

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN041919\
 Data File : VN055143.D
 Acq On : 19 Apr 2019 15:39
 Operator : JC/SP
 Sample : VSTDCCC020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleID :
 VSTDCCC020EC

Manual Integrations
 APPROVED

MMDadoda
 4/22/2019 10:07:17 AM

Quant Time: Apr 20 04:22:29 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N041119W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Apr 12 07:55:25 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	72626	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	387383	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	332398	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	169648	30.65	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	102.17%
60) 4-Bromofluorobenzene	12.40	95	149536	28.90	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	96.33%
63) Toluene-d8	10.09	98	481480	30.47	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	101.57%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	79123	18.524	ug/l 98
3) Chloromethane	2.06	50	106786	18.507	ug/l 98
4) Vinyl Chloride	2.19	62	89601	17.957	ug/l 100
5) Bromomethane	2.56	94	49406	17.118	ug/l 94
6) Chloroethane	2.70	64	49760	17.806	ug/l 99
7) Trichlorofluoromethane	3.02	101	134630	21.115	ug/l 99
8) Diethyl Ether	3.41	74	53382	26.075	ug/l 100
9) 1,1,2-Trichlorotrifluoroet	3.76	101	83361	23.917	ug/l 95
10) 1,1-Dichloroethene	3.74	96	78278	24.291	ug/l 96
11) Methyl Iodide	3.96	142	116264	23.841	ug/l 92
12) Methyl Acetate	4.33	43	108301	27.323	ug/l 99
13) Acrolein	3.61	56	32959	94.878	ug/l 97
14) Acrylonitrile	4.99	53	196548	121.034	ug/l 99
15) Acetone	3.82	58	46338	115.314	ug/l 84
16) Carbon Disulfide	4.06	76	201573	18.648	ug/l 99
17) Allyl chloride	4.33	41	164717	20.756	ug/l 99
18) Methylene Chloride	4.55	84	96597	20.279	ug/l 96
19) trans-1,2-Dichloroethene	5.04	96	84156	20.061	ug/l 98
20) Diisopropyl ether	5.95	45	337986	21.023	ug/l 96
21) 1,1-Dichloroethane	5.85	63	176457	20.550	ug/l 99
22) cis-1,2-Dichloroethene	6.83	96	98859	20.275	ug/l 98
23) tert-Butyl Alcohol	4.79	59	39699	153.317	ug/l # 100
24) Methyl tert-Butyl Ether	5.05	73	246550	22.785	ug/l # 65
25) Chloroform	7.37	83	173567	21.102	ug/l 96
26) Cyclohexane	7.66	56	149874	18.811	ug/l # 98
29) 1,1-Dichloropropene	7.79	75	122873	20.367	ug/l 99
30) 2-Butanone	6.84	43	246476	123.077	ug/l 100
31) 2,2-Dichloropropane	6.83	77	107743	19.404	ug/l # 100
32) 1,1,1-Trichloroethane	7.57	97	134847	21.146	ug/l 99
33) Carbon Tetrachloride	7.78	117	112586	20.393	ug/l 95
34) Benzene	8.04	78	371151	20.760	ug/l 98
35) Methacrylonitrile	7.17	41	44449	18.831	ug/l 96
36) 1,2-Dichloroethane	8.13	62	130787	21.404	ug/l 100
37) Trichloroethene	8.84	130	92745	20.349	ug/l 93
38) Methylcyclohexane	9.08	83	124275	17.763	ug/l 99
39) 1,2-Dichloropropane	9.12	63	107197	21.714	ug/l 98
40) Dibromomethane	9.21	93	61495	22.038	ug/l 98

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN041919\
 Data File : VN055143.D
 Acq On : 19 Apr 2019 15:39
 Operator : JC/SP
 Sample : VSTDCCC020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleID :
 VSTDCCC020EC

Manual Integrations
 APPROVED

MMDadoda
 4/22/2019 10:07:17 AM

Quant Time: Apr 20 04:22:29 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N041119W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Apr 12 07:55:25 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	120440	20.914	ug/l	100
42) Vinyl Acetate	5.90	43	1161159	114.690	ug/l	100
43) Ethyl Acetate	6.93	43	106056	25.995	ug/l	97
44) Isopropyl Acetate	8.17	43	179839	26.011	ug/l #	83
45) 1,4-Dioxane	9.20	88	20711	540.701	ug/l	95
46) Methyl methacrylate	9.20	41	87675	24.513	ug/l	94
47) n-amyl Acetate	12.07	43	119578	23.482	ug/l	97
48) t-1,3-Dichloropropene	10.38	75	111379	21.061	ug/l	100
49) cis-1,3-Dichloropropene	9.84	75	135600	20.771	ug/l	97
50) 1,1,2-Trichloroethane	10.56	97	84175	22.210	ug/l	98
51) Ethyl methacrylate	10.43	69	103137	22.829	ug/l	99
52) 1,3-Dichloropropane	10.71	76	147760	22.250	ug/l	98
53) Dibromochloromethane	10.90	129	81372	20.844	ug/l	97
54) 1,2-Dibromoethane	11.01	107	79781	22.423	ug/l	98
55) 2-Chloroethyl vinyl ether	9.70	63	195333	103.422	ug/l	99
56) Bromoform	12.13	173	52831	21.537	ug/l	99
58) 4-Methyl-2-Pentanone	9.99	43	519981	135.650	ug/l	100
59) 2-Hexanone	10.75	43	324364	133.200	ug/l	99
61) Tetrachloroethene	10.63	164	88269	20.405	ug/l	96
62) Toluene	10.16	91	385030	21.023	ug/l	99
64) Chlorobenzene	11.43	112	223813	20.242	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.51	131	84226	21.418	ug/l	99
66) Ethyl Benzene	11.51	91	395701	20.155	ug/l	99
67) m/p-Xylenes	11.62	106	291705	39.972	ug/l	98
68) o-Xylene	11.95	106	147550	20.459	ug/l	98
69) Styrene	11.96	104	216760	19.356	ug/l	98
70) Isopropylbenzene	12.25	105	382498	19.837	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.50	83	108077	24.506	ug/l	99
72) 1,2,3-Trichloropropane	12.55	75	95709m	26.278	ug/l	
73) Bromobenzene	12.53	156	89523	19.643	ug/l	97
74) n-propylbenzene	12.59	91	406963	18.853	ug/l	100
75) 2-Chlorotoluene	12.67	91	259210	19.910	ug/l	100
76) 1,3,5-Trimethylbenzene	12.73	105	301577	19.346	ug/l	100
77) t-1,4-Dichloro-2-butene	12.30	75	20123	21.919	ug/l	97
78) 4-Chlorotoluene	12.77	91	241992	19.508	ug/l	98
79) tert-butylbenzene	12.99	119	260742	19.331	ug/l	99
80) 1,2,4-Trimethylbenzene	13.04	105	291825	19.056	ug/l	99
81) sec-Butylbenzene	13.17	105	335973	18.641	ug/l	98
82) p-Isopropyltoluene	13.29	119	268408	17.646	ug/l	100
83) 1,3-Dichlorobenzene	13.28	146	144073	18.896	ug/l	100
84) 1,4-Dichlorobenzene	13.36	146	131471	18.145	ug/l	99
85) n-Butylbenzene	13.61	91	186320	15.377	ug/l	98
86) Hexachloroethane	13.87	117	44720	18.366	ug/l	100
87) 1,2-Dichlorobenzene	13.65	146	147134	19.705	ug/l	98
88) 1,2-Dibromo-3-Chloropropan	14.27	75	13720	23.407	ug/l	93
89) 1,2,4-Trichlorobenzene	14.91	180	46752	14.005	ug/l	94
90) Hexachlorobutadiene	15.01	225	40654	16.703	ug/l	99
91) Naphthalene	15.13	128	118061	16.890	ug/l	100
92) 1,2,3-Trichlorobenzene	15.31	180	54005	16.176	ug/l	99

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN041919\
Data File : VN055143.D
Acq On : 19 Apr 2019 15:39
Operator : JC/SP
Sample : VSTDCCC020
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Manual Integrations
APPROVED

MMDadoda
4/22/2019 10:07:17 AM

Quant Time: Apr 20 04:22:29 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N041119W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Apr 12 07:55:25 2019
Response via : Initial Calibration

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

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

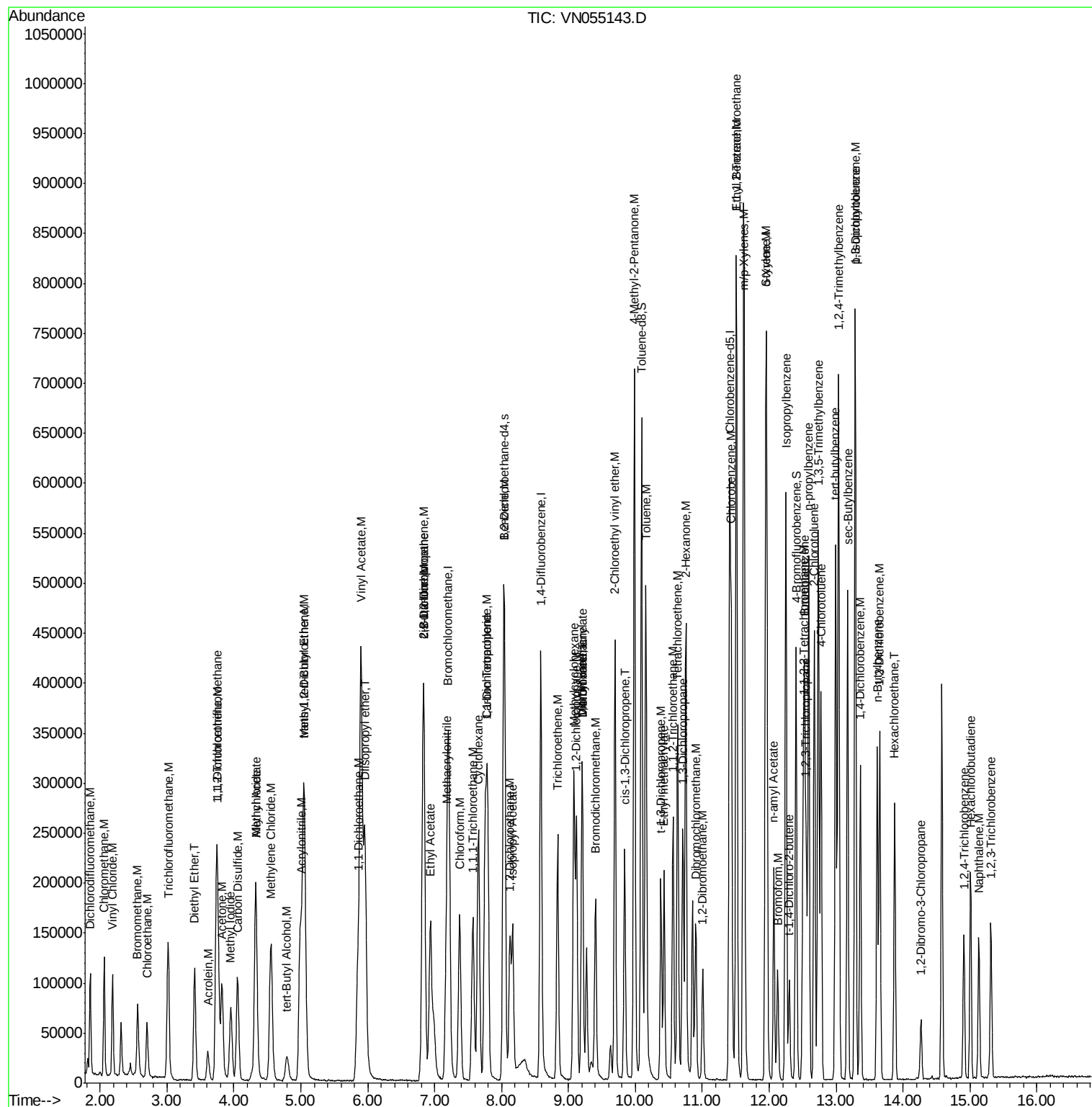
Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN041919\
Data File : VN055143.D
Acq On : 19 Apr 2019 15:39
Operator : JC/SP
Sample : VSTDCCC020
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 15 Sample Multiplier: 1

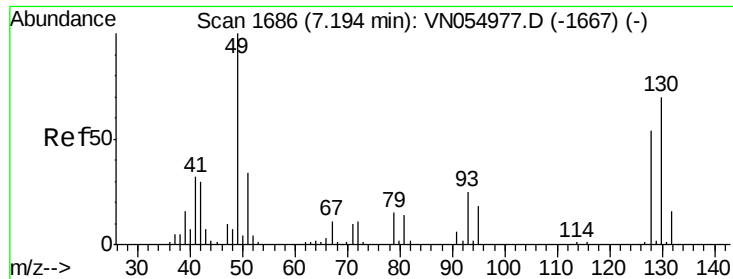
Instrument :
MSVOA_N
Client Sample Id :
VSTDCCC020EC

Manual Integrations
APPROVED

MMDadoda
4/22/2019 10:07:17 AM

Quant Time: Apr 20 04:22:29 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N041119W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Apr 12 07:55:25 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 7.20 min Scan# 1687

Delta R.T. 0.00 min

Lab File: VN055143.D

Acq: 19 Apr 2019 15:39

Instrument :

MSVOA_N

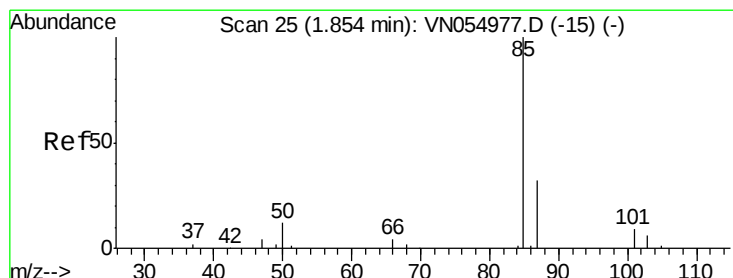
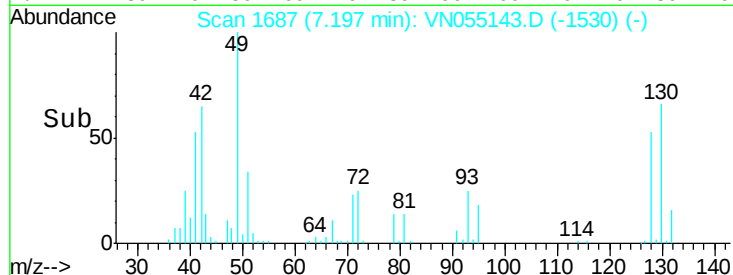
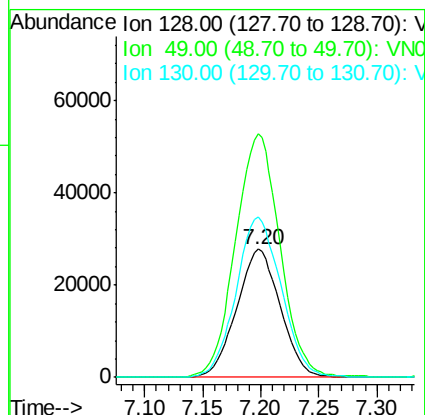
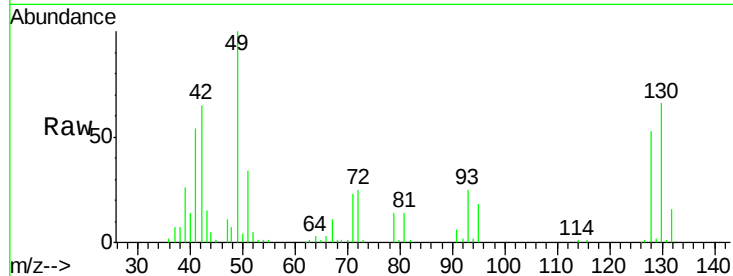
ClientSampleId :

VSTDCCC020EC

Tot Ion:	128	Resp:	72626
Ion	Ratio	Lower	Upper
128	100		
49	192.7	0.0	480.3
130	129.3	0.0	322.2

Manual Integrations
APPROVED

MMDadoda
4/22/2019 10:07:17 AM



#2

Dichlorodifluoromethane

Concen: 18.524 ug/l

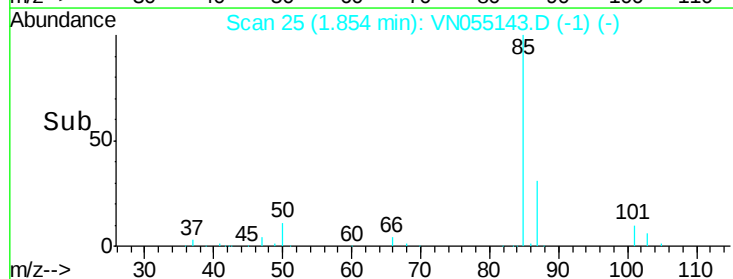
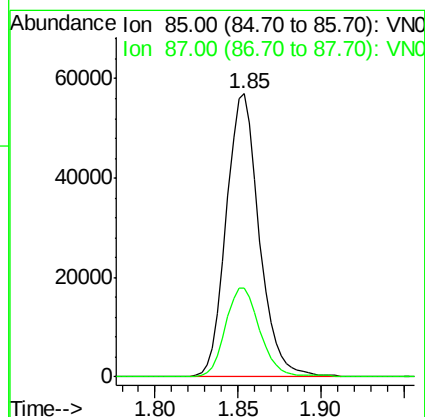
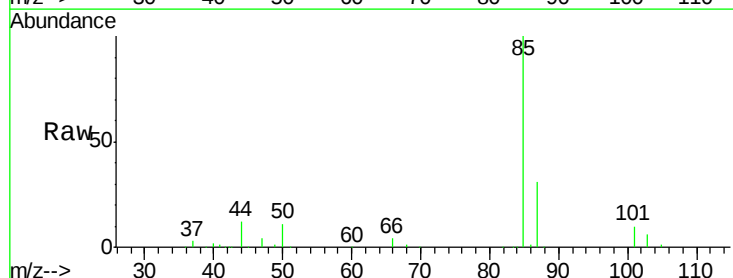
RT: 1.85 min Scan# 25

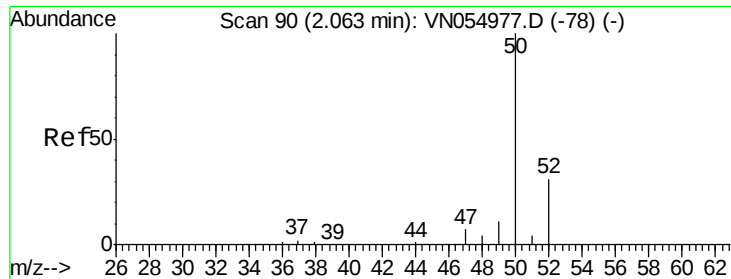
Delta R.T. 0.00 min

Lab File: VN055143.D

Acq: 19 Apr 2019 15:39

Tgt Ion:	85	Resp:	79123
Ion	Ratio	Lower	Upper
85	100		
87	31.2	16.1	48.3





#3

Chloromethane

Concen: 18.507 ug/l

RT: 2.06 min Scan# 90

Delta R.T. 0.00 min

Lab File: VN055143.D

Acq: 19 Apr 2019 15:39

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020EC

Tot Ion: 50 Resp: 106786

Ion Ratio Lower Upper

50 100

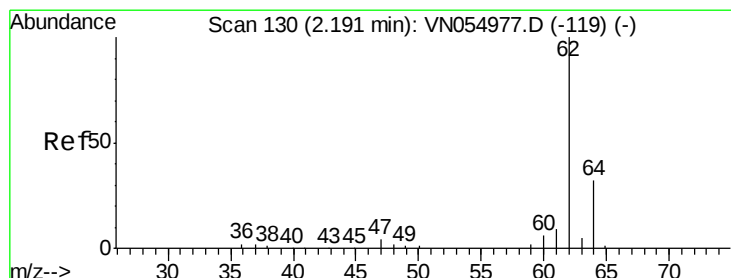
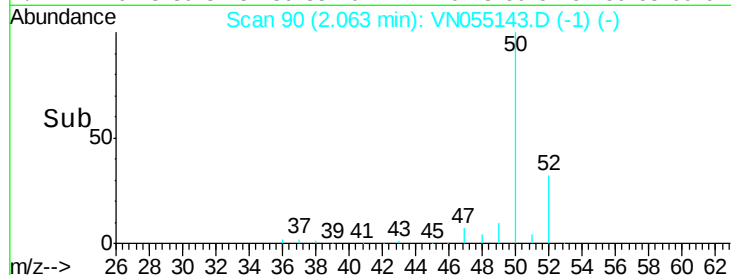
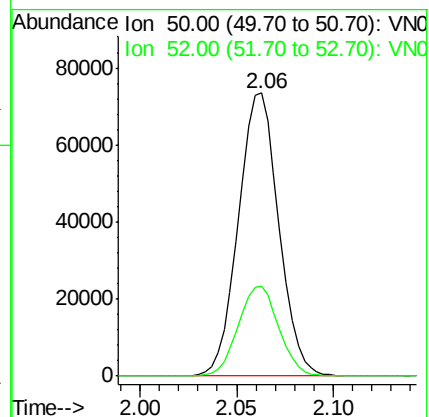
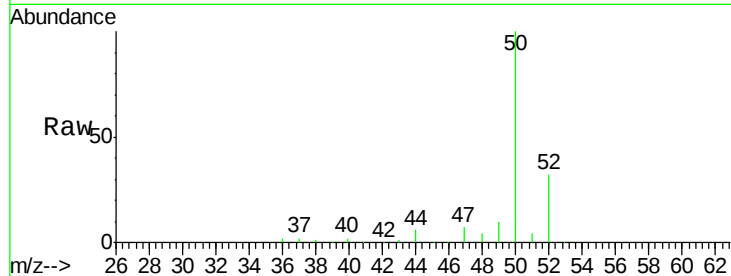
52 31.9 24.5 36.7

Manual Integrations

APPROVED

MMDadoda

4/22/2019 10:07:17 AM



#4

Vinyl Chloride

Concen: 17.957 ug/l

RT: 2.19 min Scan# 129

Delta R.T. -0.00 min

Lab File: VN055143.D

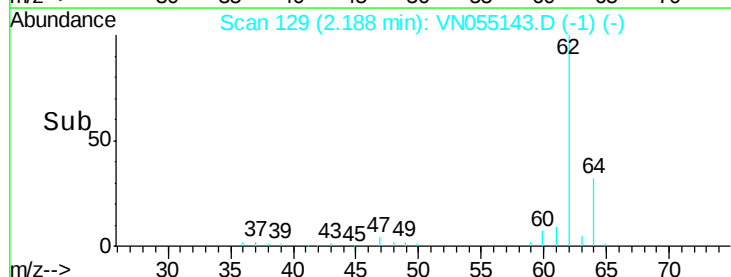
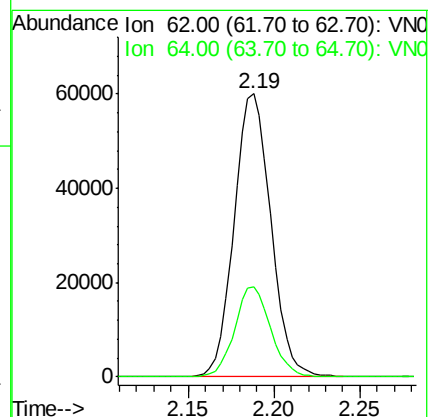
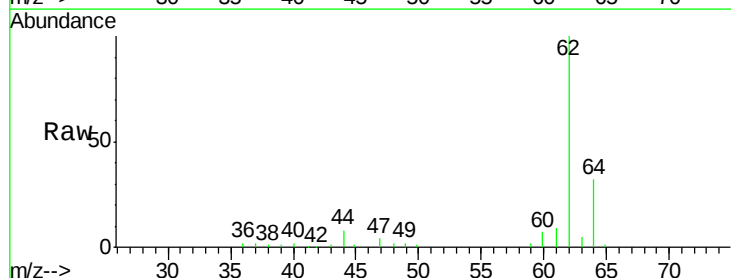
Acq: 19 Apr 2019 15:39

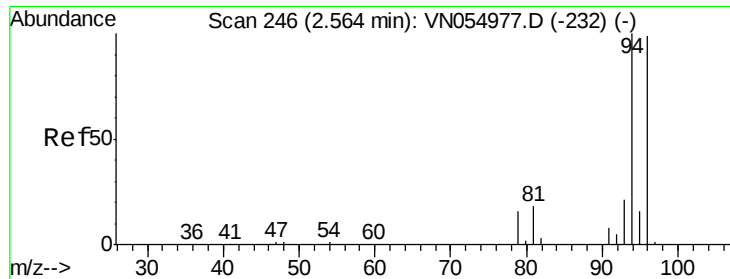
Tgt Ion: 62 Resp: 89601

Ion Ratio Lower Upper

62 100

64 31.9 25.6 38.4





#5

Bromomethane

Concen: 17.118 ug/l

RT: 2.56 min Scan# 245

Delta R.T. -0.00 min

Lab File: VN055143.D

Acq: 19 Apr 2019 15:39

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020EC

Tot Ion: 94 Resp: 49406

Ion Ratio Lower Upper

94 100

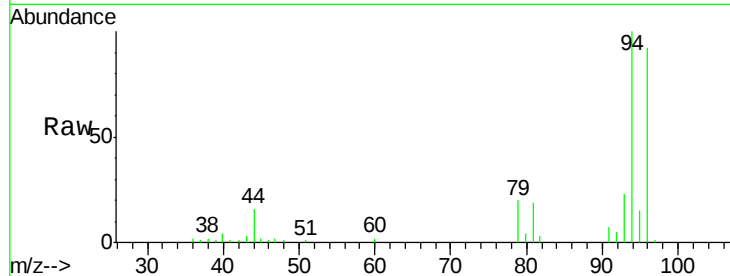
96 92.5 79.1 118.7

Manual Integrations

APPROVED

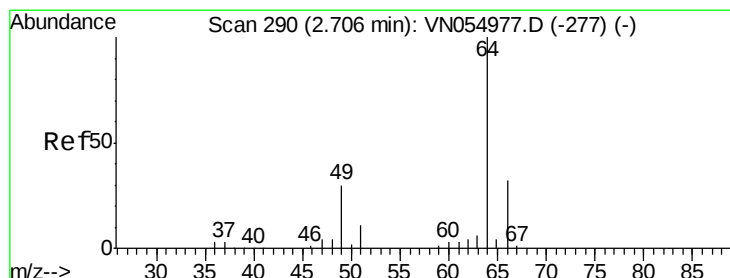
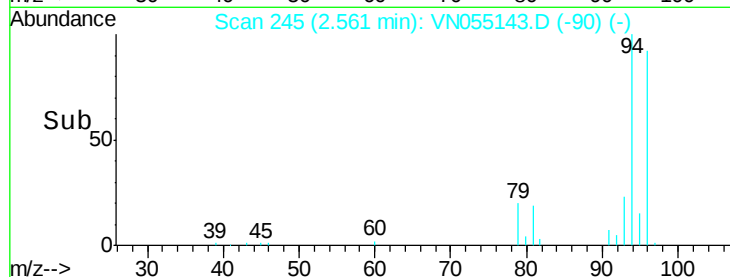
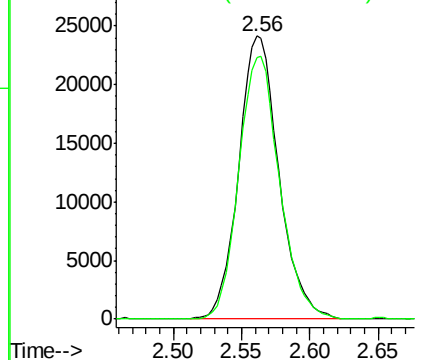
MMDadoda

4/22/2019 10:07:17 AM



Abundance Ion 94.00 (93.70 to 94.70): VN0

Ion 96.00 (95.70 to 96.70): VN0



#6

Chloroethane

Concen: 17.806 ug/l

RT: 2.70 min Scan# 289

Delta R.T. -0.00 min

Lab File: VN055143.D

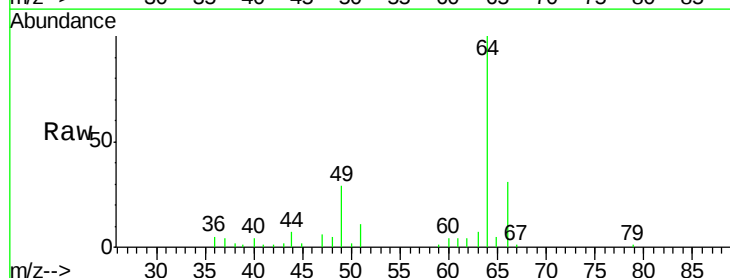
Acq: 19 Apr 2019 15:39

Tgt Ion: 64 Resp: 49760

Ion Ratio Lower Upper

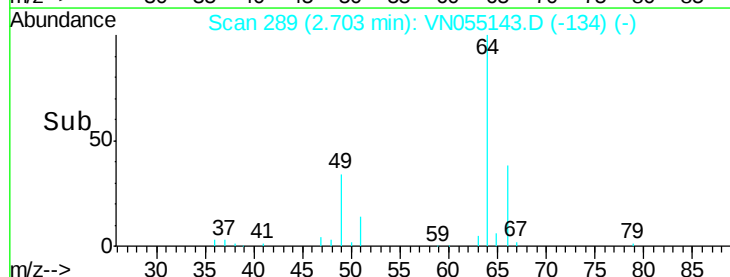
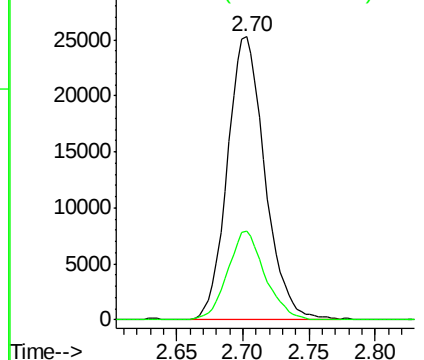
64 100

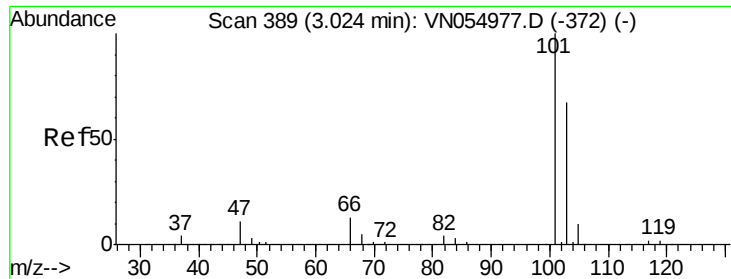
66 31.4 25.7 38.5



Abundance Ion 64.00 (63.70 to 64.70): VN0

Ion 66.00 (65.70 to 66.70): VN0





#7

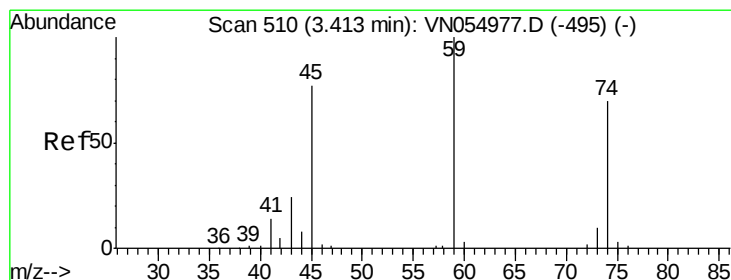
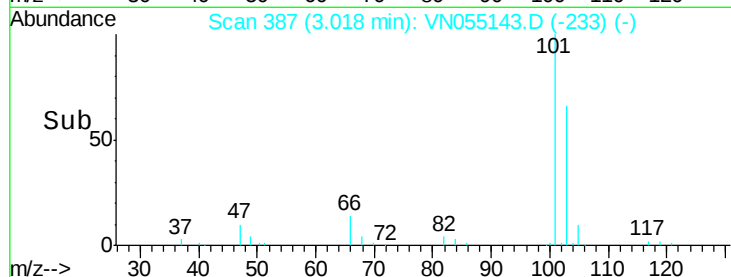
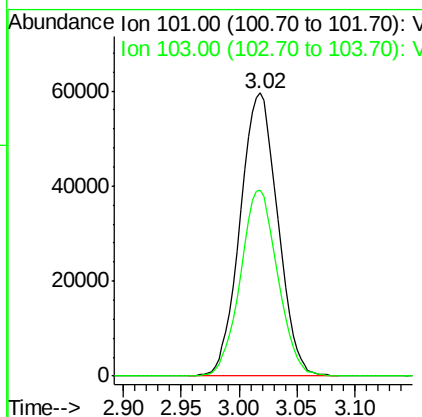
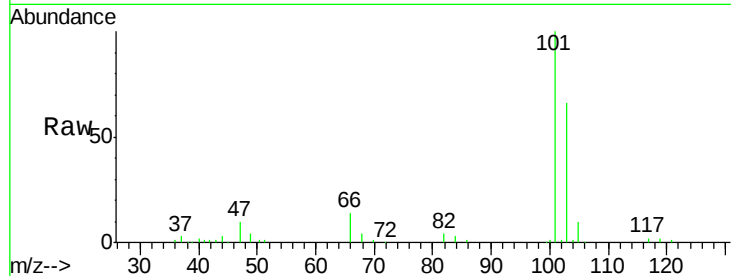
Trichlorofluoromethane
 Concen: 21.115 ug/l
 RT: 3.02 min Scan# 387
 Delta R.T. -0.01 min
 Lab File: VN055143.D
 Acq: 19 Apr 2019 15:39

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Tot Ion	Ratio	Lower	Upper
101	100		
103	65.7	53.4	80.0

Manual Integrations
 APPROVED

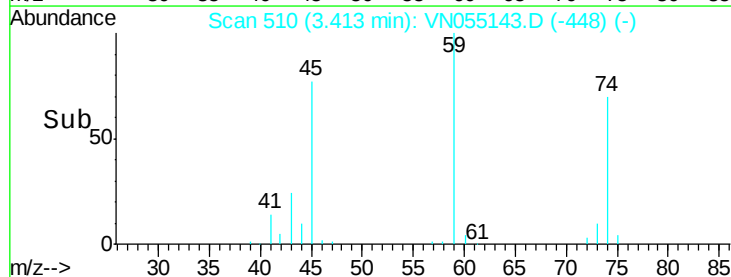
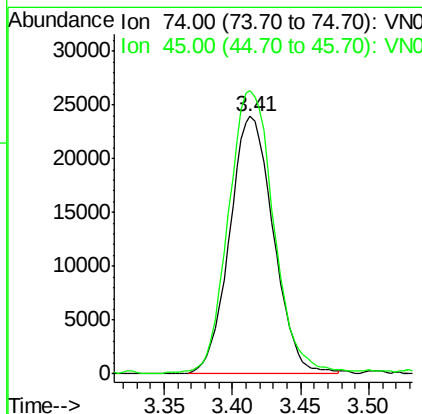
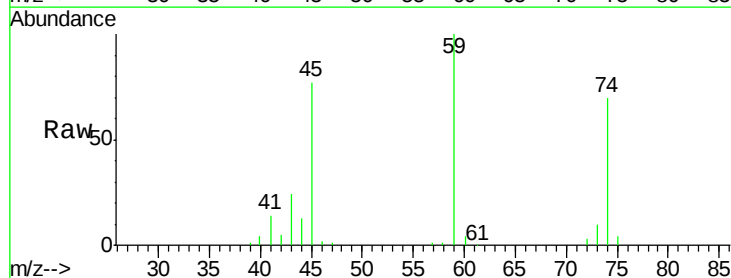
MMDadoda
 4/22/2019 10:07:17 AM

