

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN022619\
 Data File : VN053969.D
 Acq On : 26 Feb 2019 21:32
 Operator : JC/SP
 Sample : VSTDCCC050
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Manual Integrations
 APPROVED

MMDadoda
 2/28/2019 10:50:02 AM

Quant Time: Feb 27 03:38:00 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N022519W.M
 Quant Title : SW846 8260
 QLast Update : Tue Feb 26 05:37:40 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	642211	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	1069480	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	933859	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	430127	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	391249	51.97	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.94%	
35) Dibromofluoromethane	7.59	113	348013	50.32	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.64%	
50) Toluene-d8	10.09	98	1294170	50.27	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.54%	
62) 4-Bromofluorobenzene	12.40	95	433325	50.52	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.04%	

Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.85	85	298019	50.423 ug/l	99
3) Chloromethane	2.06	50	429292	52.364 ug/l	100
4) Vinyl Chloride	2.19	62	422527	51.438 ug/l	100
5) Bromomethane	2.57	94	253330	46.567 ug/l	100
6) Chloroethane	2.71	64	257688	50.442 ug/l	100
7) Trichlorofluoromethane	3.02	101	521906	49.734 ug/l	100
8) Diethyl Ether	3.41	74	201125	51.156 ug/l	89
9) 1,1,2-Trichlorotrifluoroet	3.76	101	326439	49.254 ug/l	95
10) Methyl Iodide	3.95	142	492920	56.601 ug/l	98
11) Tert butyl alcohol	4.78	59	121004	253.550 ug/l	100
12) 1,1-Dichloroethene	3.74	96	319309	50.367 ug/l	94
13) Acrolein	3.60	56	140486	284.324 ug/l	97
14) Allyl chloride	4.32	41	588163	52.896 ug/l	95
15) Acrylonitrile	4.98	53	664703	264.266 ug/l	98
16) Acetone	3.81	43	462200	231.014 ug/l	97
17) Carbon Disulfide	4.05	76	988491	48.333 ug/l	98
18) Methyl Acetate	4.32	43	281566	53.489 ug/l	94
19) Methyl tert-butyl Ether	5.04	73	924928	54.386 ug/l	98
20) Methylene Chloride	4.55	84	375997	50.464 ug/l	93
21) trans-1,2-Dichloroethene	5.04	96	347206	50.602 ug/l	92
22) Diisopropyl ether	5.95	45	1176404	54.841 ug/l	95
23) Vinyl Acetate	5.89	43	4281412	277.446 ug/l	96
24) 1,1-Dichloroethane	5.85	63	678045	51.544 ug/l	98
25) 2-Butanone	6.83	43	744746	251.950 ug/l	98
26) 2,2-Dichloropropane	6.82	77	444704	47.583 ug/l	99
27) cis-1,2-Dichloroethene	6.83	96	397271	52.061 ug/l	95
28) Bromochloromethane	7.19	49	328694	54.589 ug/l	# 81
29) Tetrahydrofuran	7.21	42	524602	266.506 ug/l	92
30) Chloroform	7.37	83	654412	51.304 ug/l	98
31) Cyclohexane	7.65	56	621682	51.655 ug/l	95
32) 1,1,1-Trichloroethane	7.57	97	541207	51.459 ug/l	97
36) 1,1-Dichloropropene	7.79	75	508135	51.090 ug/l	96
37) Ethyl Acetate	6.93	43	340435	47.938 ug/l	98
38) Carbon Tetrachloride	7.77	117	476313	46.048 ug/l	100

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN022619\
 Data File : VN053969.D
 Acq On : 26 Feb 2019 21:32
 Operator : JC/SP
 Sample : VSTDCCC050
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleID :
 VSTDCCC050EC

