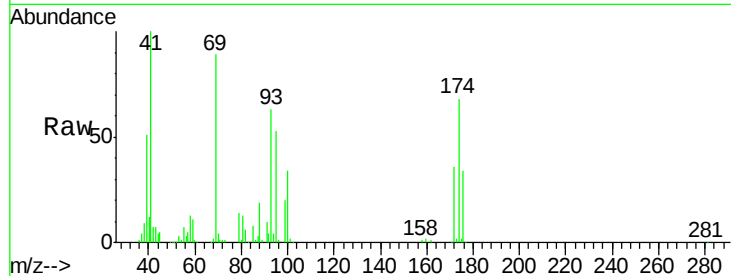
#49
1,4-Dioxane
Concen: 435.830 ug/l
RT: 9.20 min Scan# 2310
Delta R.T. 0.00 min
Lab File: VN053470.D
Acq: 18 Jan 2019 14:23

Instrument :
MSVOA_N
ClientSampleId :
VN0118WBS02

Tot Ion	88	Resp	25369
Ion	Ratio	Lower	Upper
88	100		
43	31.5	27.8	41.6
58	69.8	56.5	84.7

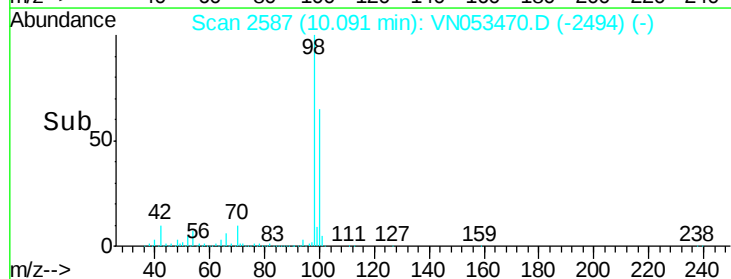
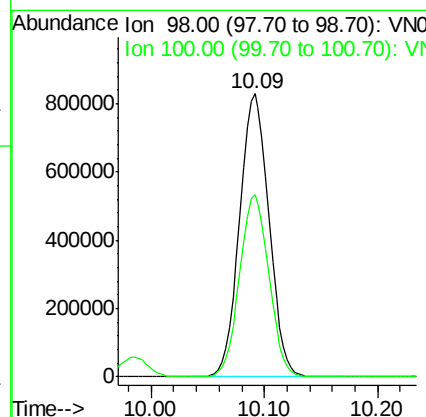
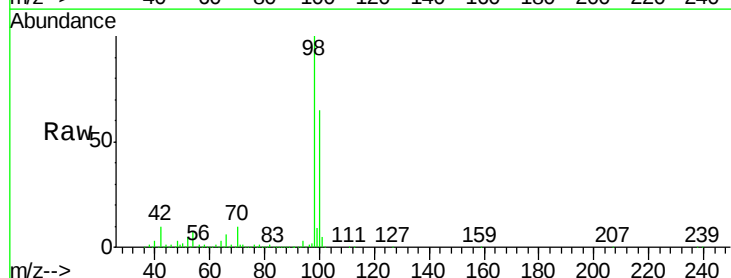
Manual Integrations
APPROVED

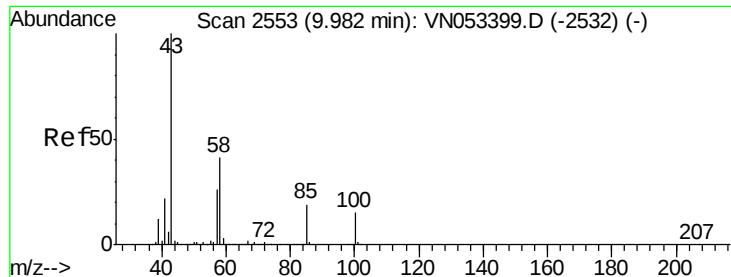
MMDadoda
1/21/2019 10:48:11 AM



#50
Toluene-d8
Concen: 435.830 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN053470.D
Acq: 18 Jan 2019 14:23

Tgt Ion	98	Resp	1503792
Ion	Ratio	Lower	Upper
98	100		
100	64.2	51.4	77.0





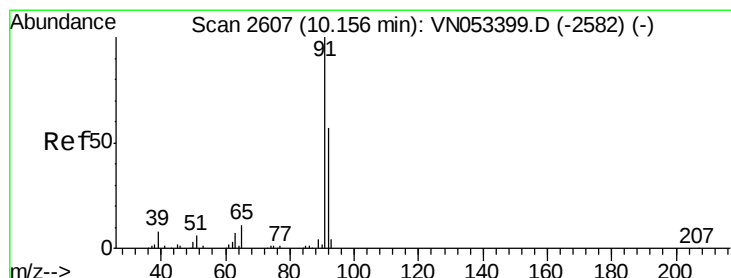
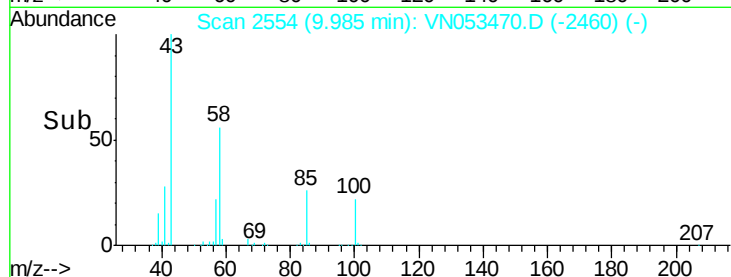
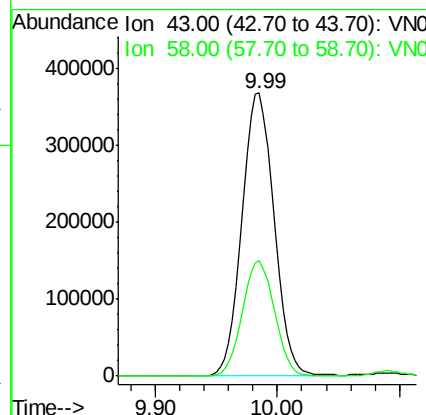
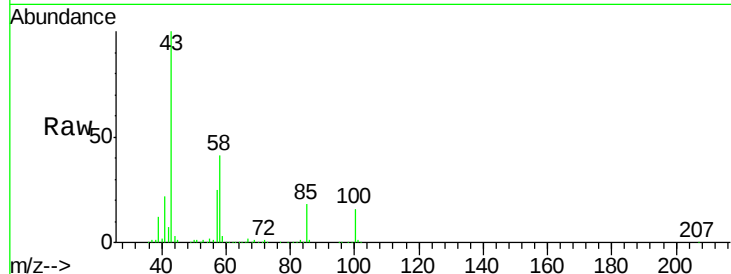
#51
 4-Methyl-2-Pentanone
 Concen: 106.215 ug/l
 RT: 9.99 min Scan# 2554
 Delta R.T. 0.00 min
 Lab File: VN053470.D
 Acq: 18 Jan 2019 14:23

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0118WBS02

Tot Ion	43	Resp	669315
Ion Ratio	43	100	
Lower	58	40.9	32.8
Upper			49.2

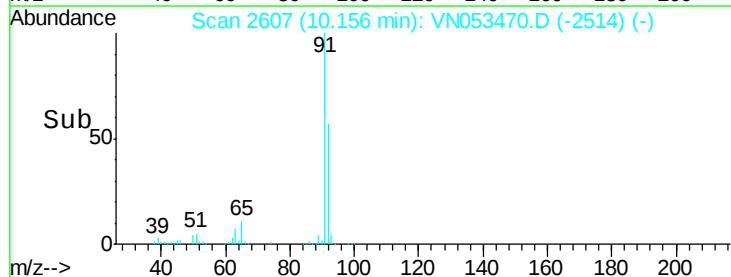
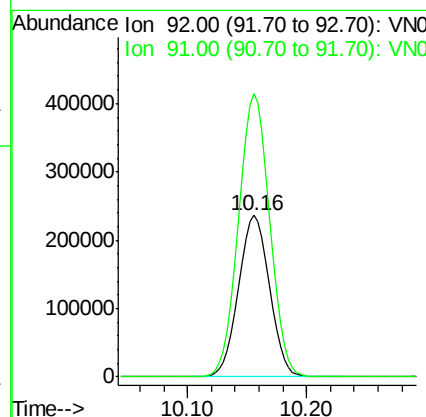
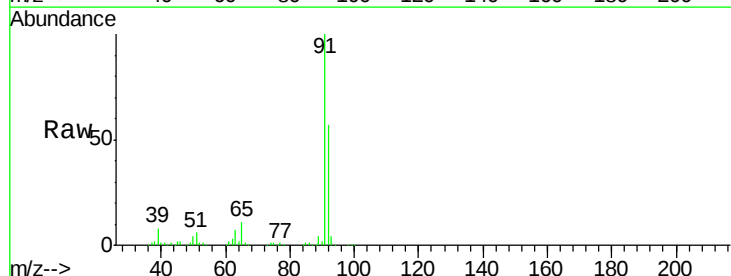
Manual Integrations
 APPROVED

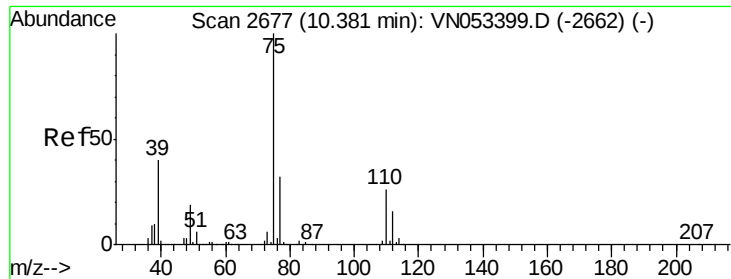
MMDadoda
 1/21/2019 10:48:11 AM



#52
 Toluene
 Concen: 20.298 ug/l
 RT: 10.16 min Scan# 2607
 Delta R.T. 0.00 min
 Lab File: VN053470.D
 Acq: 18 Jan 2019 14:23

Tgt Ion	92	Resp	427285
Ion Ratio	92	100	
Lower	91	176.1	139.9
Upper			209.9





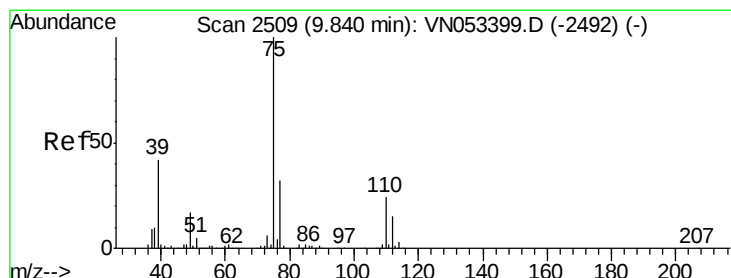
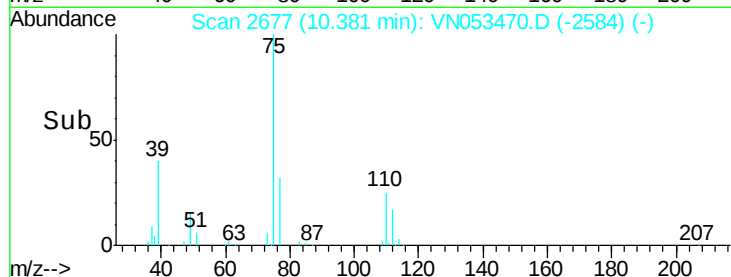
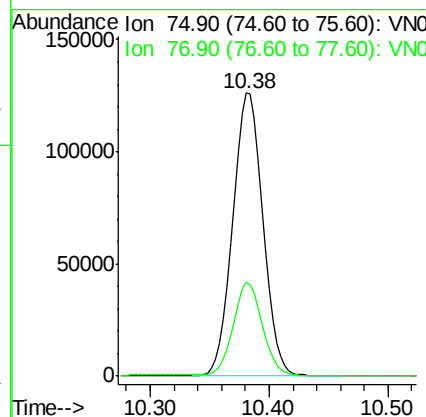
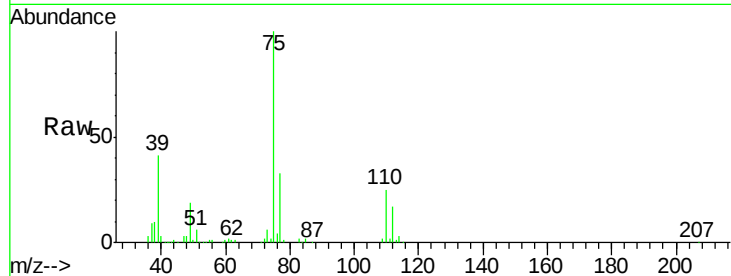
#53
t-1,3-Dichloropropene
Concen: 20.204 ug/l
RT: 10.38 min Scan# 2677
Delta R.T. 0.00 min
Lab File: VN053470.D
Acq: 18 Jan 2019 14:23

Instrument :
MSVOA_N
ClientSampled :
VN0118WBS02

Tot Ion	Ratio	Lower	Upper
75	100		
77	32.8	25.5	38.3

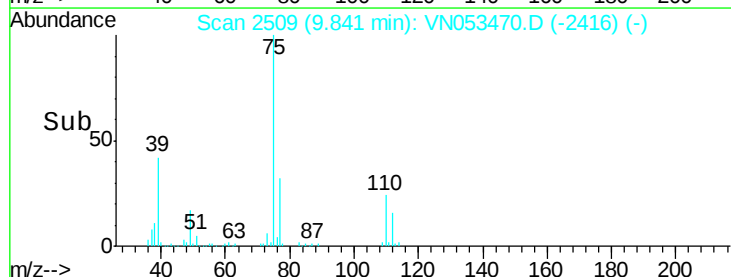
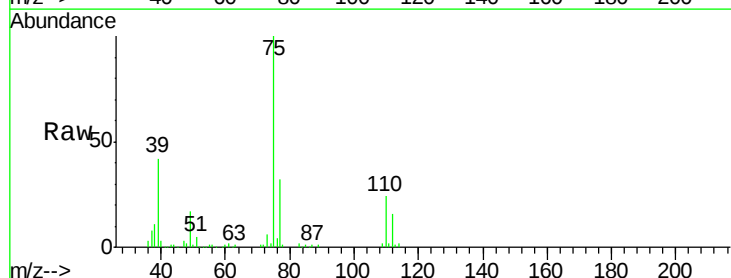
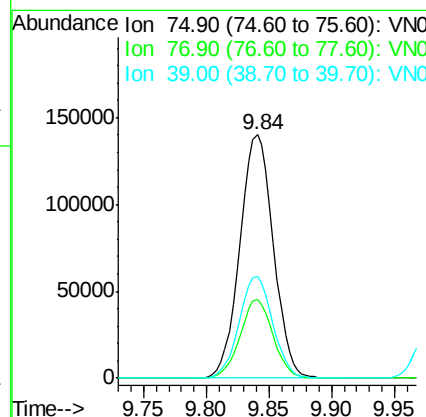
Manual Integrations
APPROVED

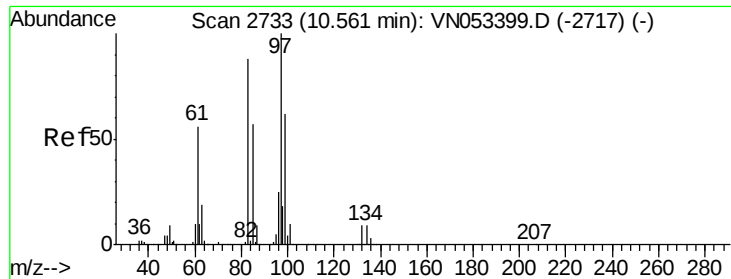
MMDadoda
1/21/2019 10:48:11 AM



#54
cis-1,3-Dichloropropene
Concen: 20.143 ug/l
RT: 9.84 min Scan# 2509
Delta R.T. 0.00 min
Lab File: VN053470.D
Acq: 18 Jan 2019 14:23