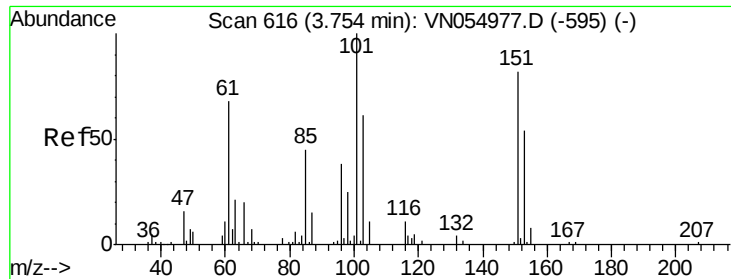


#8

Diethyl Ether
 Concen: 26.075 ug/l
 RT: 3.41 min Scan# 510
 Delta R.T. 0.00 min
 Lab File: VN055143.D
 Acq: 19 Apr 2019 15:39

Tgt Ion	Ratio	Lower	Upper
74	100		
45	114.8	22.9	205.7





#9

1,1,2-Trichlorotrifluoroethane

Concen: 23.917 ug/l

RT: 3.76 min Scan# 618

Delta R.T. 0.01 min

Lab File: VN055143.D

Acq: 19 Apr 2019 15:39

Instrument :

MSVOA_N

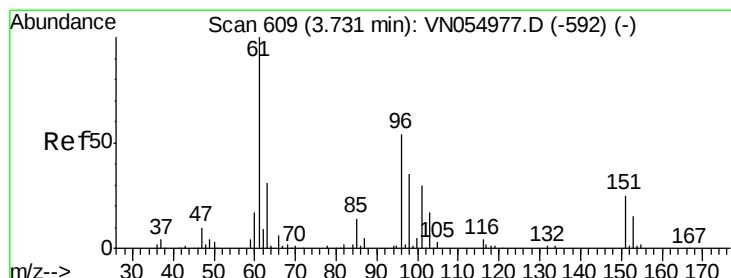
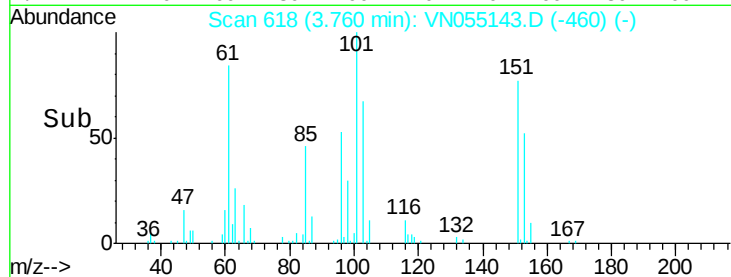
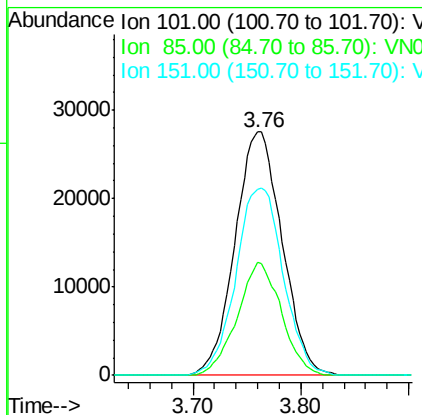
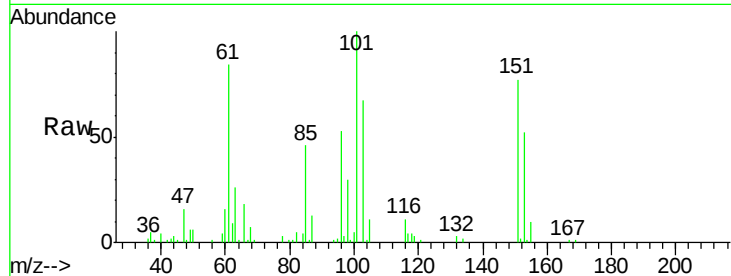
ClientSampleId :

VSTDCCC020EC

Tot Ion:	101	Resp:	83361
Ion Ratio	Lower	Upper	
101	100		
85	43.4	0.0	91.4
151	77.6	0.0	165.6

Manual Integrations
APPROVED

MMDadoda
4/22/2019 10:07:17 AM



#10

1,1-Dichloroethene

Concen: 24.291 ug/l

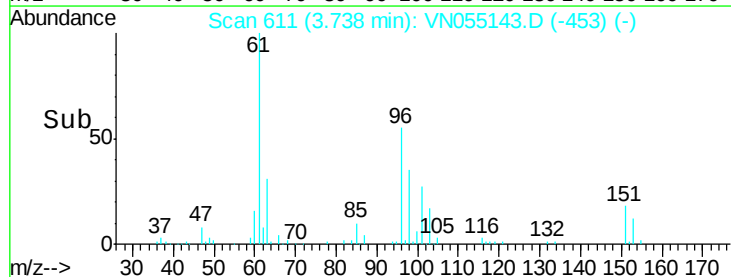
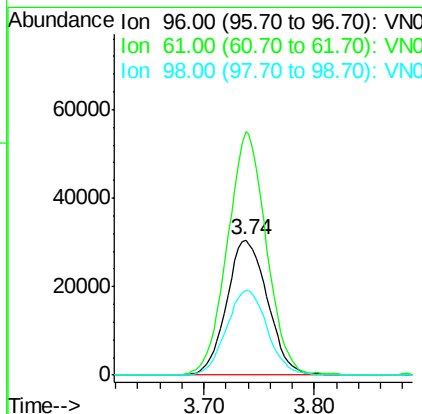
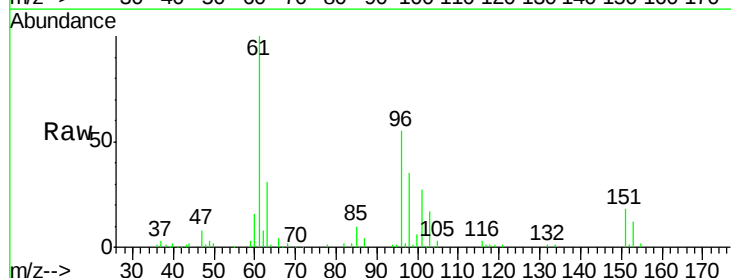
RT: 3.74 min Scan# 611

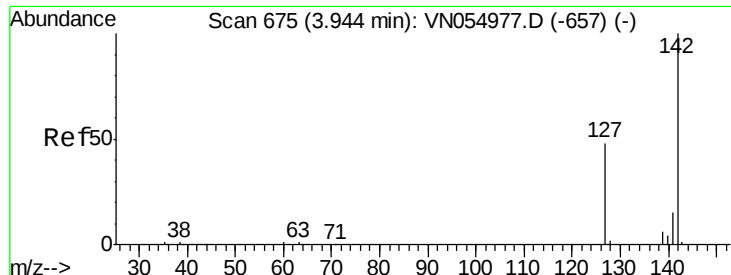
Delta R.T. 0.01 min

Lab File: VN055143.D

Acq: 19 Apr 2019 15:39

Tgt Ion:	96	Resp:	78278
Ion Ratio	Lower	Upper	
96	100		
61	179.6	148.4	222.6
98	62.9	52.2	78.2





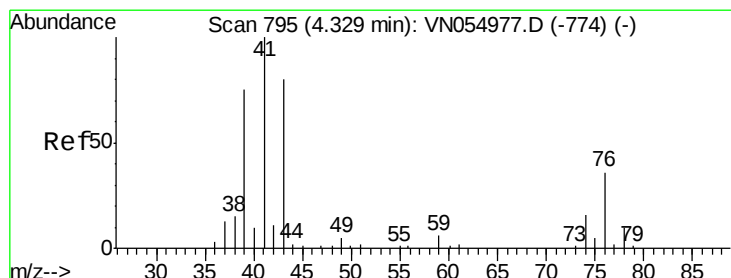
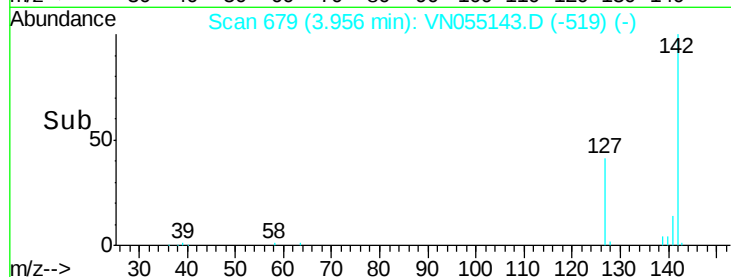
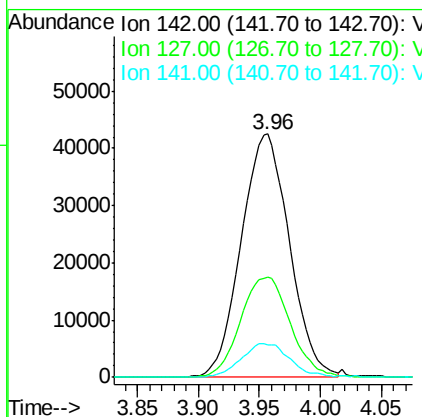
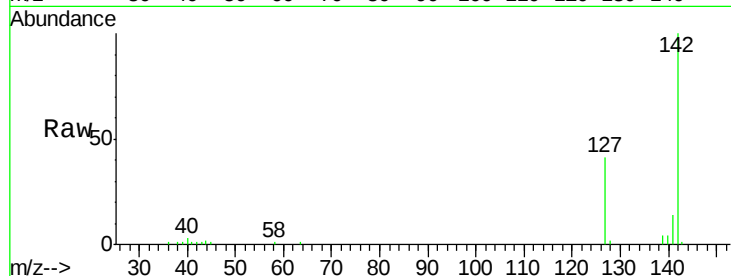
#11
Methvl Iodide
Concen: 23.841 ug/l
RT: 3.96 min Scan# 679
Delta R.T. 0.01 min
Lab File: VN055143.D
Acq: 19 Apr 2019 15:39

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tot Ion	Ratio	Lower	Upper
142	100		
127	41.1	23.8	71.5
141	13.4	7.3	22.0

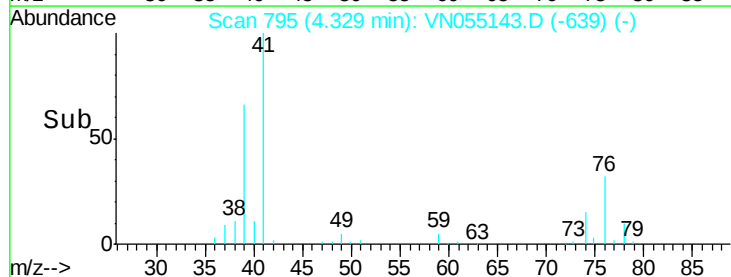
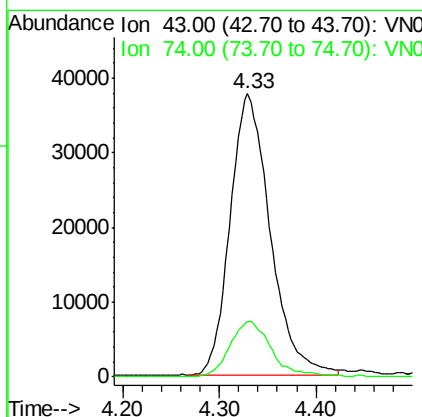
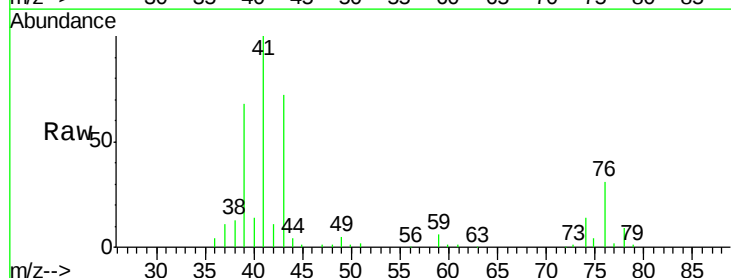
Manual Integrations
APPROVED

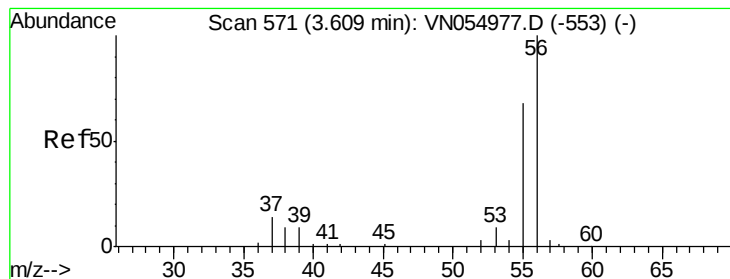
MMDadoda
4/22/2019 10:07:17 AM



#12
Methyl Acetate
Concen: 27.323 ug/l
RT: 4.33 min Scan# 795
Delta R.T. 0.00 min
Lab File: VN055143.D
Acq: 19 Apr 2019 15:39

Tgt Ion	Ratio	Lower	Upper
43	100		
74	19.7	16.2	24.4





#13

Acrolein

Concen: 94.878 ug/l

RT: 3.61 min Scan# 571

Delta R.T. 0.00 min

Lab File: VN055143.D

Acq: 19 Apr 2019 15:39

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020EC

Tot Ion: 56 Resp: 32959

Ion Ratio Lower Upper

56 100

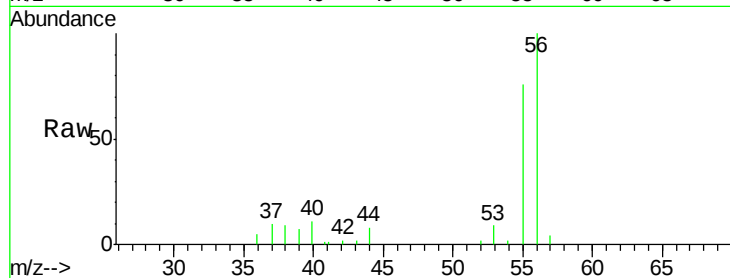
55 73.8 57.0 85.4

Manual Integrations

APPROVED

MMDadoda

4/22/2019 10:07:17 AM



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

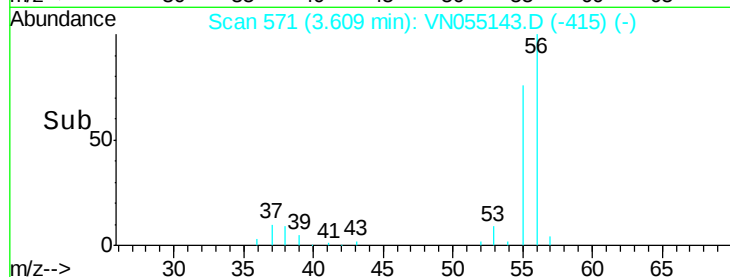
15000

10000

5000

0

Time-->



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

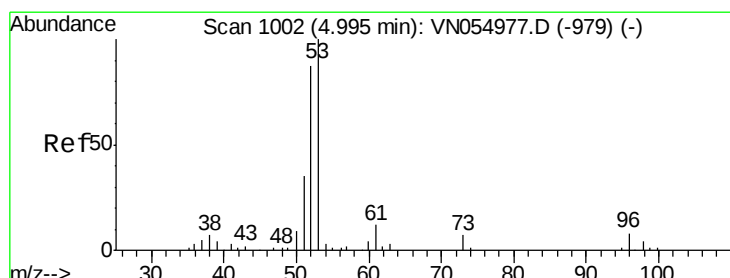
15000

10000

5000

0

Time-->



#14

Acrylonitrile

Concen: 121.034 ug/l

RT: 4.99 min Scan# 1001

Delta R.T. -0.00 min

Lab File: VN055143.D

Acq: 19 Apr 2019 15:39

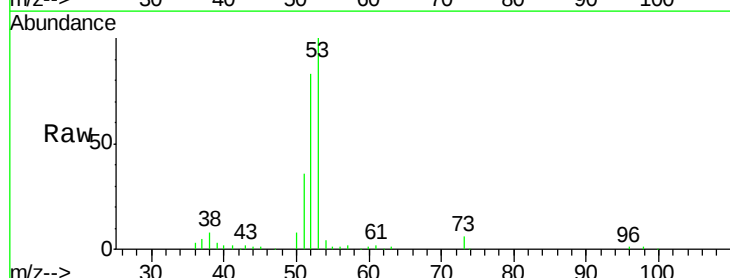
Tgt Ion: 53 Resp: 196548

Ion Ratio Lower Upper

53 100

52 83.0 42.3 126.8

51 36.7 18.6 56.0



Abundance Ion 53.00 (52.70 to 53.70): VN0

Ion 52.00 (51.70 to 52.70): VN0

Ion 51.00 (50.70 to 51.70): VN0

80000

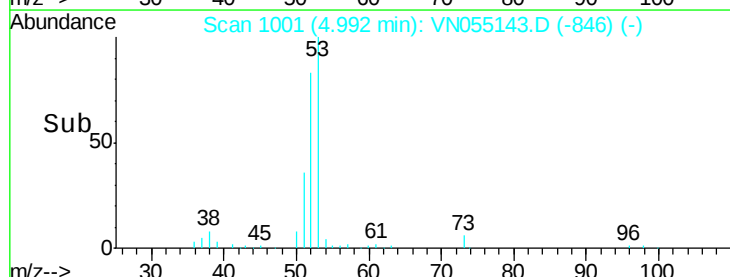
60000

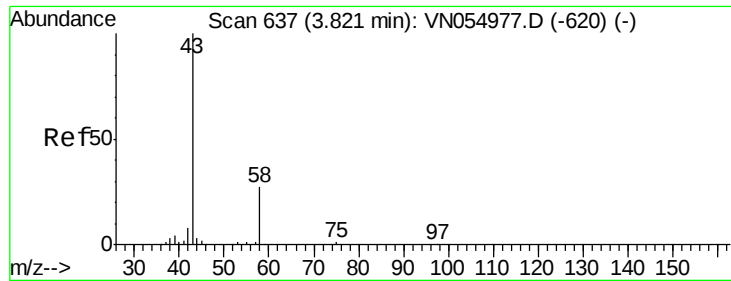
40000

20000

0

Time-->





#15

Acetone

Concen: 115.314 ug/l

RT: 3.82 min Scan# 636

Delta R.T. -0.00 min

Lab File: VN055143.D

Acq: 19 Apr 2019 15:39

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020EC

Tot Ion: 58 Resp: 46338

Ion Ratio Lower Upper

58 100

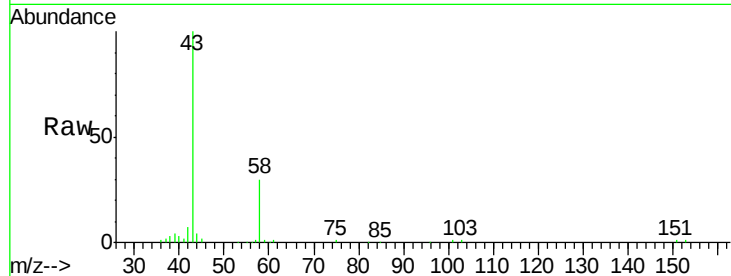
43 336.2 297.2 445.8

Manual Integrations

APPROVED

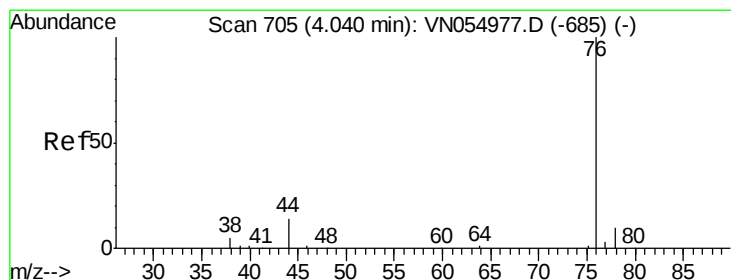
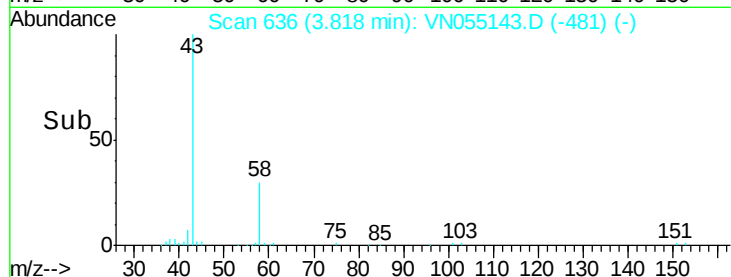
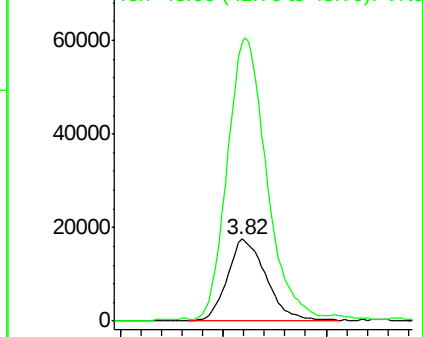
MMDadoda

4/22/2019 10:07:17 AM



Abundance Ion 58.00 (57.70 to 58.70): VN0

Ion 43.00 (42.70 to 43.70): VN0



#16

Carbon Disulfide

Concen: 18.648 ug/l

RT: 4.06 min Scan# 710

Delta R.T. 0.02 min

Lab File: VN055143.D

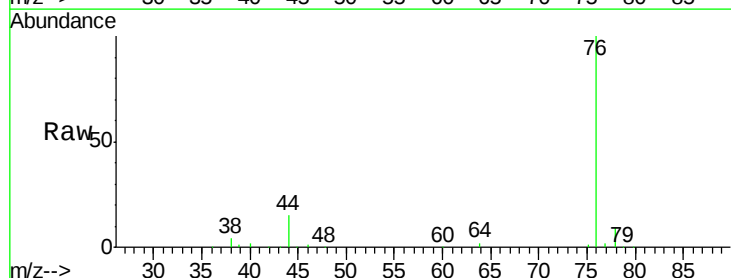
Acq: 19 Apr 2019 15:39

Tgt Ion: 76 Resp: 201573

Ion Ratio Lower Upper

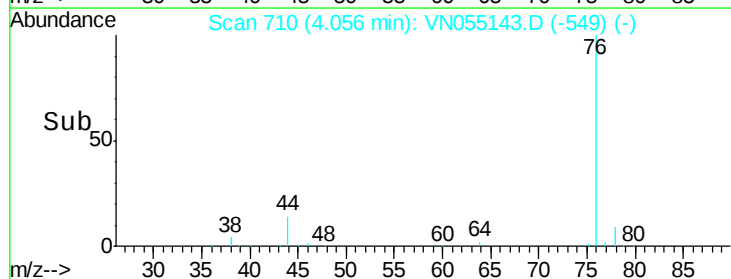
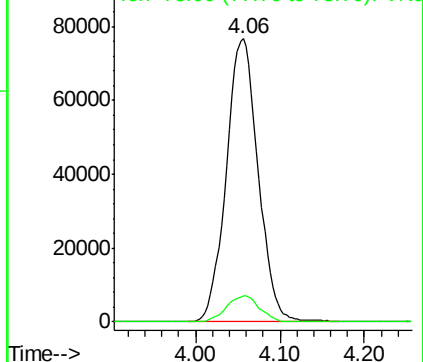
76 100

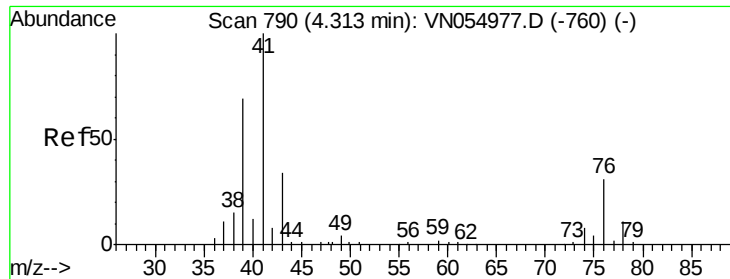
78 9.5 7.8 11.6



Abundance Ion 76.00 (75.70 to 76.70): VN0

Ion 78.00 (77.70 to 78.70): VN0





#17

Allvl chloride

Concen: 20.756 ug/l

RT: 4.33 min Scan# 794

Delta R.T. 0.01 min

Lab File: VN055143.D

Acq: 19 Apr 2019 15:39

Instrument :

MSVOA_N

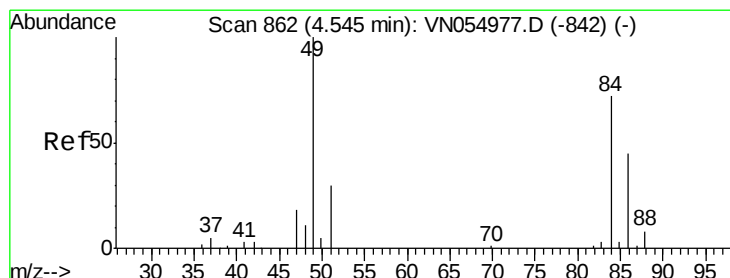
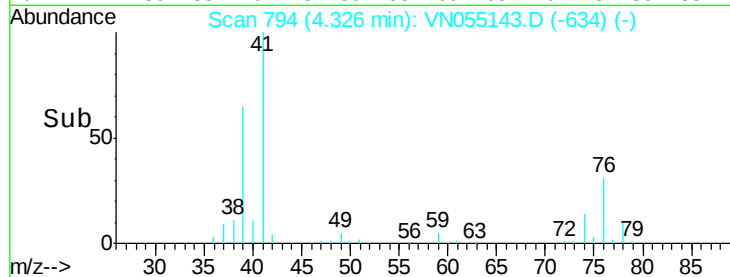
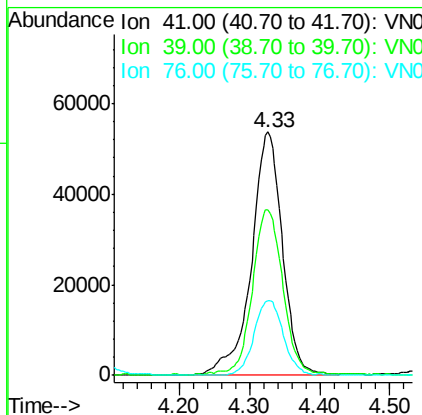
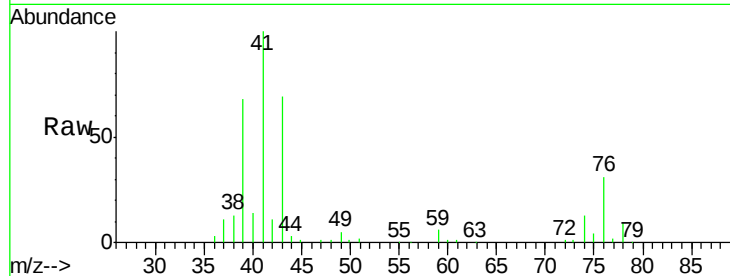
ClientSampleId :

VSTDCCC020EC

Tot Ion:	41	Resp:	164717
Ion Ratio	Lower	Upper	
41	100		
39	68.1	34.3	102.9
76	30.6	15.8	47.3

Manual Integrations
APPROVED

MMDadoda
4/22/2019 10:07:17 AM



#18

Methylene Chloride

Concen: 20.279 ug/l

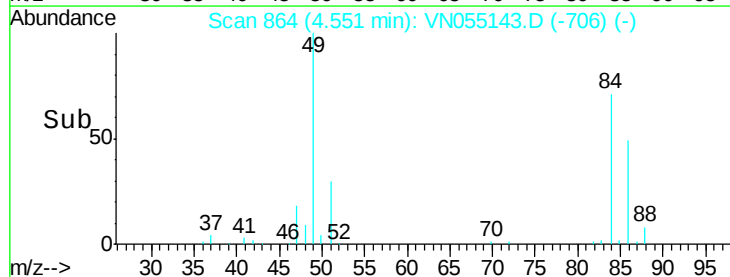
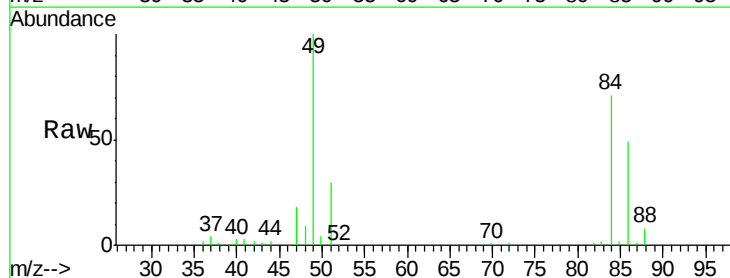
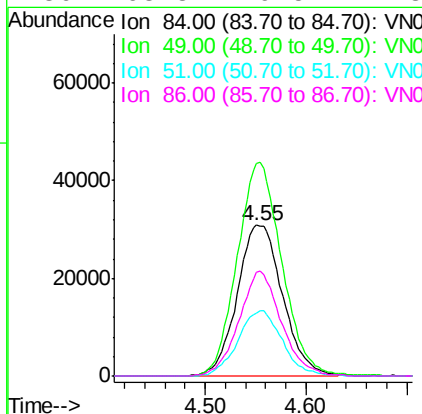
RT: 4.55 min Scan# 864

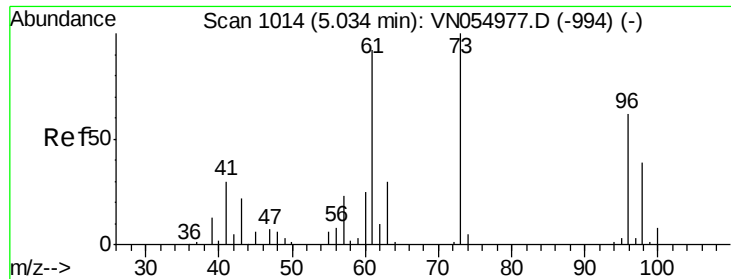
Delta R.T. 0.01 min

Lab File: VN055143.D

Acq: 19 Apr 2019 15:39

Tgt Ion:	84	Resp:	96597
Ion Ratio	Lower	Upper	
84	100		
49	141.4	111.0	166.4
51	41.9	33.4	50.2
86	68.8	49.5	74.3





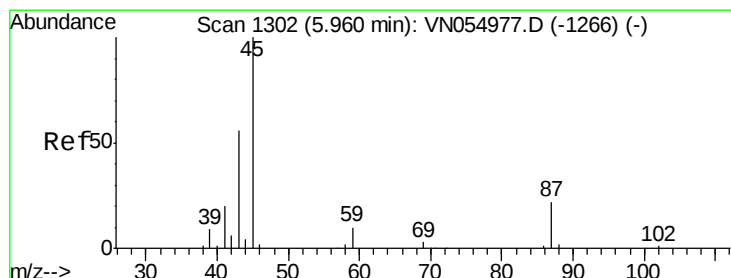
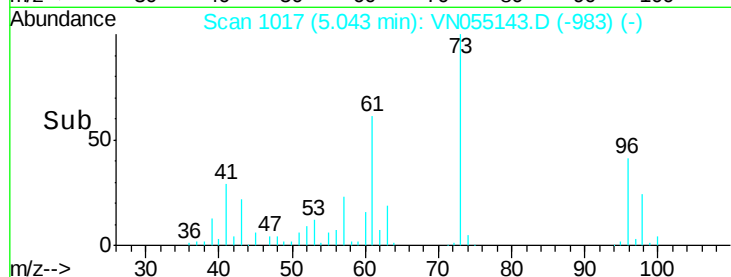
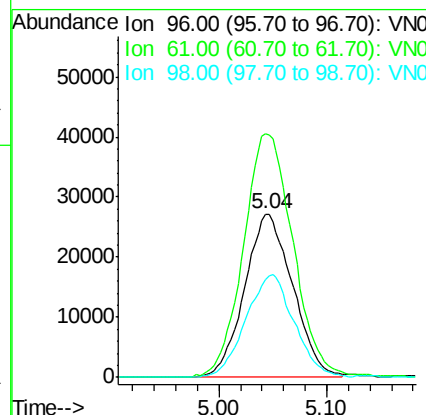
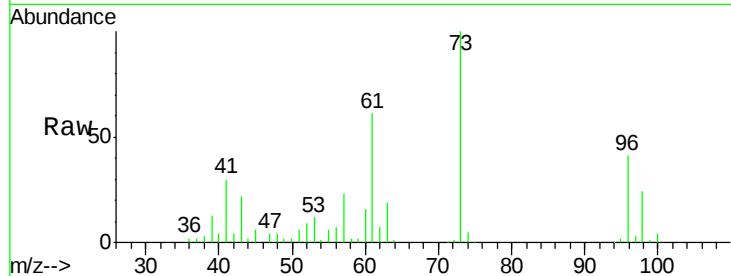
#19
trans-1,2-Dichloroethene
Concen: 20.061 ug/l
RT: 5.04 min Scan# 1017
Delta R.T. 0.01 min
Lab File: VN055143.D
Acq: 19 Apr 2019 15:39

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tot Ion	Ion	Ratio	Lower	Upper
96	100			
61	148.3	117.2	175.8	
98	59.5	49.4	74.2	

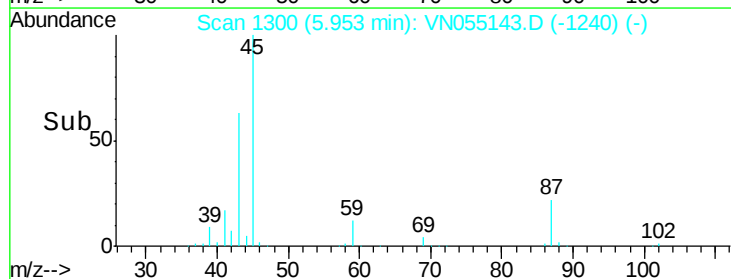
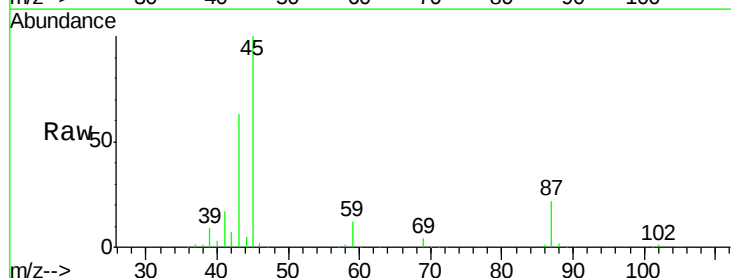
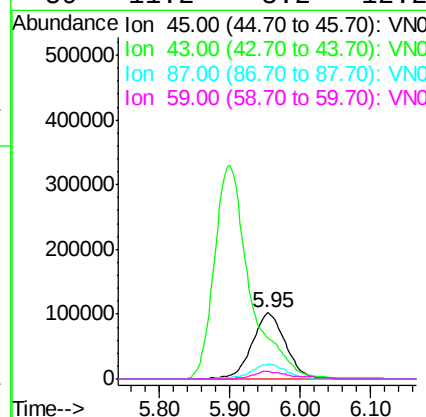
Manual Integrations
APPROVED