Manual Integrations
 APPROVED

MMDadoda
 2/28/2019 10:50:02 AM

Quant Time: Feb 27 03:38:00 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N022519W.M
 Quant Title : SW846 8260
 QLast Update : Tue Feb 26 05:37:40 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	573629	47.852	ug/l	96
40) Benzene	8.04	78	1523489	49.862	ug/l	100
41) Methacrylonitrile	7.18	41	203417m	44.484	ug/l	
42) 1,2-Dichloroethane	8.12	62	470891	49.781	ug/l	98
43) Isopropyl Acetate	8.16	43	602131	50.217	ug/l #	90
44) Trichloroethene	8.83	130	400943	49.498	ug/l	97
45) 1,2-Dichloropropane	9.12	63	413376	50.147	ug/l	99
46) Dibromomethane	9.21	93	233254	48.740	ug/l	94
47) Bromodichloromethane	9.40	83	501267	49.702	ug/l	99
48) Methyl methacrylate	9.20	41	292092	52.960	ug/l	94
49) 1,4-Dioxane	9.20	88	72340	968.391	ug/l #	92
51) 4-Methyl-2-Pentanone	9.99	43	1638608	265.940	ug/l	96
52) Toluene	10.16	92	898328	49.932	ug/l	97
53) t-1,3-Dichloropropene	10.38	75	506160	51.580	ug/l	98
54) cis-1,3-Dichloropropene	9.84	75	593577	51.310	ug/l	94
55) 1,1,2-Trichloroethane	10.56	97	332617	49.504	ug/l	99
56) Ethyl methacrylate	10.43	69	425755	48.392	ug/l	90
57) 1,3-Dichloropropane	10.71	76	575106	50.659	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.69	63	943358	231.083	ug/l	95
59) 2-Hexanone	10.75	43	1043966	260.511	ug/l	93
60) Dibromochloromethane	10.90	129	363414	48.668	ug/l	99
61) 1,2-Dibromoethane	11.00	107	324123	50.008	ug/l	98
64) Tetrachloroethene	10.63	164	377959	47.796	ug/l	98
65) Chlorobenzene	11.43	112	962103	48.816	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.51	131	354425	49.897	ug/l	100
67) Ethyl Benzene	11.51	91	1677066	50.758	ug/l	99
68) m/p-Xylenes	11.62	106	1267576	101.648	ug/l	97
69) o-Xylene	11.95	106	613852	50.098	ug/l	97
70) Styrene	11.96	104	996136	52.856	ug/l	98
71) Bromoform	12.13	173	243610	49.298	ug/l #	100
73) Isopropylbenzene	12.25	105	1624292	48.512	ug/l	99
74) N-amyl acetate	12.07	43	470649	53.631	ug/l	95
75) 1,1,2,2-Tetrachloroethane	12.50	83	395857	47.279	ug/l	99
76) 1,2,3-Trichloropropane	12.55	75	332316m	48.162	ug/l	
77) Bromobenzene	12.53	156	406705	47.842	ug/l	90
78) n-propylbenzene	12.59	91	1893269	49.720	ug/l	98
79) 2-Chlorotoluene	12.67	91	1121461	49.027	ug/l	96
80) 1,3,5-Trimethylbenzene	12.73	105	1372457	50.070	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.30	75	105811	48.468	ug/l	94
82) 4-Chlorotoluene	12.77	91	1125844	49.799	ug/l	96
83) tert-Butylbenzene	12.99	119	1192948	49.207	ug/l	97
84) 1,2,4-Trimethylbenzene	13.04	105	1384727	50.601	ug/l	99
85) sec-Butylbenzene	13.17	105	1622132	48.989	ug/l	98
86) p-Isopropyltoluene	13.29	119	1408568	50.320	ug/l	99
87) 1,3-Dichlorobenzene	13.28	146	717373	48.782	ug/l	99
88) 1,4-Dichlorobenzene	13.36	146	698140	48.933	ug/l	99
89) n-Butylbenzene	13.62	91	1198990	50.824	ug/l	99
90) Hexachloroethane	13.87	117	249701	46.033	ug/l	92
91) 1,2-Dichlorobenzene	13.65	146	700373	49.199	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.27	75	57281	48.411	ug/l	92

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN022619\
Data File : VN053969.D
Acq On : 26 Feb 2019 21:32
Operator : JC/SP
Sample : VSTDCCC050
Misc : 5.00mL/MSVOA_N/WATER
ALS Vial : 25 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

MMDadoda
2/28/2019 10:50:02 AM

Quant Time: Feb 27 03:38:00 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N022519W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 26 05:37:40 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	367904	46.689	ug/l	98
94) Hexachlorobutadiene	15.01	225	236976	46.084	ug/l	99
95) Naphthalene	15.13	128	762029	45.082	ug/l	100
96) 1,2,3-Trichlorobenzene	15.31	180	358218	47.323	ug/l	99