Tgt Ion	Ratio	Lower	Upper
75	100		
77	32.0	25.8	38.6
39	41.6	33.4	50.0





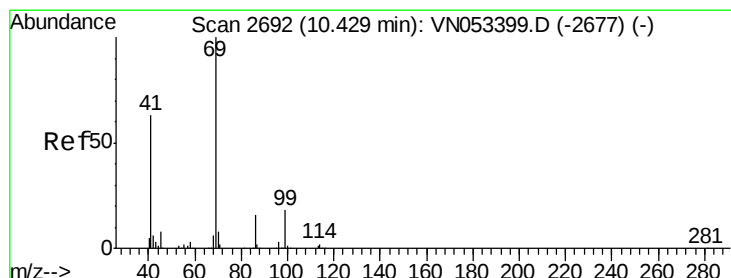
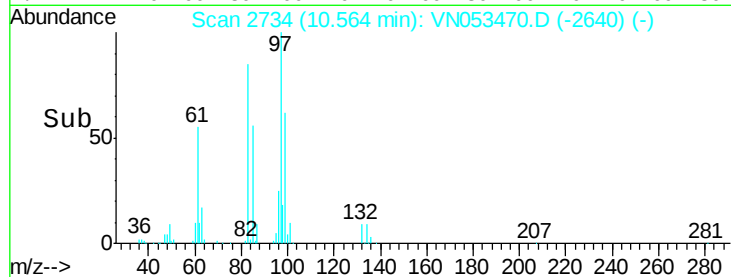
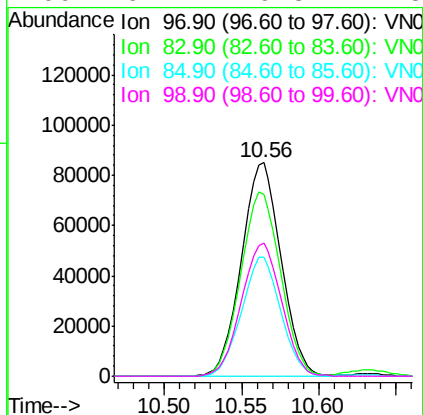
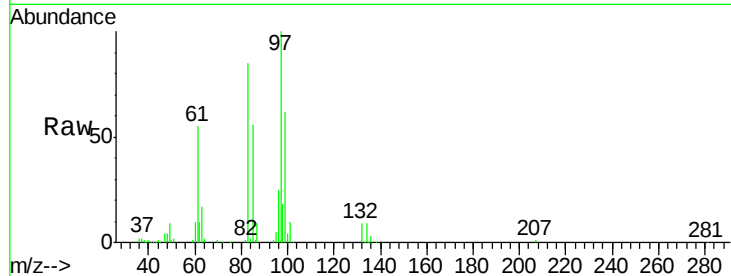
#55
 1,1,2-Trichloroethane
 Concen: 20.945 ug/l
 RT: 10.56 min Scan# 2734
 Delta R.T. 0.00 min
 Lab File: VN053470.D
 Acq: 18 Jan 2019 14:23

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0118WBS02

Tot Ion:	97	Resp:	152010
Ion	Ratio	Lower	Upper
97	100		
83	85.1	70.1	105.1
85	55.9	45.4	68.0
99	62.4	49.8	74.8

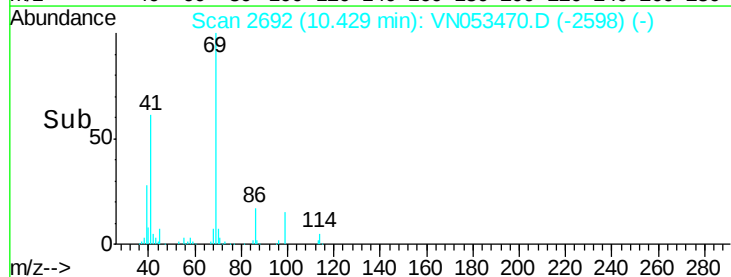
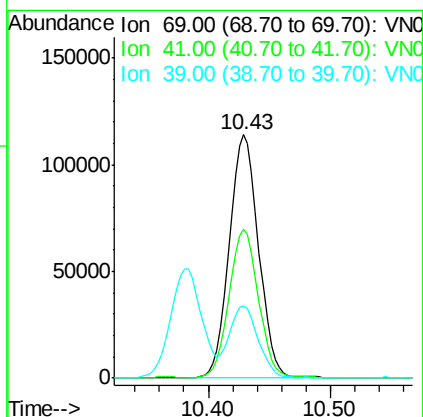
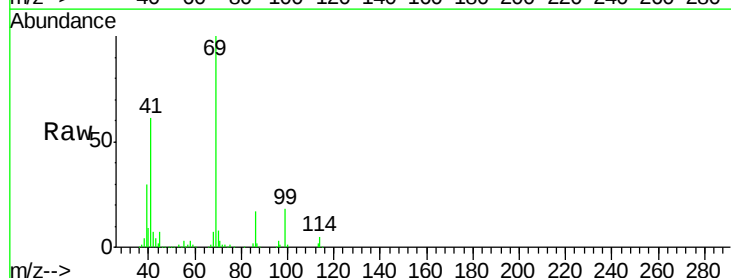
Manual Integrations
 APPROVED

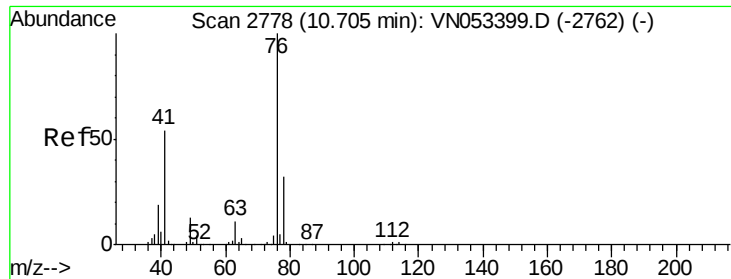
MMDadoda
 1/21/2019 10:48:11 AM



#56
 Ethyl methacrylate
 Concen: 19.848 ug/l
 RT: 10.43 min Scan# 2692
 Delta R.T. 0.00 min
 Lab File: VN053470.D
 Acq: 18 Jan 2019 14:23

Tgt Ion:	69	Resp:	191104
Ion	Ratio	Lower	Upper
69	100		
41	60.5	49.4	74.0
39	29.4	23.3	34.9





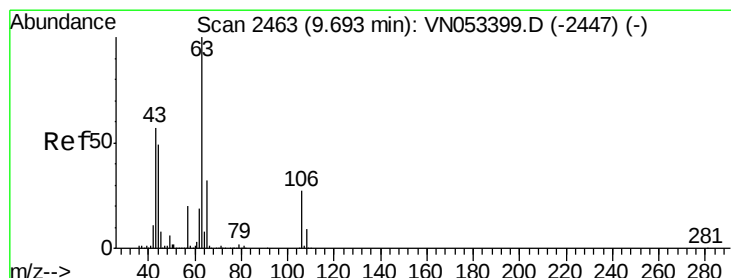
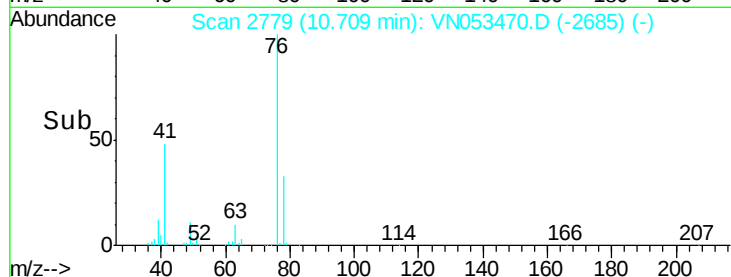
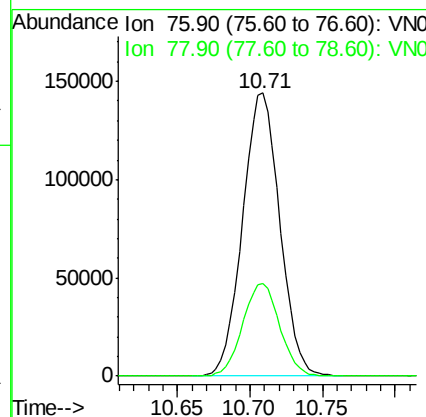
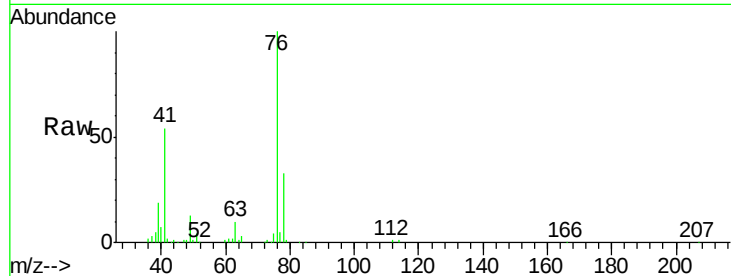
#57
 1,3-Dichloropropane
 Concen: 20.468 ug/l
 RT: 10.71 min Scan# 2779
 Delta R.T. 0.00 min
 Lab File: VN053470.D
 Acq: 18 Jan 2019 14:23

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0118WBS02

Tot Ion	Ratio	Lower	Upper
76	100		
78	32.7	25.6	38.4

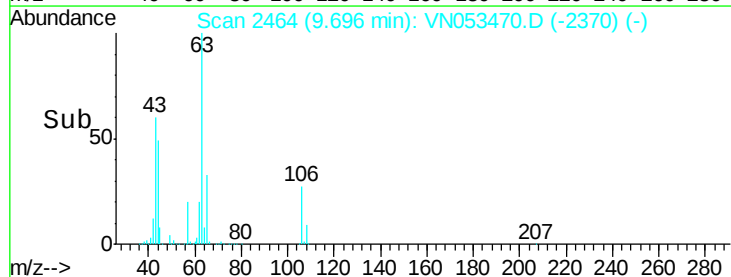
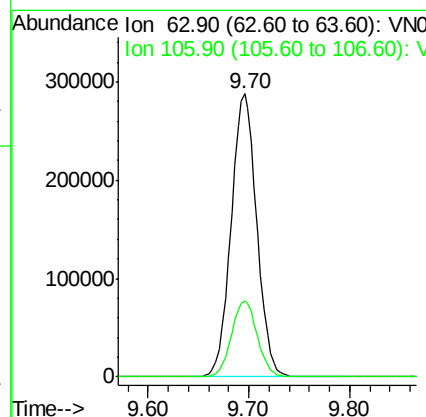
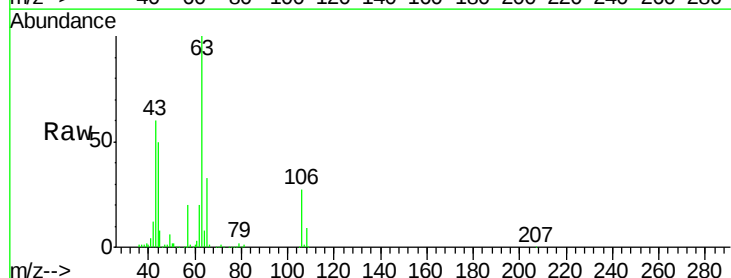
Manual Integrations
 APPROVED

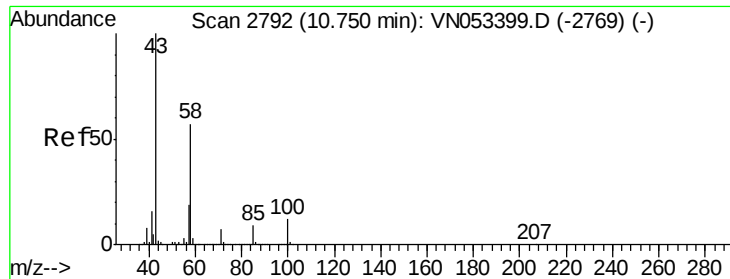
MMDadoda
 1/21/2019 10:48:11 AM



#58
 2-Chloroethyl Vinyl ether
 Concen: 100.400 ug/l
 RT: 9.70 min Scan# 2464
 Delta R.T. 0.00 min
 Lab File: VN053470.D
 Acq: 18 Jan 2019 14:23

Tgt Ion	Ratio	Lower	Upper
63	100		
106	27.1	21.5	32.3





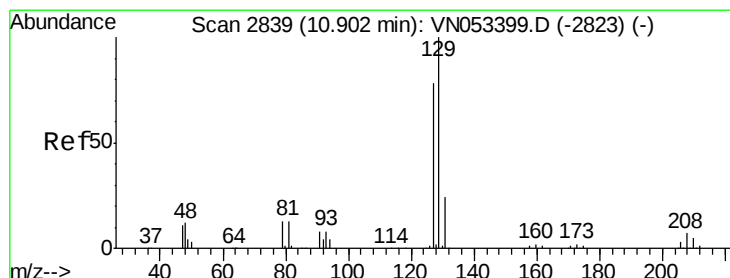
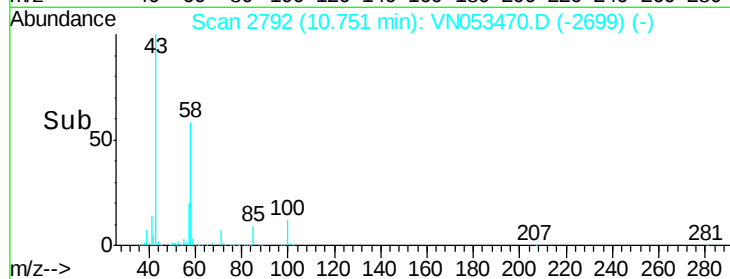
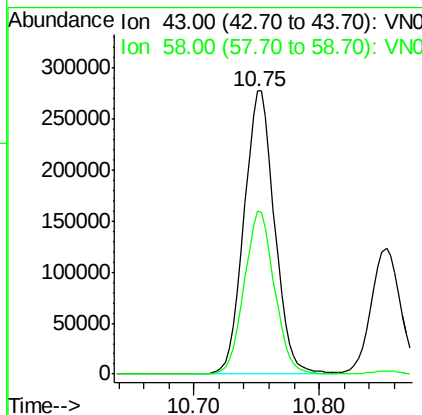
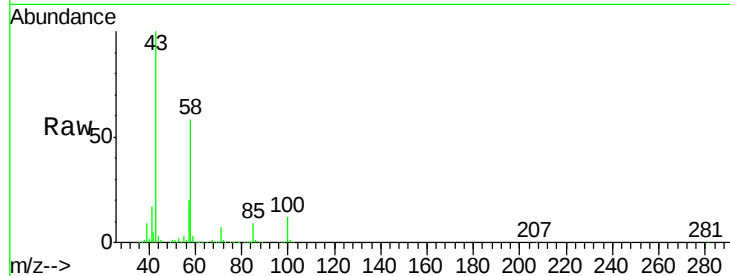
#59
2-Hexanone
Concen: 106.238 ug/l
RT: 10.75 min Scan# 2792
Delta R.T. 0.00 min
Lab File: VN053470.D
Acq: 18 Jan 2019 14:23

Instrument :
MSVOA_N
ClientSampleId :
VN0118WBS02

Tot Ion: 43 Resp: 469955
Ion Ratio Lower Upper
43 100
58 57.0 28.6 85.8

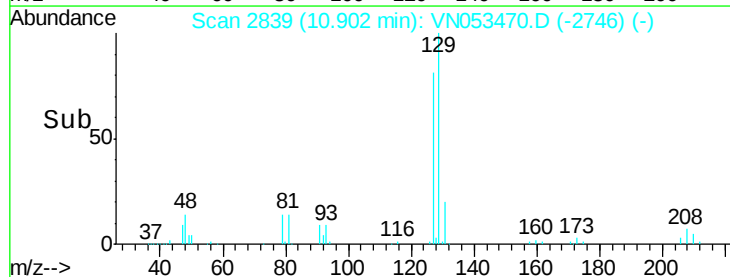
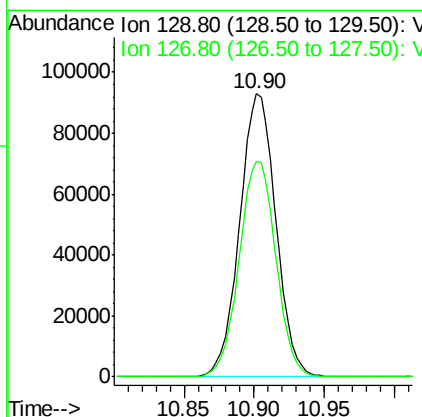
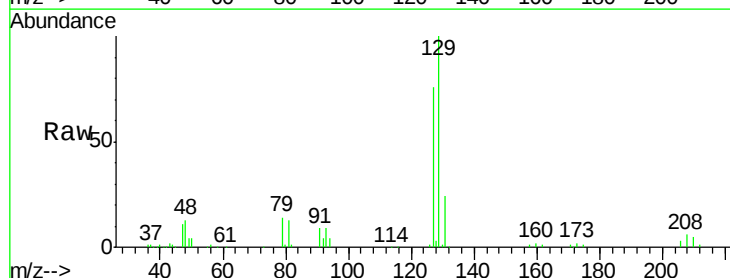
Manual Integrations
APPROVED

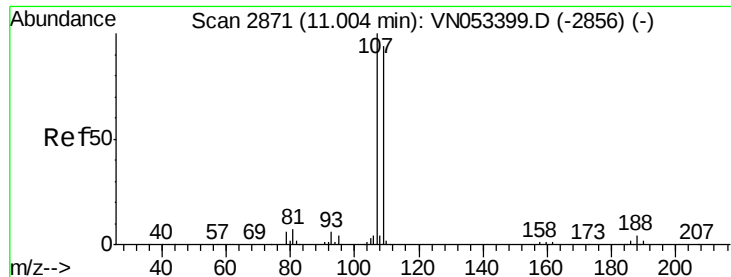
MMDadoda
1/21/2019 10:48:11 AM



#60
Dibromochloromethane
Concen: 20.324 ug/l
RT: 10.90 min Scan# 2839
Delta R.T. 0.00 min
Lab File: VN053470.D
Acq: 18 Jan 2019 14:23