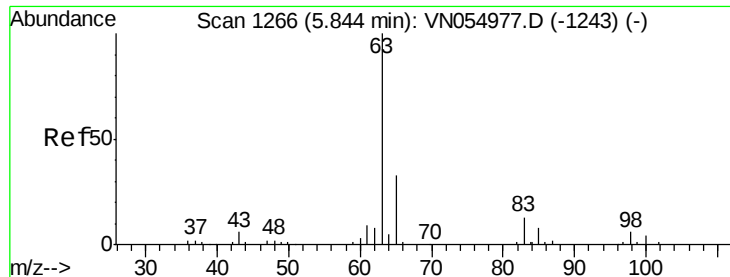
MMDadoda
4/22/2019 10:07:17 AM



#20
Diisopropyl ether
Concen: 21.023 ug/l
RT: 5.95 min Scan# 1300
Delta R.T. -0.01 min
Lab File: VN055143.D
Acq: 19 Apr 2019 15:39

Tgt Ion	Ion	Ratio	Lower	Upper
45	100			
43	60.9	45.8	68.8	
87	21.8	18.2	27.4	
59	11.2	8.2	12.2	





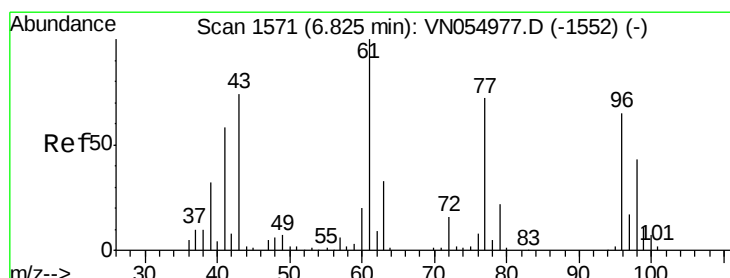
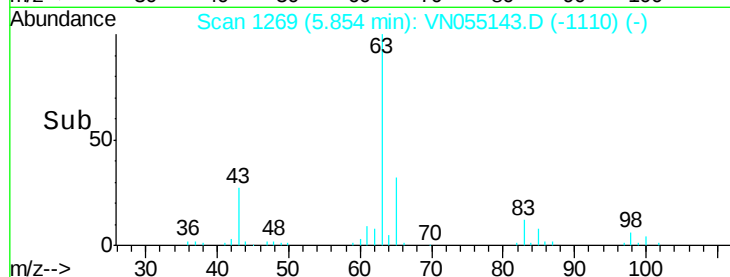
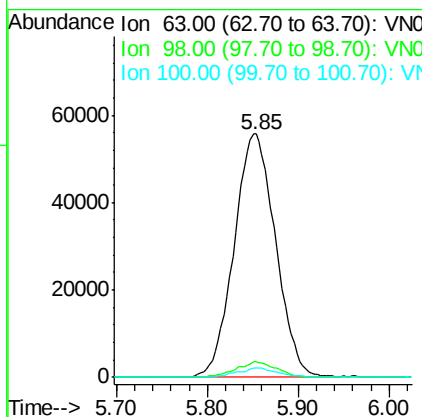
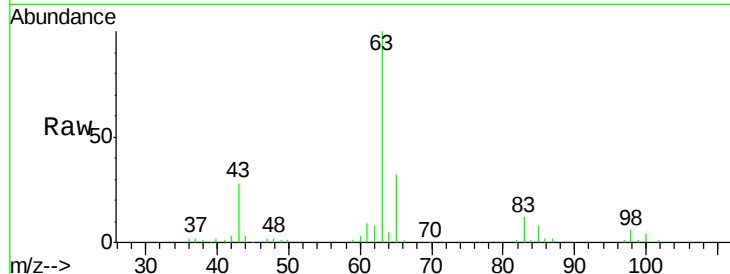
#21
 1,1-Dichloroethane
 Concen: 20.550 ug/l
 RT: 5.85 min Scan# 1269
 Delta R.T. 0.01 min
 Lab File: VN055143.D
 Acq: 19 Apr 2019 15:39

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Tot Ion:	63	Resp:	176457
Ion Ratio	Lower	Upper	
63	100		
98	6.3	2.9	8.7
100	4.1	2.0	5.8

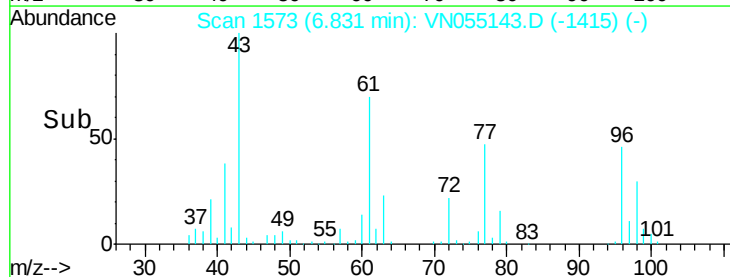
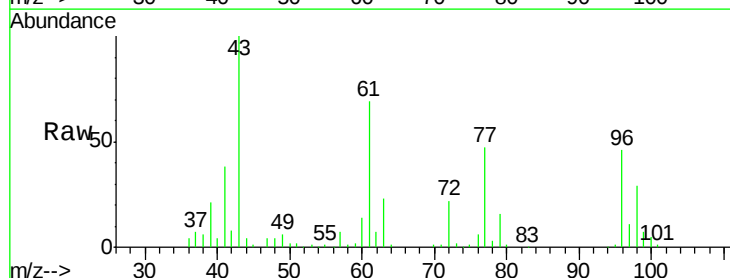
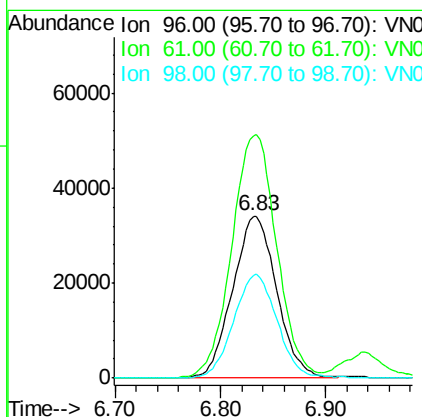
Manual Integrations
 APPROVED

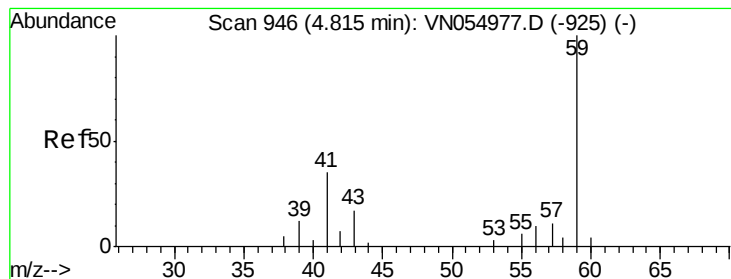
MMDadoda
 4/22/2019 10:07:17 AM



#22
 cis-1,2-Dichloroethene
 Concen: 20.275 ug/l
 RT: 6.83 min Scan# 1573
 Delta R.T. 0.01 min
 Lab File: VN055143.D
 Acq: 19 Apr 2019 15:39

Tgt Ion:	96	Resp:	98859
Ion Ratio	Lower	Upper	
96	100		
61	153.4	125.0	187.6
98	63.2	52.2	78.2





#23

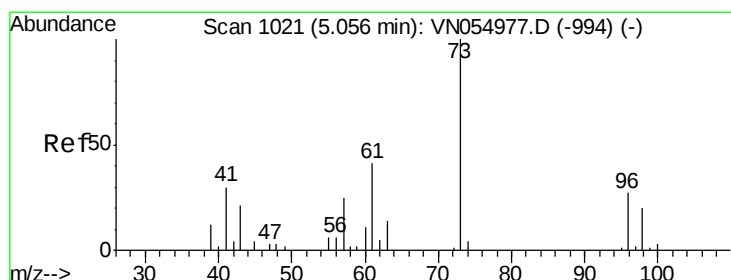
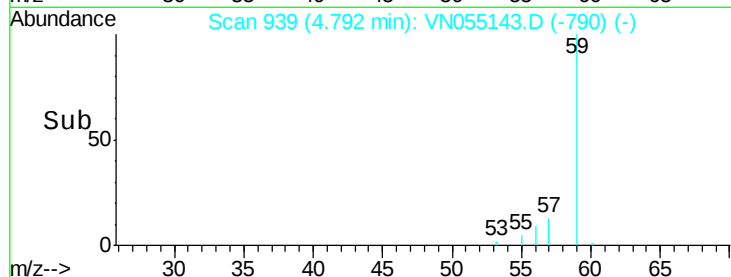
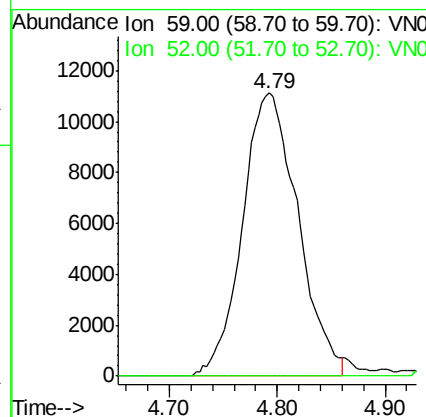
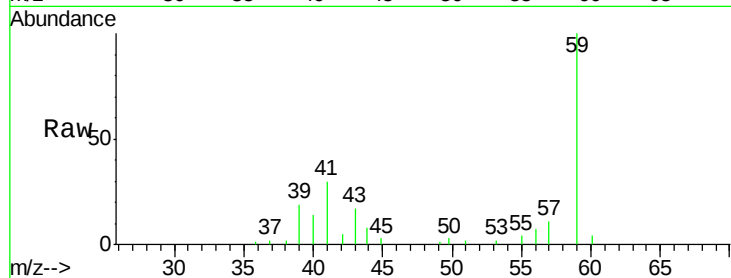
tert-Butyl Alcohol
 Concen: 153.317 ug/l
 RT: 4.79 min Scan# 939
 Delta R.T. -0.02 min
 Lab File: VN055143.D
 Acq: 19 Apr 2019 15:39

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Tot Ion	59	52	Ratio	100	0.0	Resp	39699	Lower	Upper
59	100								
52		0.0			0.0			0.0	0.0

Manual Integrations
 APPROVED

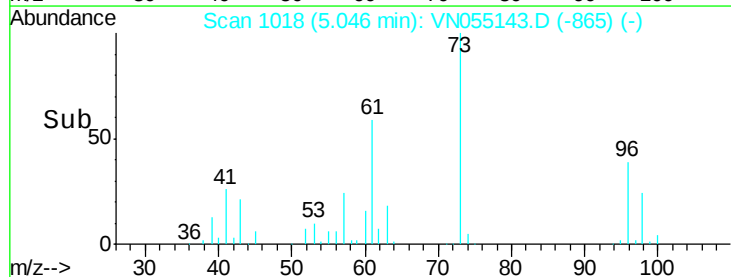
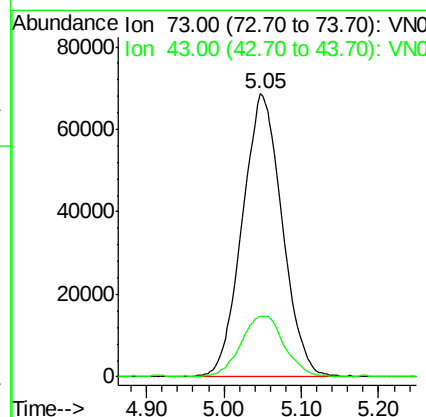
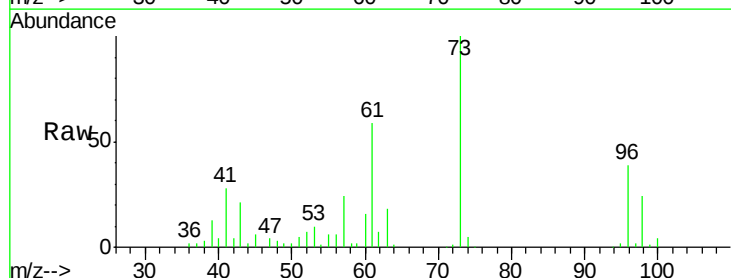
MMDadoda
 4/22/2019 10:07:17 AM

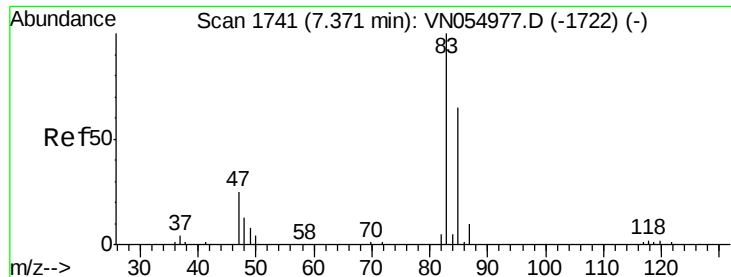


#24

Methyl tert-Butyl Ether
 Concen: 22.785 ug/l
 RT: 5.05 min Scan# 1018
 Delta R.T. -0.01 min
 Lab File: VN055143.D
 Acq: 19 Apr 2019 15:39

Tgt Ion	73	43	Ratio	100	22.9	Resp	246550	Lower	Upper
73	100								
43		22.9			8.0			12.0	12.0





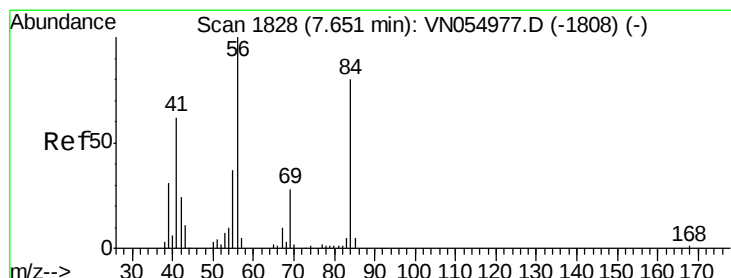
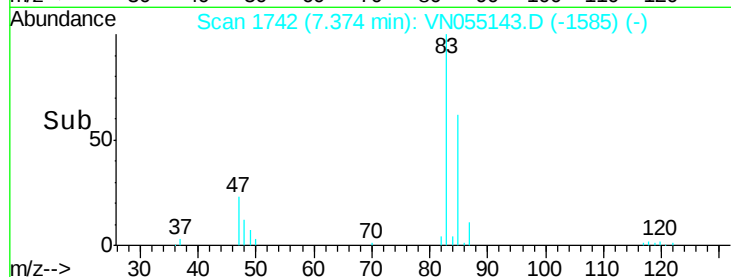
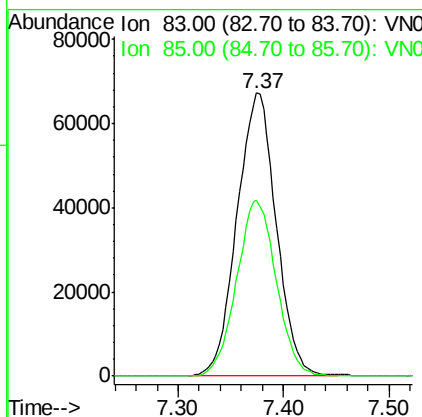
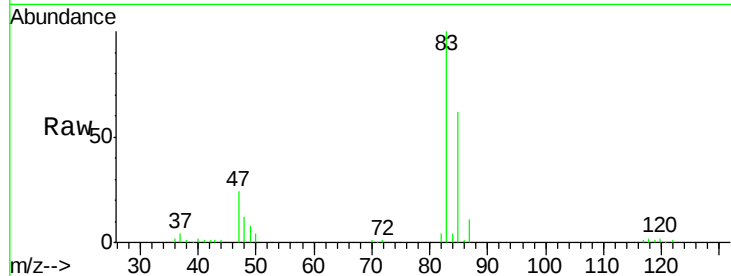
#25
Chloroform
Concen: 21.102 ug/l
RT: 7.37 min Scan# 1742
Delta R.T. 0.00 min
Lab File: VN055143.D
Acq: 19 Apr 2019 15:39

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tot Ion	83	Resp	173567
Ion Ratio	100	Lower	Upper
83	100		
85	61.9	51.8	77.8

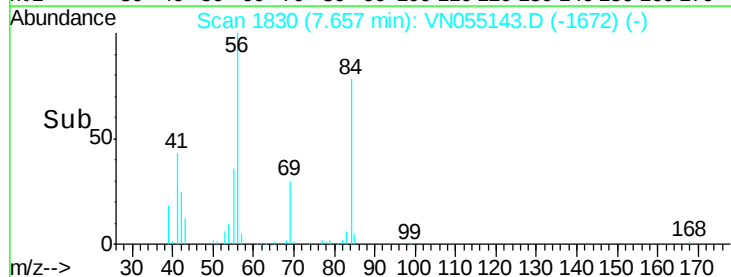
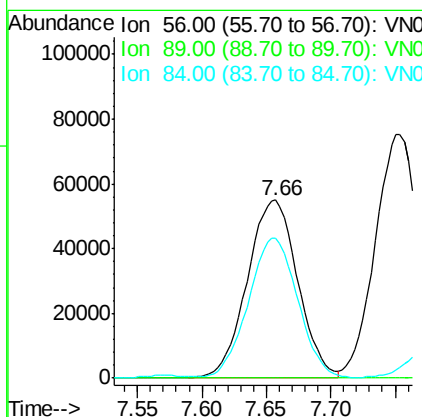
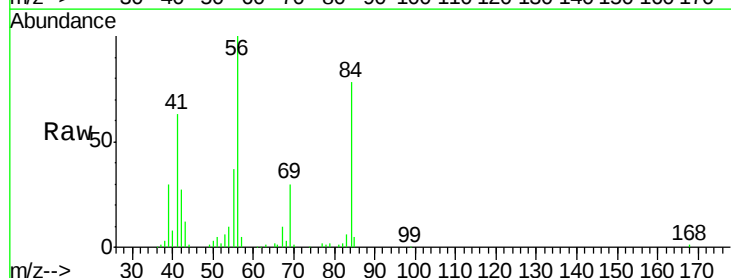
Manual Integrations
APPROVED

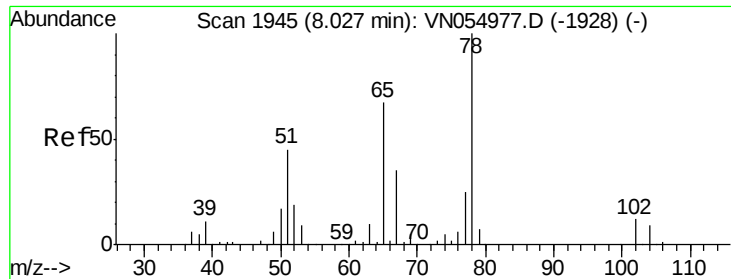
MMDadoda
4/22/2019 10:07:17 AM



#26
Cyclohexane
Concen: 18.811 ug/l
RT: 7.66 min Scan# 1830
Delta R.T. 0.01 min
Lab File: VN055143.D
Acq: 19 Apr 2019 15:39

Tgt Ion	56	Resp	149874
Ion Ratio	100	Lower	Upper
56	100		
89	0.0	0.0	0.0
84	77.5	63.5	95.3





#27

1,2-Dichloroethane-d4

Concen: 18.811 ug/l

RT: 8.03 min Scan# 1945

Delta R.T. 0.00 min

Lab File: VN055143.D

Acq: 19 Apr 2019 15:39

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020EC

Tot Ion: 65 Resp: 169648

Ion Ratio Lower Upper

65 100

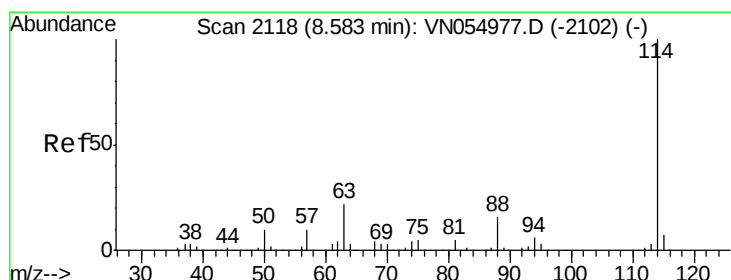
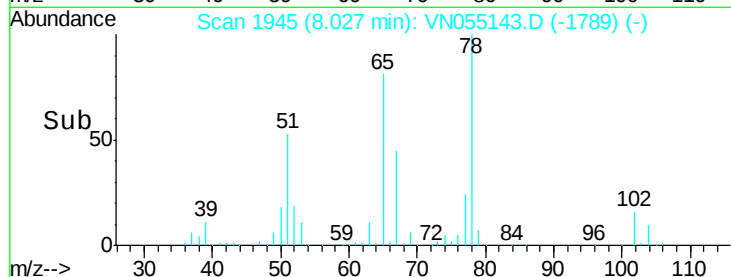
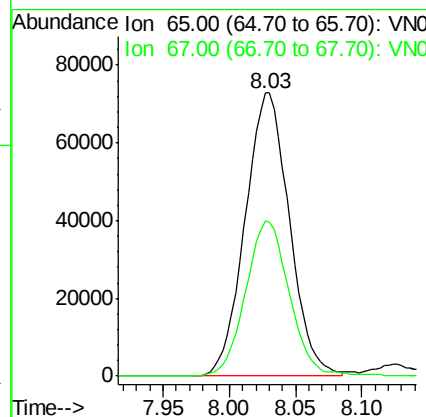
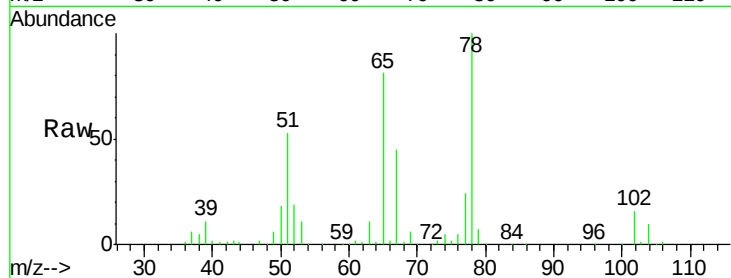
67 54.2 41.8 62.8

Manual Integrations

APPROVED

MMDadoda

4/22/2019 10:07:17 AM



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. 0.00 min

Lab File: VN055143.D

Acq: 19 Apr 2019 15:39

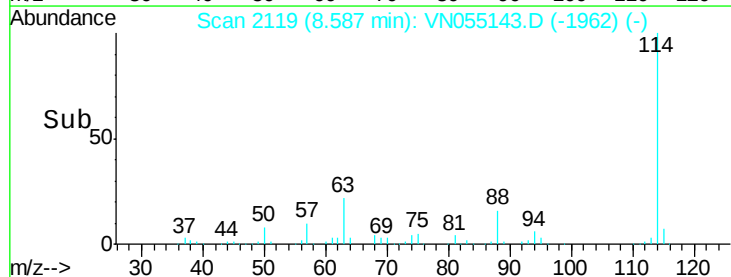
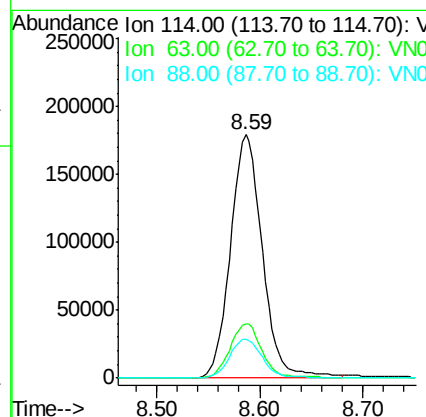
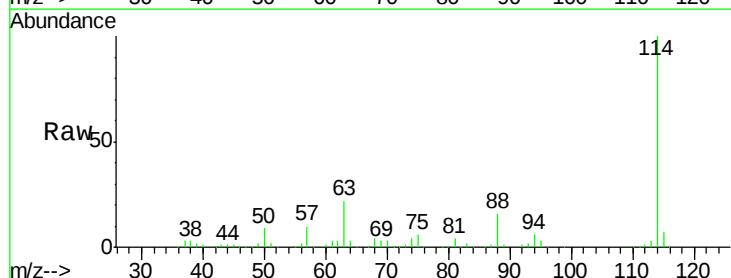
Tgt Ion: 114 Resp: 387383

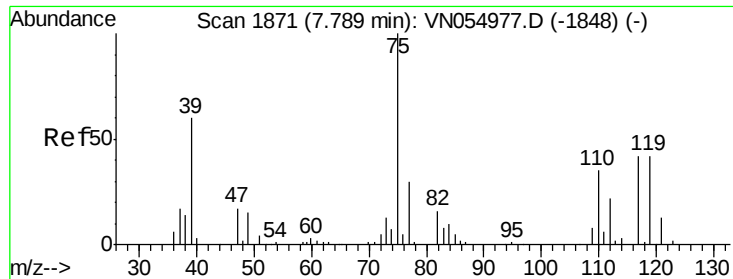
Ion Ratio Lower Upper

114 100

63 22.5 17.0 25.4

88 16.1 12.3 18.5





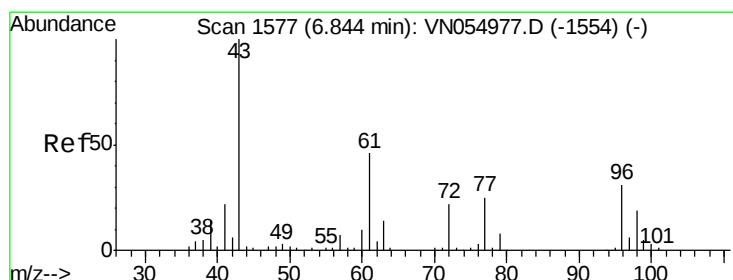
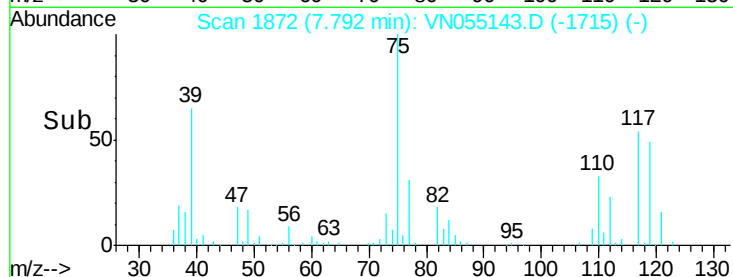
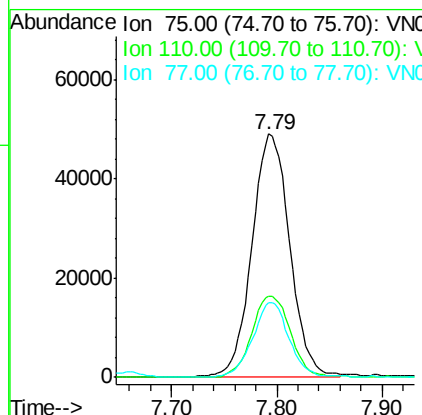
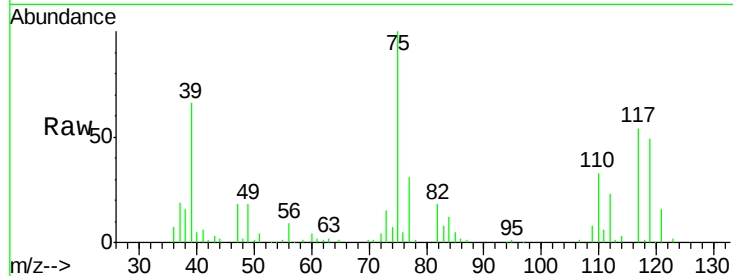
#29
 1,1-Dichloropropene
 Concen: 20.367 ug/l
 RT: 7.79 min Scan# 1872
 Delta R.T. 0.00 min
 Lab File: VN055143.D
 Acq: 19 Apr 2019 15:39

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Tot Ion	Ratio	Resp Lower	Upper
75	100		
110	33.8	0.0	68.4
77	29.6	0.0	58.6

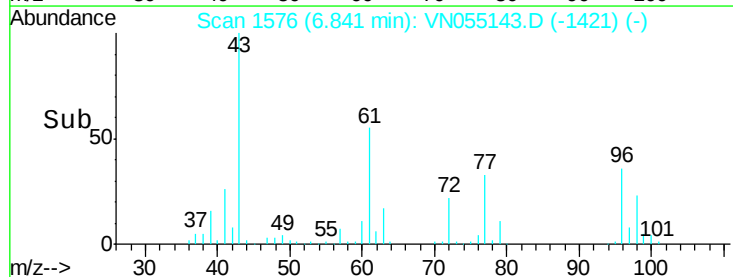
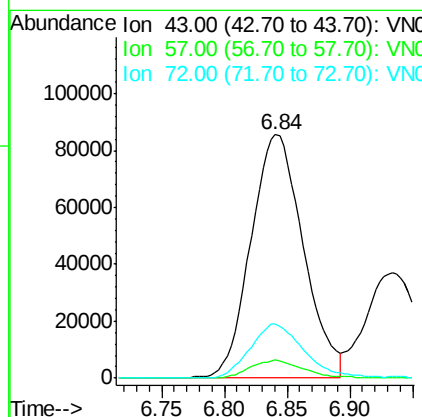
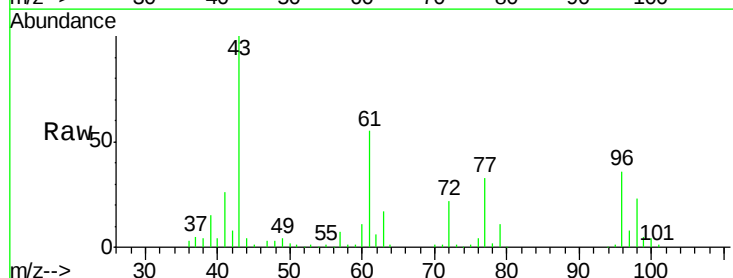
Manual Integrations
 APPROVED

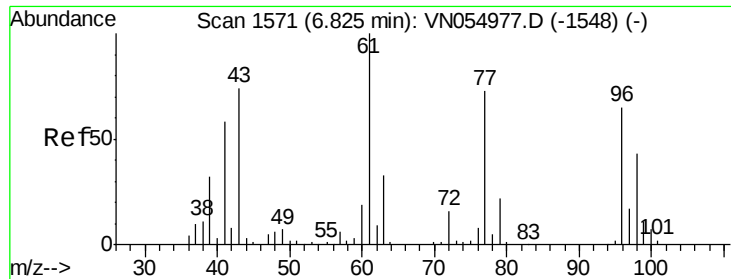
MMDadoda
 4/22/2019 10:07:17 AM



#30
 2-Butanone
 Concen: 123.077 ug/l
 RT: 6.84 min Scan# 1576
 Delta R.T. -0.00 min
 Lab File: VN055143.D
 Acq: 19 Apr 2019 15:39

Tgt Ion	Ratio	Resp Lower	Upper
43	100		
57	7.4	6.0	9.0
72	23.1	18.6	27.8





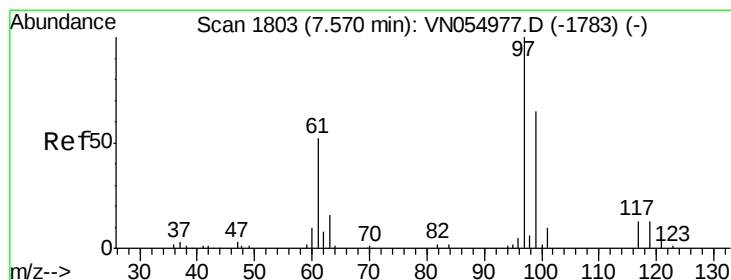
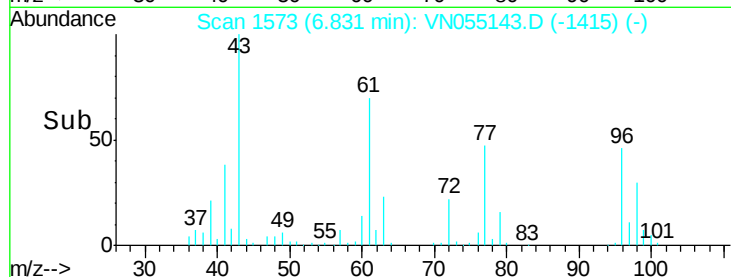
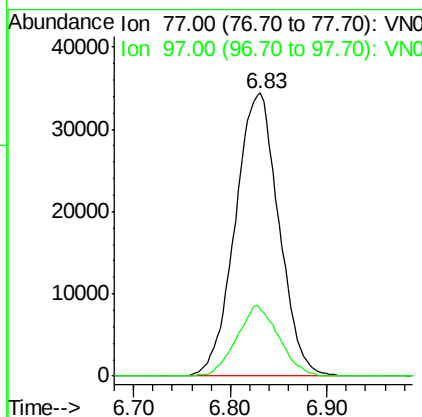
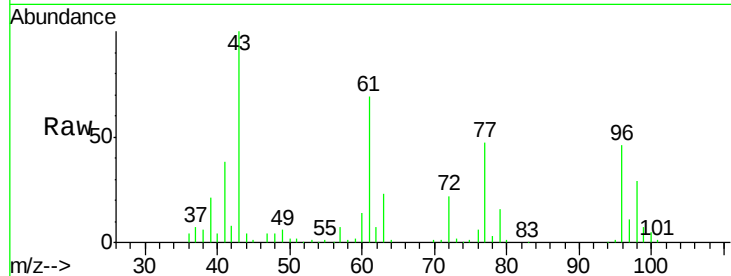
#31
 2,2-Dichloropropane
 Concen: 19.404 ug/l
 RT: 6.83 min Scan# 1573
 Delta R.T. 0.01 min
 Lab File: VN055143.D
 Acq: 19 Apr 2019 15:39

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Tot Ion: 77 Resp: 107743
 Ion Ratio Lower Upper
 77 100
 97 24.0 0.0 0.0#