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

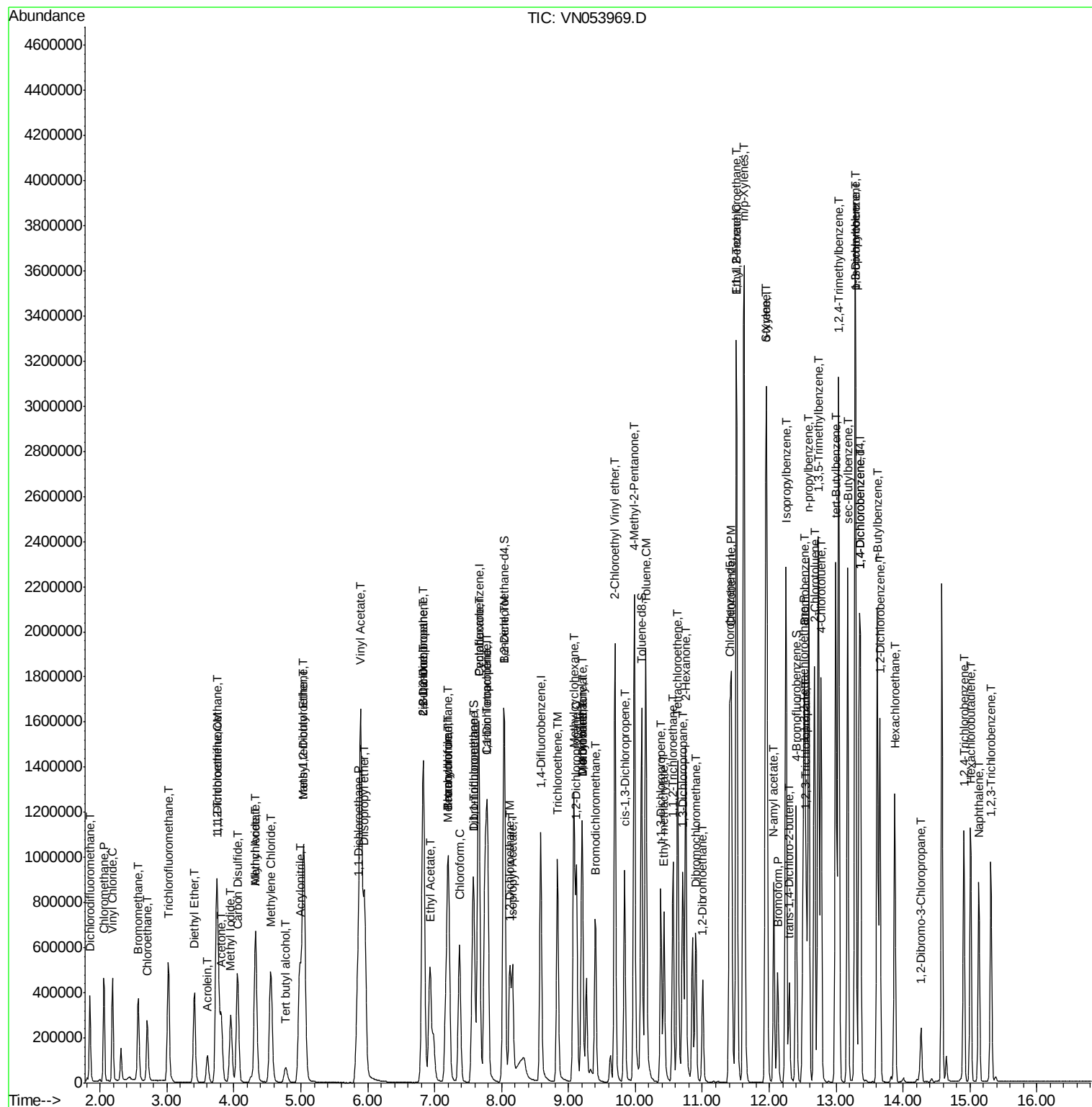
Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN022619\
 Data File : VN053969.D
 Acq On : 26 Feb 2019 21:32
 Operator : JC/SP
 Sample : VSTDCCC050
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 25 Sample Multiplier: 1