Tgt Ion: 129 Resp: 167302
Ion Ratio Lower Upper
129 100
127 77.2 38.6 115.8





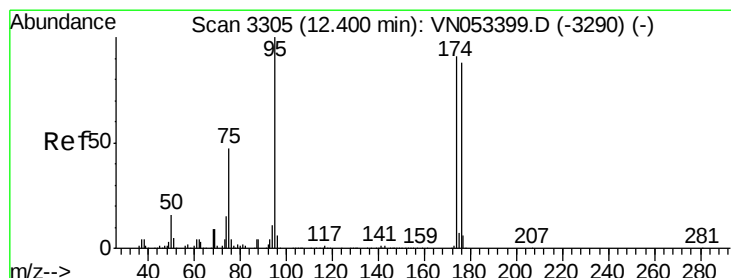
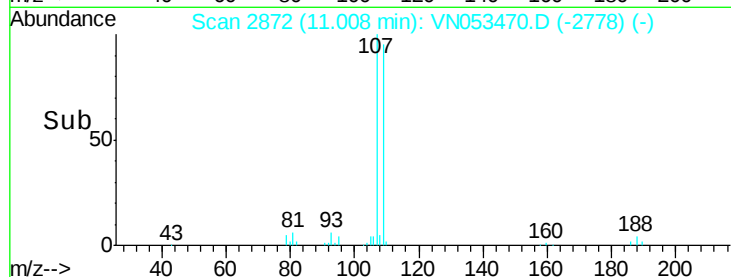
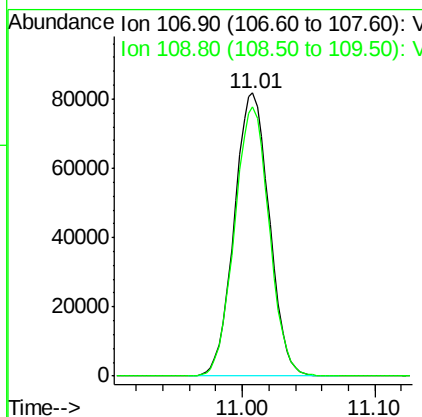
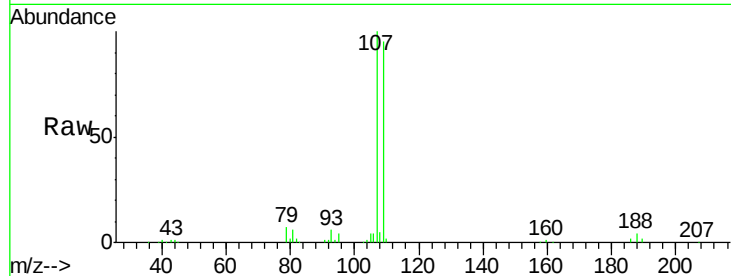
#61
 1,2-Dibromoethane
 Concen: 20.401 ug/l
 RT: 11.01 min Scan# 2872
 Delta R.T. 0.00 min
 Lab File: VN053470.D
 Acq: 18 Jan 2019 14:23

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0118WBS02

Tot Ion: 107 Resp: 149745
 Ion Ratio Lower Upper
 107 100
 109 94.5 75.7 113.5

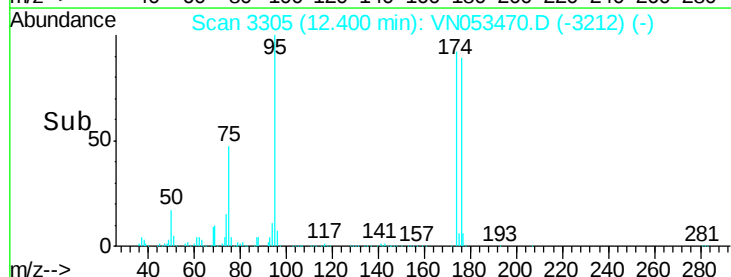
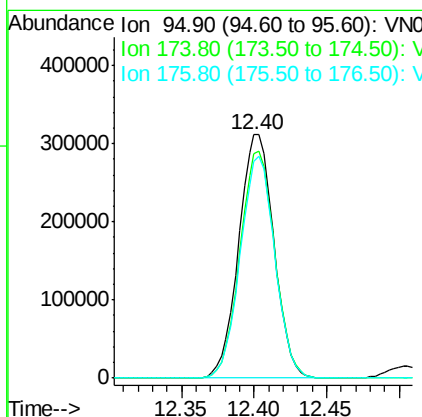
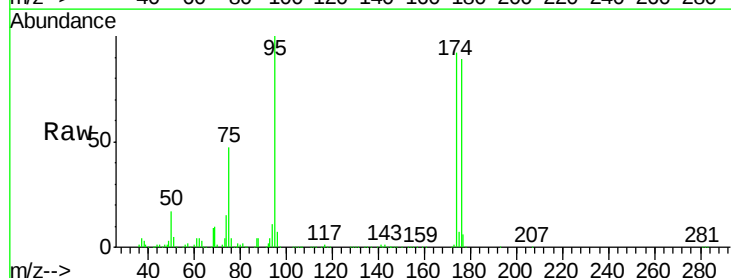
Manual Integrations
 APPROVED

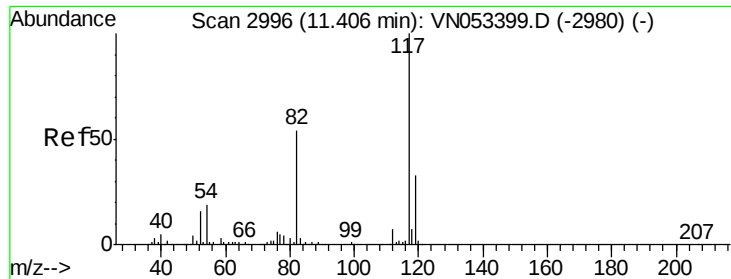
MMDadoda
 1/21/2019 10:48:11 AM



#62
 4-Bromofluorobenzene
 Concen: 20.401 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. 0.00 min
 Lab File: VN053470.D
 Acq: 18 Jan 2019 14:23

Tgt Ion: 95 Resp: 525871
 Ion Ratio Lower Upper
 95 100
 174 92.0 0.0 183.2
 176 89.3 0.0 177.4





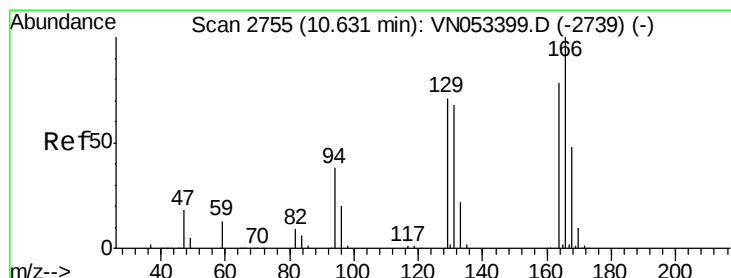
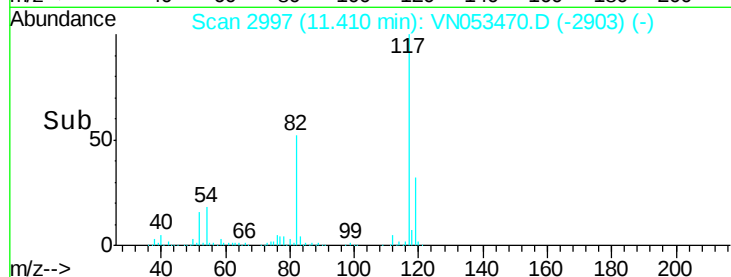
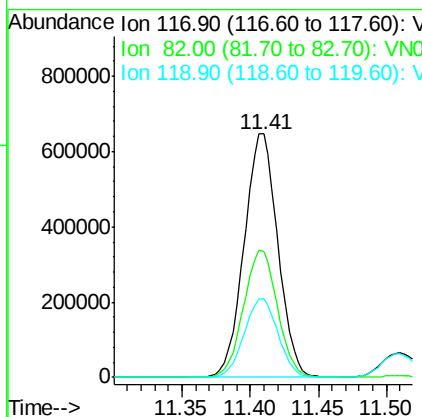
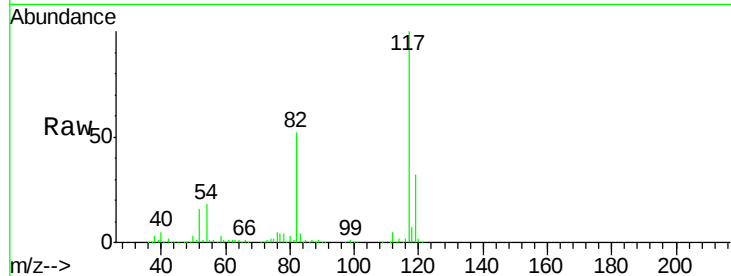
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN053470.D
Acq: 18 Jan 2019 14:23

Instrument :
MSVOA_N
ClientSampleId :
VN0118WBS02

Tot Ion	Ratio	Lower	Upper
117	100		
82	51.7	42.9	64.3
119	32.3	26.0	39.0

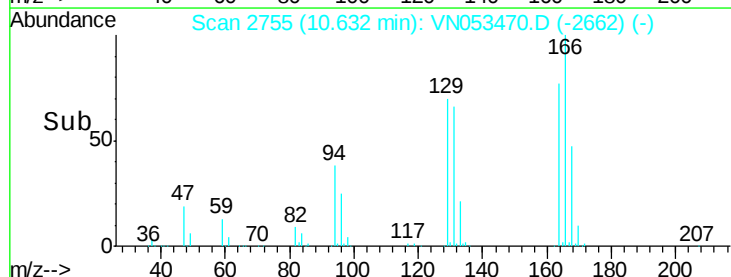
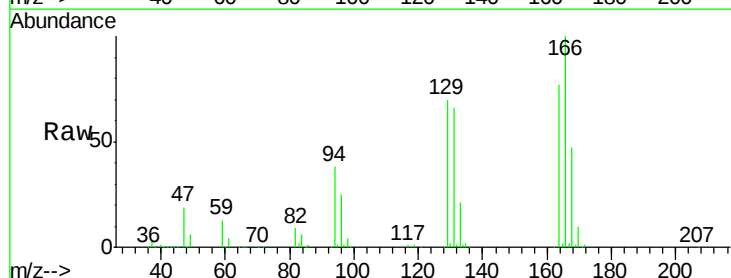
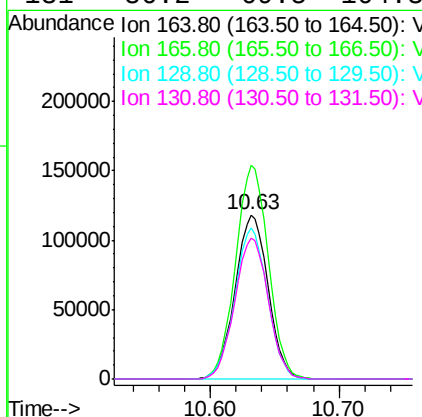
Manual Integrations
APPROVED

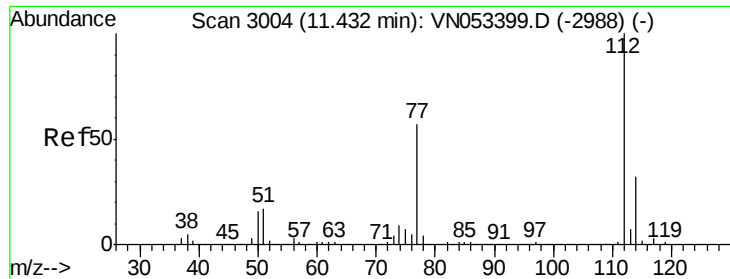
MMDadoda
1/21/2019 10:48:11 AM



#64
Tetrachloroethene
Concen: 20.117 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. 0.00 min
Lab File: VN053470.D
Acq: 18 Jan 2019 14:23

Tgt Ion	Ratio	Lower	Upper
164	100		
166	130.3	102.2	153.4
129	91.8	72.6	109.0
131	86.2	69.5	104.3





#65

Chlorobenzene

Concen: 20.313 ug/l

RT: 11.43 min Scan# 3004

Delta R.T. 0.00 min

Lab File: VN053470.D

Acq: 18 Jan 2019 14:23

Instrument :

MSVOA_N

ClientSampleId :

VN0118WBS02

Tot Ion:112 Resp: 476757

Ion Ratio Lower Upper

112 100

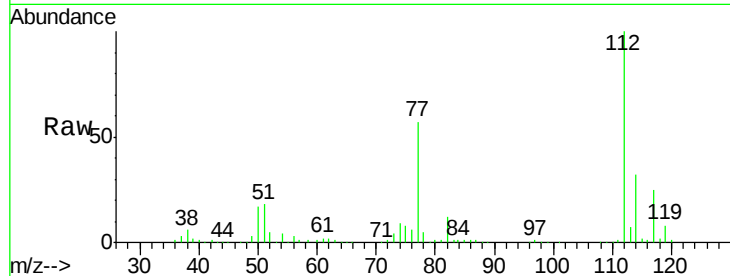
114 32.1 25.3 37.9

Manual Integrations

APPROVED

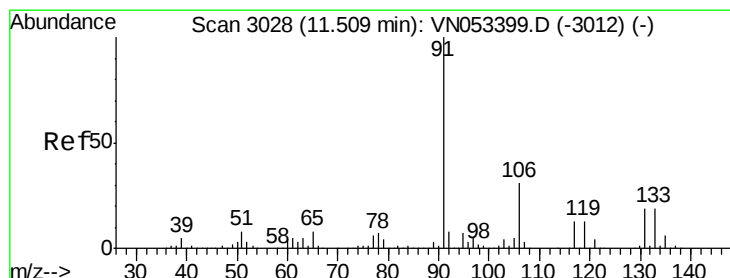
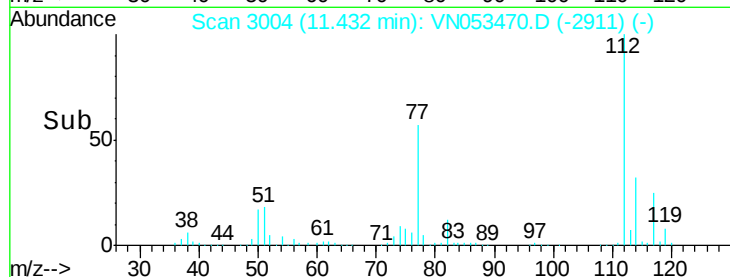
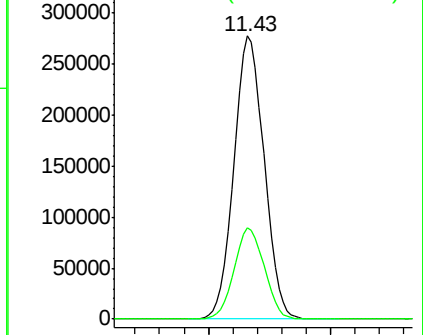
MMDadoda

1/21/2019 10:48:11 AM



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V



#66

1,1,1,2-Tetrachloroethane

Concen: 20.292 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. 0.00 min

Lab File: VN053470.D

Acq: 18 Jan 2019 14:23

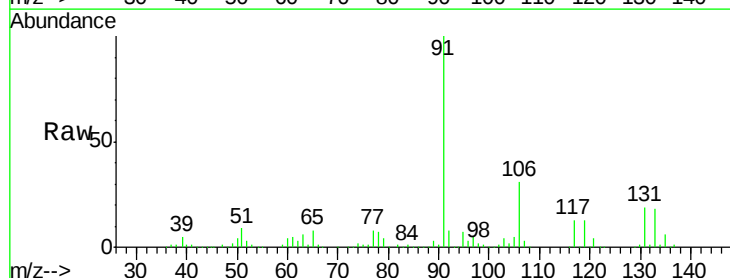
Tgt Ion:131 Resp: 165684

Ion Ratio Lower Upper

131 100

133 94.8 48.0 144.0

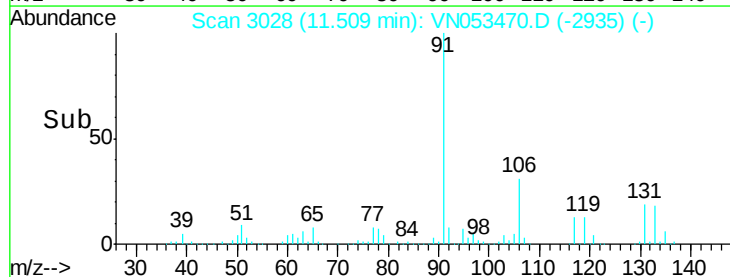
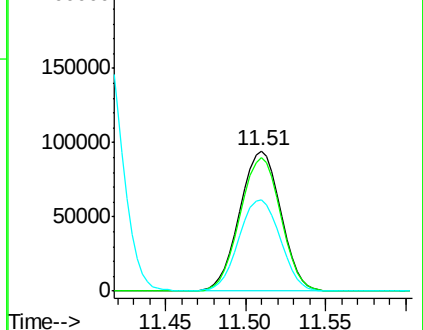
119 65.8 33.5 100.5