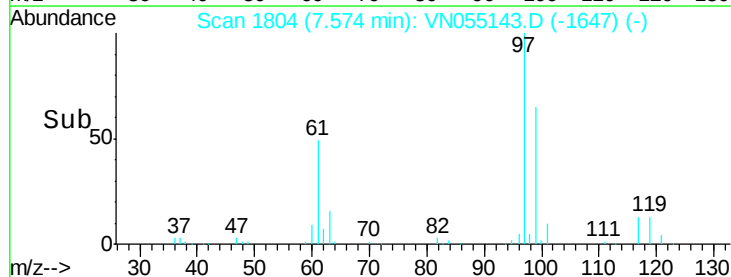
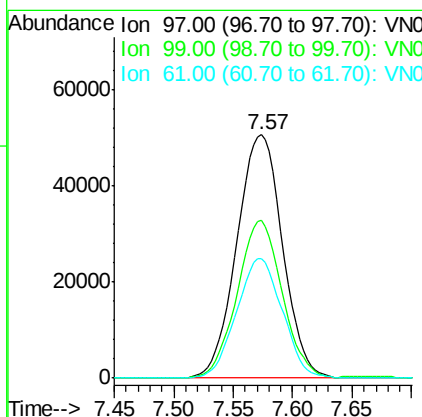
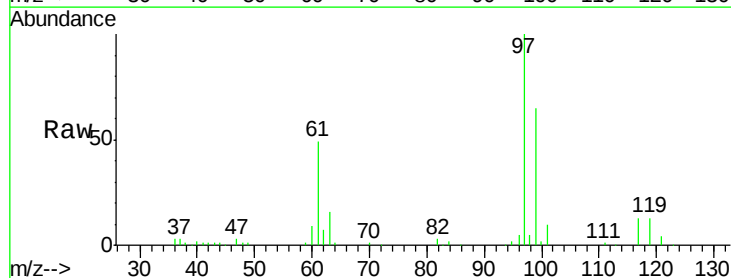
Manual Integrations
 APPROVED

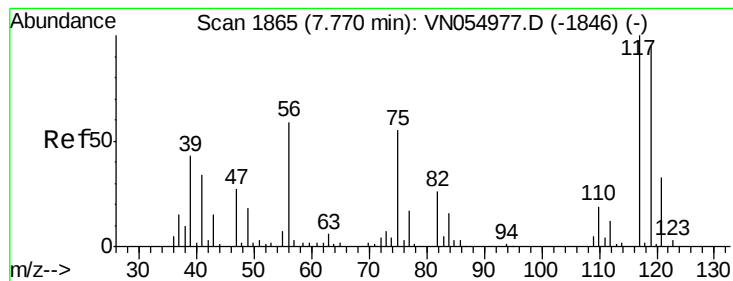
MMDadoda
 4/22/2019 10:07:17 AM



#32
 1,1,1-Trichloroethane
 Concen: 21.146 ug/l
 RT: 7.57 min Scan# 1804
 Delta R.T. 0.00 min
 Lab File: VN055143.D
 Acq: 19 Apr 2019 15:39

Tgt Ion: 97 Resp: 134847
 Ion Ratio Lower Upper
 97 100
 99 63.8 51.2 76.8
 61 49.2 40.6 60.8





#33

Carbon Tetrachloride

Concen: 20.393 ug/l

RT: 7.78 min Scan# 1867

Delta R.T. 0.01 min

Lab File: VN055143.D

Acq: 19 Apr 2019 15:39

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020EC

Tot Ion:117 Resp: 112586

Ion Ratio Lower Upper

117 100

119 100.8 76.1 114.1

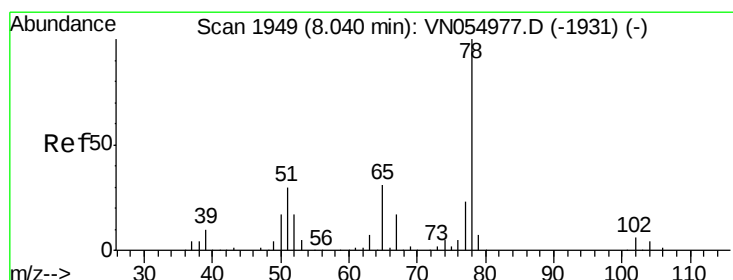
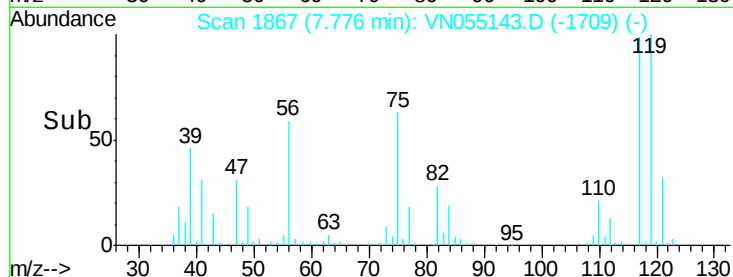
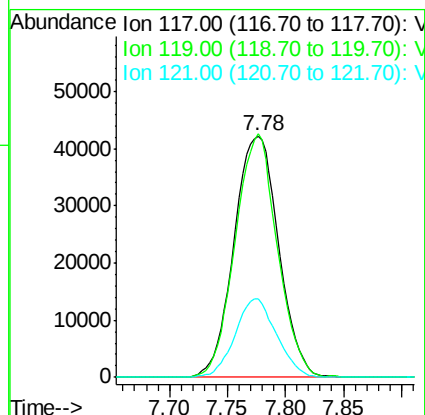
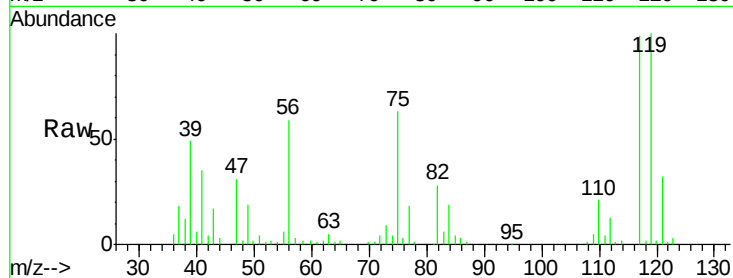
121 32.4 26.2 39.4

Manual Integrations

APPROVED

MMDadoda

4/22/2019 10:07:17 AM



#34

Benzene

Concen: 20.760 ug/l

RT: 8.04 min Scan# 1950

Delta R.T. 0.00 min

Lab File: VN055143.D

Acq: 19 Apr 2019 15:39

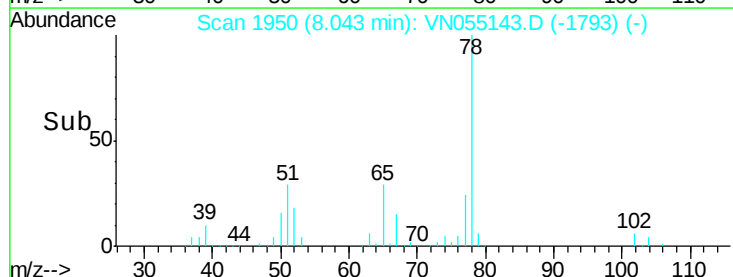
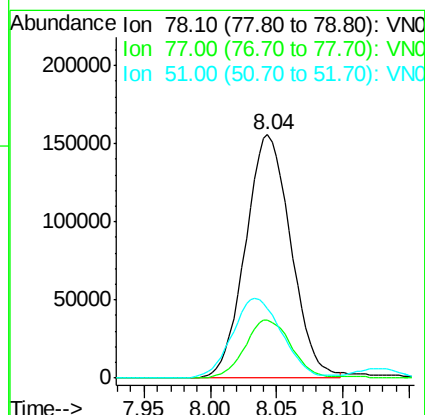
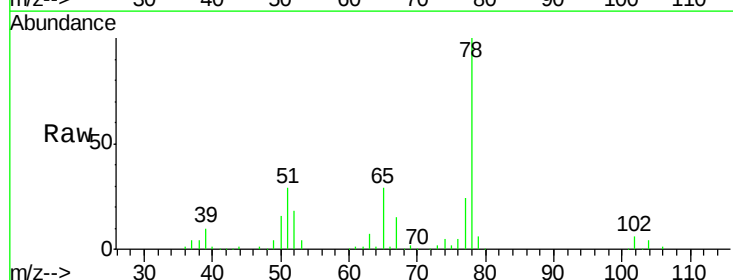
Tgt Ion: 78 Resp: 371151

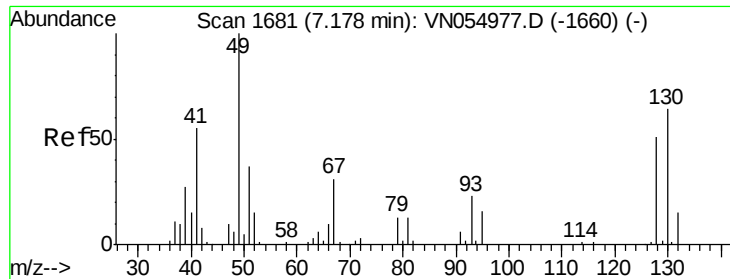
Ion Ratio Lower Upper

78 100

77 23.6 18.2 27.4

51 28.2 23.7 35.5





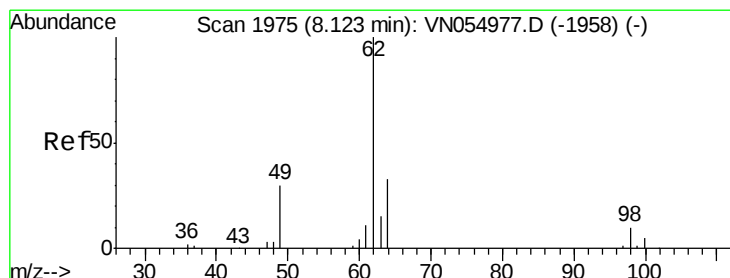
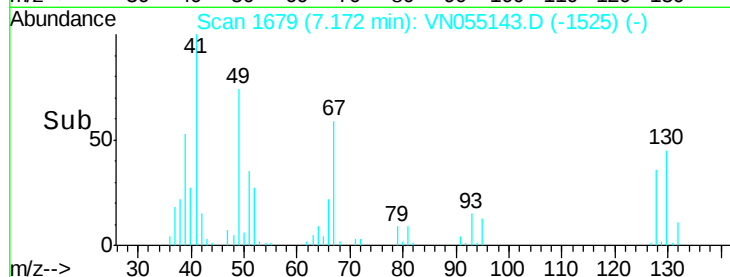
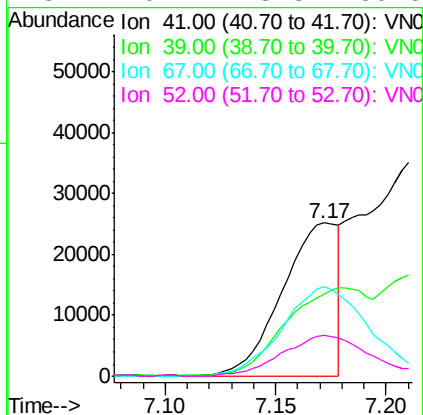
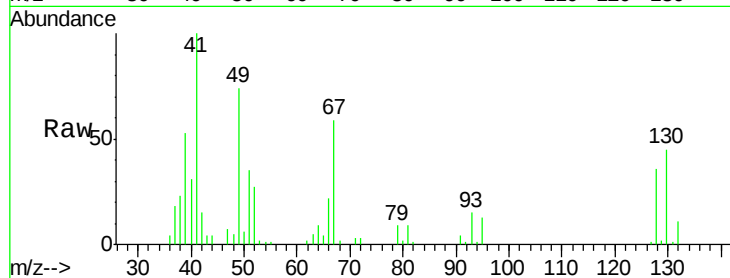
#35
Methacrylonitrile
Concen: 18.831 ug/l
RT: 7.17 min Scan# 1679
Delta R.T. -0.01 min
Lab File: VN055143.D
Acq: 19 Apr 2019 15:39

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tot Ion	41	Resp	44449
Ion Ratio	Lower	Upper	
41	100		
39	52.6	24.2	72.6
67	58.7	28.1	84.2
52	26.7	13.3	39.8

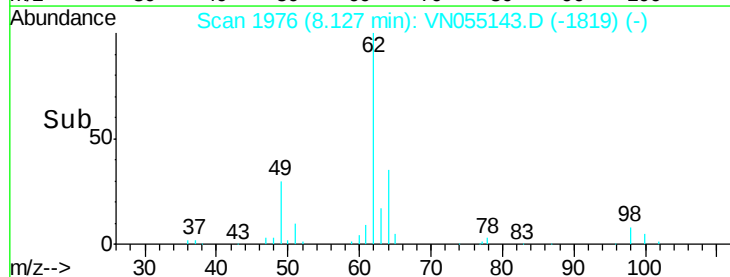
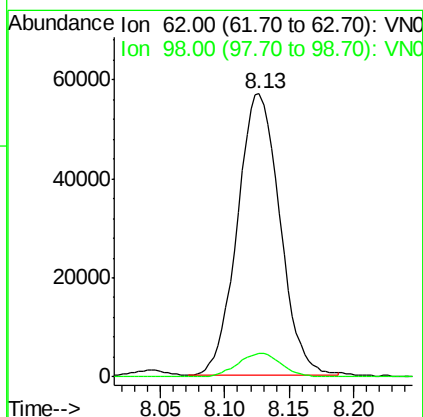
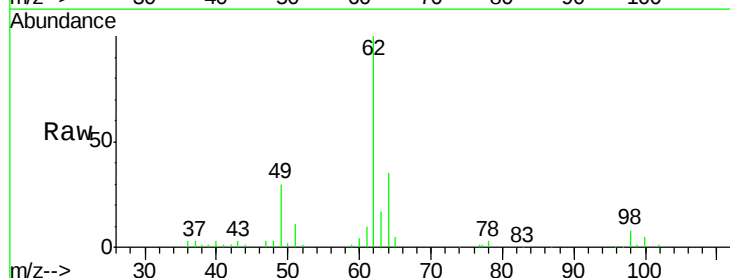
Manual Integrations
APPROVED

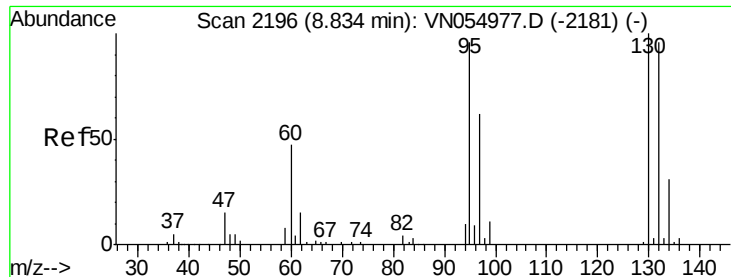
MMDadoda
4/22/2019 10:07:17 AM



#36
1,2-Dichloroethane
Concen: 21.404 ug/l
RT: 8.13 min Scan# 1976
Delta R.T. 0.00 min
Lab File: VN055143.D
Acq: 19 Apr 2019 15:39

Tgt Ion	62	Resp	130787
Ion Ratio	Lower	Upper	
62	100		
98	8.5	6.9	10.3





#37

Trichloroethene

Concen: 20.349 ug/l

RT: 8.84 min Scan# 2197

Delta R.T. 0.00 min

Lab File: VN055143.D

Acq: 19 Apr 2019 15:39

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020EC

Tot Ion:130 Resp: 92745

Ion Ratio Lower Upper

130 100

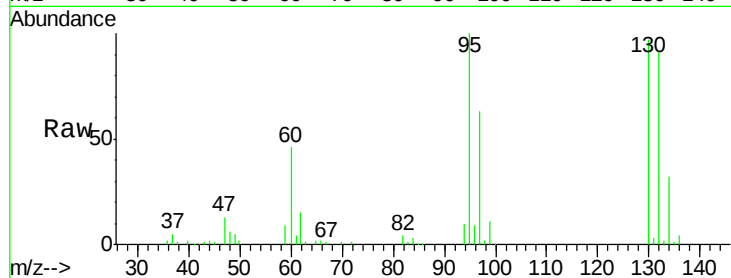
95 102.3 76.6 115.0

Manual Integrations

APPROVED

MMDadoda

4/22/2019 10:07:17 AM



Abundance Ion 129.90 (129.60 to 130.60): V

Ion 94.90 (94.60 to 95.60): VN

8.84

50000

40000

30000

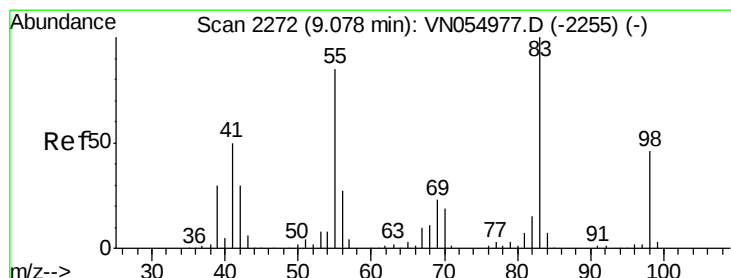
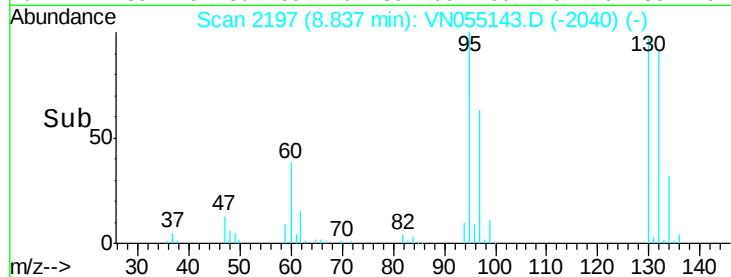
20000

10000

0

8.75 8.80 8.85 8.90

Time-->



#38

Methylcyclohexane

Concen: 17.763 ug/l

RT: 9.08 min Scan# 2273

Delta R.T. 0.00 min

Lab File: VN055143.D

Acq: 19 Apr 2019 15:39

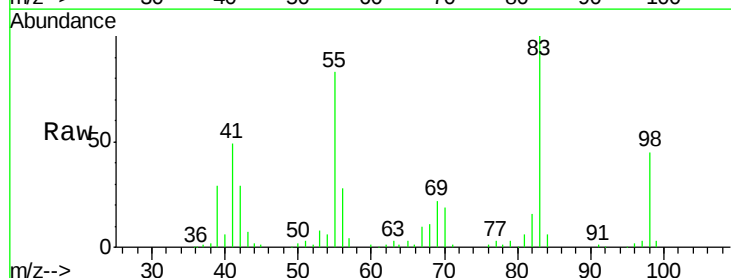
Tgt Ion: 83 Resp: 124275

Ion Ratio Lower Upper

83 100

55 84.7 41.9 125.6

98 44.8 22.4 67.0



Abundance Ion 83.00 (82.70 to 83.70): VN

Ion 55.00 (54.70 to 55.70): VN

Ion 98.00 (97.70 to 98.70): VN

9.08

80000

60000

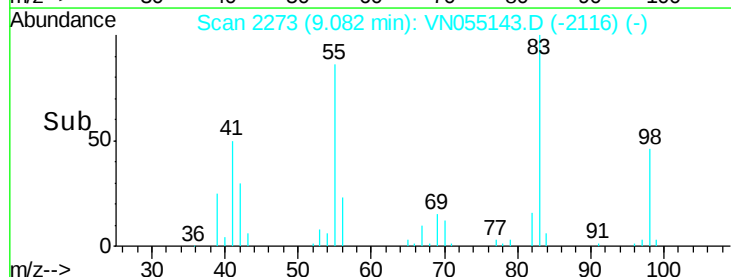
40000

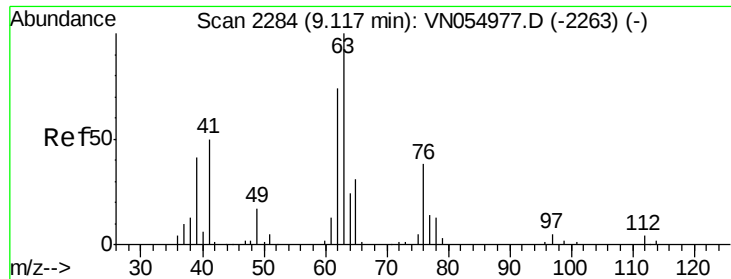
20000

0

9.00 9.05 9.10 9.15

Time-->





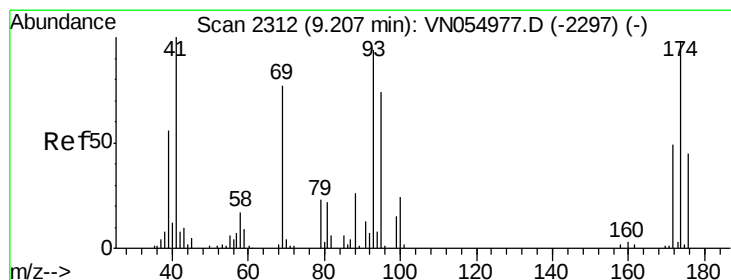
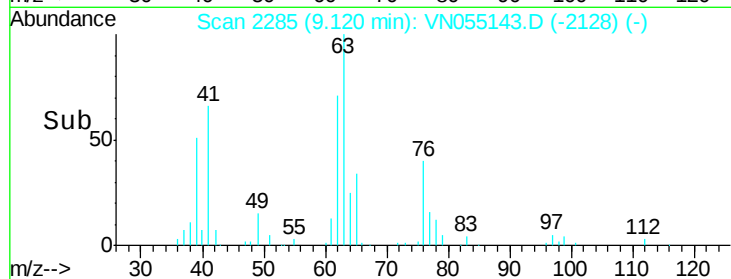
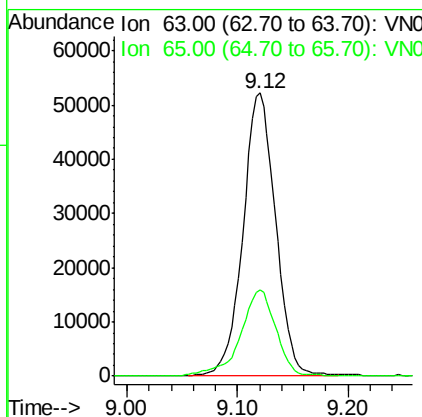
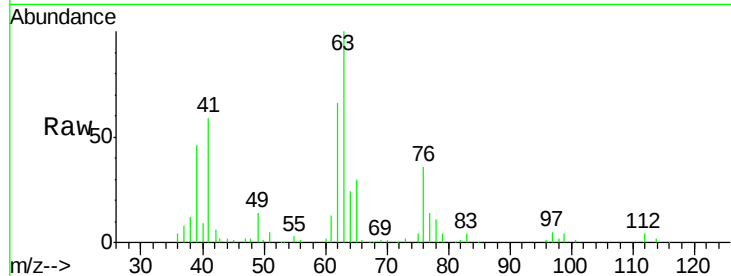
#39
 1,2-Dichloropropane
 Concen: 21.714 ug/l
 RT: 9.12 min Scan# 2285
 Delta R.T. 0.00 min
 Lab File: VN055143.D
 Acq: 19 Apr 2019 15:39

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Tot Ion: 63 Resp: 107197
 Ion Ratio Lower Upper
 63 100
 65 30.1 24.8 37.2

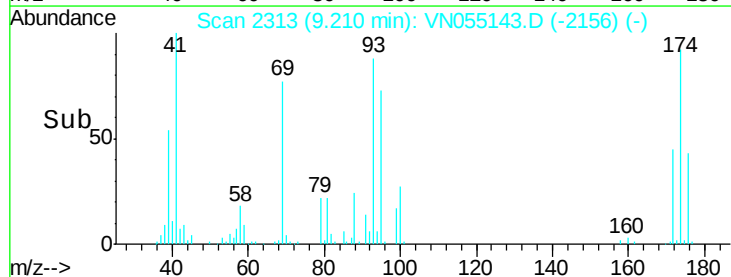
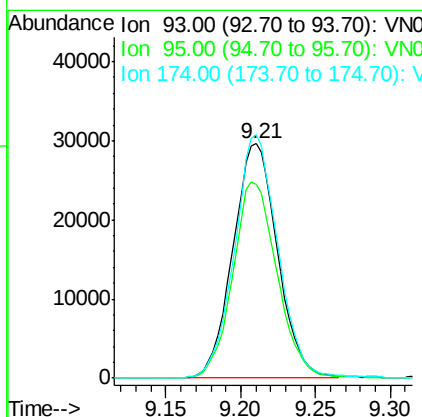
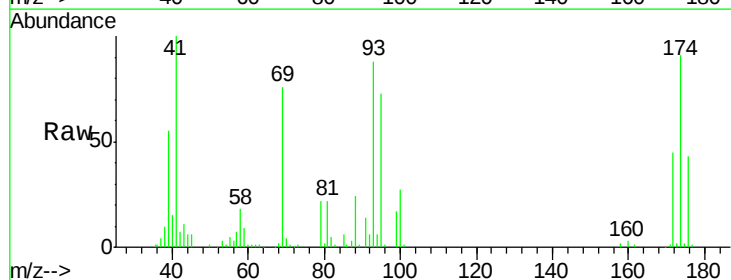
Manual Integrations
 APPROVED

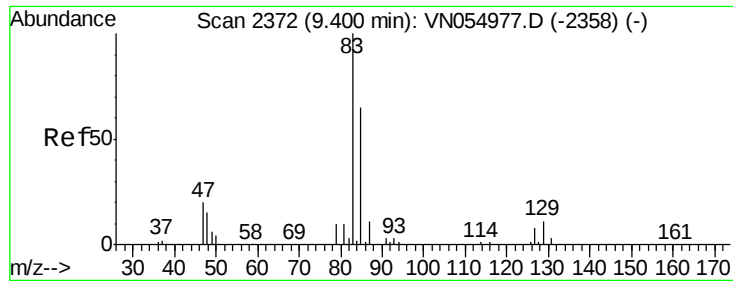
MMDadoda
 4/22/2019 10:07:17 AM



#40
 Dibromomethane
 Concen: 22.038 ug/l
 RT: 9.21 min Scan# 2313
 Delta R.T. 0.00 min
 Lab File: VN055143.D
 Acq: 19 Apr 2019 15:39

Tgt Ion: 93 Resp: 61495
 Ion Ratio Lower Upper
 93 100
 95 83.0 0.0 160.8
 174 101.1 0.0 206.4





#41

Bromodichloromethane

Concen: 20.914 ug/l

RT: 9.40 min Scan# 2373

Delta R.T. 0.00 min

Lab File: VN055143.D

Acq: 19 Apr 2019 15:39

Instrument :

MSVOA_N

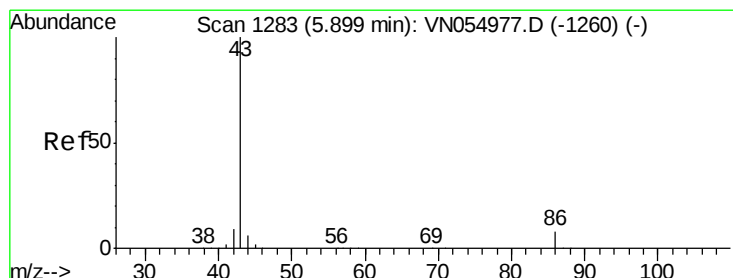
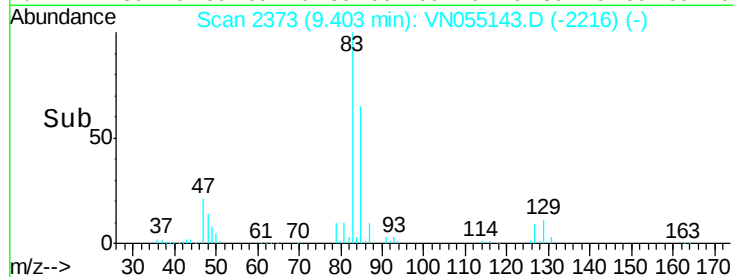
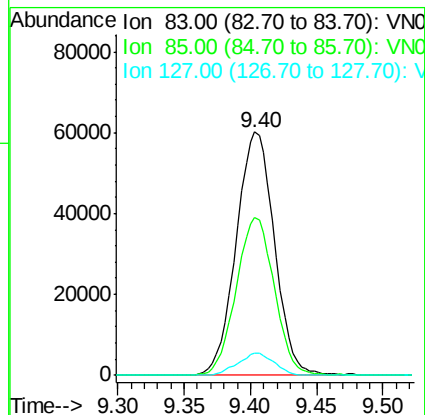
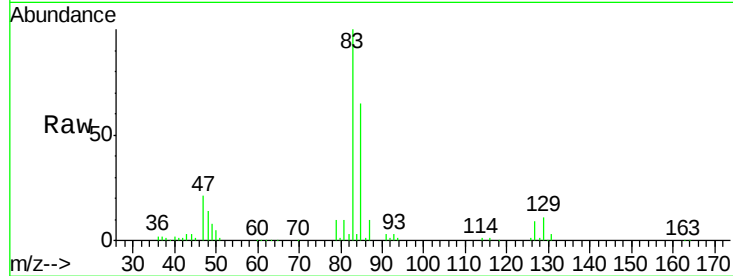
ClientSampleId :

VSTDCCC020EC

Tot Ion:	83	Resp:	120440
Ion Ratio	Lower	Upper	
83	100		
85	64.9	52.0	78.0
127	9.3	7.2	10.8

Manual Integrations
APPROVED

MMDadoda
4/22/2019 10:07:17 AM



#42

Vinyl Acetate

Concen: 114.690 ug/l

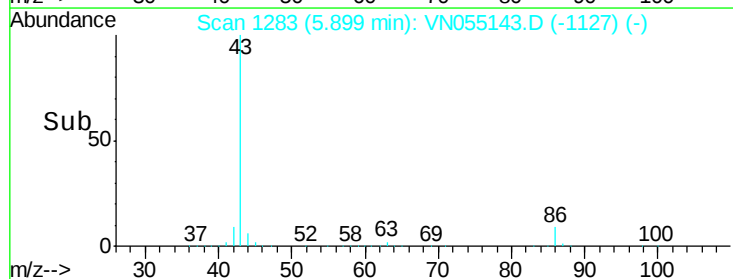
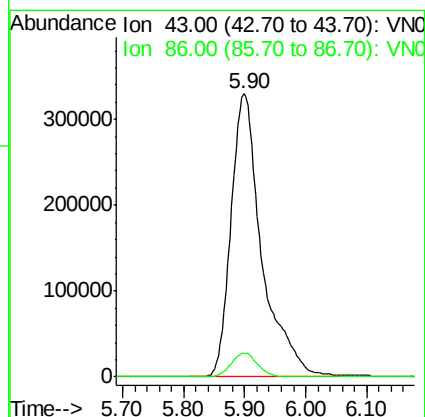
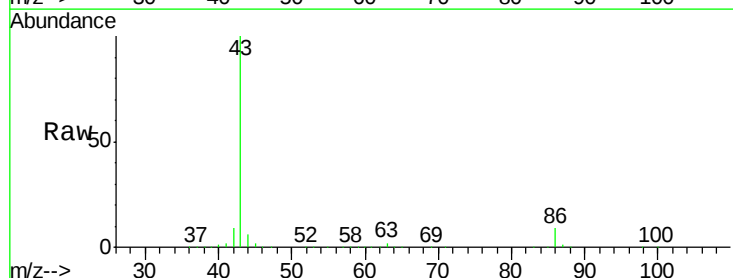
RT: 5.90 min Scan# 1283

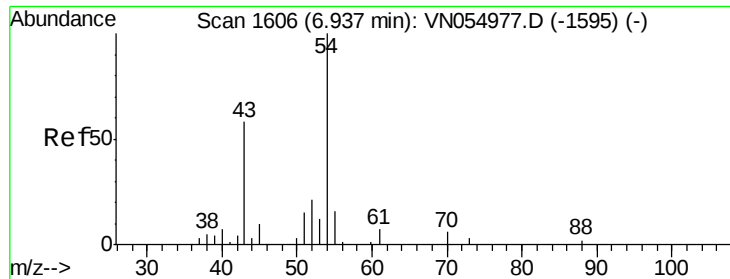
Delta R.T. 0.00 min

Lab File: VN055143.D

Acq: 19 Apr 2019 15:39

Tgt Ion:	43	Resp:	1161159
Ion Ratio	Lower	Upper	
43	100		
86	7.2	5.7	8.5





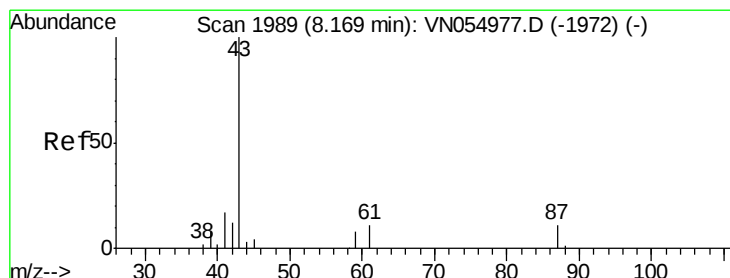
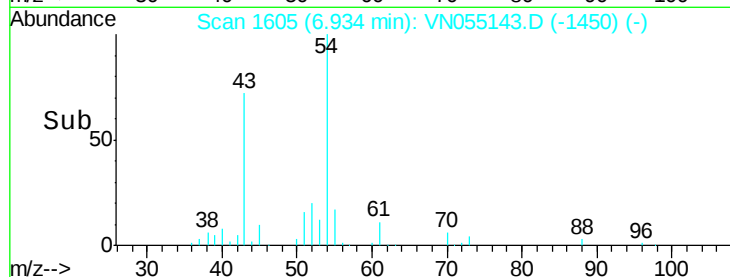
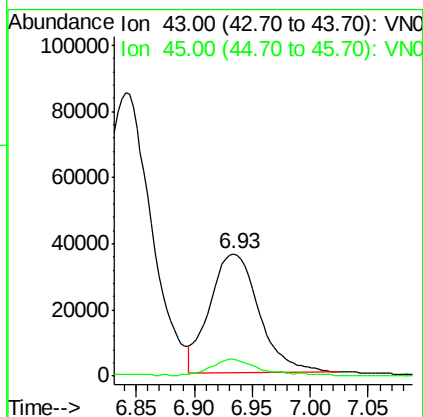
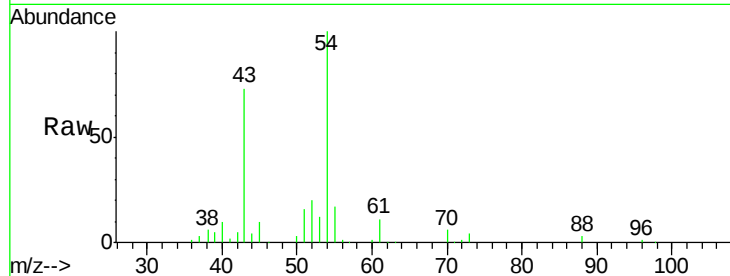
#43
Ethyl Acetate
Concen: 25.995 ug/l
RT: 6.93 min Scan# 1605
Delta R.T. -0.00 min
Lab File: VN055143.D
Acq: 19 Apr 2019 15:39

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tot Ion	43	45	Ratio	Lower	Upper
106056	100	12.0		10.6	15.8