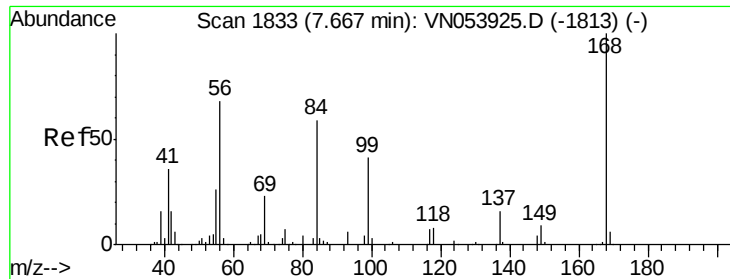
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Manual Integrations
 APPROVED

MMDadoda
 2/28/2019 10:50:02 AM

Quant Time: Feb 27 03:38:00 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N022519W.M
 Quant Title : SW846 8260
 QLast Update : Tue Feb 26 05:37:40 2019
 Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.00 min

Lab File: VN053969.D

Acq: 26 Feb 2019 21:32

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 168 Resp: 642211

Ion Ratio Lower Upper

168 100

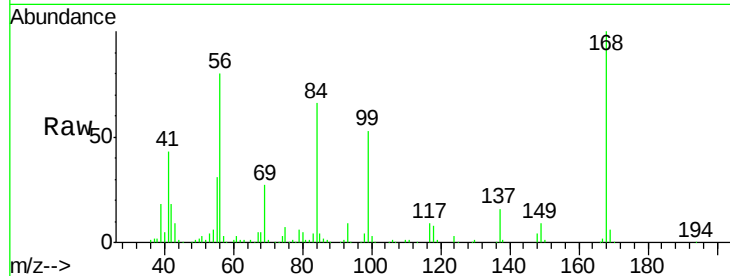
99 51.5 36.9 55.3

Manual Integrations

APPROVED

MMDadoda

2/28/2019 10:50:02 AM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.66

250000

200000

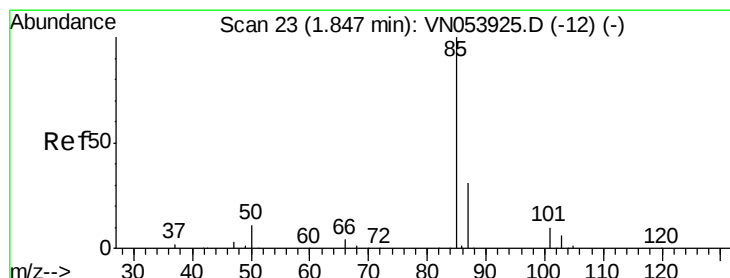
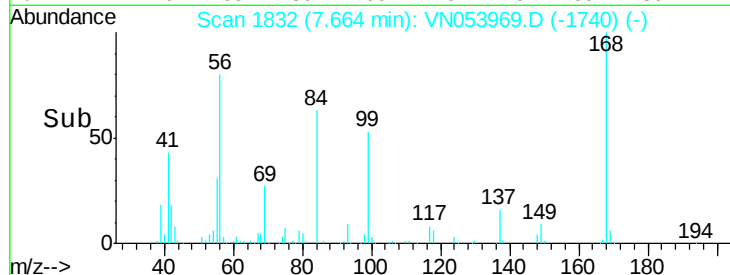
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 50.423 ug/l