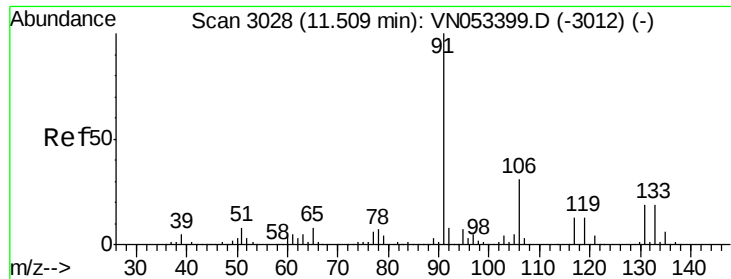


Abundance Ion 130.80 (130.50 to 131.50): V

Ion 132.80 (132.50 to 133.50): V

Ion 118.80 (118.50 to 119.50): V





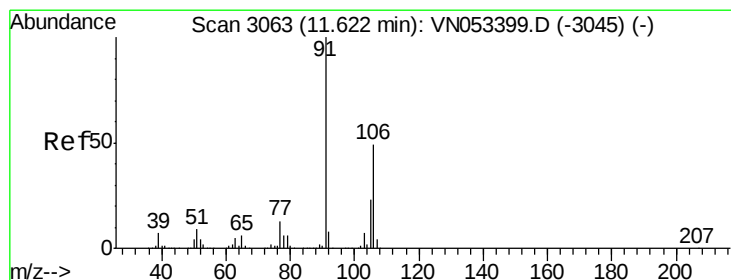
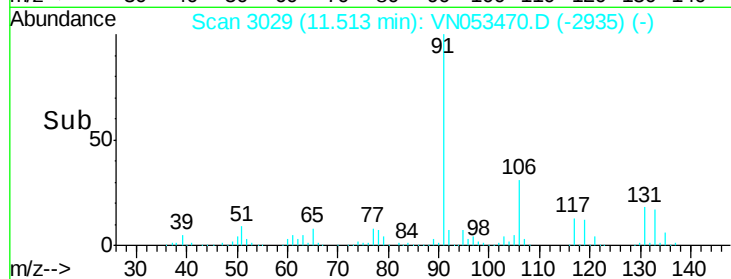
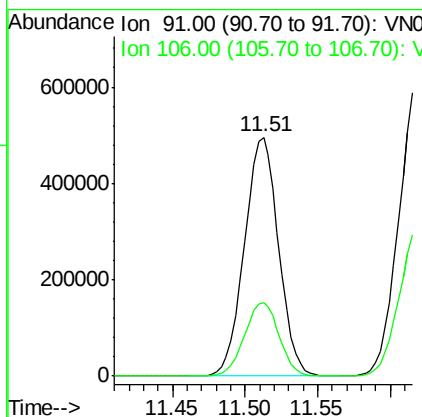
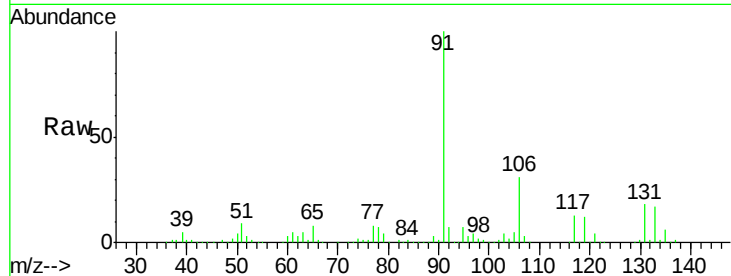
#67
Ethyl Benzene
Concen: 20.289 ug/l
RT: 11.51 min Scan# 3029
Delta R.T. 0.00 min
Lab File: VN053470.D
Acq: 18 Jan 2019 14:23

Instrument :
MSVOA_N
ClientSampled :
VN0118WBS02

Tot Ion: 91 Resp: 811556
Ion Ratio Lower Upper
91 100
106 30.8 25.0 37.6

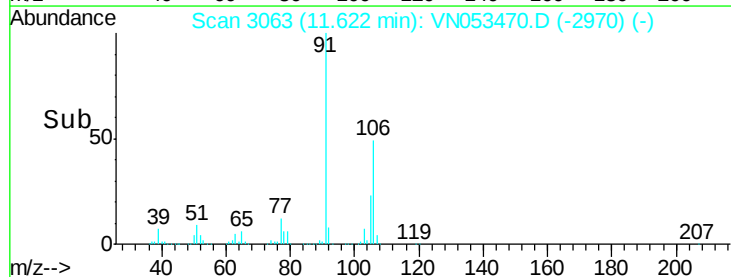
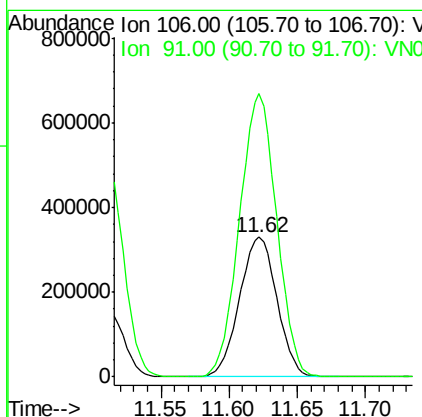
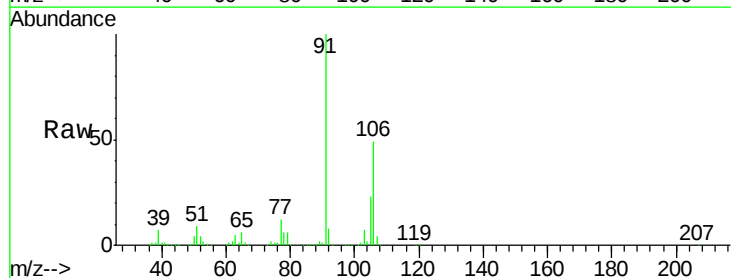
Manual Integrations
APPROVED

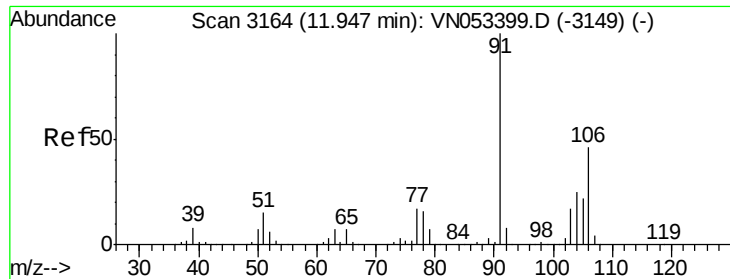
MMDadoda
1/21/2019 10:48:11 AM



#68
m/p-Xylenes
Concen: 41.743 ug/l
RT: 11.62 min Scan# 3063
Delta R.T. 0.00 min
Lab File: VN053470.D
Acq: 18 Jan 2019 14:23

Tgt Ion: 106 Resp: 630403
Ion Ratio Lower Upper
106 100
91 200.4 161.4 242.2





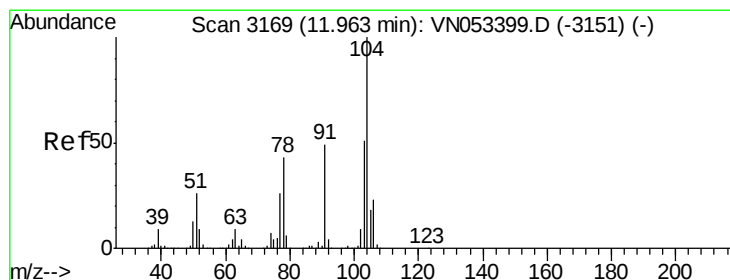
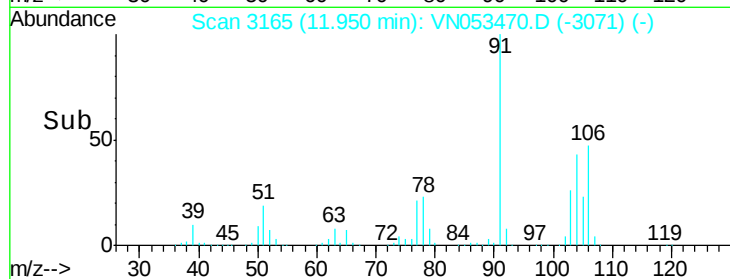
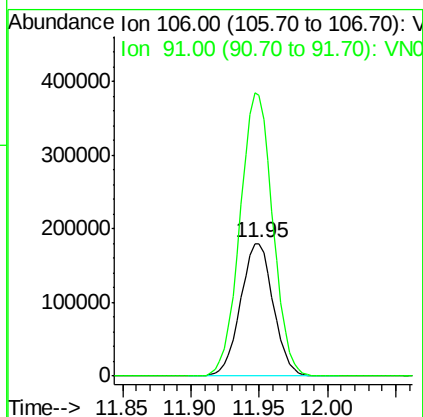
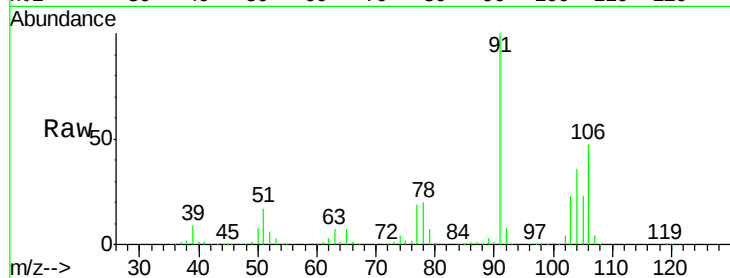
#69
o-Xylene
Concen: 20.422 ug/l
RT: 11.95 min Scan# 3165
Delta R.T. 0.00 min
Lab File: VN053470.D
Acq: 18 Jan 2019 14:23

Instrument :
MSVOA_N
ClientSampled :
VN0118WBS02

Tot Ion:106 Resp: 299676
Ion Ratio Lower Upper
106 100
91 213.7 106.9 320.8

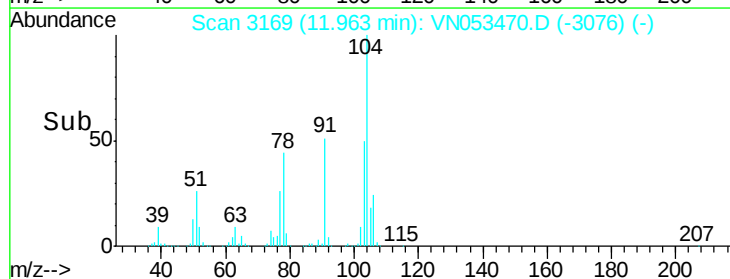
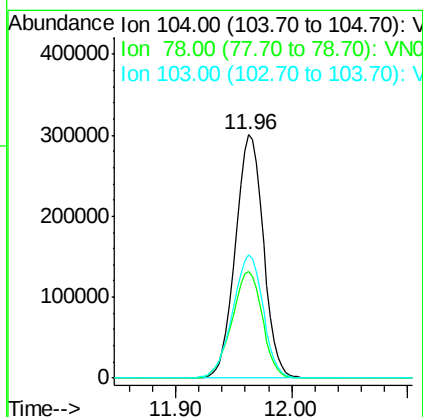
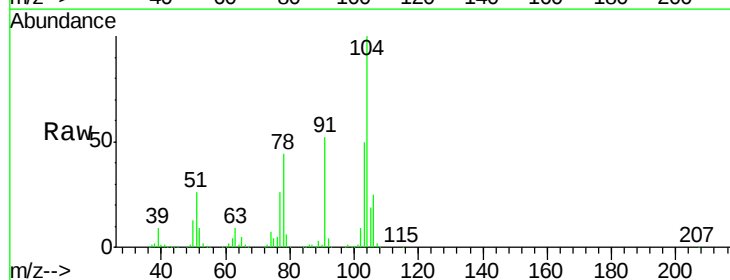
Manual Integrations
APPROVED

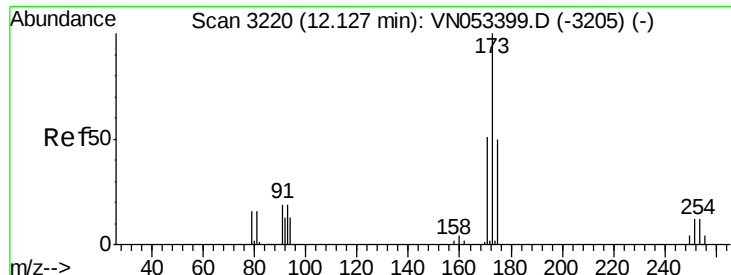
MMDadoda
1/21/2019 10:48:11 AM



#70
Styrene
Concen: 21.056 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. 0.00 min
Lab File: VN053470.D
Acq: 18 Jan 2019 14:23

Tgt Ion:104 Resp: 501480
Ion Ratio Lower Upper
104 100
78 47.7 38.2 57.2
103 54.9 44.4 66.6





#71

Bromoform

Concen: 20.526 ug/l

RT: 12.13 min Scan# 3220

Delta R.T. 0.00 min

Lab File: VN053470.D

Acq: 18 Jan 2019 14:23

Instrument :

MSVOA_N

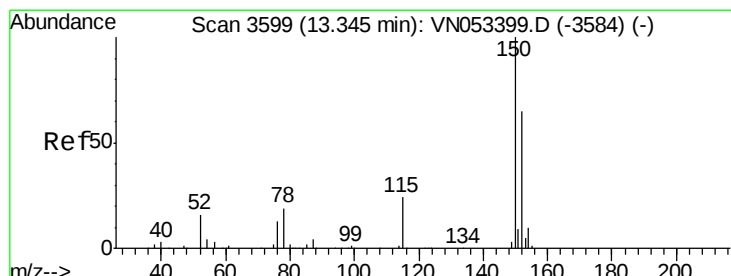
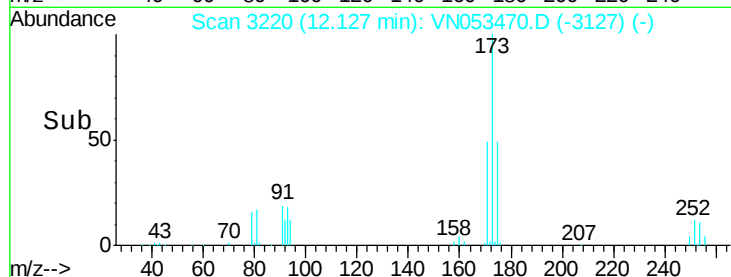
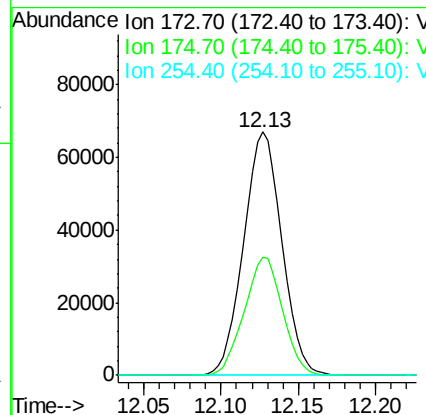
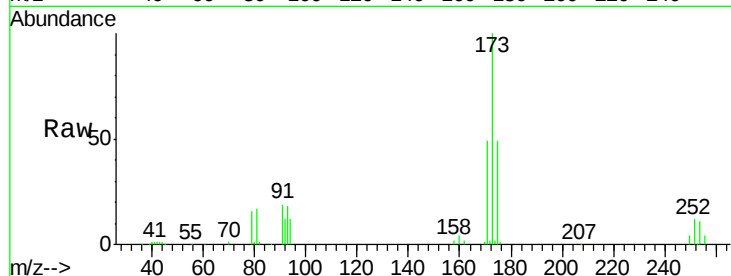
ClientSampled :

VN0118WBS02

Tot Ion	Ratio	Lower	Upper
173	100		
175	48.6	24.6	74.0
254	0.0	0.2	0.2

Manual Integrations
APPROVED

MMDadoda
1/21/2019 10:48:11 AM



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

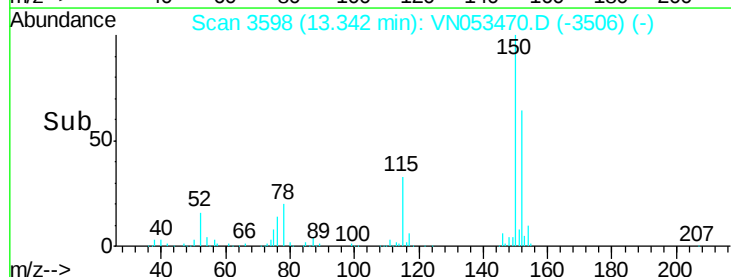
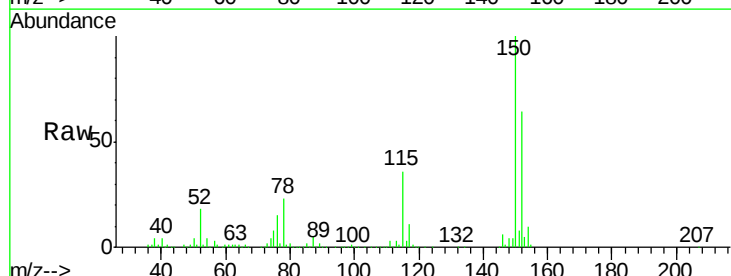
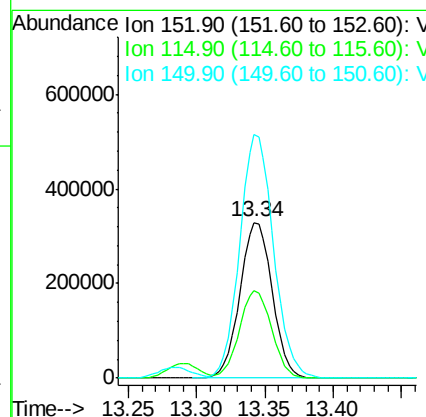
RT: 13.34 min Scan# 3598