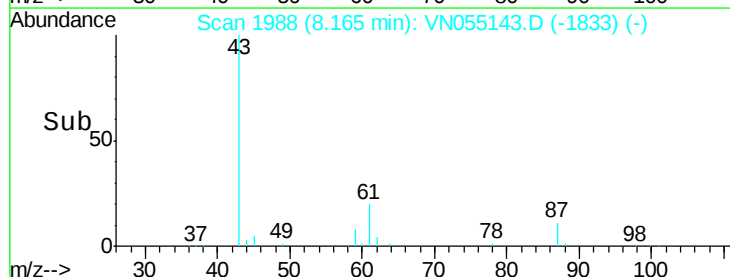
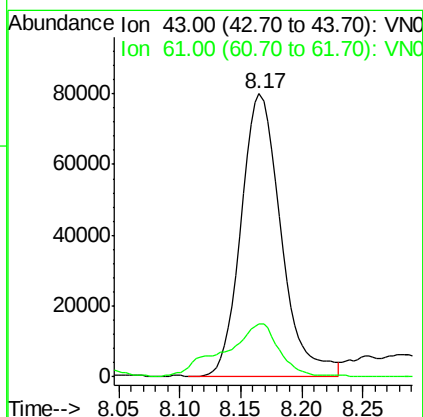
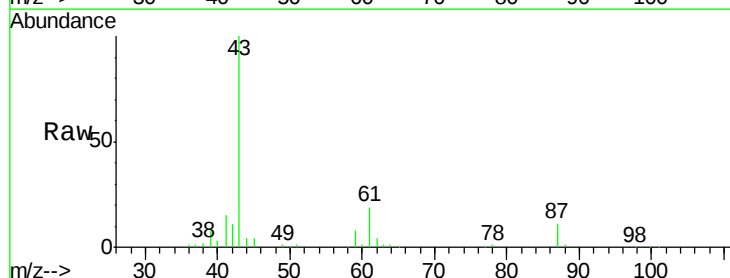
Manual Integrations
APPROVED

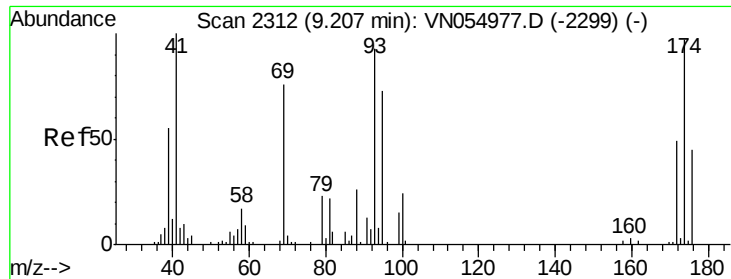
MMDadoda
4/22/2019 10:07:17 AM



#44
Isopropyl Acetate
Concen: 26.011 ug/l
RT: 8.17 min Scan# 1988
Delta R.T. -0.00 min
Lab File: VN055143.D
Acq: 19 Apr 2019 15:39

Tgt Ion	43	61	Ratio	Lower	Upper
179839	100	25.9		14.8	22.2#





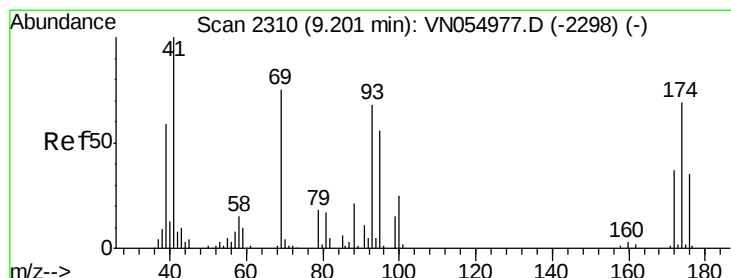
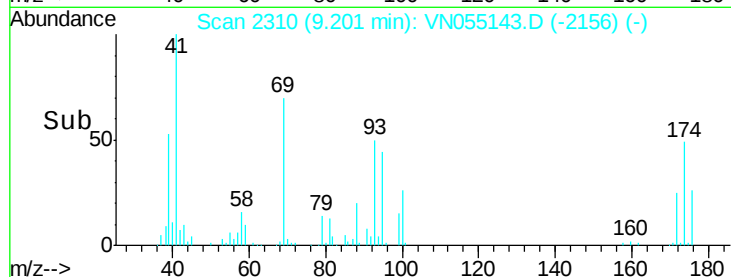
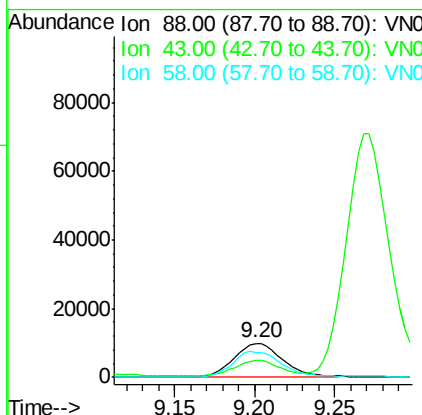
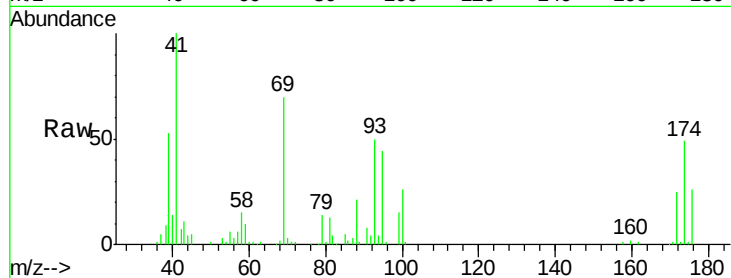
#45
 1,4-Dioxane
 Concen: 540.701 ug/l
 RT: 9.20 min Scan# 2310
 Delta R.T. -0.01 min
 Lab File: VN055143.D
 Acq: 19 Apr 2019 15:39

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Tot Ion	Ratio	Lower	Upper
88	100		
43	37.5	34.5	51.7
58	77.7	60.3	90.5

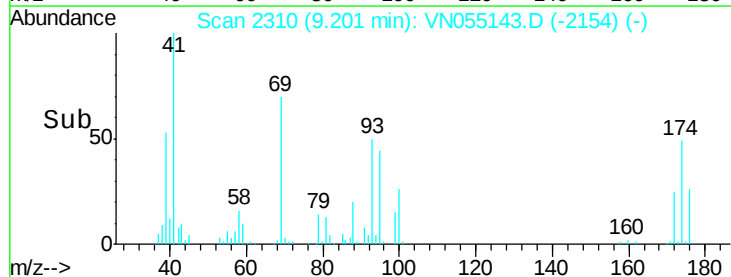
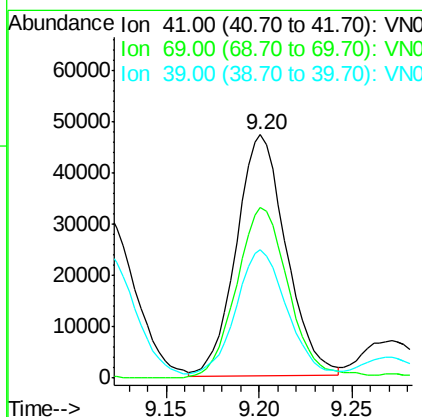
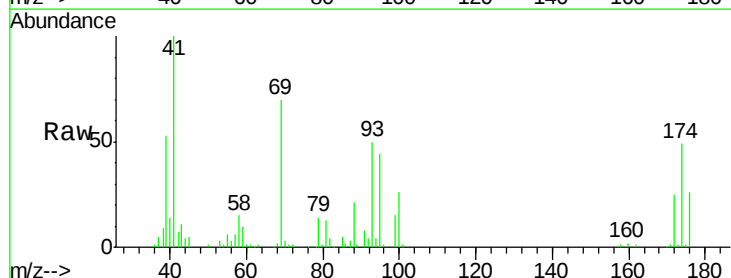
Manual Integrations
 APPROVED

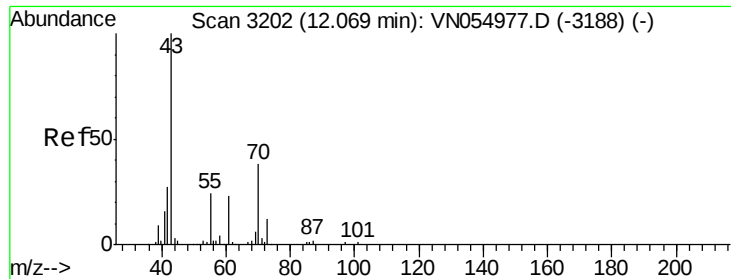
MMDadoda
 4/22/2019 10:07:17 AM



#46
 Methyl methacrylate
 Concen: 24.513 ug/l
 RT: 9.20 min Scan# 2310
 Delta R.T. 0.00 min
 Lab File: VN055143.D
 Acq: 19 Apr 2019 15:39

Tgt Ion	Ratio	Lower	Upper
41	100		
69	71.1	37.3	111.9
39	52.3	29.4	88.2





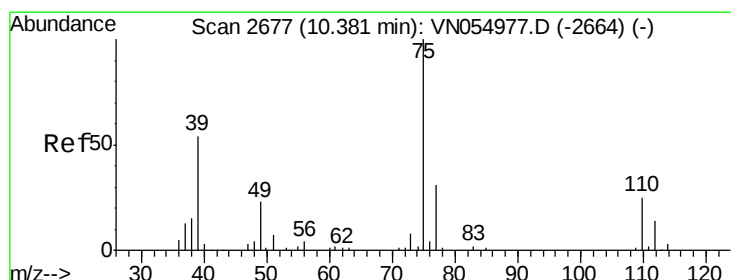
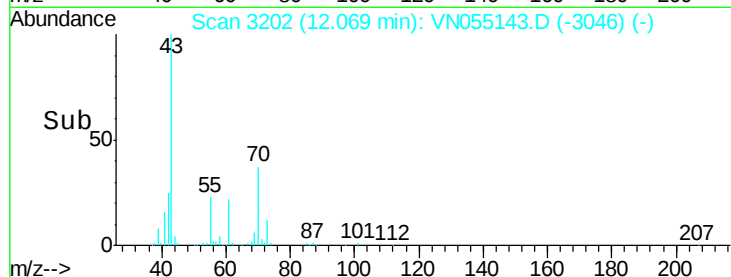
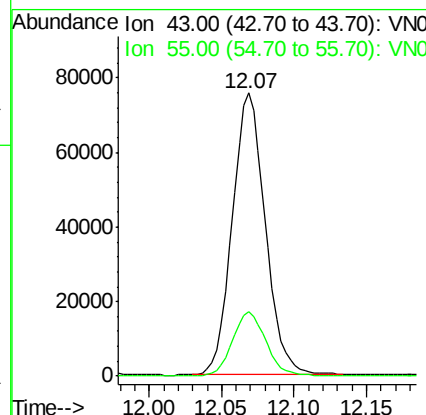
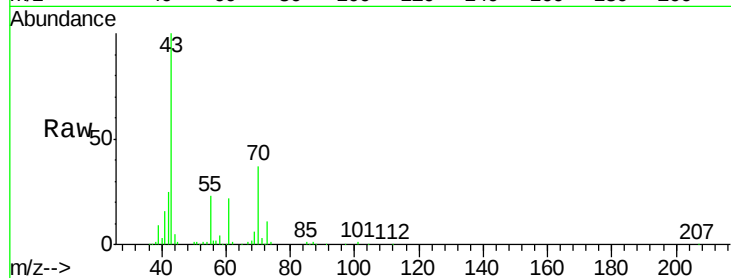
#47
n-amvl Acetate
Concen: 23.482 ug/l
RT: 12.07 min Scan# 3202
Delta R.T. 0.00 min
Lab File: VN055143.D
Acq: 19 Apr 2019 15:39

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tot Ion: 43 Resp: 119578
Ion Ratio Lower Upper
43 100
55 23.3 19.8 29.6

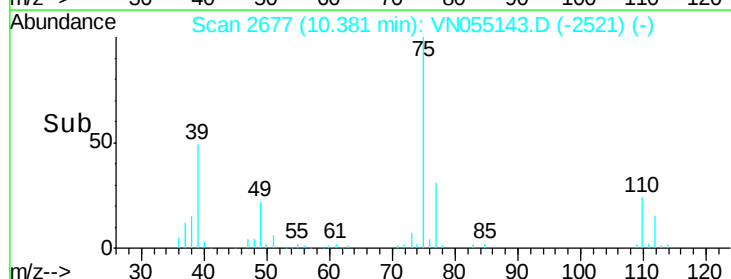
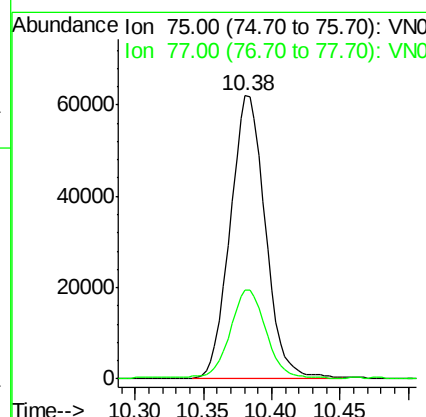
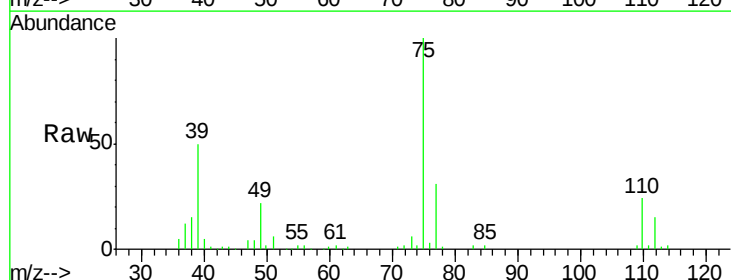
Manual Integrations
APPROVED

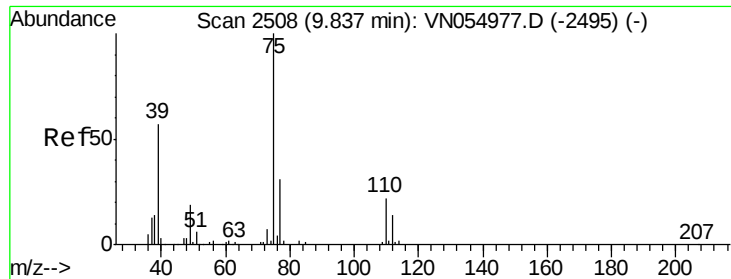
MMDadoda
4/22/2019 10:07:17 AM



#48
t-1,3-Dichloropropene
Concen: 21.061 ug/l
RT: 10.38 min Scan# 2677
Delta R.T. 0.00 min
Lab File: VN055143.D
Acq: 19 Apr 2019 15:39

Tgt Ion: 75 Resp: 111379
Ion Ratio Lower Upper
75 100
77 31.0 24.6 37.0





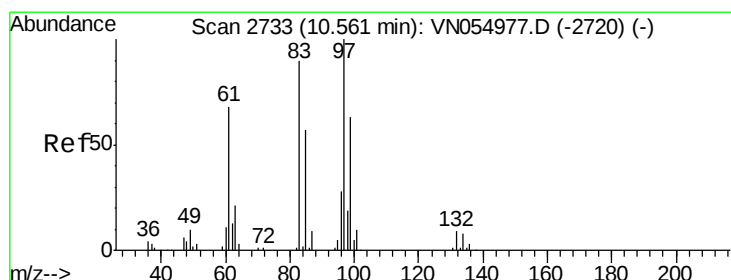
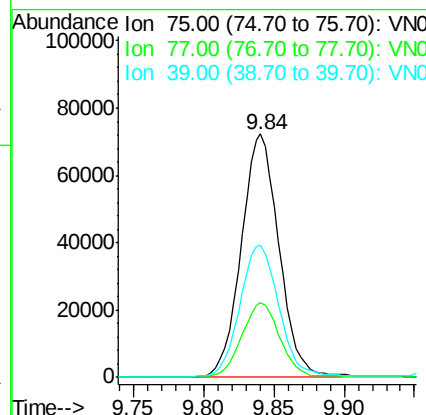
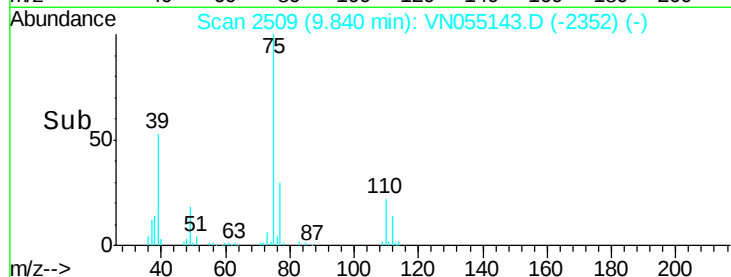
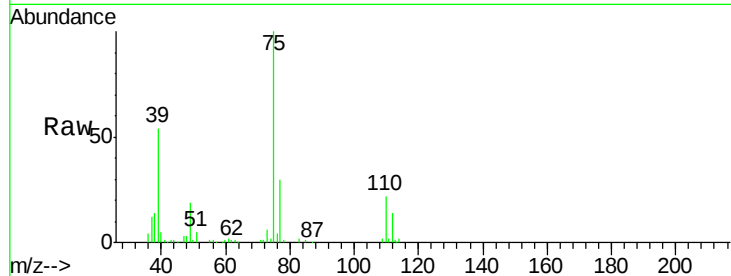
#49
 cis-1,3-Dichloropropene
 Concen: 20.771 ug/l
 RT: 9.84 min Scan# 2509
 Delta R.T. 0.00 min
 Lab File: VN055143.D
 Acq: 19 Apr 2019 15:39

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Tot Ion	Ratio	Lower	Upper
75	100		
77	30.5	24.7	37.1
39	53.7	45.3	67.9

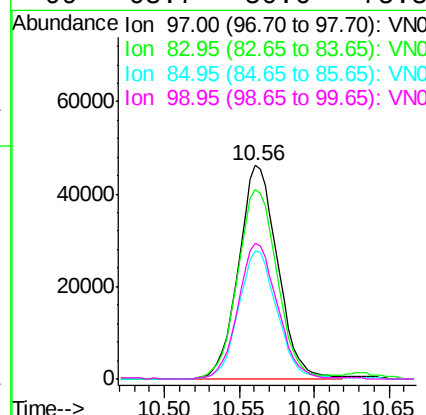
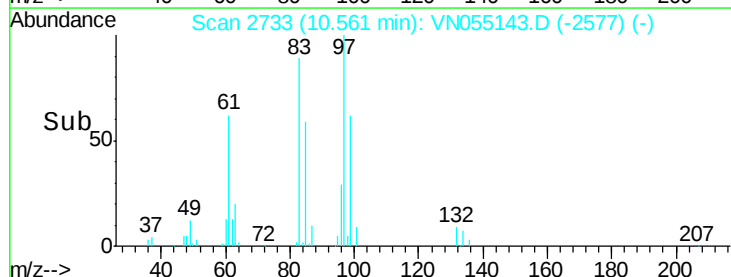
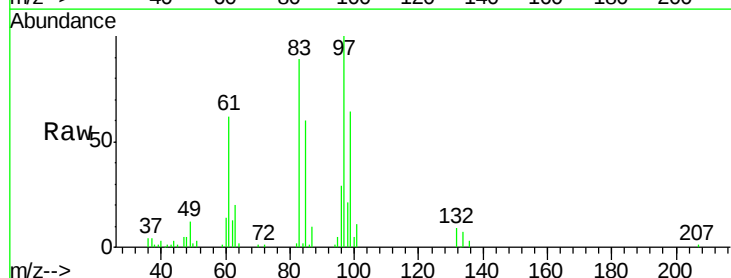
Manual Integrations
 APPROVED

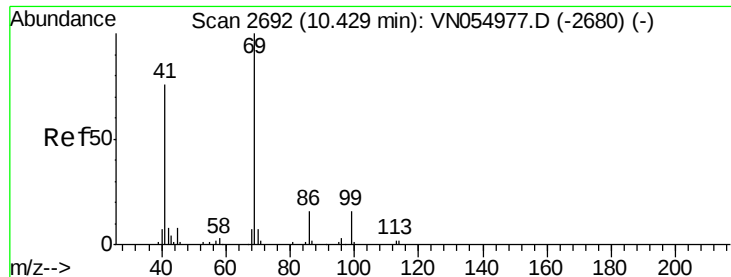
MMDadoda
 4/22/2019 10:07:17 AM



#50
 1,1,2-Trichloroethane
 Concen: 22.210 ug/l
 RT: 10.56 min Scan# 2733
 Delta R.T. 0.00 min
 Lab File: VN055143.D
 Acq: 19 Apr 2019 15:39

Tgt Ion	Ratio	Lower	Upper
97	100		
83	88.6	72.1	108.1
85	59.8	45.4	68.0
99	63.7	50.6	75.8





#51

Ethyl methacrylate

Concen: 22.829 ug/l

RT: 10.43 min Scan# 2692

Delta R.T. 0.00 min

Lab File: VN055143.D

Acq: 19 Apr 2019 15:39

Instrument :

MSVOA_N

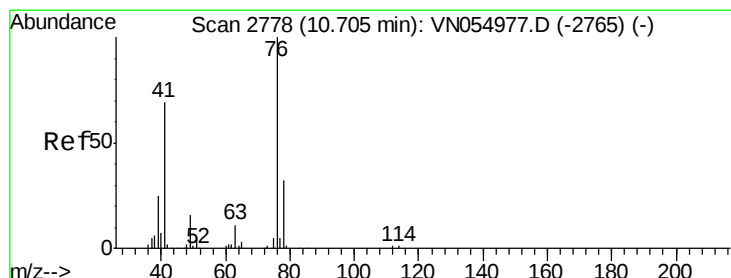
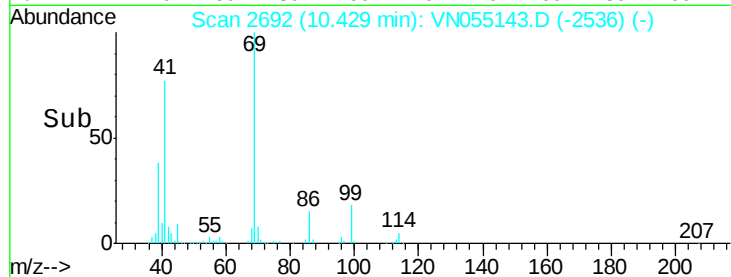
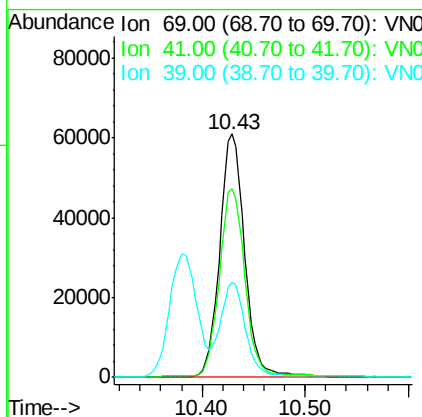
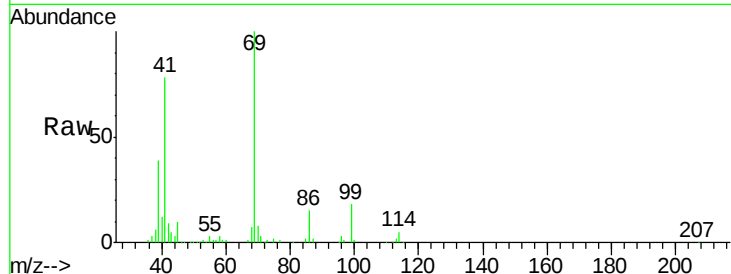
ClientSampleId :

VSTDCCC020EC

Tot Ion:	69	Resp:	103137
Ion	Ratio	Lower	Upper
69	100		
41	76.9	37.9	113.7
39	38.7	19.8	59.4

Manual Integrations
APPROVED

MMDadoda
4/22/2019 10:07:17 AM



#52

1,3-Dichloropropane

Concen: 22.250 ug/l

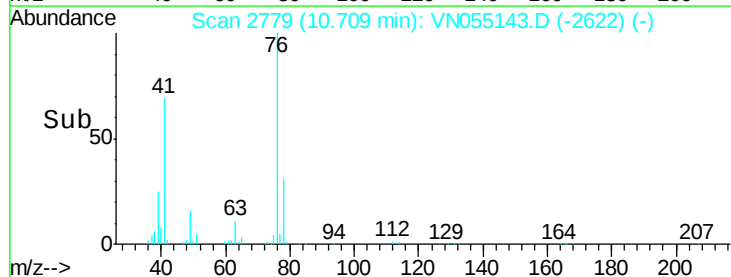
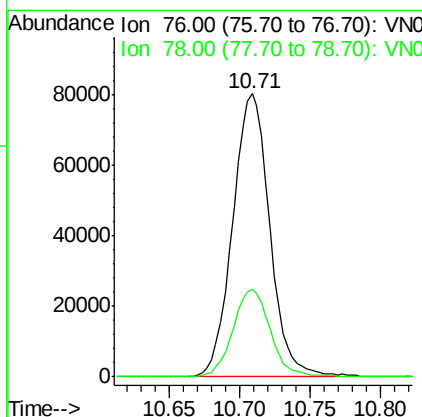
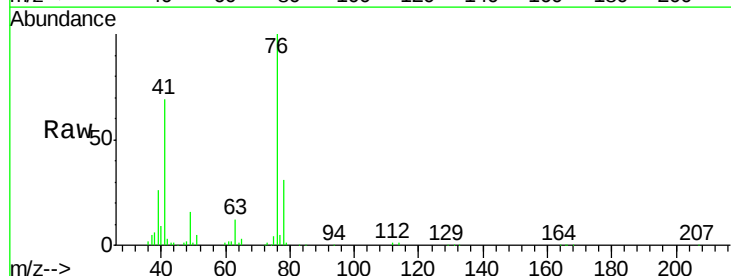
RT: 10.71 min Scan# 2779

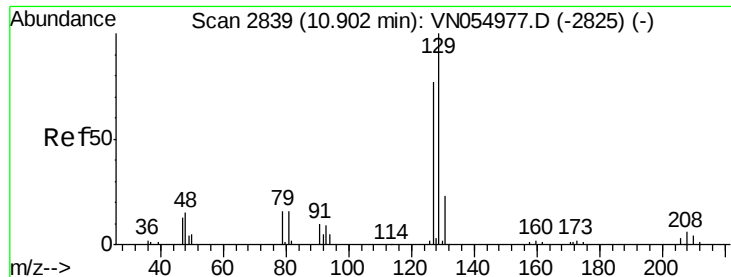
Delta R.T. 0.00 min

Lab File: VN055143.D

Acq: 19 Apr 2019 15:39

Tgt Ion:	76	Resp:	147760
Ion	Ratio	Lower	Upper
76	100		
78	31.0	0.0	64.4





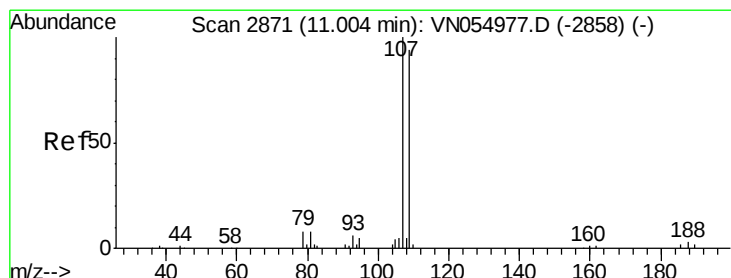
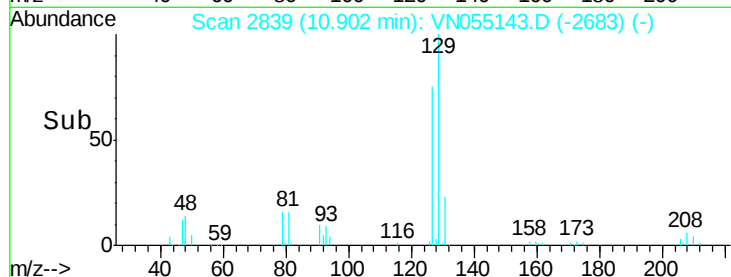
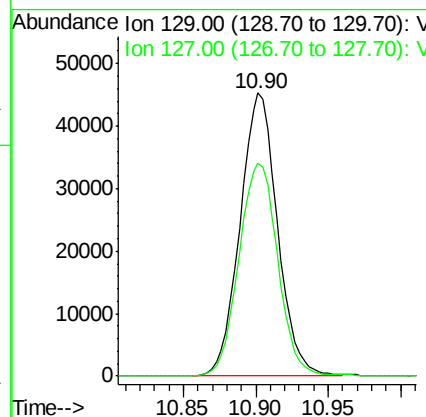
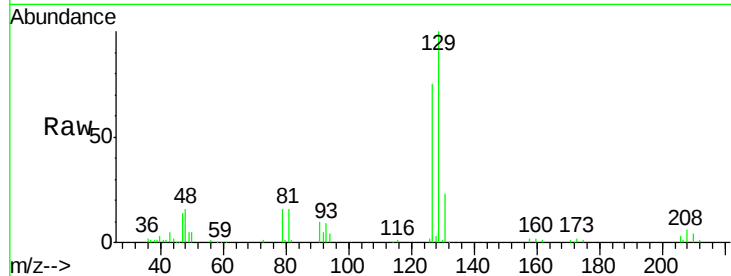
#53
 Dibromochloromethane
 Concen: 20.844 ug/l
 RT: 10.90 min Scan# 2839
 Delta R.T. 0.00 min
 Lab File: VN055143.D
 Acq: 19 Apr 2019 15:39

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Tot Ion:129 Resp: 81372
 Ion Ratio Lower Upper
 129 100
 127 77.9 37.8 113.3

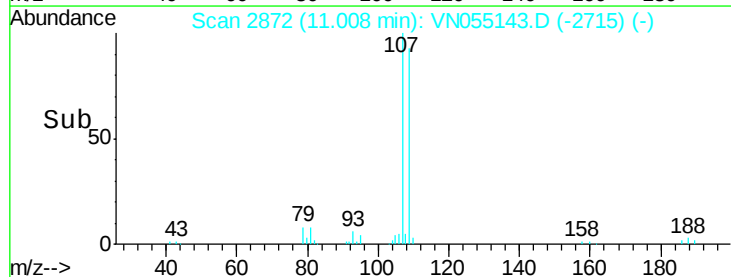
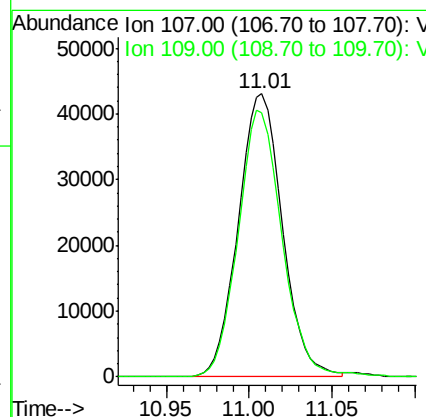
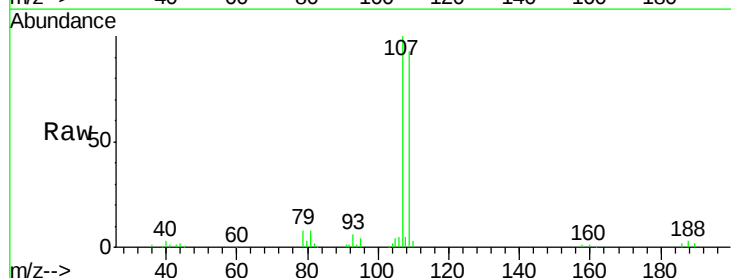
Manual Integrations
 APPROVED

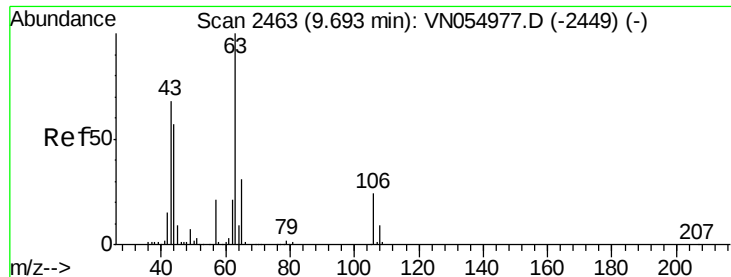
MMDadoda
 4/22/2019 10:07:17 AM



#54
 1,2-Dibromoethane
 Concen: 22.423 ug/l
 RT: 11.01 min Scan# 2872
 Delta R.T. 0.00 min
 Lab File: VN055143.D
 Acq: 19 Apr 2019 15:39

Tgt Ion:107 Resp: 79781
 Ion Ratio Lower Upper
 107 100
 109 92.9 76.2 114.2





#55

2-Chloroethyl vinyl ether

Concen: 103.422 ug/l

RT: 9.70 min Scan# 2464

Delta R.T. 0.00 min

Lab File: VN055143.D

Acq: 19 Apr 2019 15:39

Instrument :

MSVOA_N

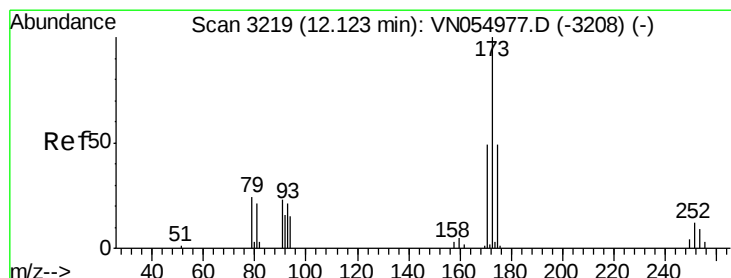
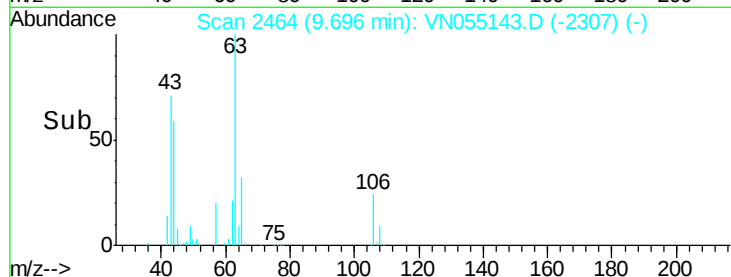
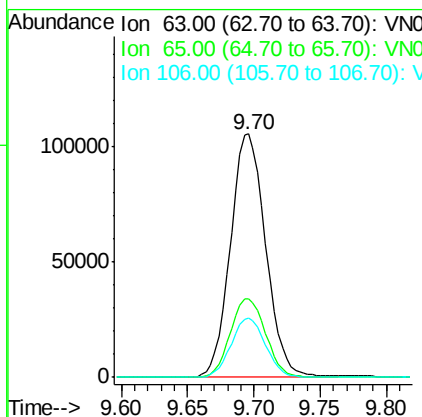
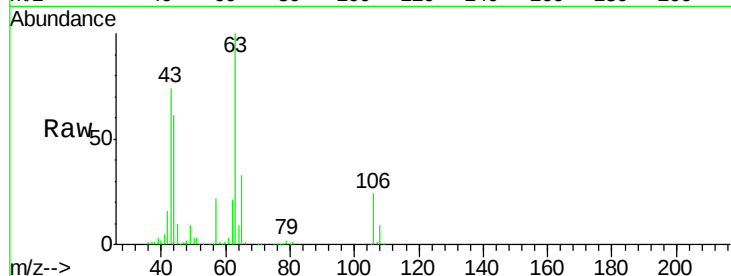
ClientSampleId :

VSTDCCC020EC

Tot Ion:	63	Resp:	195333
Ion	Ratio	Lower	Upper
63	100		
65	32.2	25.4	38.0
106	23.6	19.8	29.6

Manual Integrations
APPROVED

MMDadoda
4/22/2019 10:07:17 AM



#56

Bromoform

Concen: 21.537 ug/l

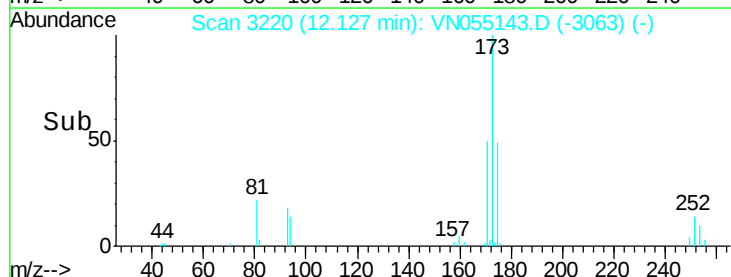
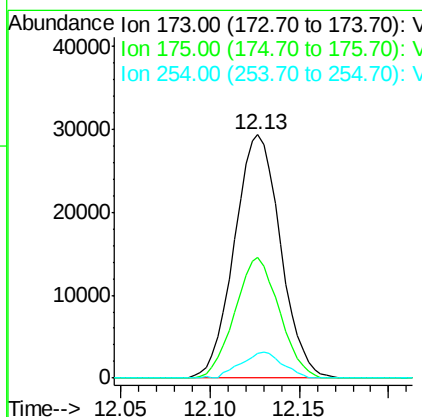
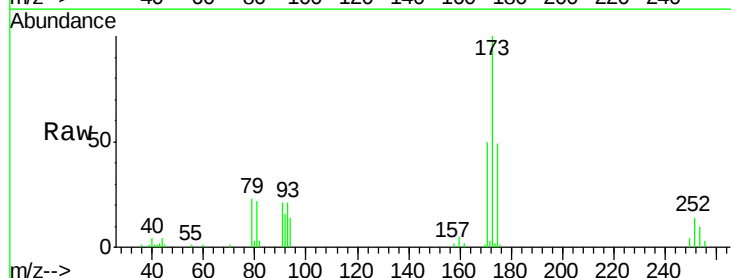
RT: 12.13 min Scan# 3220

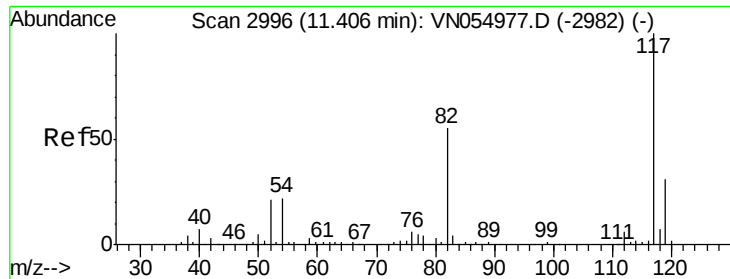
Delta R.T. 0.00 min

Lab File: VN055143.D

Acq: 19 Apr 2019 15:39

Tgt Ion:	173	Resp:	52831
Ion	Ratio	Lower	Upper
173	100		
175	47.7	38.6	57.8
254	9.7	6.8	10.2





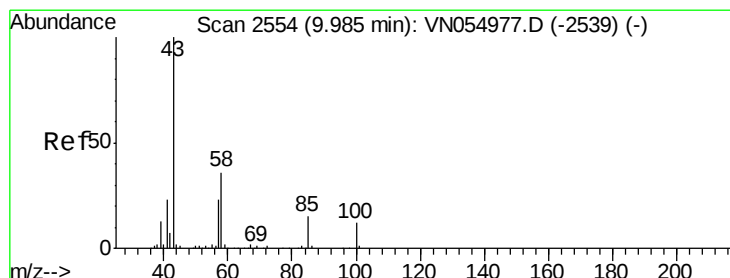
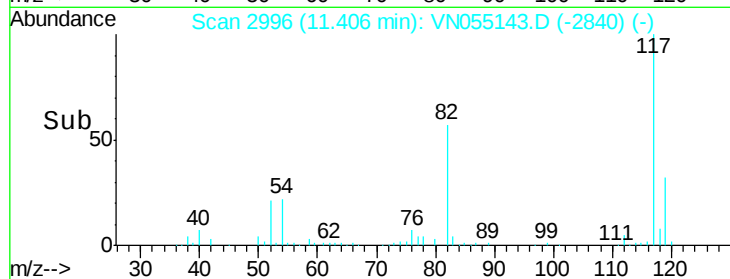
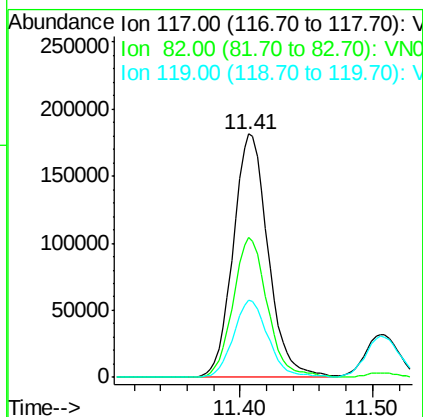
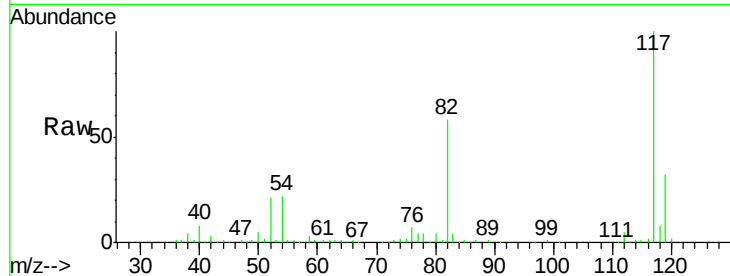
#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN055143.D
Acq: 19 Apr 2019 15:39

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tot Ion	Ratio	Lower	Upper
117	100		
82	56.6	45.2	67.8
119	31.5	25.4	38.2

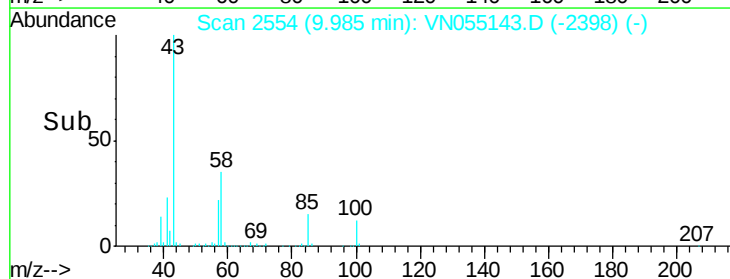
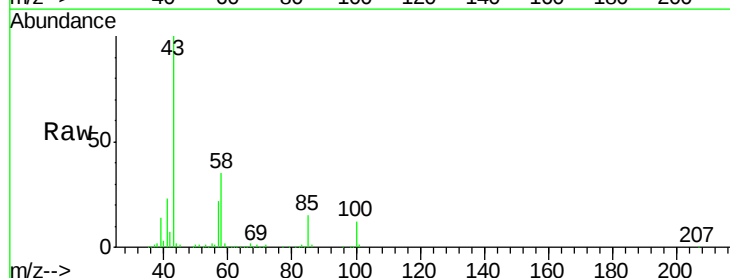
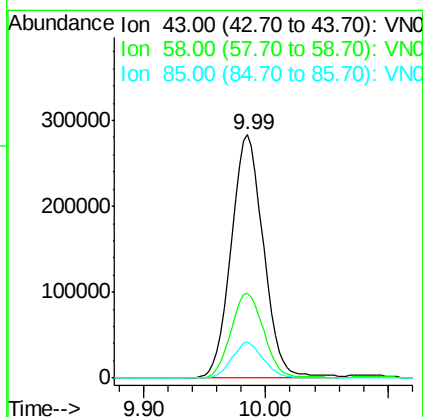
Manual Integrations
APPROVED

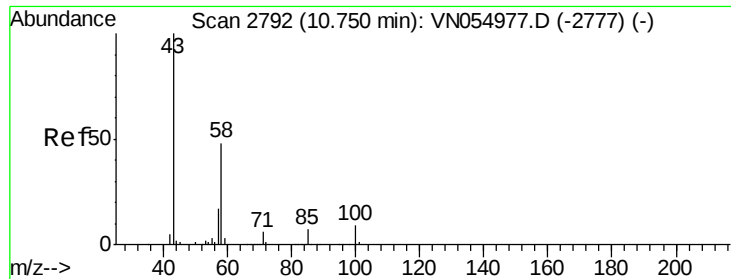
MMDadoda
4/22/2019 10:07:17 AM



#58
4-Methyl-2-Pentanone
Concen: 135.650 ug/l
RT: 9.99 min Scan# 2554
Delta R.T. 0.00 min
Lab File: VN055143.D
Acq: 19 Apr 2019 15:39

Tgt Ion	Ratio	Lower	Upper
43	100		
58	35.7	28.7	43.1
85	14.4	11.8	17.6





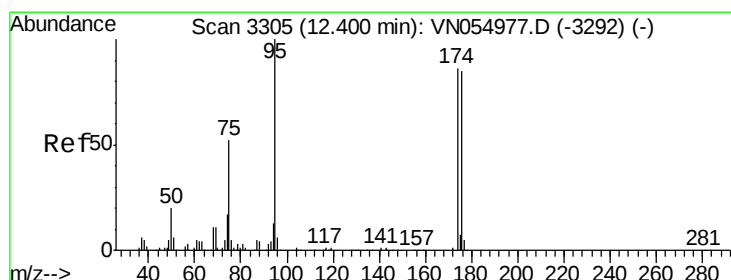
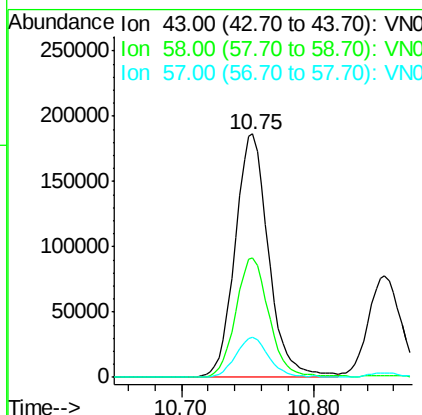
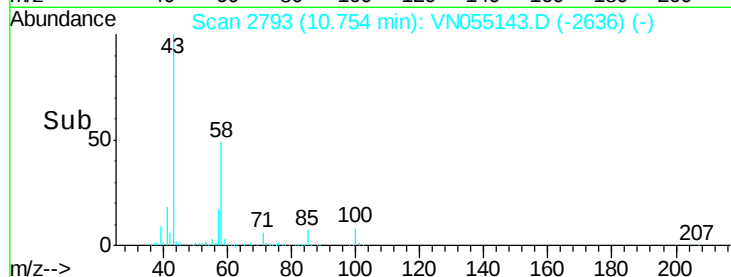
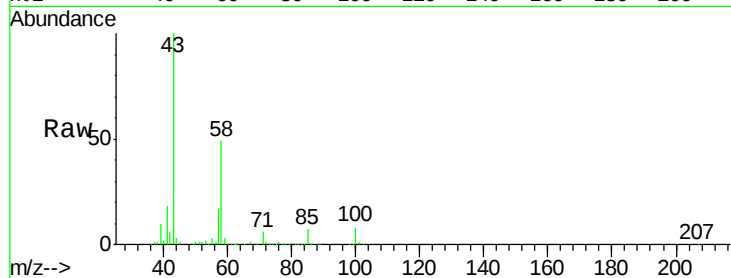
#59
2-Hexanone
Concen: 133.200 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.00 min
Lab File: VN055143.D
Acq: 19 Apr 2019 15:39

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tot Ion	Ratio	Lower	Upper
43	100		
58	49.1	38.8	58.2
57	16.5	13.8	20.6

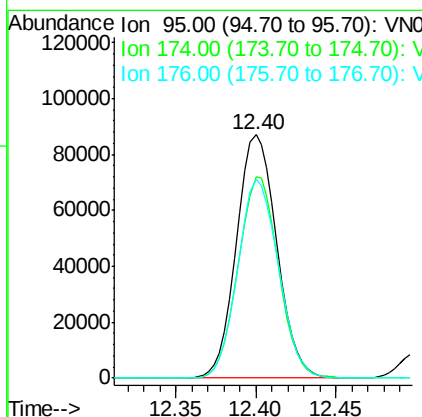
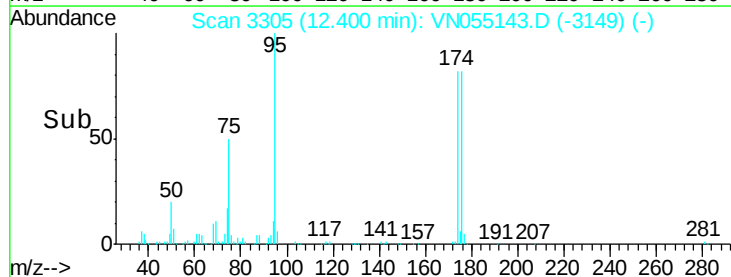
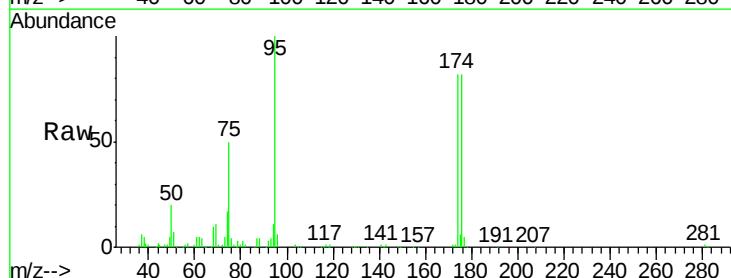
Manual Integrations
APPROVED

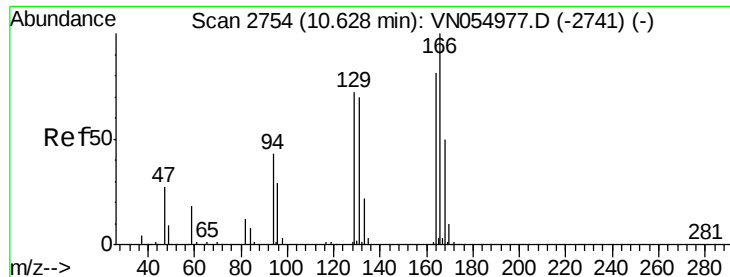
MMDadoda
4/22/2019 10:07:17 AM



#60
4-Bromofluorobenzene
Concen: 133.200 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.00 min
Lab File: VN055143.D
Acq: 19 Apr 2019 15:39

Tgt Ion	Ratio	Lower	Upper
95	100		
174	82.7	69.4	104.2
176	82.5	67.4	101.2





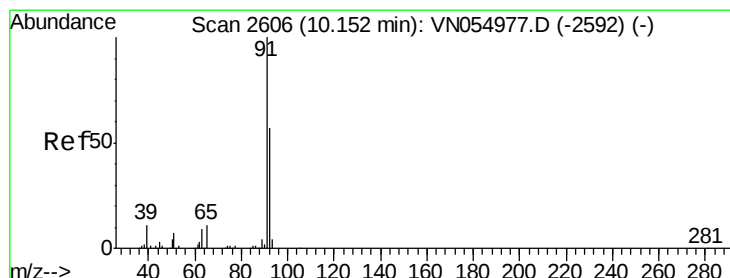
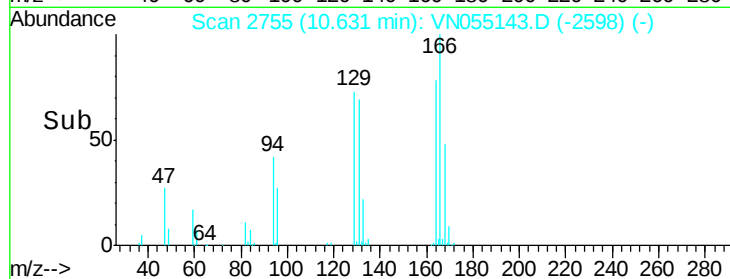
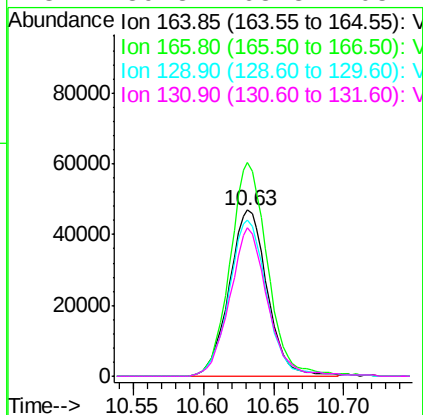
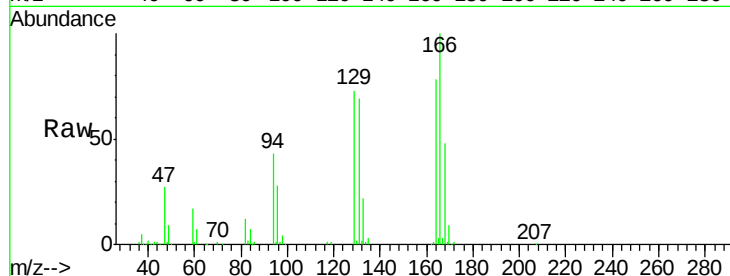
#61
Tetrachloroethene
Concen: 20.405 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. 0.00 min
Lab File: VN055143.D
Acq: 19 Apr 2019 15:39

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tot Ion	Ratio	Lower	Upper
164	100		
166	128.8	99.0	148.4
129	94.0	71.4	107.0
131	89.3	68.8	103.2

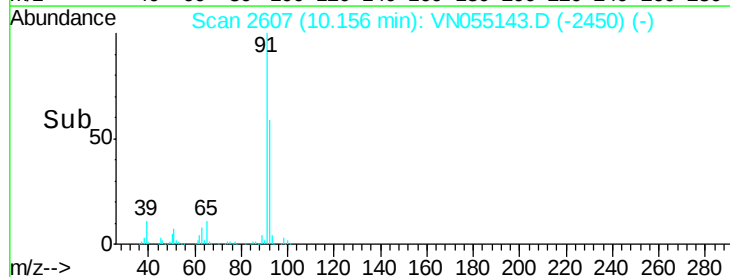
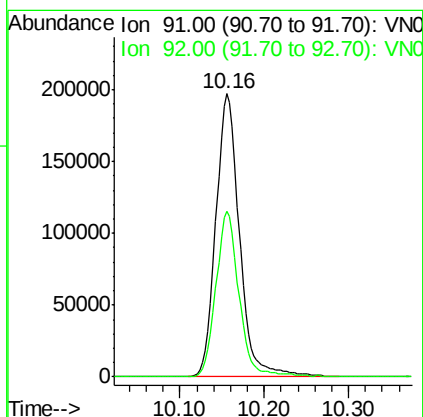
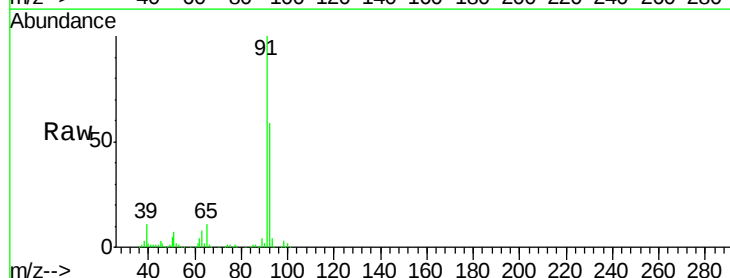
Manual Integrations
APPROVED

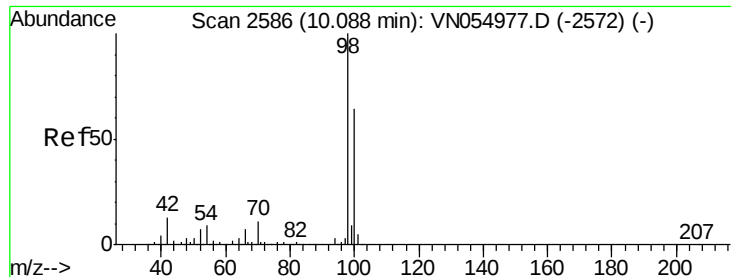
MMDadoda
4/22/2019 10:07:17 AM



#62
Toluene
Concen: 21.023 ug/l
RT: 10.16 min Scan# 2607
Delta R.T. 0.00 min
Lab File: VN055143.D
Acq: 19 Apr 2019 15:39

Tgt Ion	Ratio	Lower	Upper
91	100		
92	56.4	44.8	67.2





#63

Toluene-d8

Concen: 21.023 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN055143.D

Acq: 19 Apr 2019 15:39

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020EC

Tot Ion: 98 Resp: 481480

Ion Ratio Lower Upper

98 100

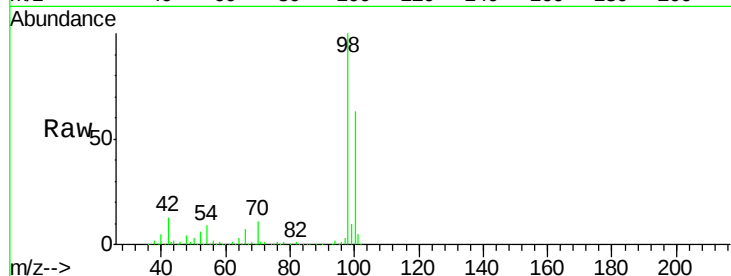
100 64.7 51.1 76.7

Manual Integrations

APPROVED

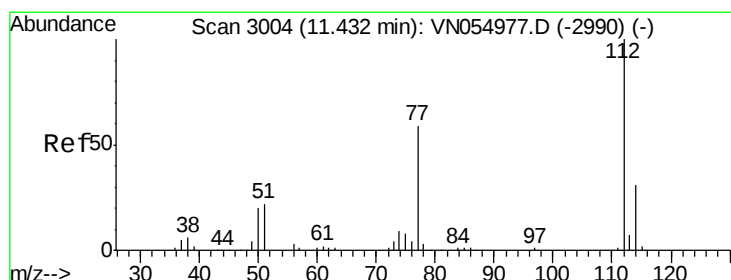
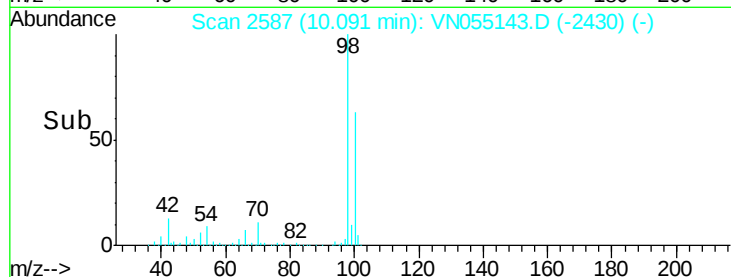
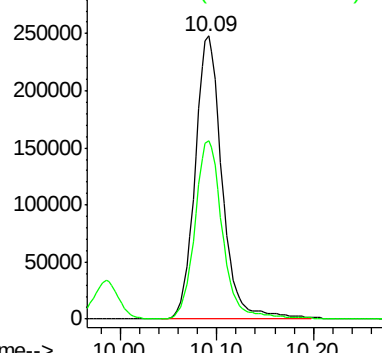
MMDadoda

4/22/2019 10:07:17 AM



Abundance Ion 98.00 (97.70 to 98.70): VN054977.D (-2572) (-)

Ion 100.00 (99.70 to 100.70): VN054977.D (-2572) (-)



#64

Chlorobenzene

Concen: 20.242 ug/l

RT: 11.43 min Scan# 3004

Delta R.T. 0.00 min

Lab File: VN055143.D

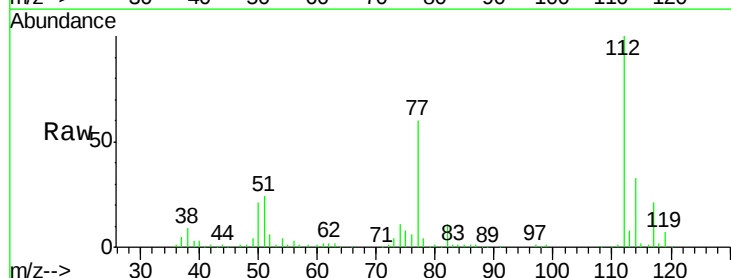
Acq: 19 Apr 2019 15:39

Tgt Ion: 112 Resp: 223813

Ion Ratio Lower Upper

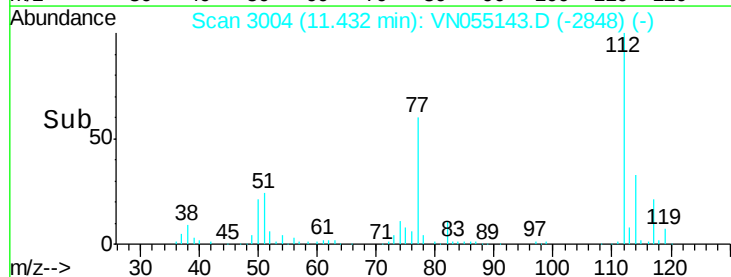
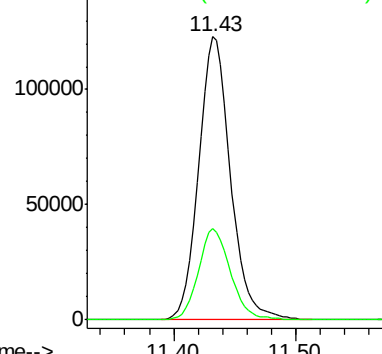
112 100

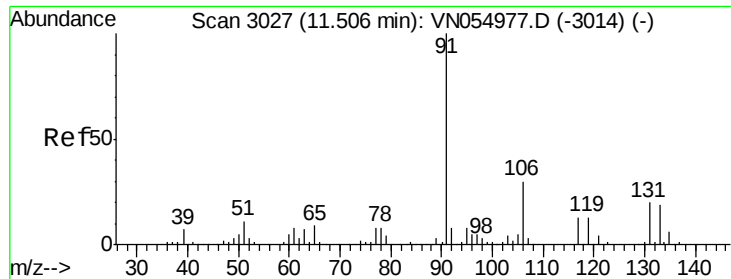
114 32.5 25.1 37.7



Abundance Ion 112.00 (111.70 to 112.70): VN054977.D (-2990) (-)

Ion 114.00 (113.70 to 114.70): VN054977.D (-2990) (-)





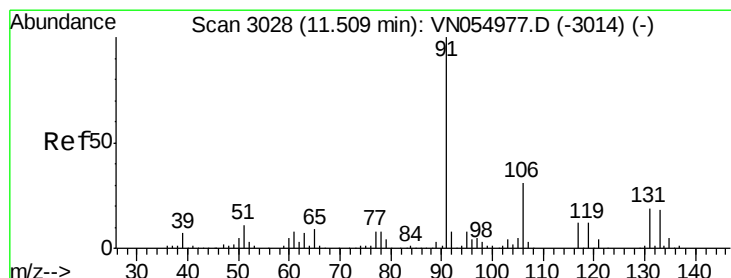
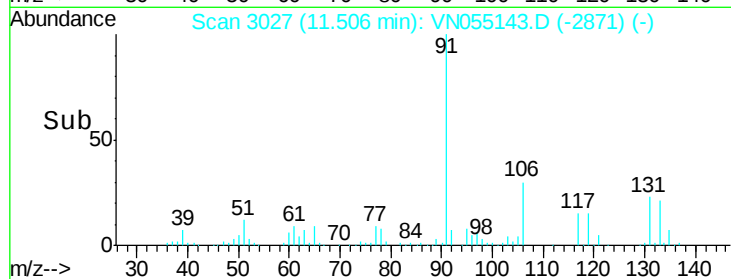
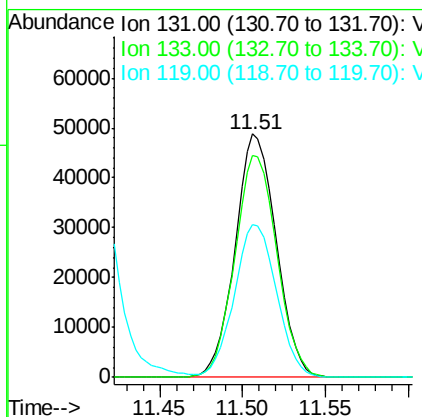
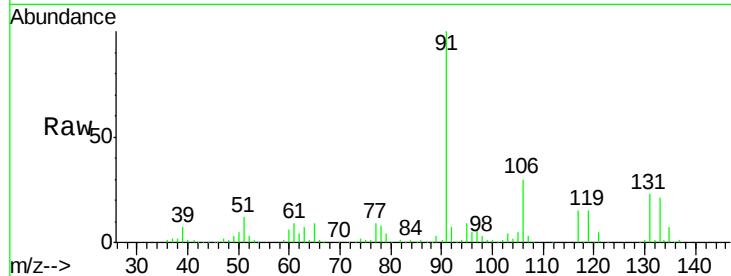
#65
1,1,1,2-Tetrachloroethane
Concen: 21.418 ug/l
RT: 11.51 min Scan# 3027
Delta R.T. 0.00 min
Lab File: VN055143.D
Acq: 19 Apr 2019 15:39

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tot Ion	Ratio	Lower	Upper
131	100		
133	93.3	0.0	187.8
119	64.6	0.0	131.4

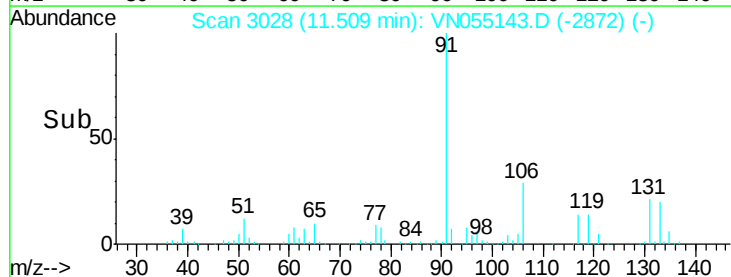
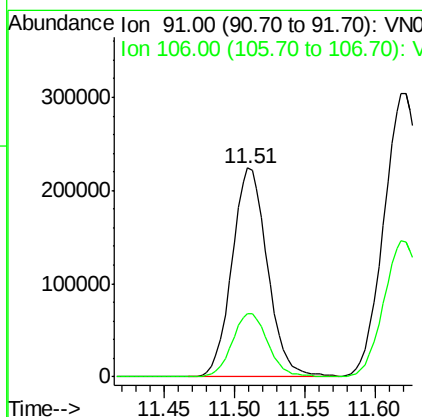
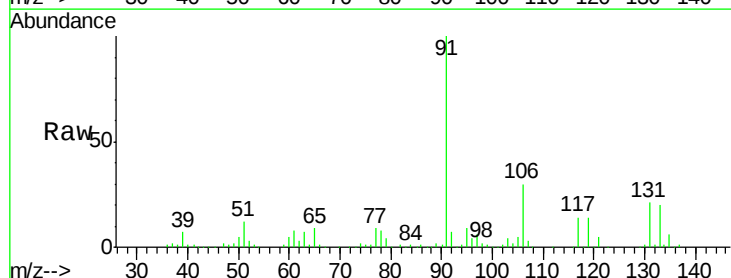
Manual Integrations
APPROVED

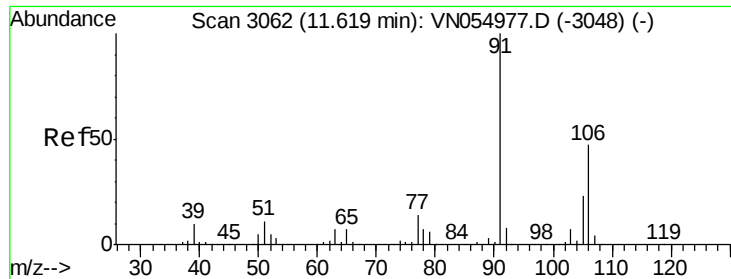
MMDadoda
4/22/2019 10:07:17 AM



#66
Ethyl Benzene
Concen: 20.155 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. 0.00 min
Lab File: VN055143.D
Acq: 19 Apr 2019 15:39

Tgt Ion	Ratio	Lower	Upper
91	100		
106	30.2	24.6	36.8





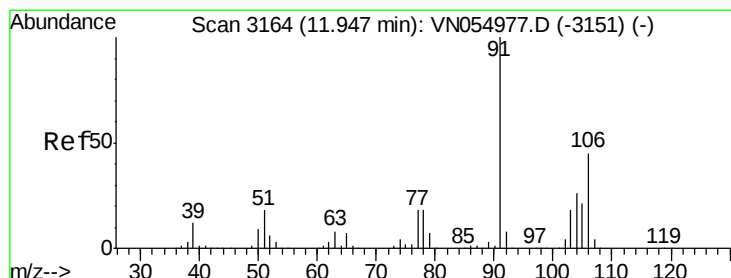
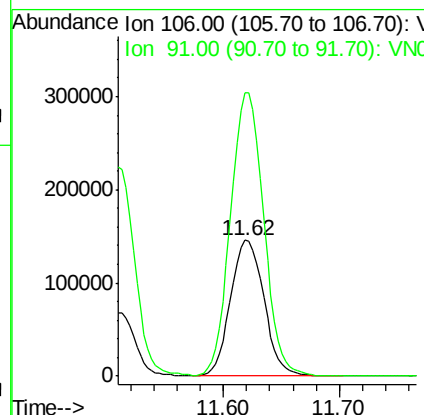
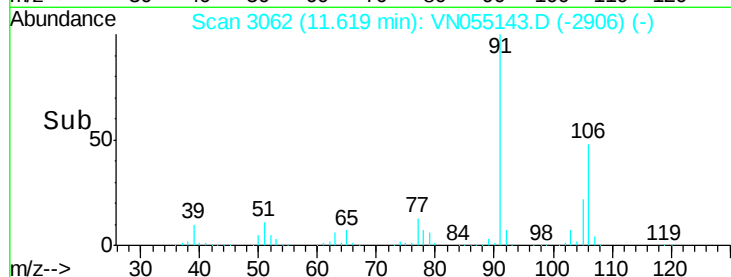
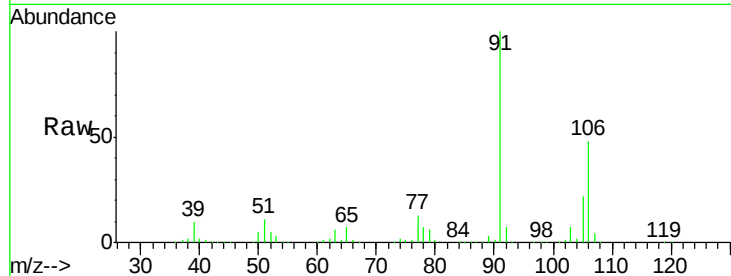
#67
m/p-Xylenes
Concen: 39.972 ug/l
RT: 11.62 min Scan# 3062
Delta R.T. 0.00 min
Lab File: VN055143.D
Acq: 19 Apr 2019 15:39

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tot Ion:106 Resp: 291705
Ion Ratio Lower Upper
106 100
91 206.7 167.4 251.2