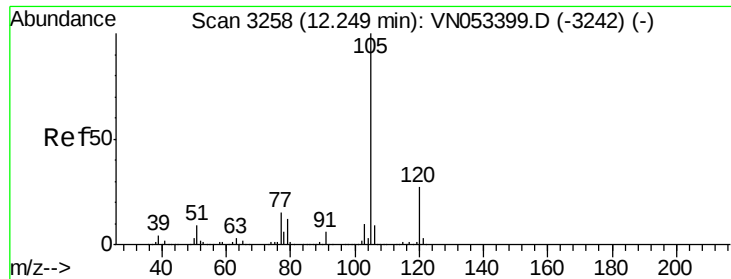
Delta R.T. -0.00 min

Lab File: VN053470.D

Acq: 18 Jan 2019 14:23

Tgt Ion	Ratio	Lower	Upper
152	100		
115	56.0	27.8	83.4
150	164.1	0.0	349.0





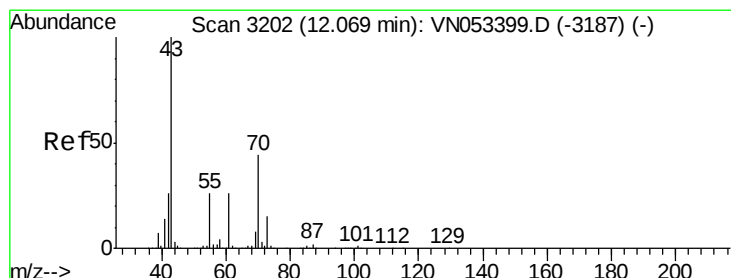
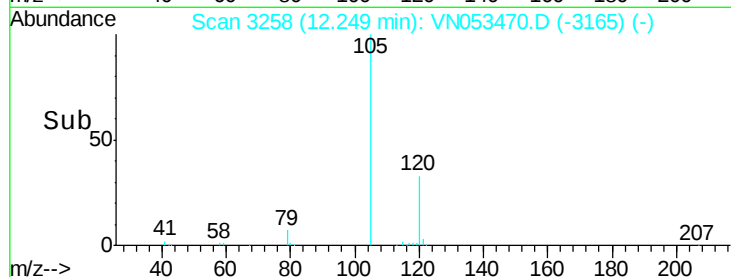
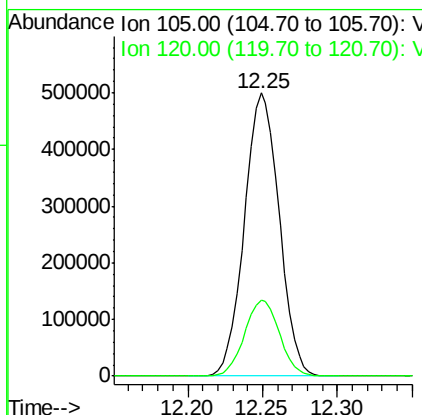
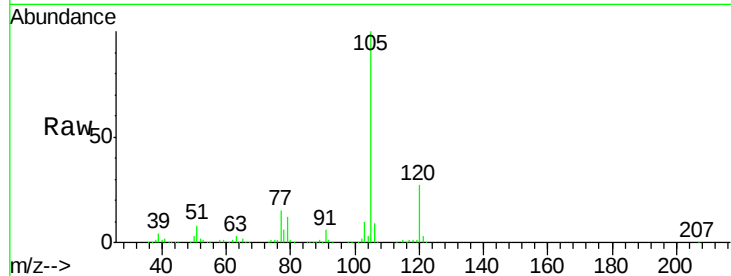
#73
Isopropylbenzene
Concen: 20.459 ug/l
RT: 12.25 min Scan# 3258
Delta R.T. 0.00 min
Lab File: VN053470.D
Acq: 18 Jan 2019 14:23

Instrument :
MSVOA_N
ClientSampleId :
VN0118WBS02

Tot Ion	Ratio	Lower	Upper
105	100		
120	26.9	13.6	40.7

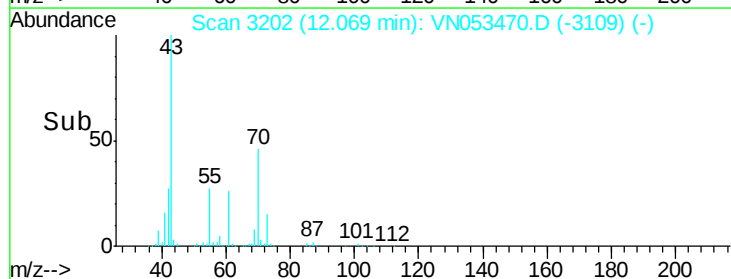
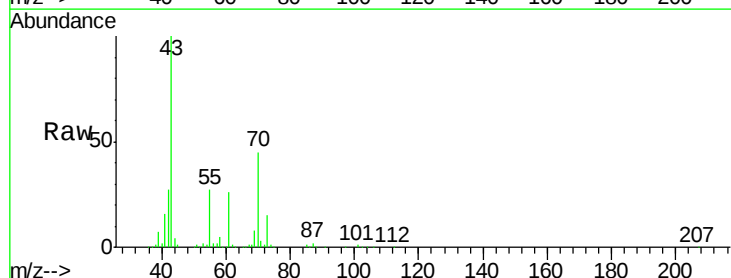
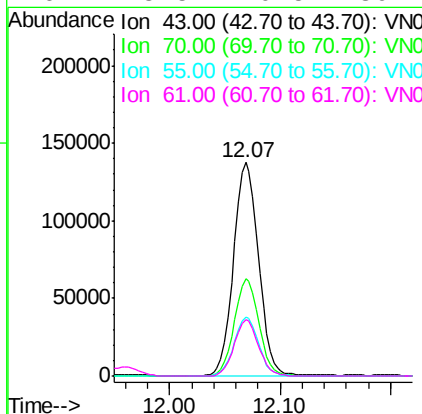
Manual Integrations
APPROVED

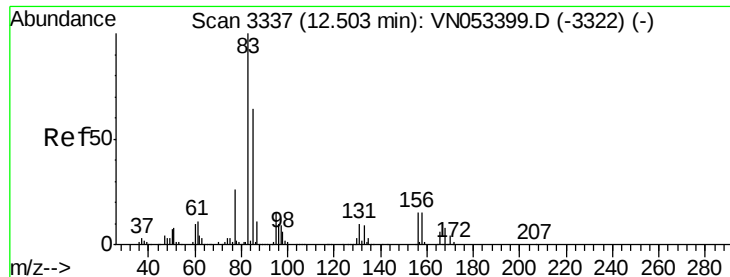
MMDadoda
1/21/2019 10:48:11 AM



#74
N-ethyl acetate
Concen: 20.526 ug/l
RT: 12.07 min Scan# 3202
Delta R.T. 0.00 min
Lab File: VN053470.D
Acq: 18 Jan 2019 14:23

Tgt Ion	Ratio	Lower	Upper
43	100		
70	44.7	35.4	53.2
55	27.0	20.9	31.3
61	25.5	20.5	30.7





#75

1,1,2,2-Tetrachloroethane

Concen: 21.029 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. 0.00 min

Lab File: VN053470.D

Acq: 18 Jan 2019 14:23

Instrument :

MSVOA_N

ClientSampleId :

VN0118WBS02

Tot Ion: 83 Resp: 174226
Ion Ratio Lower Upper

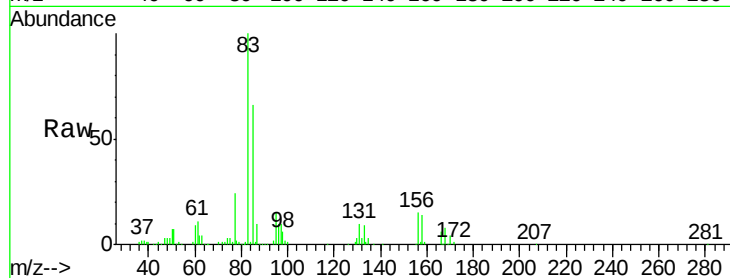
83 100

131 10.5 5.3 15.8

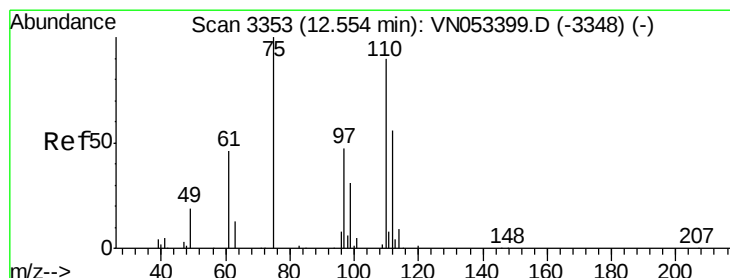
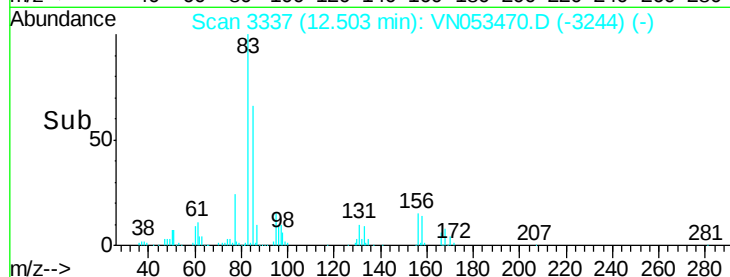
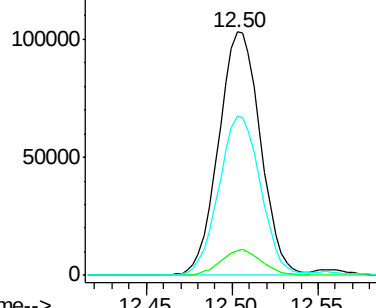
85 65.2 32.1 96.3

Manual Integrations
APPROVED

MMDadoda
1/21/2019 10:48:11 AM



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



#76

1,2,3-Trichloropropane

Concen: 21.209 ug/l m

RT: 12.55 min Scan# 3353

Delta R.T. 0.00 min

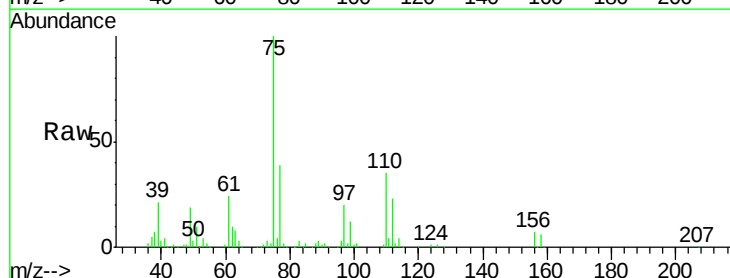
Lab File: VN053470.D

Acq: 18 Jan 2019 14:23

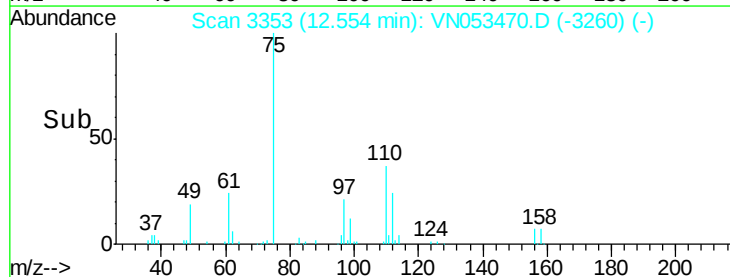
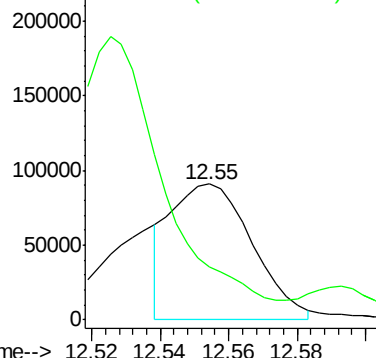
Tgt Ion: 75 Resp: 150773
Ion Ratio Lower Upper

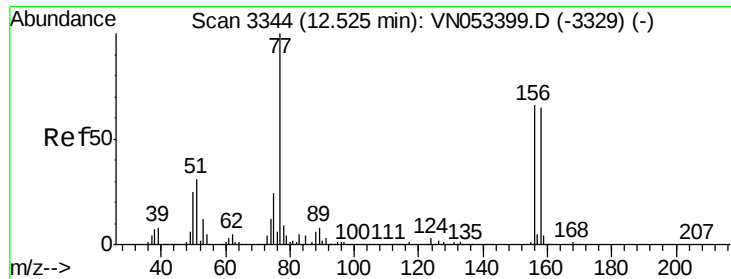
75 100

77 0.0 0.0 0.0



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





#77

Bromobenzene

Concen: 20.409 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. 0.00 min

Lab File: VN053470.D

Acq: 18 Jan 2019 14:23

Instrument :

MSVOA_N

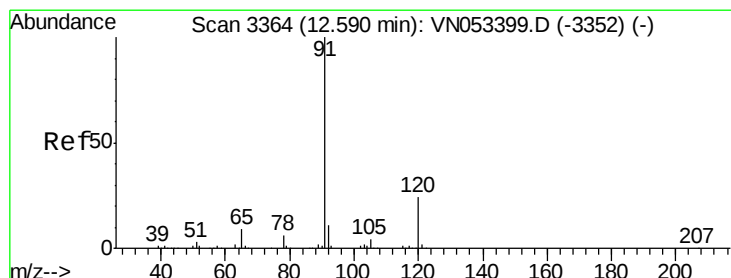
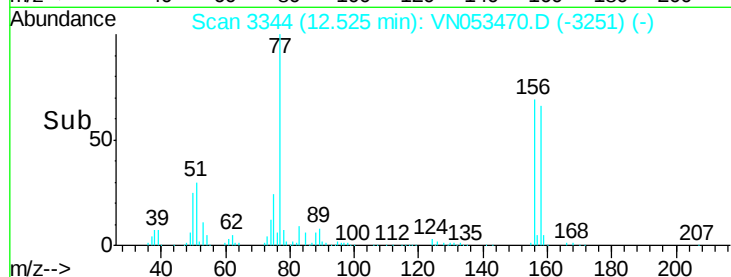
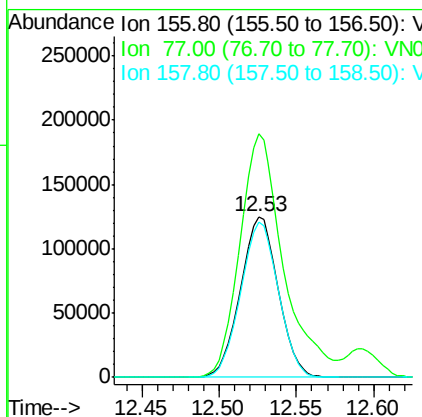
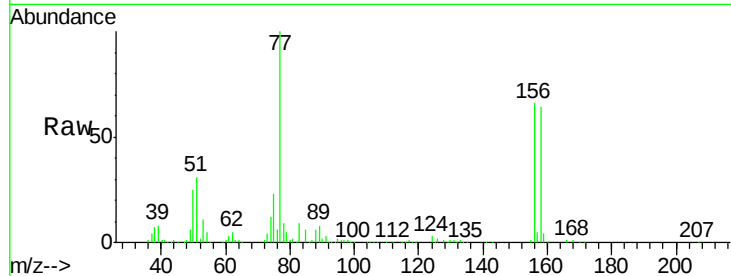
ClientSampled :

VN0118WBS02

Tot Ion:	156	Resp:	212444
Ion Ratio	Lower	Upper	
156	100		
77	175.5	87.9	263.8
158	96.5	48.8	146.4

Manual Integrations
APPROVED

MMDadoda
1/21/2019 10:48:11 AM



#78

n-propylbenzene

Concen: 20.633 ug/l

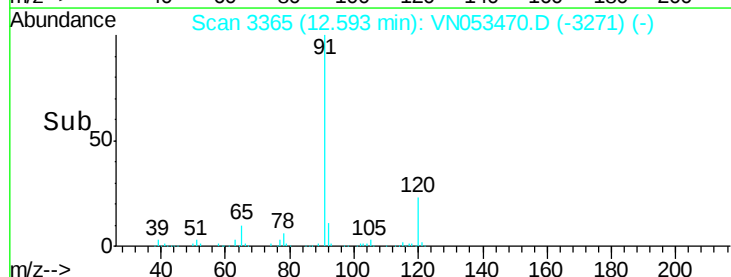
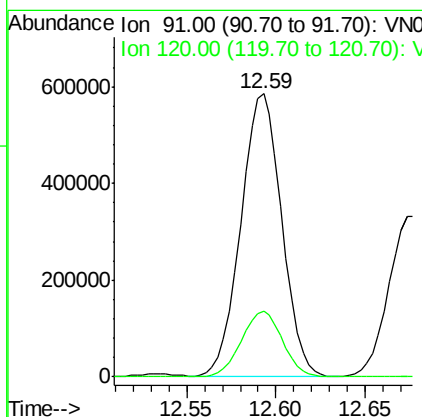
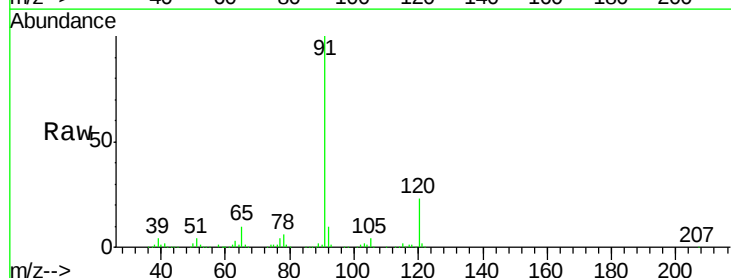
RT: 12.59 min Scan# 3365

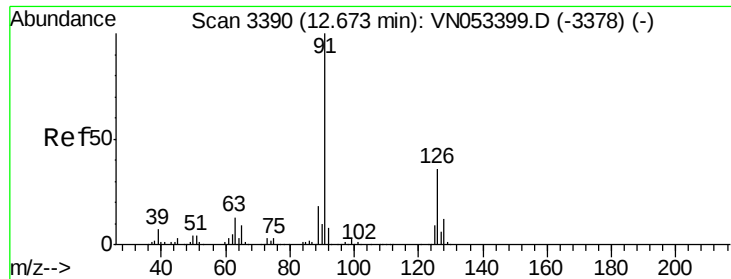
Delta R.T. 0.00 min

Lab File: VN053470.D

Acq: 18 Jan 2019 14:23

Tgt Ion:	91	Resp:	935607
Ion Ratio	Lower	Upper	
91	100		
120	23.3	11.9	35.5





#79

2-Chlorotoluene

Concen: 20.509 ug/l

RT: 12.68 min Scan# 3391

Delta R.T. 0.00 min

Lab File: VN053470.D

Acq: 18 Jan 2019 14:23

Instrument :

MSVOA_N

ClientSampled :

VN0118WBS02

Tot Ion: 91 Resp: 551237

Ion Ratio Lower Upper

91 100

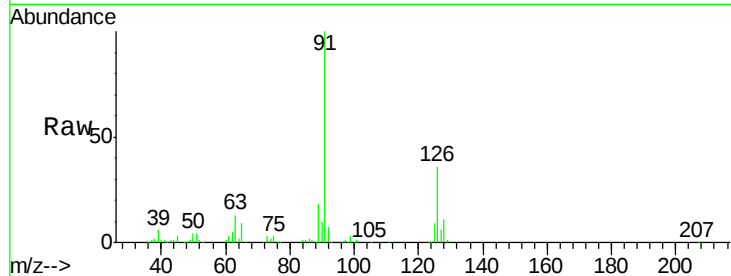
126 35.3 17.9 53.7

Manual Integrations

APPROVED

MMDadoda

1/21/2019 10:48:11 AM



Abundance Ion 91.00 (90.70 to 91.70): VN053399.D (-3378) (-)

Ion 125.90 (125.60 to 126.60): VN053399.D (-3378) (-)

600000

500000

400000

300000

200000

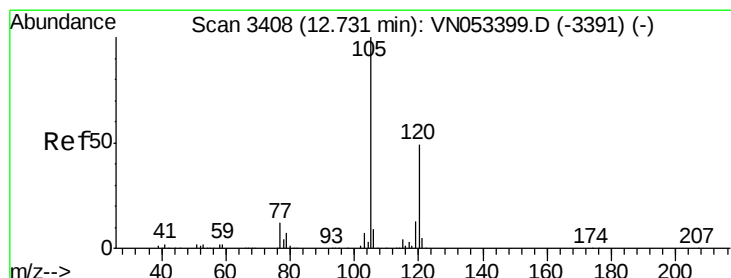
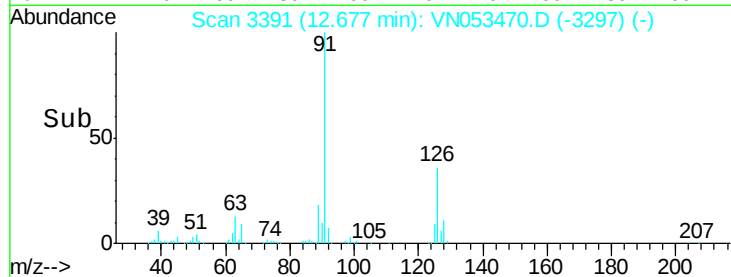
100000

0

12.60 12.65 12.70

12.68

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 20.722 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN053470.D

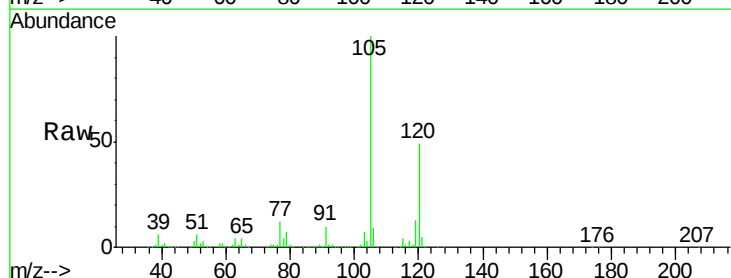
Acq: 18 Jan 2019 14:23

Tgt Ion: 105 Resp: 666031

Ion Ratio Lower Upper

105 100

120 48.9 24.9 74.6



Abundance Ion 105.00 (104.70 to 105.70): VN053399.D (-3391) (-)

Ion 120.00 (119.70 to 120.70): VN053399.D (-3391) (-)

500000

400000

300000

200000

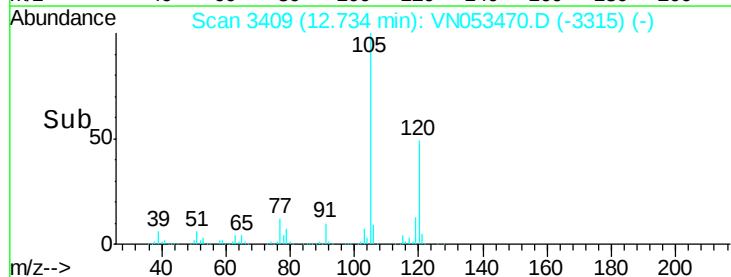
100000

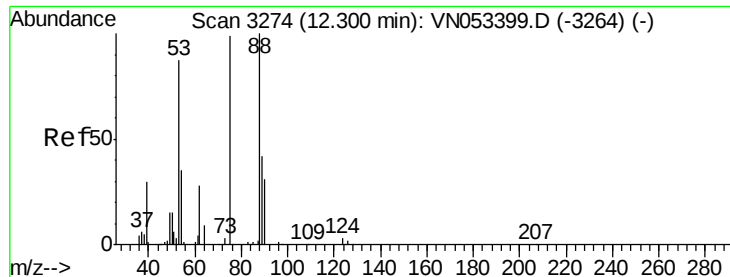
0

12.65 12.70 12.75 12.80

12.73

Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 19.779 ug/l

RT: 12.30 min Scan# 3274

Delta R.T. 0.00 min

Lab File: VN053470.D

Acq: 18 Jan 2019 14:23

Instrument :

MSVOA_N

ClientSampleId :

VN0118WBS02

Tot Ion: 75 Resp: 51029

Ion Ratio Lower Upper

75 100

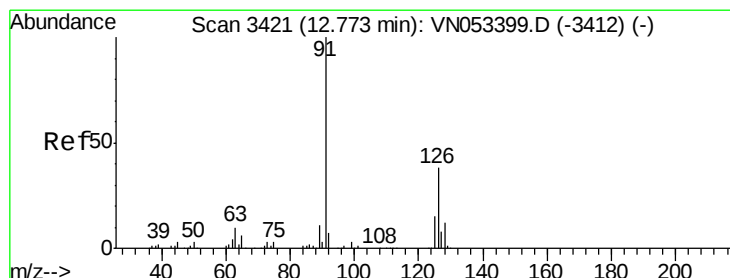
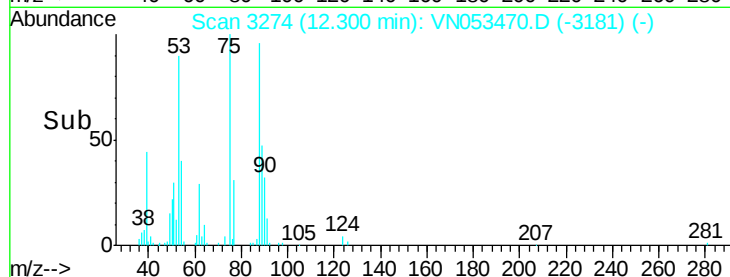
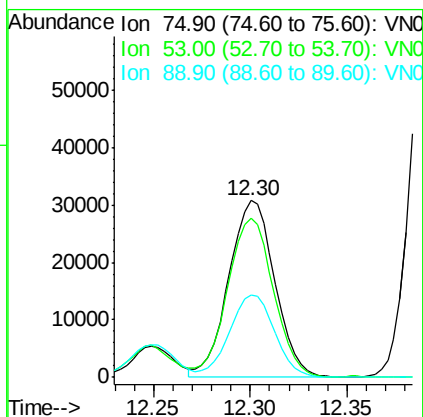
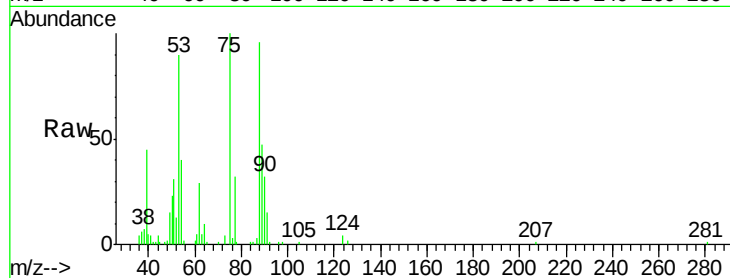
53 89.9 69.8 104.6

89 45.8 35.6 53.4

Manual Integrations
APPROVED

MMDadoda

1/21/2019 10:48:11 AM



#82

4-Chlorotoluene

Concen: 20.556 ug/l

RT: 12.77 min Scan# 3421

Delta R.T. 0.00 min

Lab File: VN053470.D

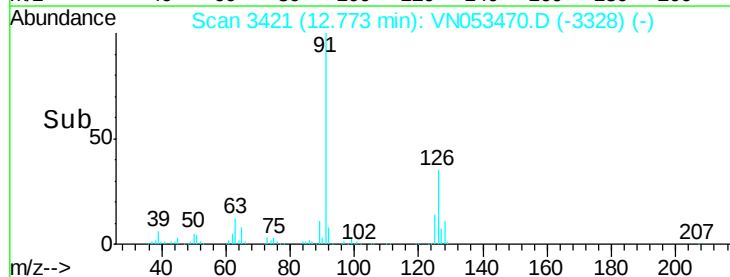
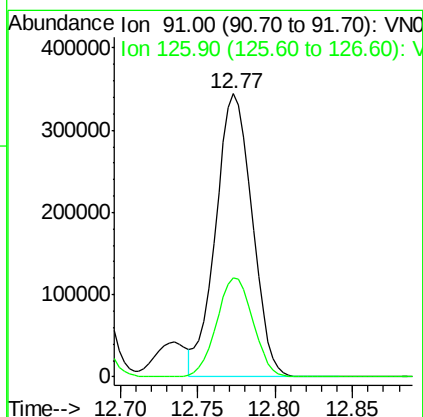
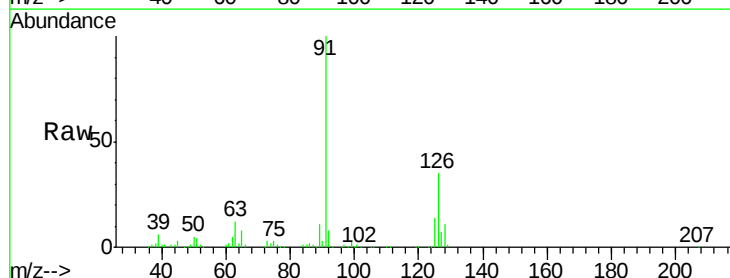
Acq: 18 Jan 2019 14:23

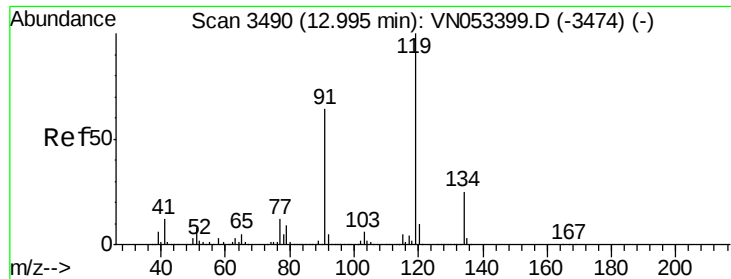
Tgt Ion: 91 Resp: 563447

Ion Ratio Lower Upper

91 100

126 35.1 17.6 52.9





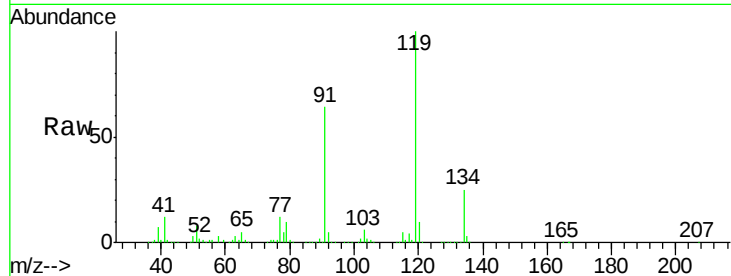
#83
tert-Butylbenzene
Concen: 20.627 ug/l
RT: 12.99 min Scan# 3490
Delta R.T. 0.00 min
Lab File: VN053470.D
Acq: 18 Jan 2019 14:23

Instrument :
MSVOA_N
ClientSampled :
VN0118WBS02

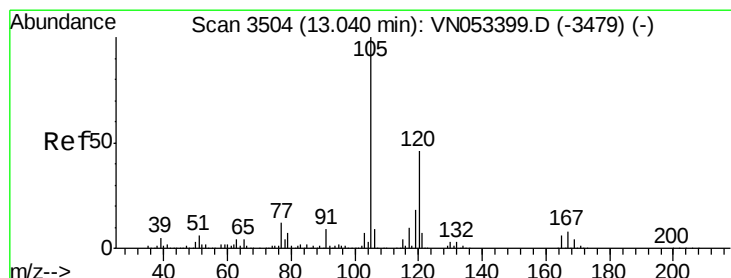
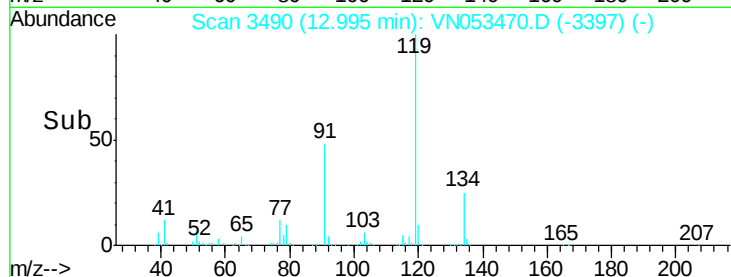
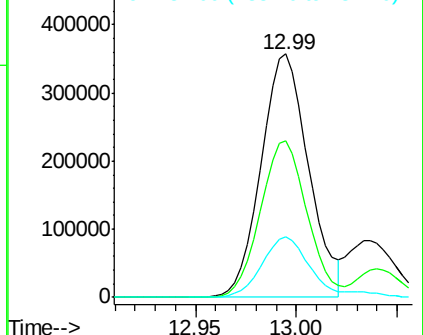
Tot Ion	Ratio	Resp	Lower	Upper
119	100	585553		
91	63.4		31.3	93.8
134	26.0		12.9	38.7

Manual Integrations
APPROVED

MMDadoda
1/21/2019 10:48:11 AM

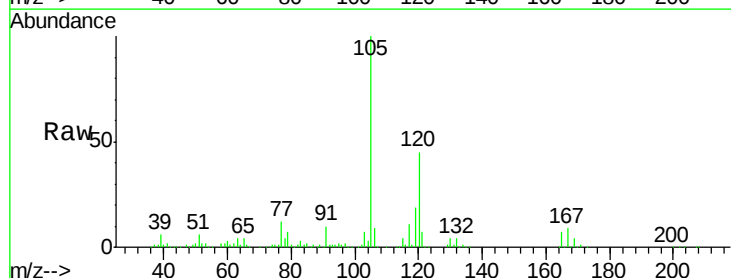


Abundance Ion 119.00 (118.70 to 119.70): V
Ion 91.00 (90.70 to 91.70): V
Ion 134.00 (133.70 to 134.70): V

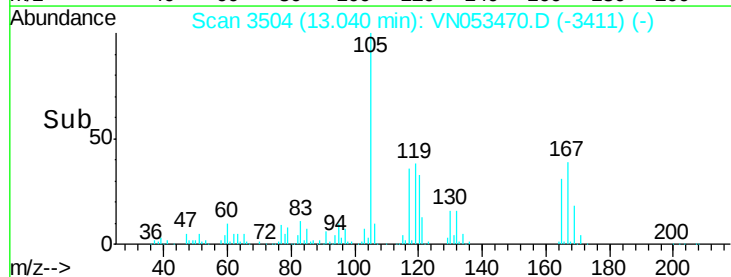
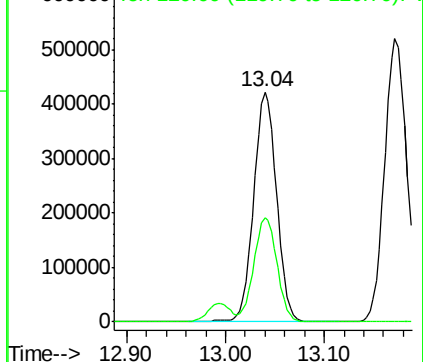