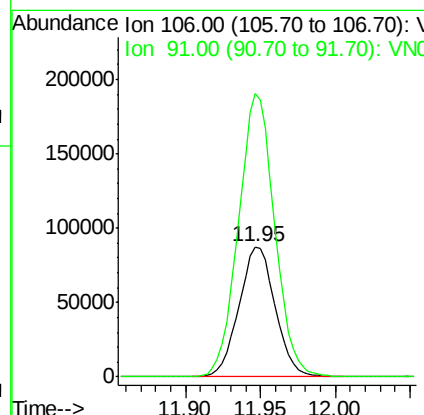
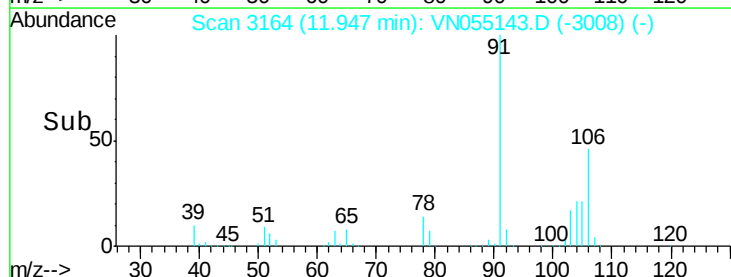
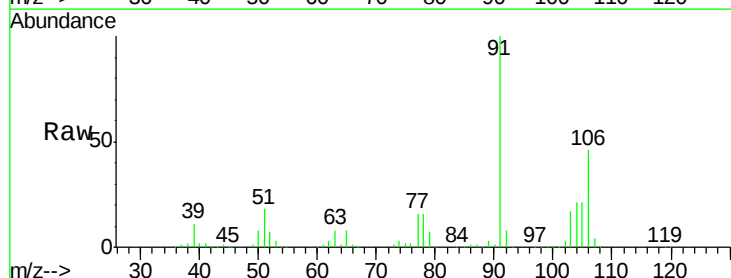
Manual Integrations
APPROVED

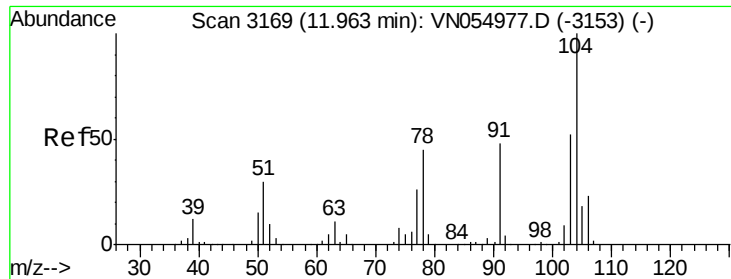
MMDadoda
4/22/2019 10:07:17 AM



#68
o-Xylene
Concen: 20.459 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. 0.00 min
Lab File: VN055143.D
Acq: 19 Apr 2019 15:39

Tgt Ion:106 Resp: 147550
Ion Ratio Lower Upper
106 100
91 217.3 110.3 330.8





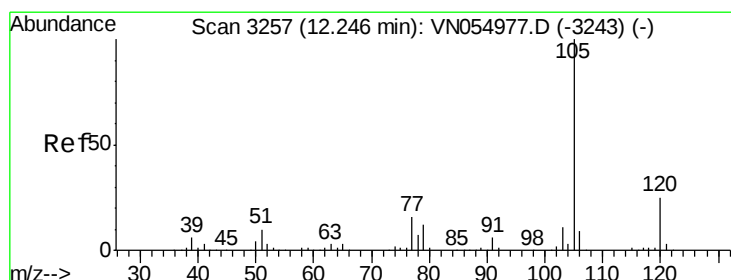
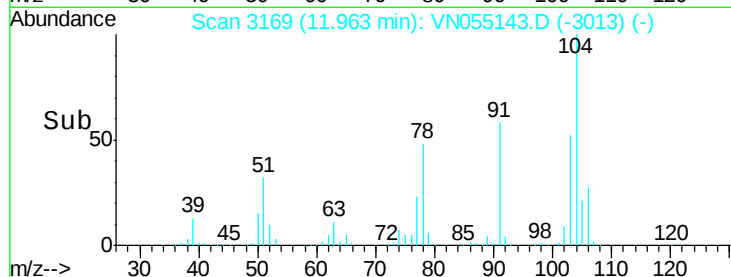
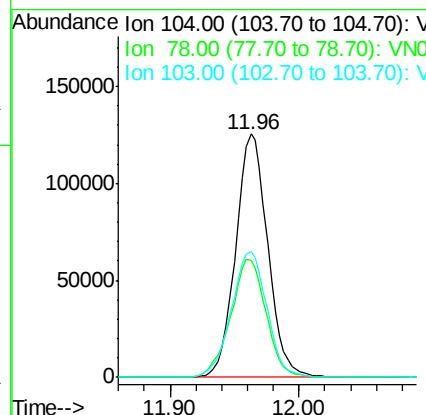
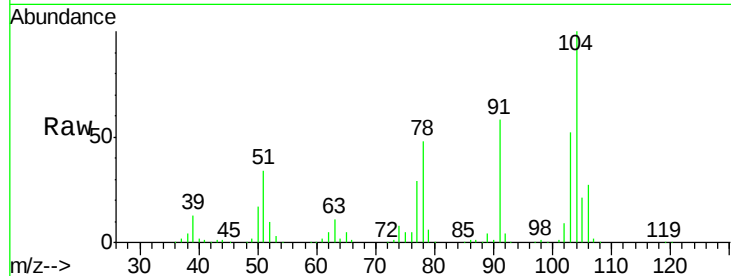
#69
Stvrene
Concen: 19.356 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. 0.00 min
Lab File: VN055143.D
Acq: 19 Apr 2019 15:39

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tot Ion	Ratio	Lower	Upper
104	100		
78	53.5	41.2	61.8
103	57.2	44.6	67.0

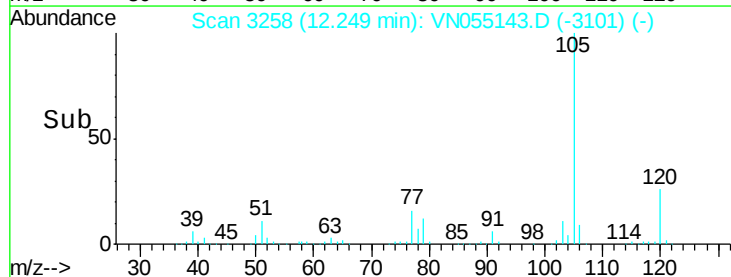
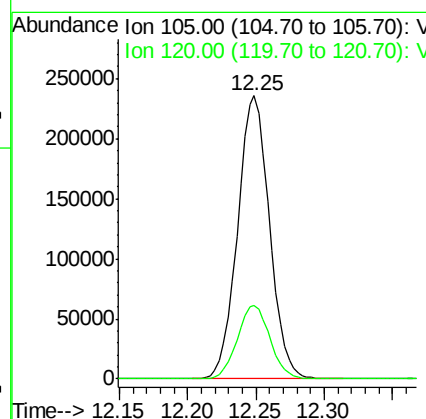
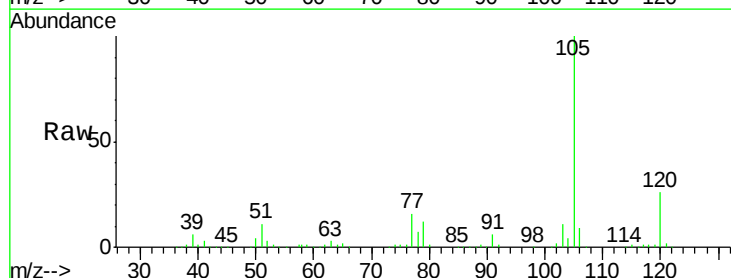
Manual Integrations
APPROVED

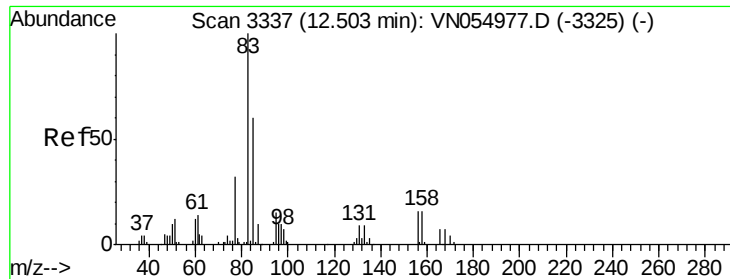
MMDadoda
4/22/2019 10:07:17 AM



#70
Isopropylbenzene
Concen: 19.837 ug/l
RT: 12.25 min Scan# 3258
Delta R.T. 0.00 min
Lab File: VN055143.D
Acq: 19 Apr 2019 15:39

Tgt Ion	Ratio	Lower	Upper
105	100		
120	26.5	18.3	33.9





#71

1,1,2,2-Tetrachloroethane

Concen: 24.506 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. 0.00 min

Lab File: VN055143.D

Acq: 19 Apr 2019 15:39

Instrument :

MSVOA_N

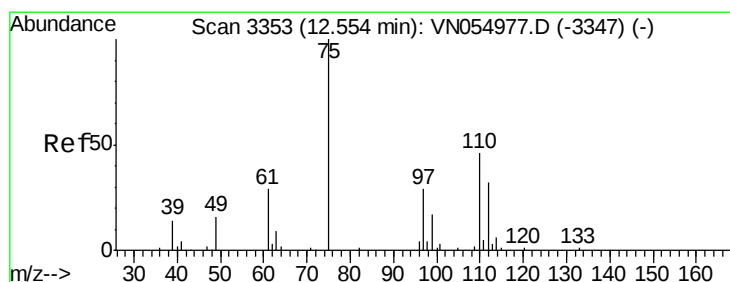
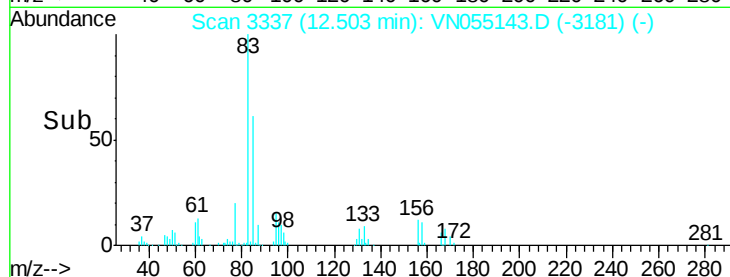
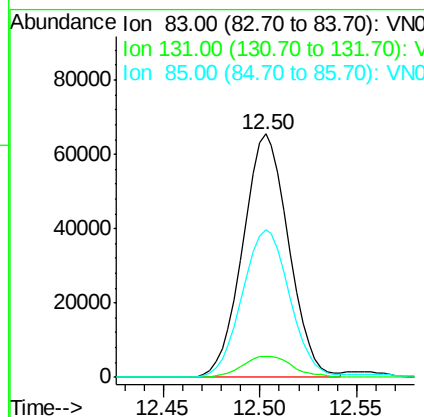
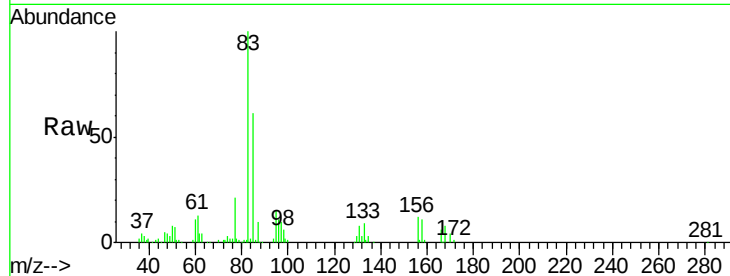
ClientSampleId :

VSTDCCC020EC

Tot Ion:	83	Resp:	108077
Ion Ratio	Lower	Upper	
83	100		
131	9.4	4.6	13.8
85	62.7	30.9	92.5

Manual Integrations
APPROVED

MMDadoda
4/22/2019 10:07:17 AM



#72

1,2,3-Trichloropropane

Concen: 26.278 ug/l m

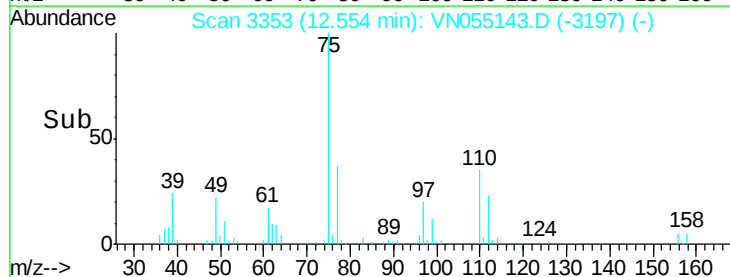
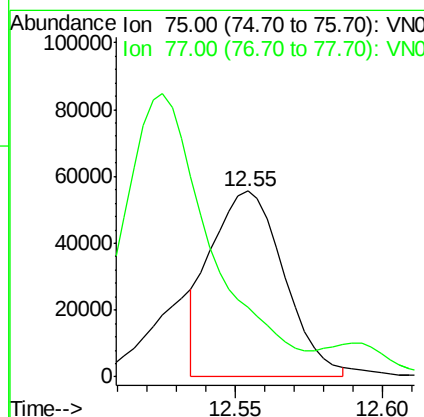
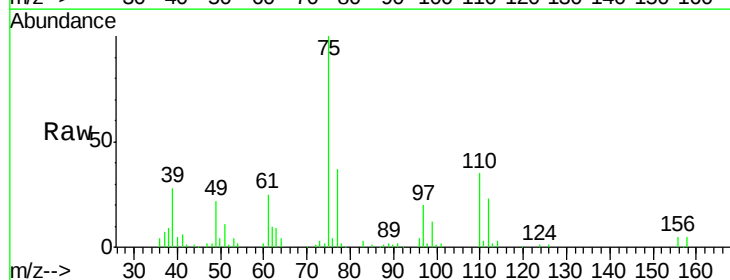
RT: 12.55 min Scan# 3353

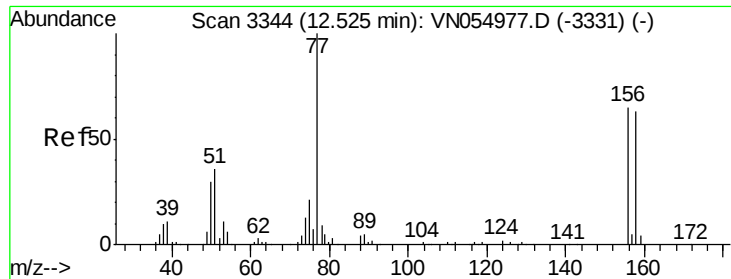
Delta R.T. 0.00 min

Lab File: VN055143.D

Acq: 19 Apr 2019 15:39

Tgt Ion:	75	Resp:	95709
Ion Ratio	Lower	Upper	
75	100		
77	183.6	0.0	466.6





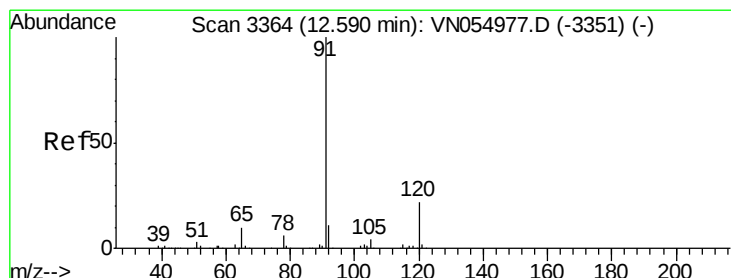
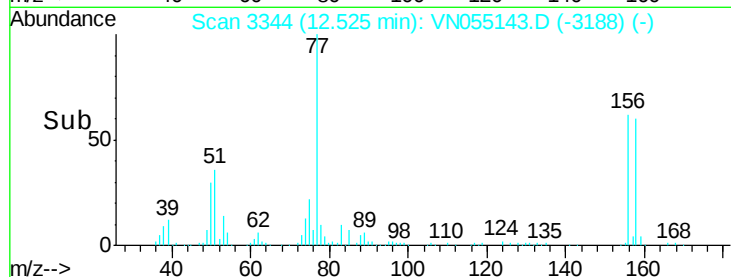
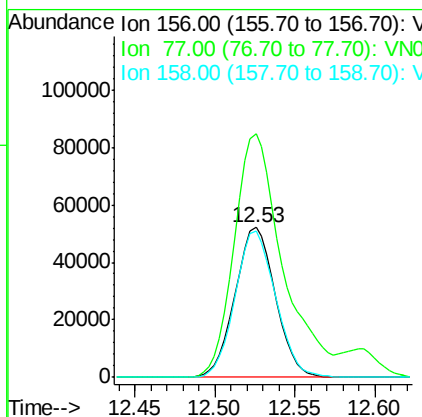
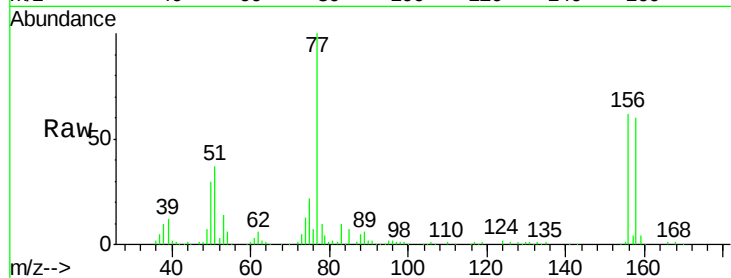
#73
Bromobenzene
Concen: 19.643 ug/l
RT: 12.53 min Scan# 3344
Delta R.T. 0.00 min
Lab File: VN055143.D
Acq: 19 Apr 2019 15:39

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tot Ion	Ratio	Lower	Upper
156	100		
77	196.3	0.0	383.2
158	98.3	0.0	193.8

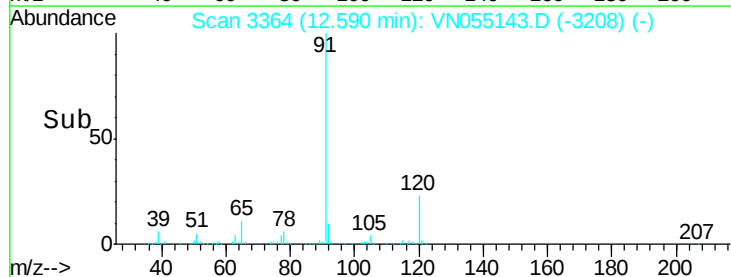
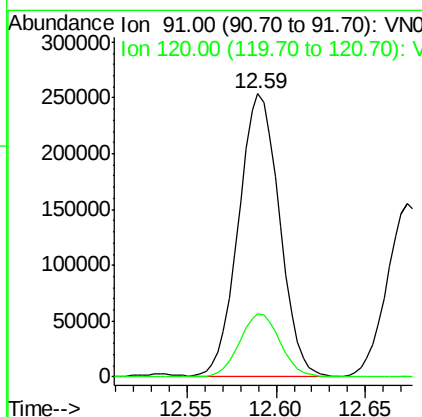
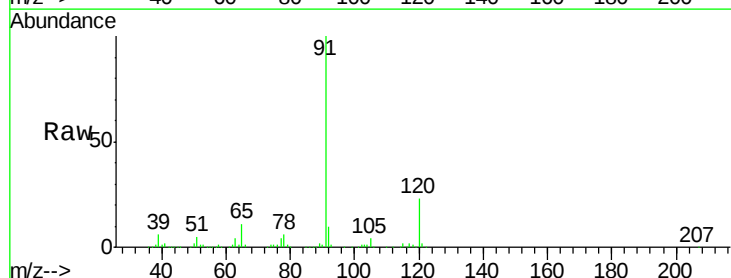
Manual Integrations
APPROVED

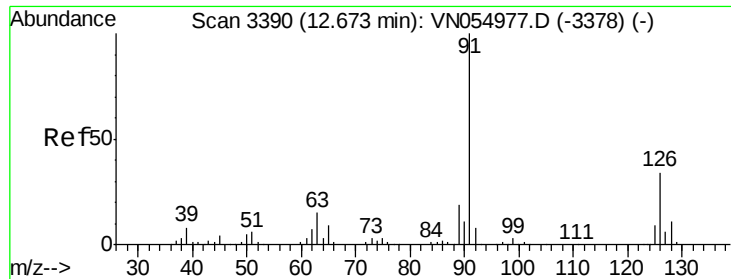
MMDadoda
4/22/2019 10:07:17 AM



#74
n-propylbenzene
Concen: 18.853 ug/l
RT: 12.59 min Scan# 3364
Delta R.T. 0.00 min
Lab File: VN055143.D
Acq: 19 Apr 2019 15:39

Tgt Ion	Ratio	Lower	Upper
91	100		
120	22.1	0.0	44.4





#75

2-Chlorotoluene

Concen: 19.910 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. 0.00 min

Lab File: VN055143.D

Acq: 19 Apr 2019 15:39

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020EC

Tot Ion: 91 Resp: 259210

Ion Ratio Lower Upper

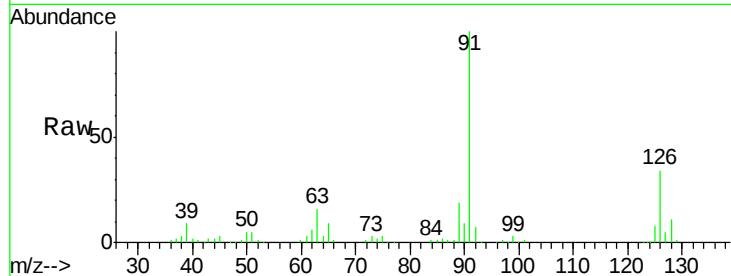
91 100

126 33.8 0.0 67.4

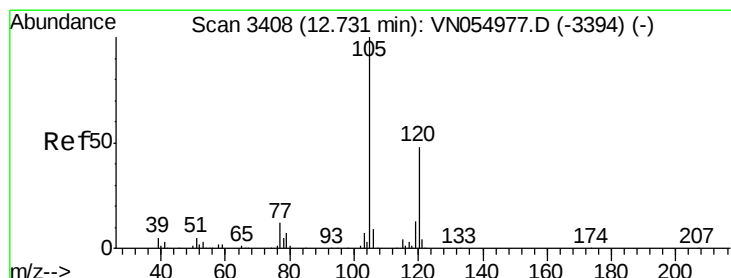
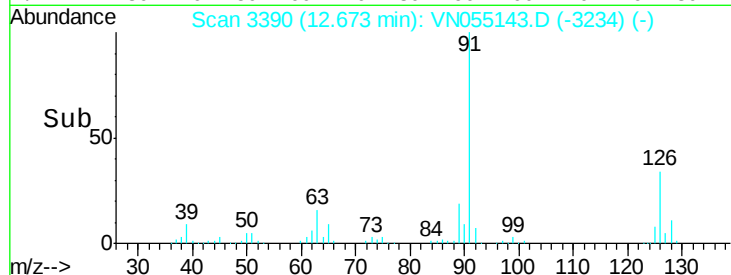
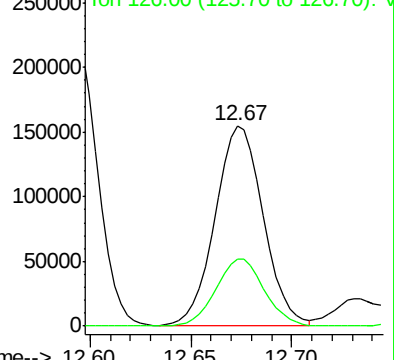
Manual Integrations
APPROVED

MMDadoda

4/22/2019 10:07:17 AM



Abundance Ion 91.00 (90.70 to 91.70): VN055143.D (-3234) (-)



#76

1,3,5-Trimethylbenzene

Concen: 19.346 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN055143.D

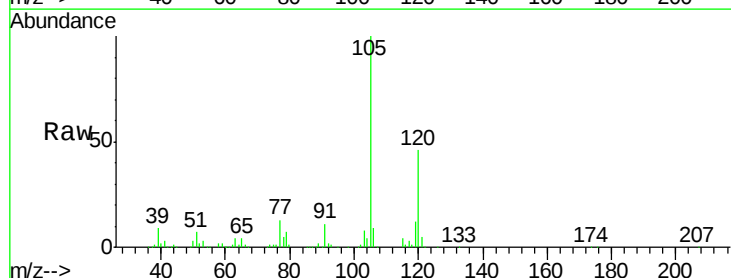
Acq: 19 Apr 2019 15:39

Tgt Ion: 105 Resp: 301577

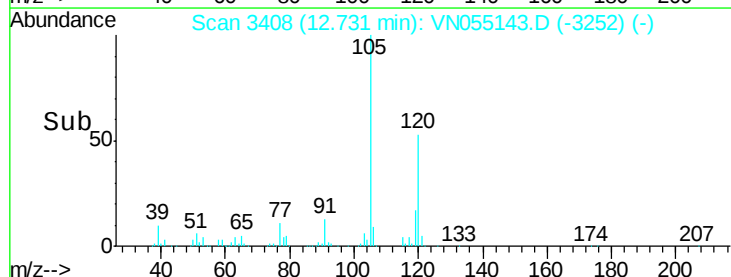
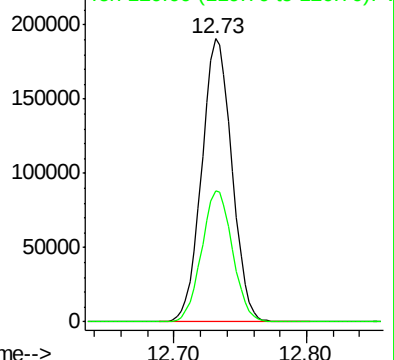
Ion Ratio Lower Upper

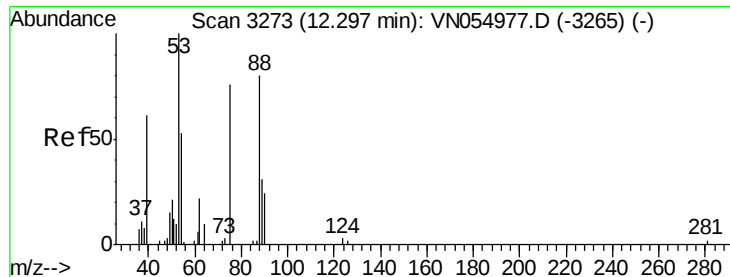
105 100

120 47.3 0.0 94.8



Abundance Ion 105.00 (104.70 to 105.70): VN055143.D (-3252) (-)





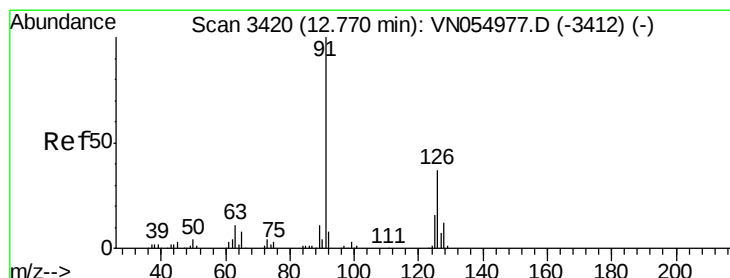
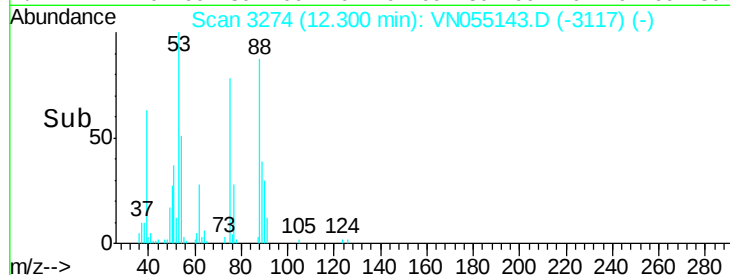
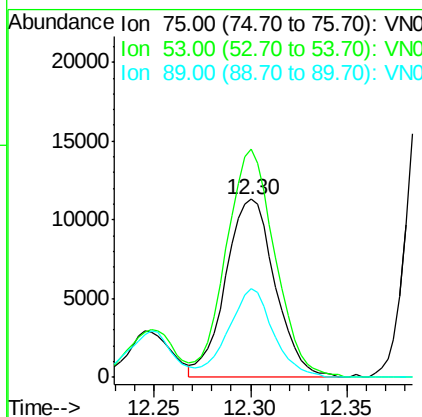
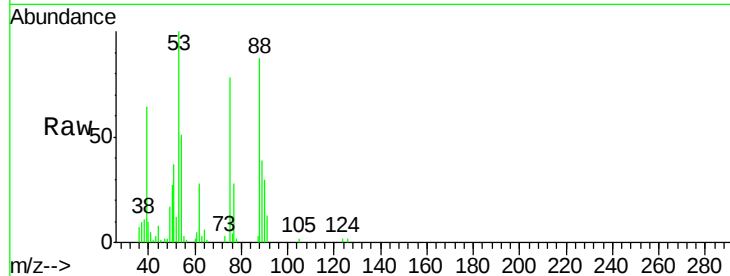
#77
t-1,4-Dichloro-2-butene
Concen: 21.919 ug/l
RT: 12.30 min Scan# 3274
Delta R.T. 0.00 min
Lab File: VN055143.D
Acq: 19 Apr 2019 15:39

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tot Ion	Ratio	Lower	Upper
75	100		
53	127.0	64.3	192.7
89	49.8	21.6	65.0

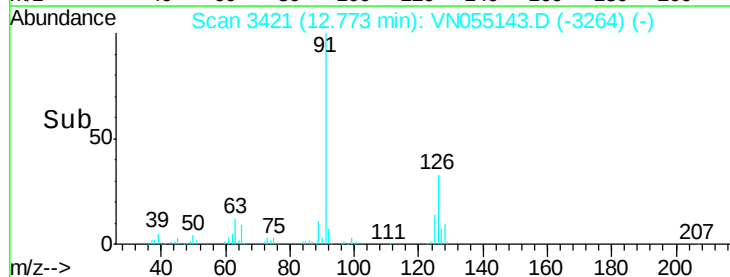
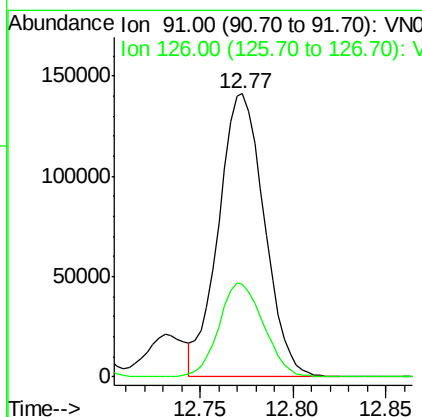
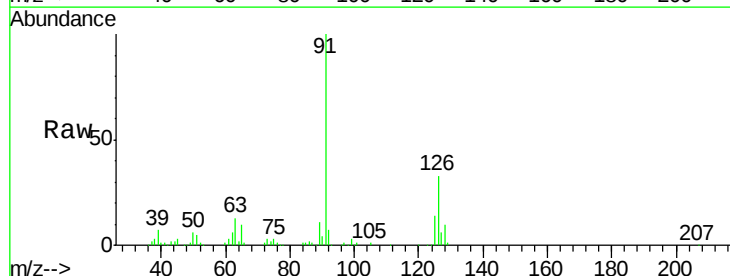
Manual Integrations
APPROVED

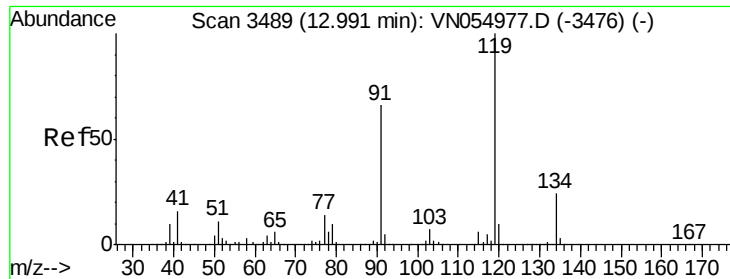
MMDadoda
4/22/2019 10:07:17 AM



#78
4-Chlorotoluene
Concen: 19.508 ug/l
RT: 12.77 min Scan# 3421
Delta R.T. 0.00 min
Lab File: VN055143.D
Acq: 19 Apr 2019 15:39

Tgt Ion	Ratio	Lower	Upper
91	100		
126	32.4	0.0	66.6





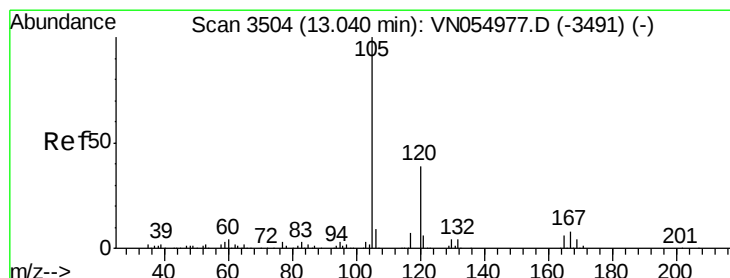
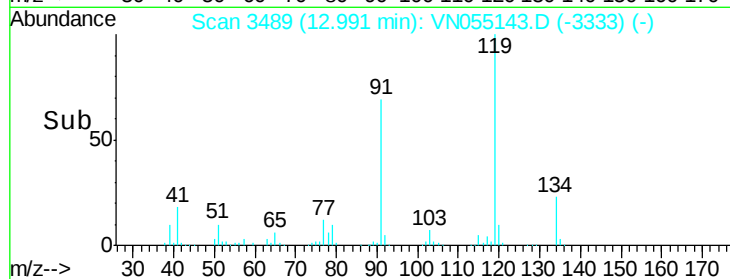
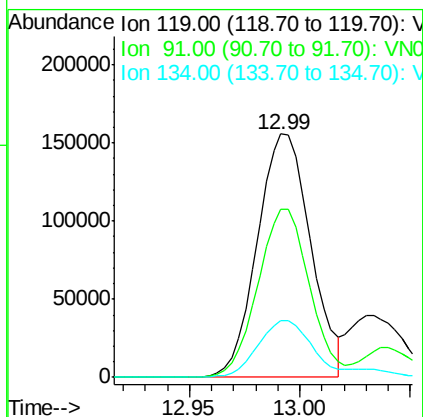
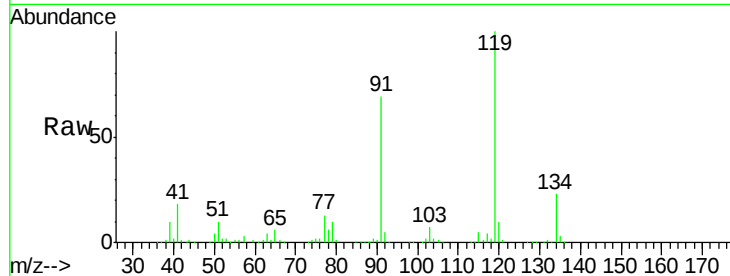
#79
tert-butylbenzene
Concen: 19.331 ug/l
RT: 12.99 min Scan# 3489
Delta R.T. 0.00 min
Lab File: VN055143.D
Acq: 19 Apr 2019 15:39

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tot Ion	Ratio	Resp	Lower	Upper
119	100	260742		
91	67.0		0.0	132.6
134	23.7		0.0	47.6

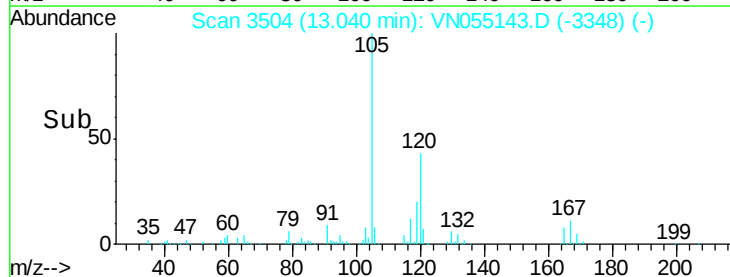
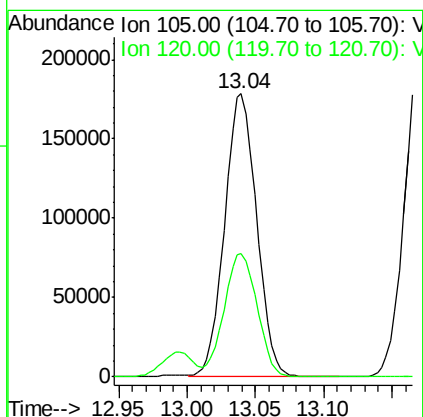
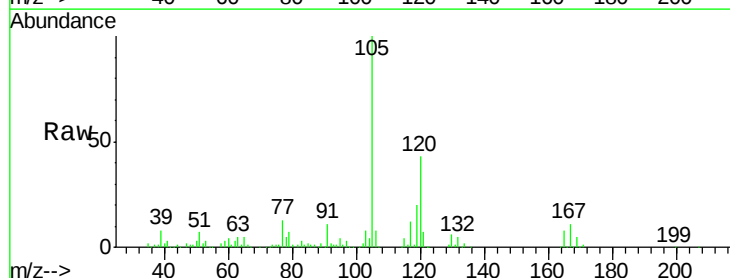
Manual Integrations
APPROVED

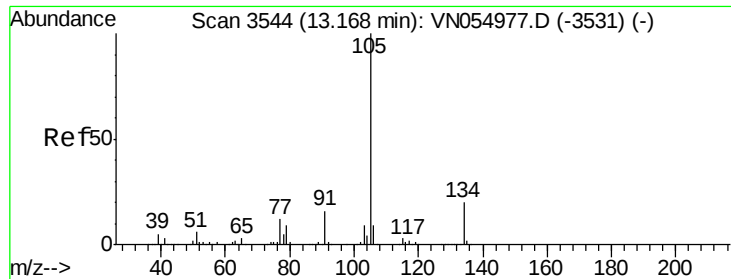
MMDadoda
4/22/2019 10:07:17 AM



#80
1,2,4-Trimethylbenzene
Concen: 19.056 ug/l
RT: 13.04 min Scan# 3504
Delta R.T. 0.00 min
Lab File: VN055143.D
Acq: 19 Apr 2019 15:39

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	291825		
120	44.9		0.0	91.4





#81

sec-Butylbenzene

Concen: 18.641 ug/l

RT: 13.17 min Scan# 3545

Delta R.T. 0.00 min

Lab File: VN055143.D

Acq: 19 Apr 2019 15:39

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020EC

Tot Ion:105 Resp: 335973

Ion Ratio Lower Upper

105 100

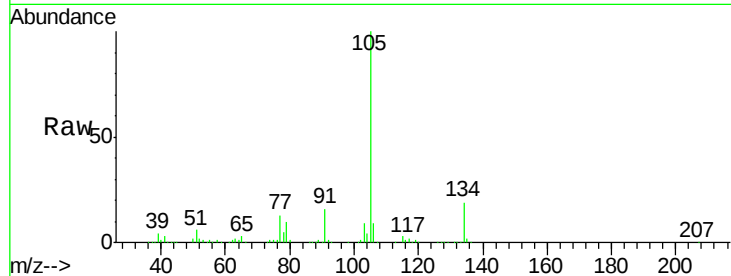
134 19.3 0.0 40.0

Manual Integrations

APPROVED

MMDadoda

4/22/2019 10:07:17 AM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

250000

200000

150000

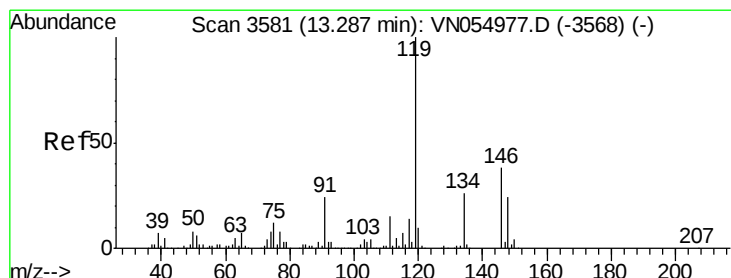
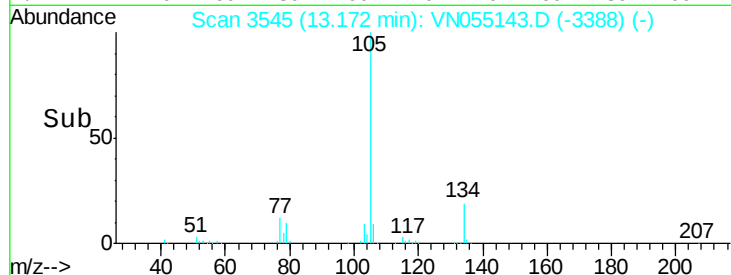
100000

50000

0

13.10 13.15 13.20 13.25

Time-->



#82

p-Isopropyltoluene

Concen: 17.646 ug/l

RT: 13.29 min Scan# 3581

Delta R.T. 0.00 min

Lab File: VN055143.D

Acq: 19 Apr 2019 15:39

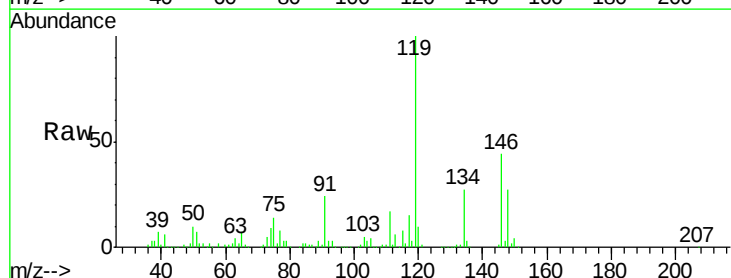
Tgt Ion:119 Resp: 268408

Ion Ratio Lower Upper

119 100

134 26.5 0.0 53.2

91 24.0 0.0 47.8



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V

200000

150000

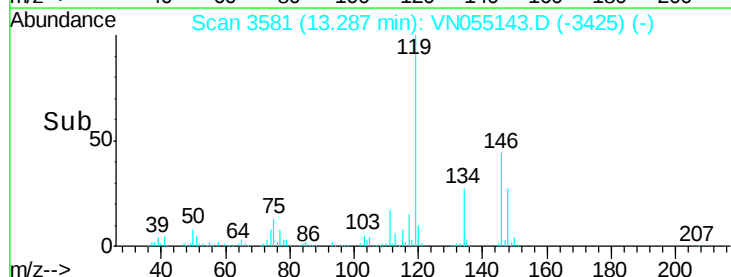
100000

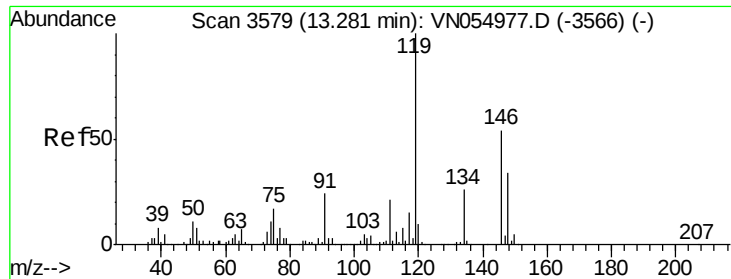
50000

0

13.25 13.30 13.35

Time-->





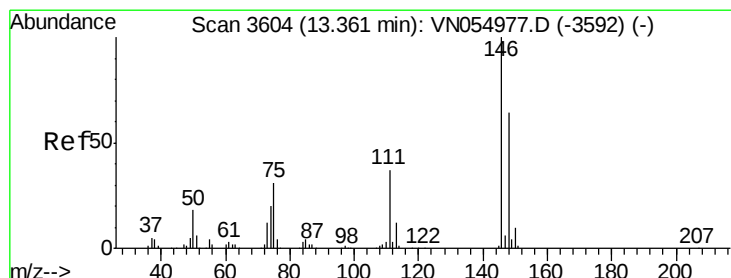
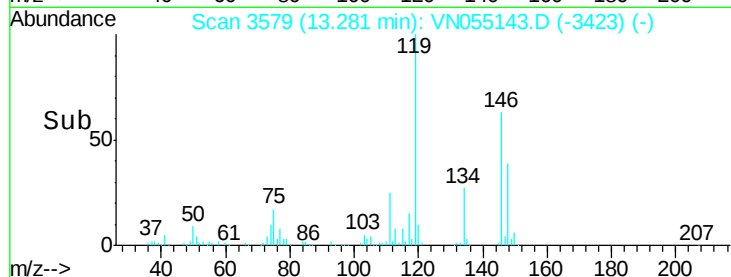
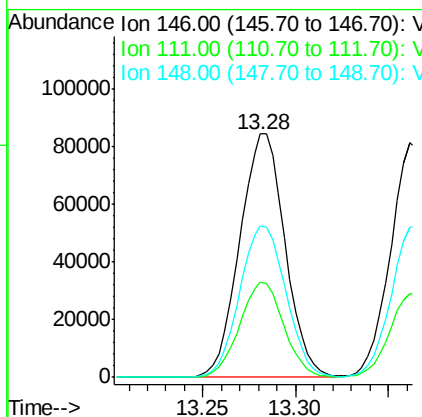
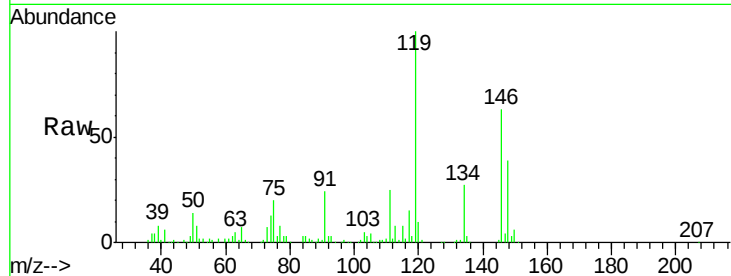
#83
 1,3-Dichlorobenzene
 Concen: 18.896 ug/l
 RT: 13.28 min Scan# 3579
 Delta R.T. 0.00 min
 Lab File: VN055143.D
 Acq: 19 Apr 2019 15:39

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.1	19.1	57.5
148	63.3	31.9	95.5

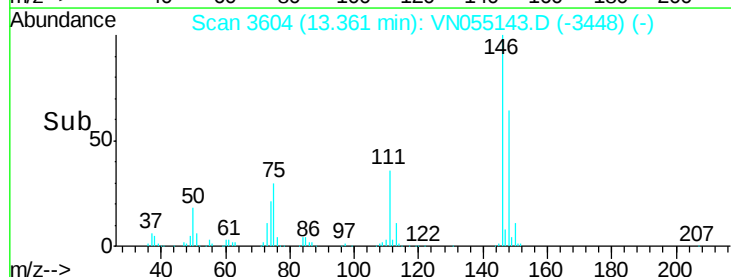
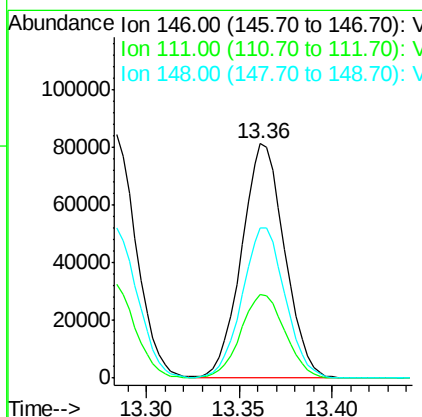
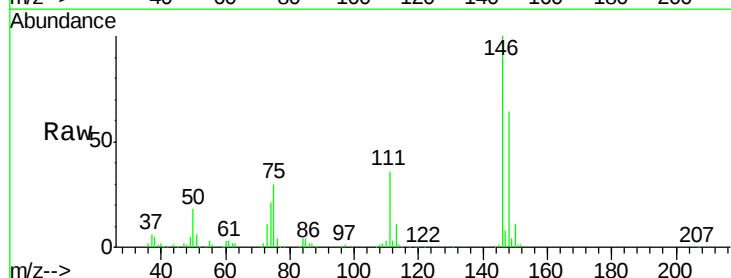
Manual Integrations
 APPROVED

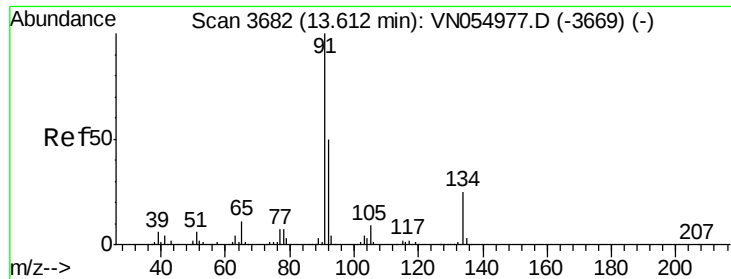
MMDadoda
 4/22/2019 10:07:17 AM



#84
 1,4-Dichlorobenzene
 Concen: 18.145 ug/l
 RT: 13.36 min Scan# 3604
 Delta R.T. 0.00 min
 Lab File: VN055143.D
 Acq: 19 Apr 2019 15:39

Tgt Ion	Ratio	Lower	Upper
146	100		
111	36.3	18.4	55.2
148	63.8	32.5	97.4





#85

n-Butylbenzene

Concen: 15.377 ug/l

RT: 13.61 min Scan# 3682

Delta R.T. 0.00 min

Lab File: VN055143.D

Acq: 19 Apr 2019 15:39

Instrument :

MSVOA_N

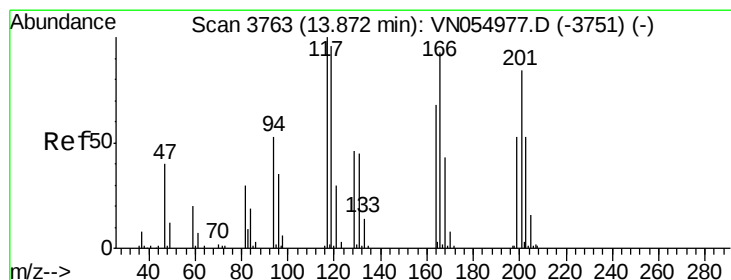
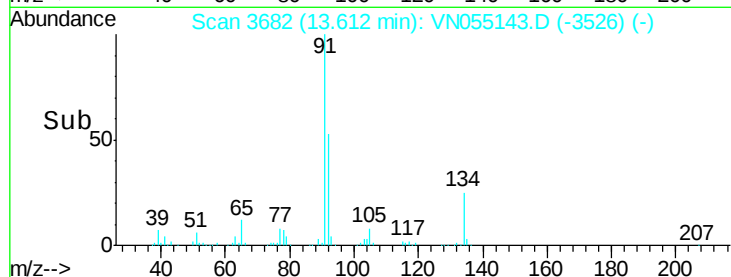
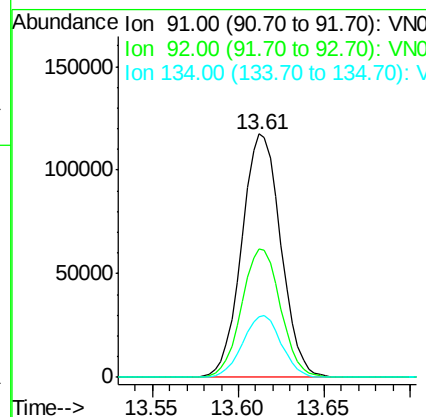
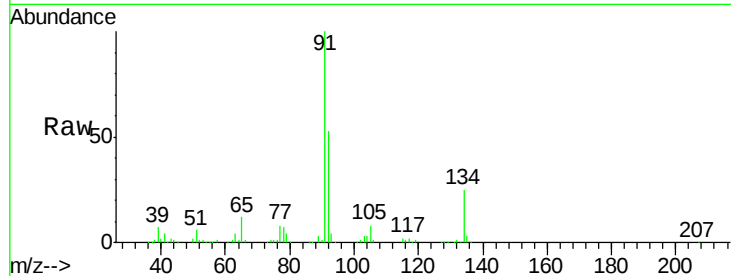
ClientSampleId :

VSTDCCC020EC

Tot Ion:	91	Resp:	186320
Ion Ratio	Lower	Upper	
91	100		
92	52.4	0.0	101.4
134	25.0	0.0	49.8

Manual Integrations
APPROVED

MMDadoda
4/22/2019 10:07:17 AM



#86

Hexachloroethane

Concen: 18.366 ug/l

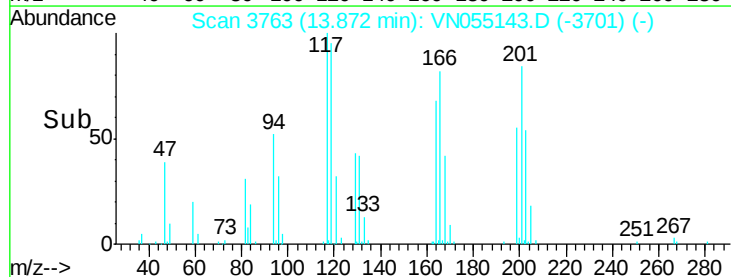
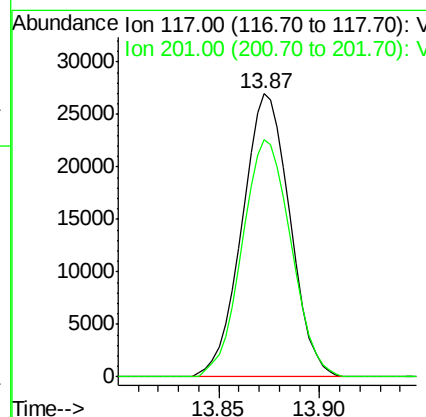
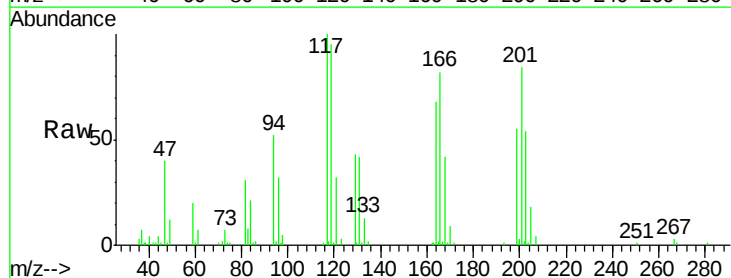
RT: 13.87 min Scan# 3763

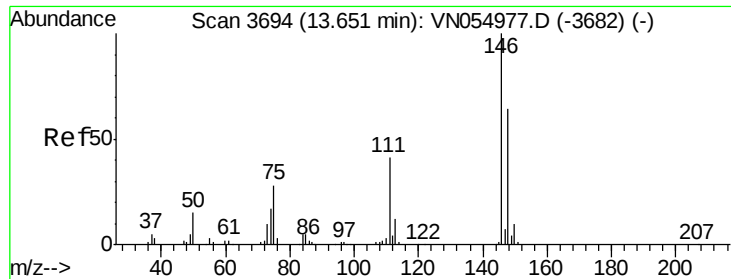
Delta R.T. 0.00 min

Lab File: VN055143.D

Acq: 19 Apr 2019 15:39

Tgt Ion:	117	Resp:	44720
Ion Ratio	Lower	Upper	
117	100		
201	85.9	42.8	128.3





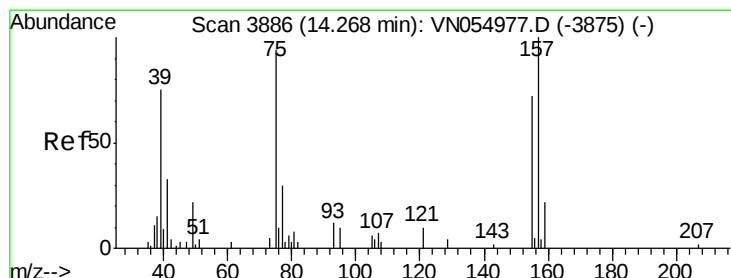
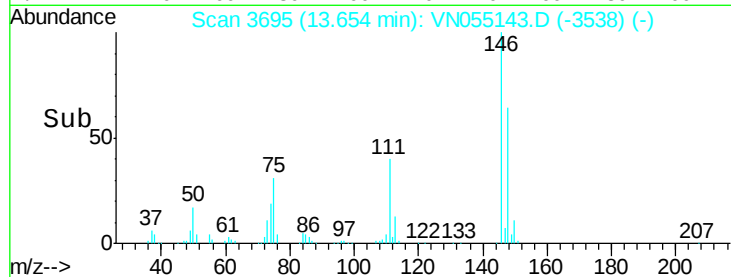
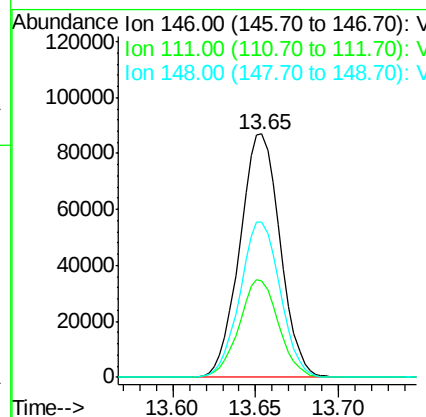
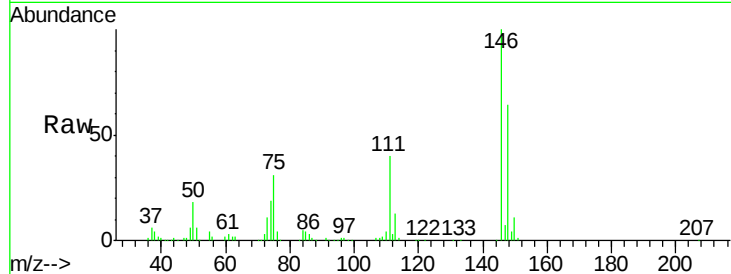
#87
 1,2-Dichlorobenzene
 Concen: 19.705 ug/l
 RT: 13.65 min Scan# 3695
 Delta R.T. 0.00 min
 Lab File: VN055143.D
 Acq: 19 Apr 2019 15:39

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Tot Ion	Ratio	Lower	Upper
146	100		
111	39.3	20.3	60.8
148	63.5	32.5	97.5

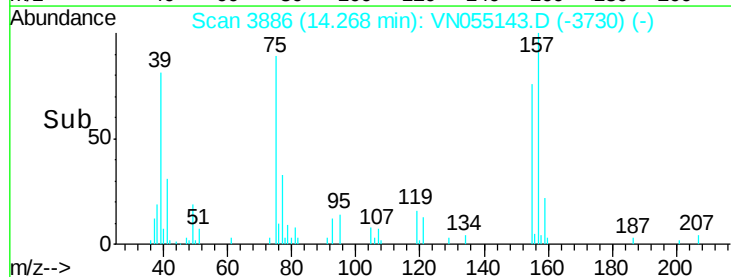
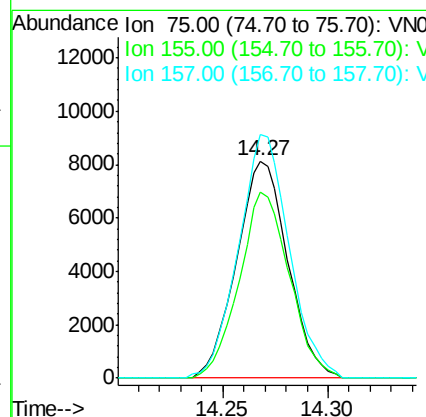
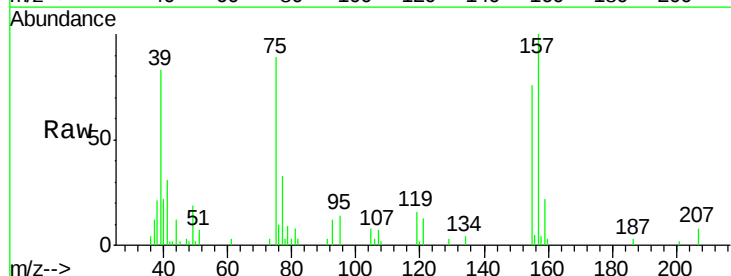
Manual Integrations
 APPROVED

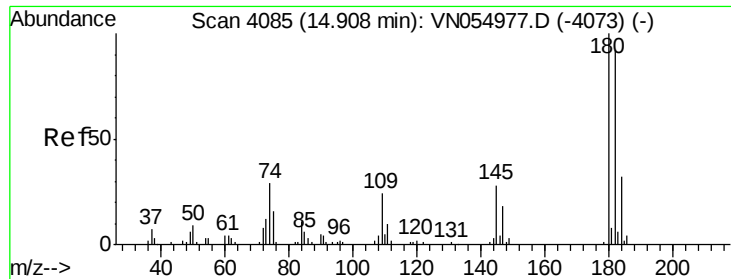
MMDadoda
 4/22/2019 10:07:17 AM



#88
 1,2-Dibromo-3-Chloropropane
 Concen: 23.407 ug/l
 RT: 14.27 min Scan# 3886
 Delta R.T. 0.00 min
 Lab File: VN055143.D
 Acq: 19 Apr 2019 15:39

Tgt Ion	Ratio	Lower	Upper
75	100		
155	83.9	61.8	92.8
157	110.9	82.7	124.1





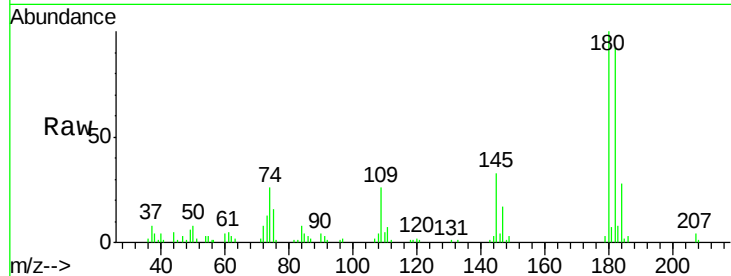
#89
 1,2,4-Trichlorobenzene
 Concen: 14.005 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. 0.00 min
 Lab File: VN055143.D
 Acq: 19 Apr 2019 15:39

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

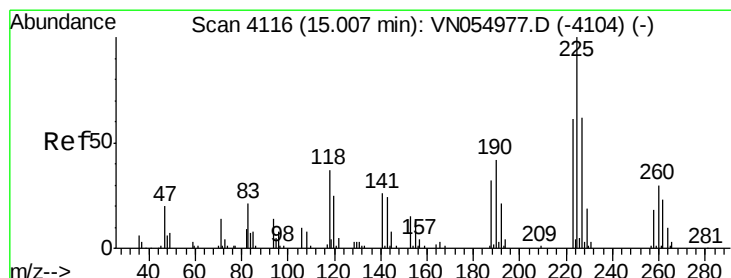
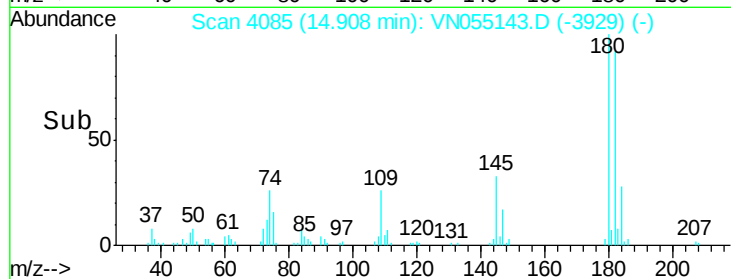
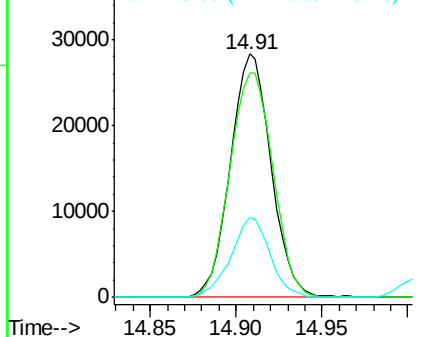
Tot Ion	Ratio	Lower	Upper
180	100		
182	98.0	73.2	109.8
145	31.6	23.2	34.8

Manual Integrations
 APPROVED

MMDadoda
 4/22/2019 10:07:17 AM

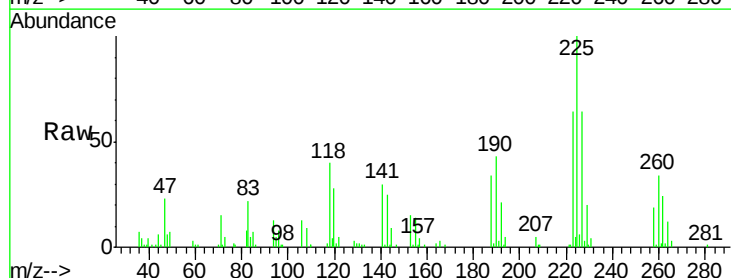


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 145.00 (144.70 to 145.70): V

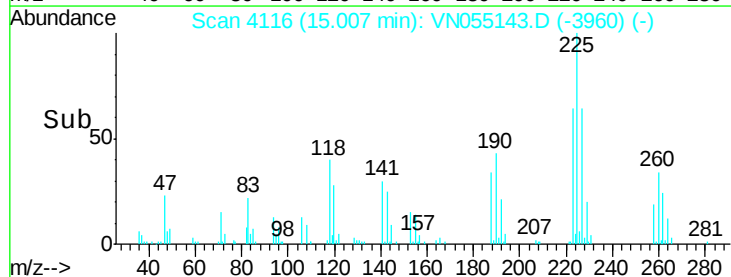
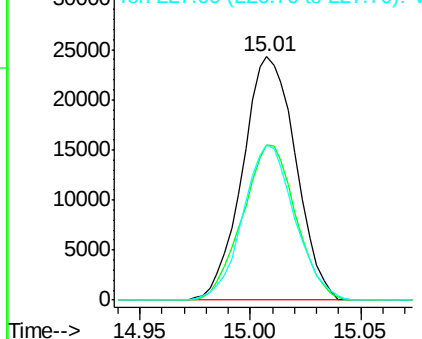


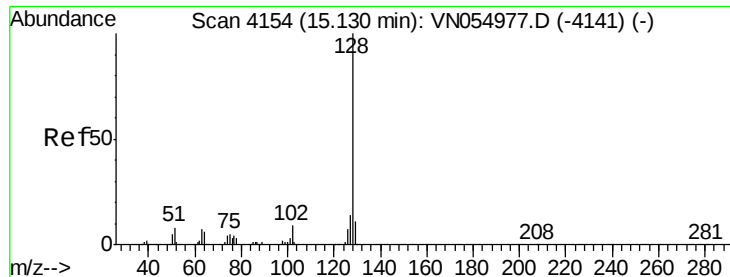
#90
 Hexachlorobutadiene
 Concen: 16.703 ug/l
 RT: 15.01 min Scan# 4116
 Delta R.T. 0.00 min
 Lab File: VN055143.D
 Acq: 19 Apr 2019 15:39

Tgt Ion	Ratio	Lower	Upper
225	100		
223	63.8	0.0	126.0
227	62.5	0.0	125.4



Abundance Ion 225.00 (224.70 to 225.70): V
 Ion 223.00 (222.70 to 223.70): V
 Ion 227.00 (226.70 to 227.70): V





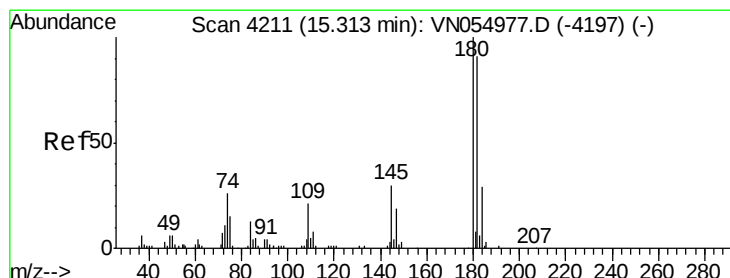
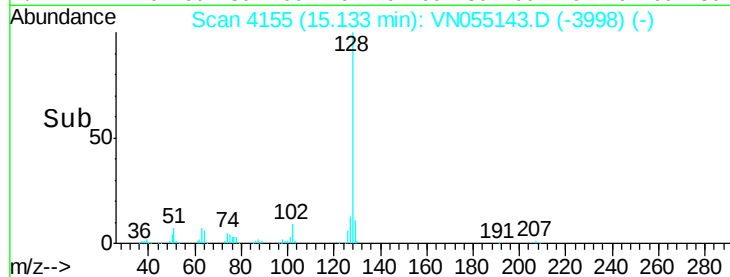
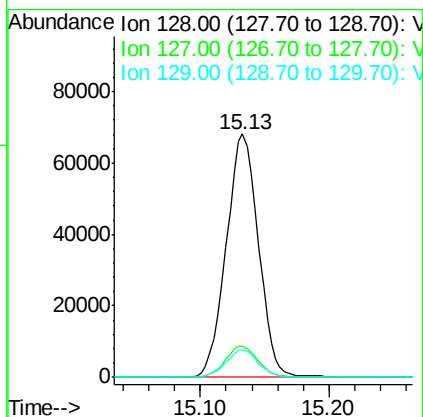
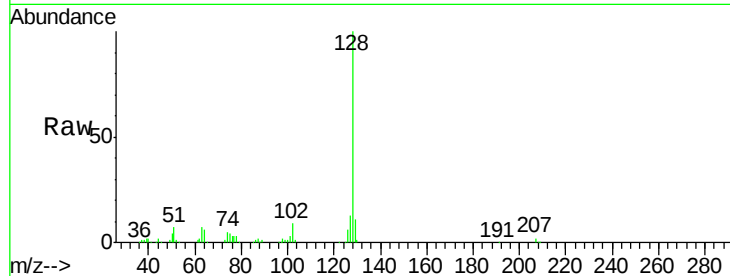
#91
Naphthalene
Concen: 16.890 ug/l
RT: 15.13 min Scan# 4155
Delta R.T. 0.00 min
Lab File: VN055143.D
Acq: 19 Apr 2019 15:39

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.0	10.6	15.8
129	11.3	9.0	13.6

Manual Integrations
APPROVED

MMDadoda
4/22/2019 10:07:17 AM



#92
1,2,3-Trichlorobenzene
Concen: 16.176 ug/l
RT: 15.31 min Scan# 4211
Delta R.T. 0.00 min
Lab File: VN055143.D
Acq: 19 Apr 2019 15:39

Tgt Ion	Ratio	Lower	Upper
180	100		
182	94.7	0.0	188.2
145	32.2	0.0	61.2