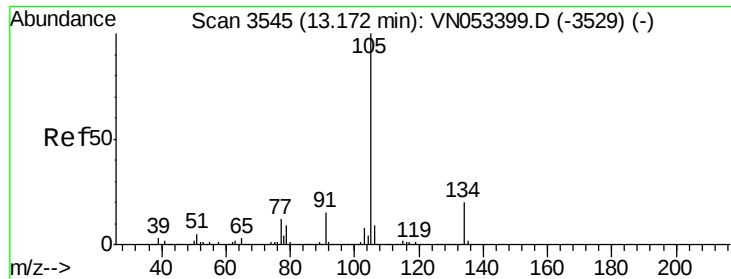
#84
1,2,4-Trimethylbenzene
Concen: 20.773 ug/l
RT: 13.04 min Scan# 3504
Delta R.T. 0.00 min
Lab File: VN053470.D
Acq: 18 Jan 2019 14:23

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	673228		
120	46.0		23.0	69.0



Abundance Ion 105.00 (104.70 to 105.70): V
Ion 120.00 (119.70 to 120.70): V





#85

sec-Butylbenzene

Concen: 20.883 ug/l

RT: 13.17 min Scan# 3545

Delta R.T. 0.00 min

Lab File: VN053470.D

Acq: 18 Jan 2019 14:23

Instrument :

MSVOA_N

ClientSampleId :

VN0118WBS02

Tot Ion:105 Resp: 813016

Ion Ratio Lower Upper

105 100

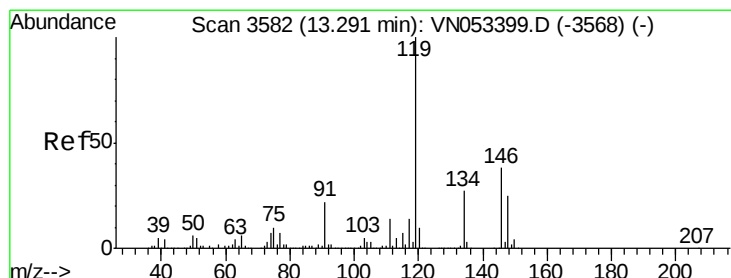
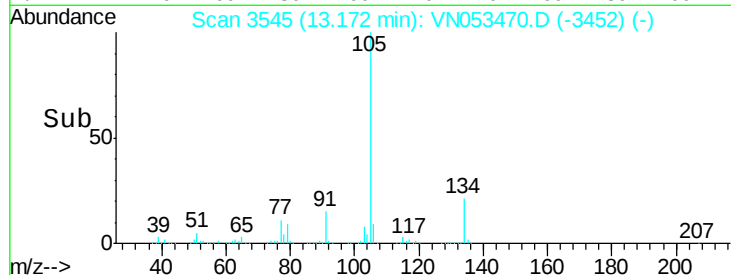
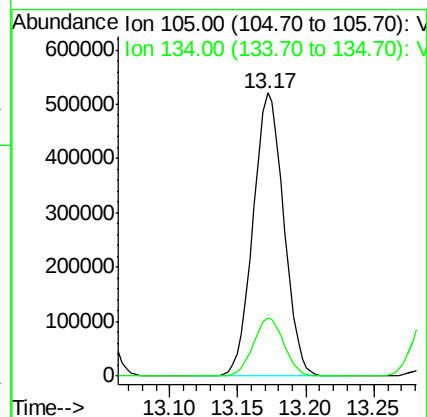
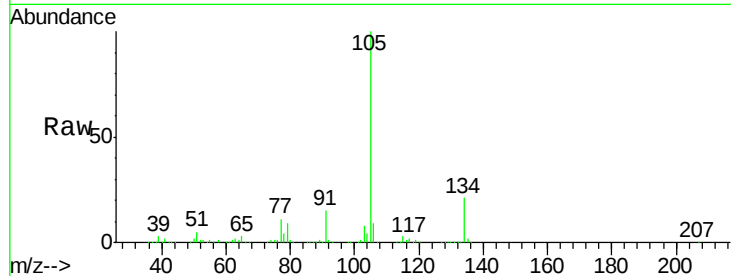
134 20.5 10.2 30.6

Manual Integrations

APPROVED

MMDadoda

1/21/2019 10:48:11 AM



#86

p-Isopropyltoluene

Concen: 20.907 ug/l

RT: 13.29 min Scan# 3582

Delta R.T. 0.00 min

Lab File: VN053470.D

Acq: 18 Jan 2019 14:23

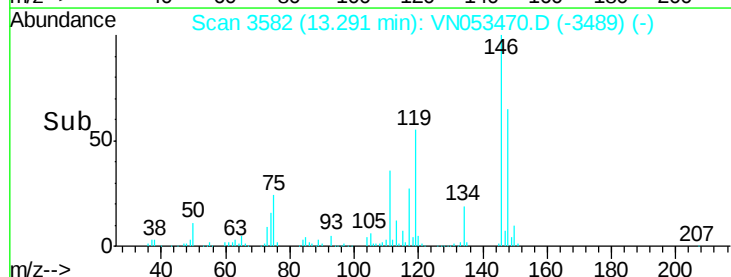
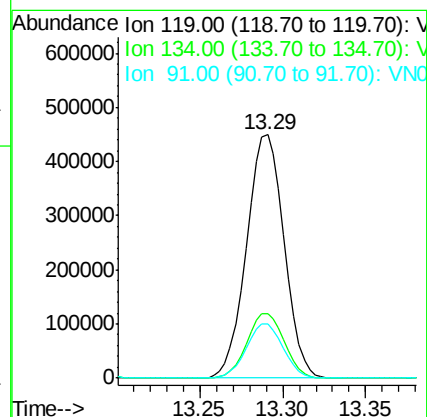
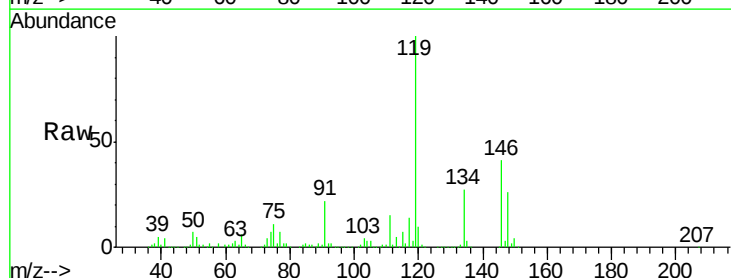
Tgt Ion:119 Resp: 706739

Ion Ratio Lower Upper

119 100

134 26.7 13.5 40.4

91 21.9 11.0 33.0





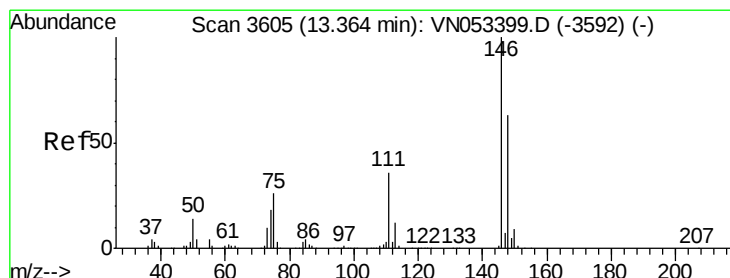
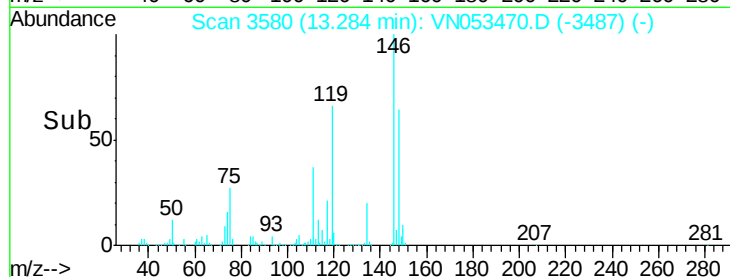
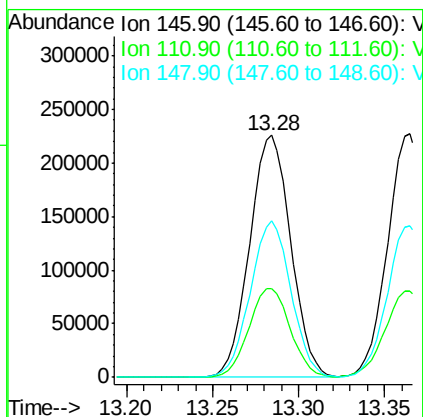
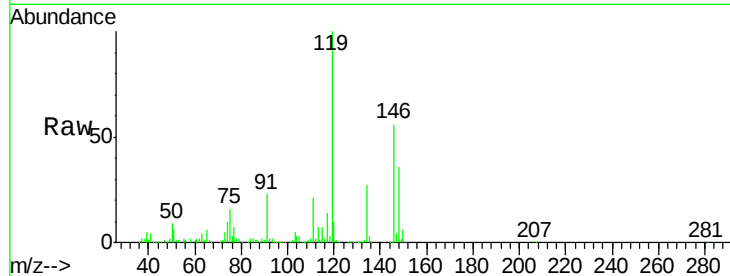
#87
 1,3-Dichlorobenzene
 Concen: 20.511 ug/l
 RT: 13.28 min Scan# 3580
 Delta R.T. 0.00 min
 Lab File: VN053470.D
 Acq: 18 Jan 2019 14:23

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0118WBS02

Tot Ion	Ratio	Lower	Upper
146	100		
111	36.9	18.8	56.3
148	63.8	32.0	96.2

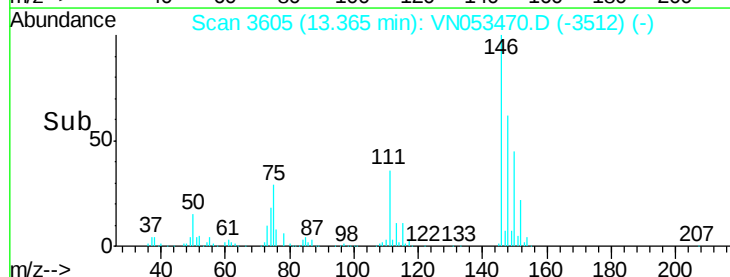
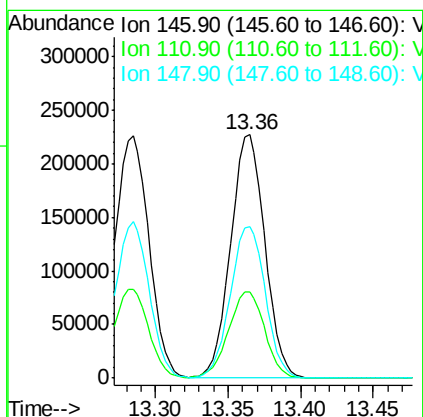
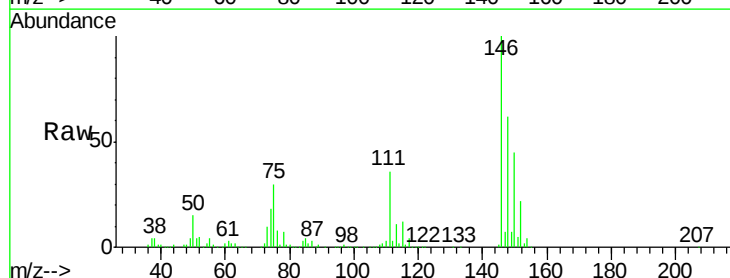
Manual Integrations
 APPROVED

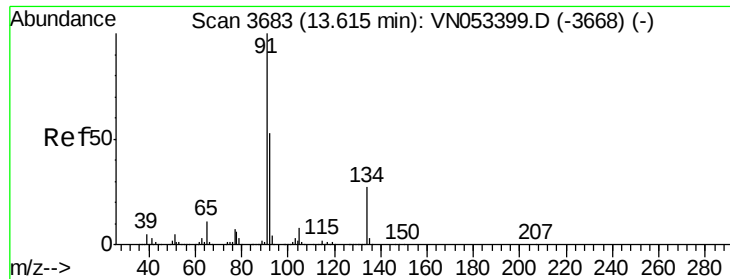
MMDadoda
 1/21/2019 10:48:11 AM



#88
 1,4-Dichlorobenzene
 Concen: 20.320 ug/l
 RT: 13.36 min Scan# 3605
 Delta R.T. 0.00 min
 Lab File: VN053470.D
 Acq: 18 Jan 2019 14:23

Tgt Ion	Ratio	Lower	Upper
146	100		
111	37.6	18.6	55.8
148	63.6	32.4	97.0





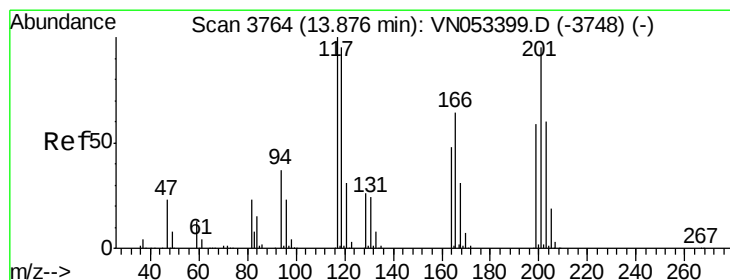
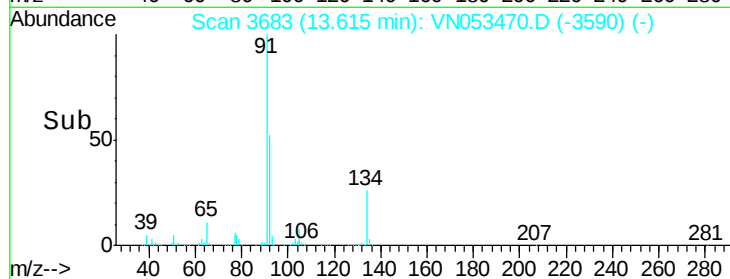
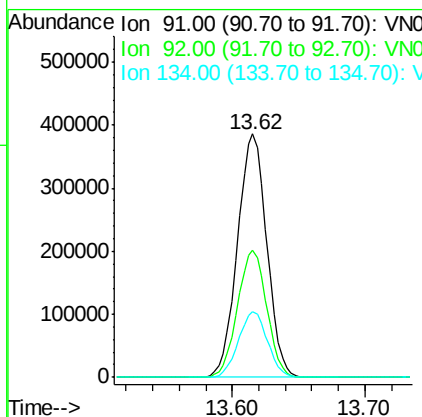
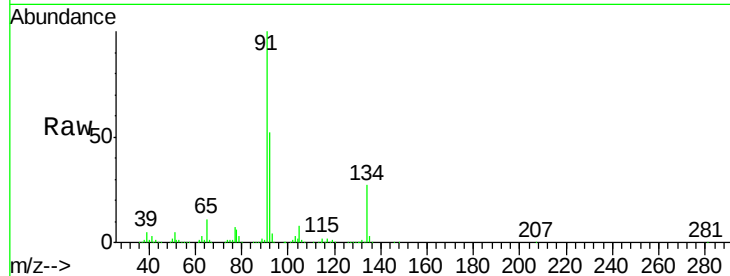
#89
n-Butylbenzene
Concen: 20.520 ug/l
RT: 13.62 min Scan# 3683
Delta R.T. 0.00 min
Lab File: VN053470.D
Acq: 18 Jan 2019 14:23

Instrument :
MSVOA_N
ClientSampleId :
VN0118WBS02

Tot Ion	Ion	Ratio	Resp	Lower	Upper
91	100		591300		
92	52.2	26.3	78.8		
134	26.8	13.5	40.5		

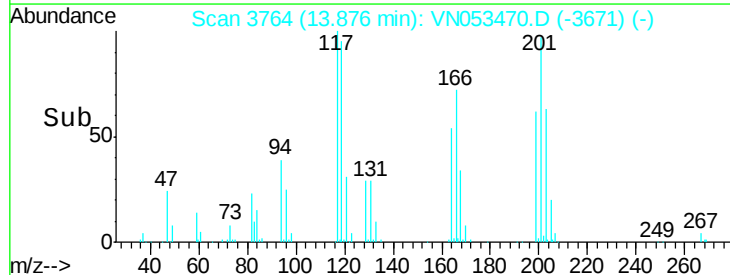
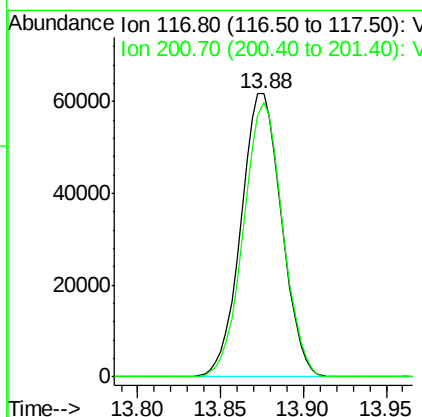
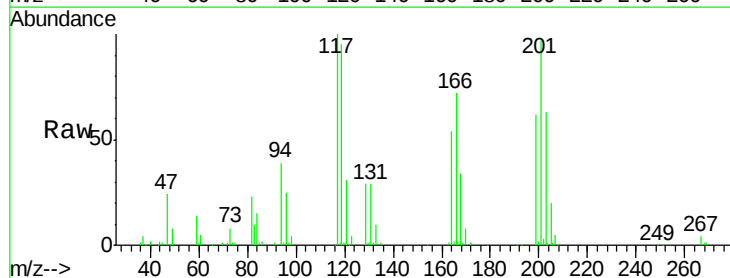
Manual Integrations
APPROVED

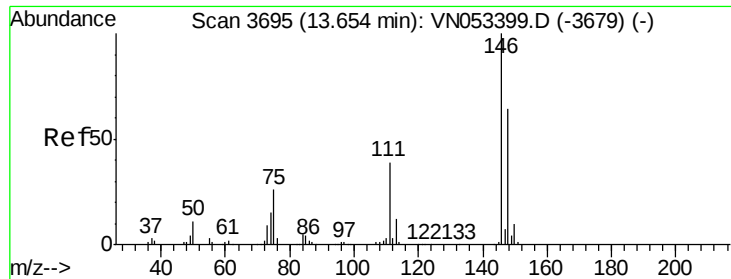
MMDadoda
1/21/2019 10:48:11 AM



#90
Hexachloroethane
Concen: 19.815 ug/l
RT: 13.88 min Scan# 3764
Delta R.T. 0.00 min
Lab File: VN053470.D
Acq: 18 Jan 2019 14:23

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
117	100		105056		
201	93.5	46.8	140.4		





#91

1,2-Dichlorobenzene

Concen: 20.744 ug/l

RT: 13.65 min Scan# 3695

Delta R.T. 0.00 min

Lab File: VN053470.D

Acq: 18 Jan 2019 14:23

Instrument :

MSVOA_N

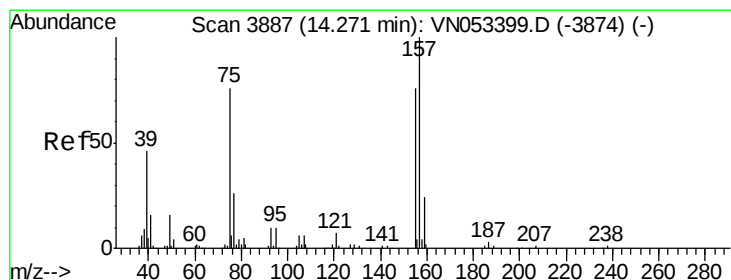
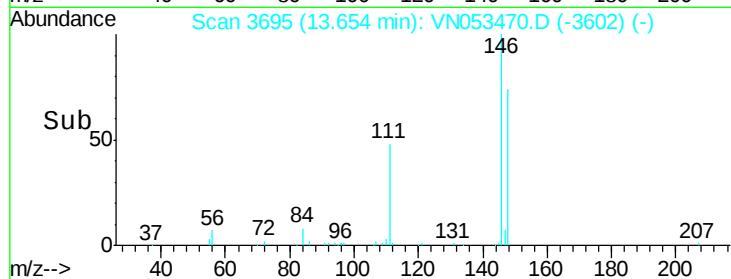
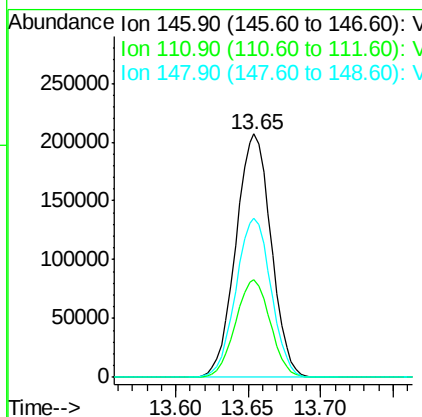
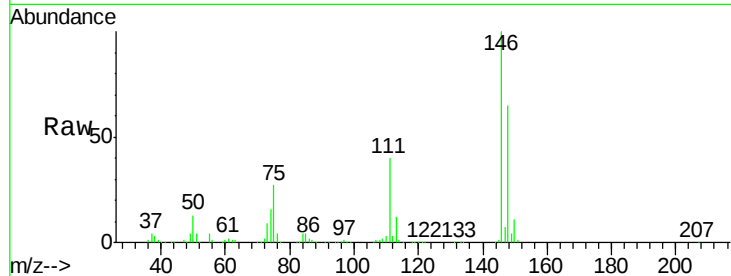
ClientSampleId :

VN0118WBS02

Tot Ion:	146	Resp:	349445
Ion Ratio	Lower	Upper	
146	100		
111	39.5	19.5	58.5
148	65.2	31.9	95.9

Manual Integrations
APPROVED

MMDadoda
1/21/2019 10:48:11 AM



#92

1,2-Dibromo-3-Chloropropane

Concen: 21.643 ug/l

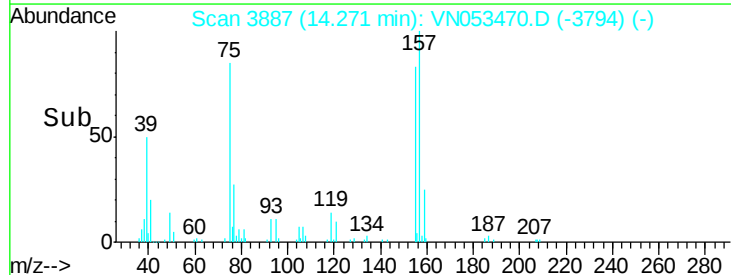
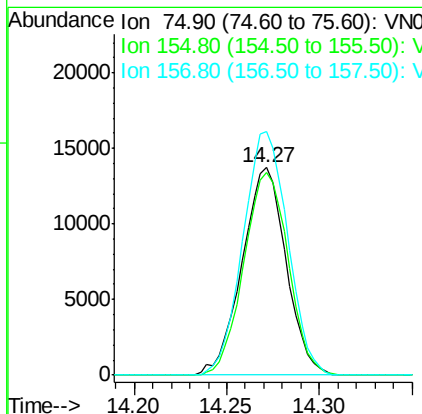
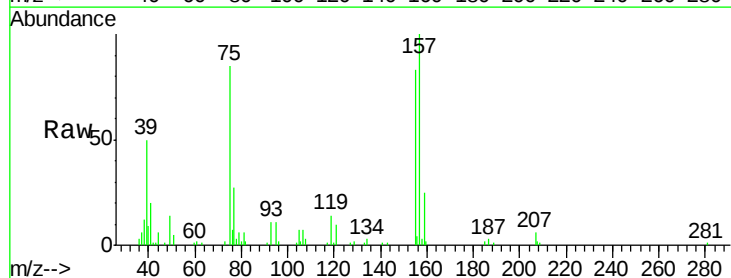
RT: 14.27 min Scan# 3887

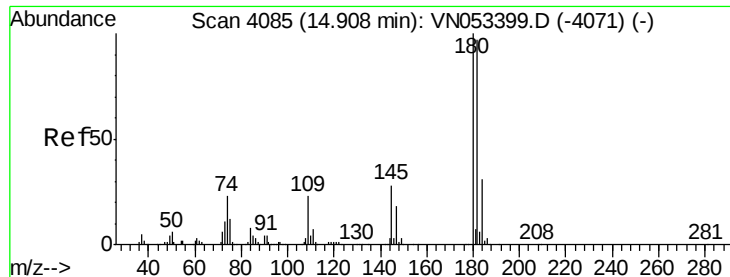
Delta R.T. 0.00 min

Lab File: VN053470.D

Acq: 18 Jan 2019 14:23

Tgt Ion:	75	Resp:	22736
Ion Ratio	Lower	Upper	
75	100		
155	98.4	48.9	146.7
157	119.6	63.7	191.3





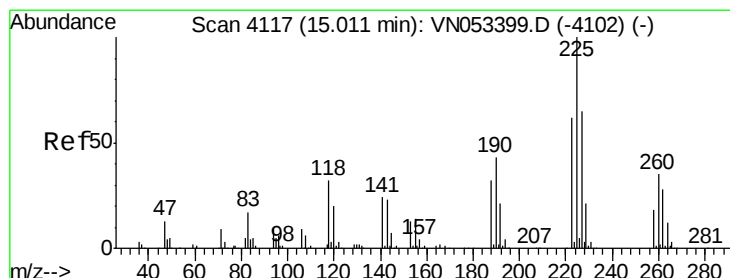
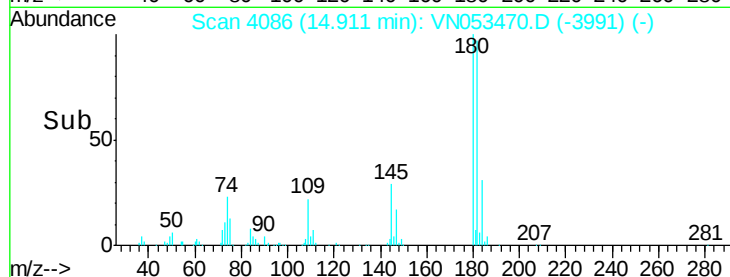
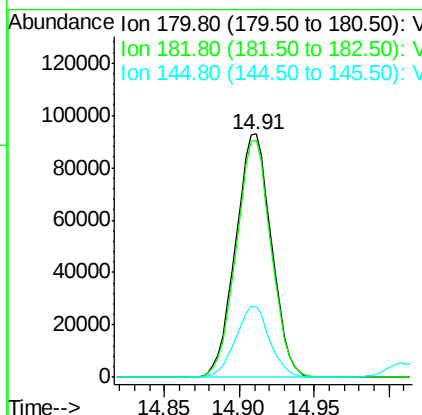
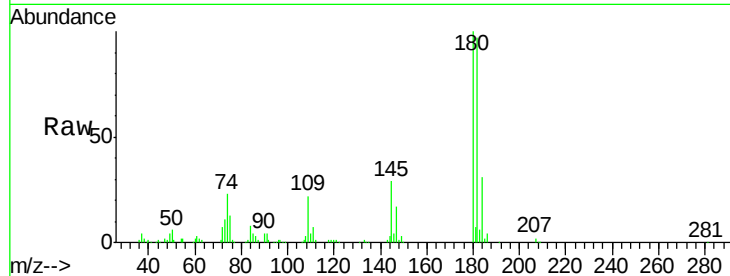
#93
 1,2,4-Trichlorobenzene
 Concen: 22.407 ug/l
 RT: 14.91 min Scan# 4086
 Delta R.T. 0.00 min
 Lab File: VN053470.D
 Acq: 18 Jan 2019 14:23

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0118WBS02

Tot Ion	Ratio	Resp	Lower	Upper
180	100			
182	95.1	48.1	144.3	
145	27.7	13.9	41.6	

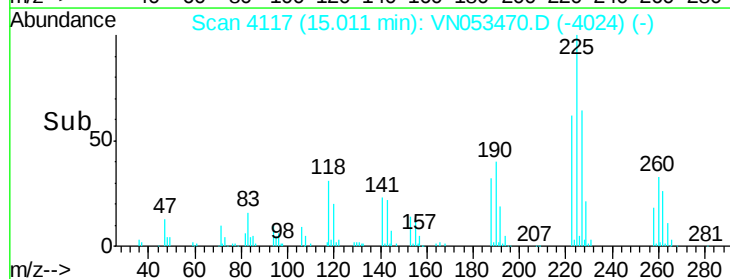
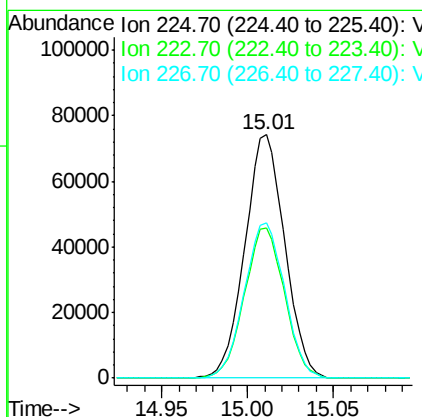
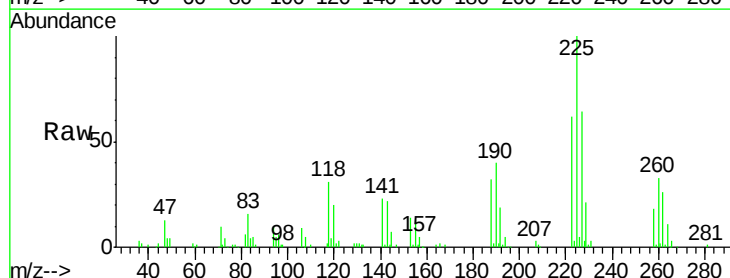
Manual Integrations
 APPROVED

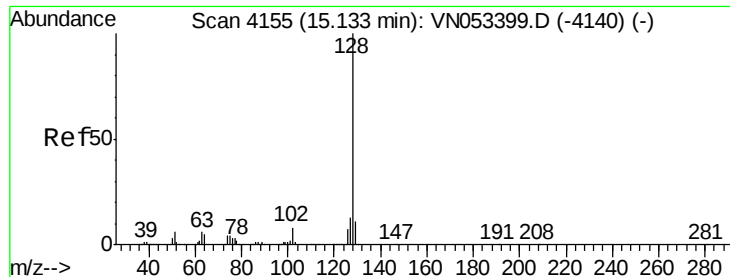
MMDadoda
 1/21/2019 10:48:11 AM



#94
 Hexachlorobutadiene
 Concen: 22.769 ug/l
 RT: 15.01 min Scan# 4117
 Delta R.T. 0.00 min
 Lab File: VN053470.D
 Acq: 18 Jan 2019 14:23

Tgt Ion	Ratio	Resp	Lower	Upper
225	100			
223	62.1	31.1	93.2	
227	64.5	32.0	96.2	





#95

Naphthalene

Concen: 21.528 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN053470.D

Acq: 18 Jan 2019 14:23

Instrument :

MSVOA_N

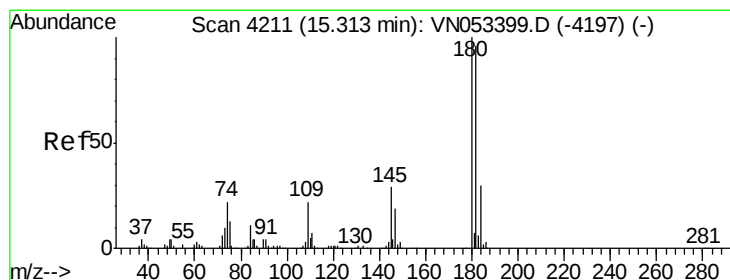
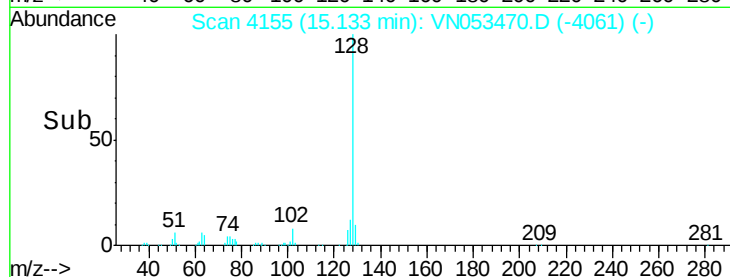
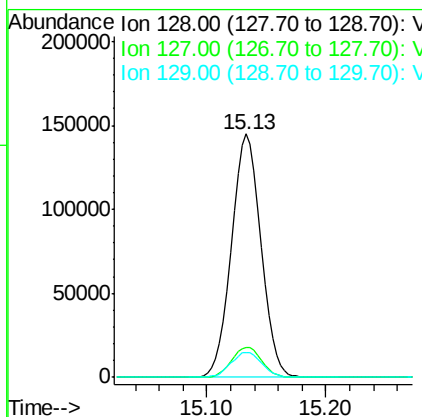
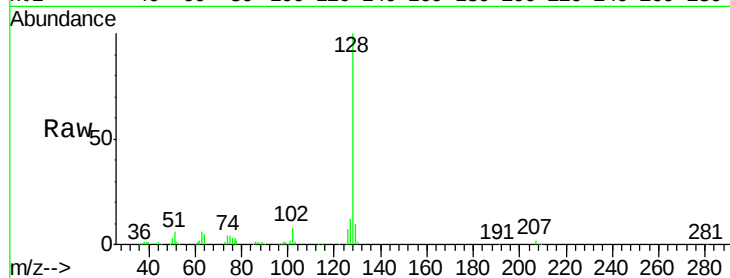
ClientSampleId :

VN0118WBS02

Tot Ion:	128	Resp:	248994
Ion Ratio	Lower	Upper	
128	100		
127	12.6	10.3	15.5
129	10.8	8.6	13.0

Manual Integrations
APPROVED

MMDadoda
1/21/2019 10:48:11 AM



#96

1,2,3-Trichlorobenzene

Concen: 23.397 ug/l

RT: 15.32 min Scan# 4212

Delta R.T. 0.00 min

Lab File: VN053470.D

Acq: 18 Jan 2019 14:23

Tgt Ion:	180	Resp:	114992
Ion Ratio	Lower	Upper	
180	100		
182	97.3	47.9	143.8
145	30.2	14.7	44.1