RT: 1.85 min Scan# 23

Delta R.T. 0.00 min

Lab File: VN053969.D

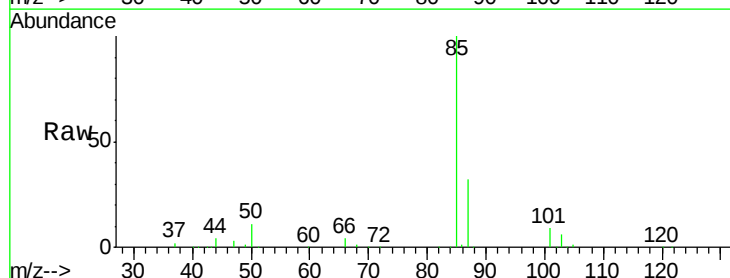
Acq: 26 Feb 2019 21:32

Tgt Ion: 85 Resp: 298019

Ion Ratio Lower Upper

85 100

87 32.2 16.4 49.1



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO

1.85

250000

200000

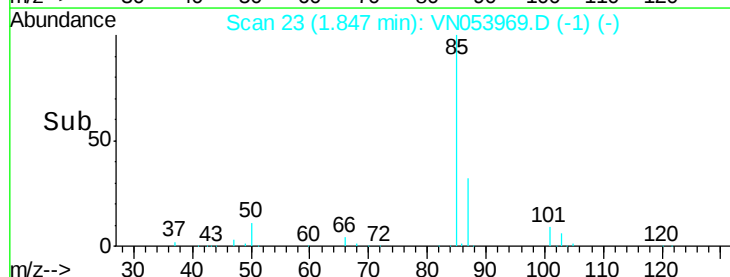
150000

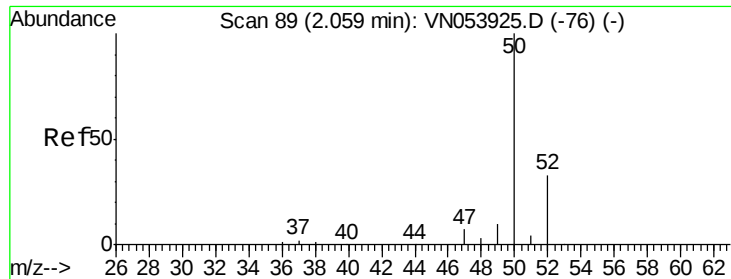
100000

50000

0

Time-->





#3

Chloromethane

Concen: 52.364 ug/l

RT: 2.06 min Scan# 88

Delta R.T. -0.00 min

Lab File: VN053969.D

Acq: 26 Feb 2019 21:32

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 50 Resp: 429292

Ion Ratio Lower Upper

50 100

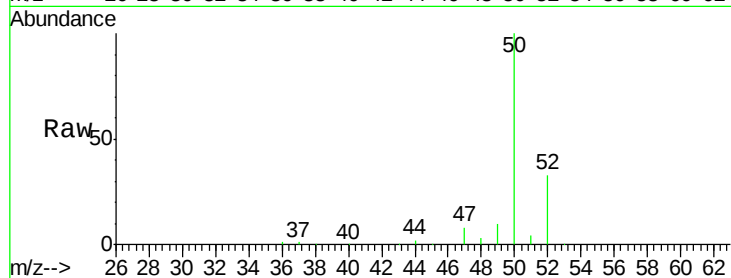
52 32.7 26.0 39.0

Manual Integrations

APPROVED

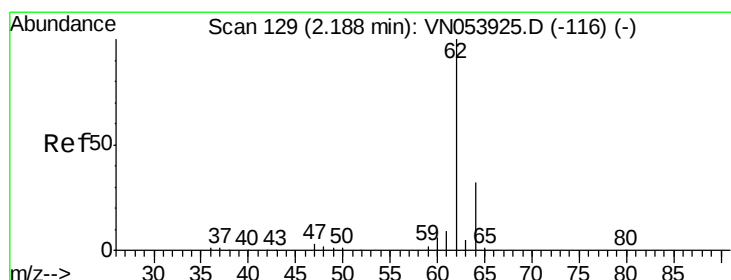
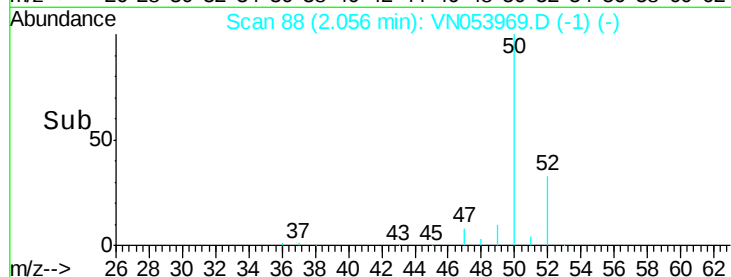
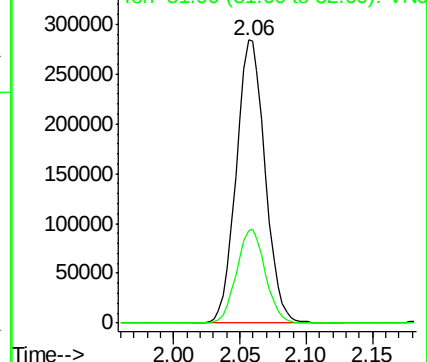
MMDadoda

2/28/2019 10:50:02 AM



Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO



#4

Vinyl Chloride

Concen: 51.438 ug/l

RT: 2.19 min Scan# 129

Delta R.T. 0.00 min

Lab File: VN053969.D

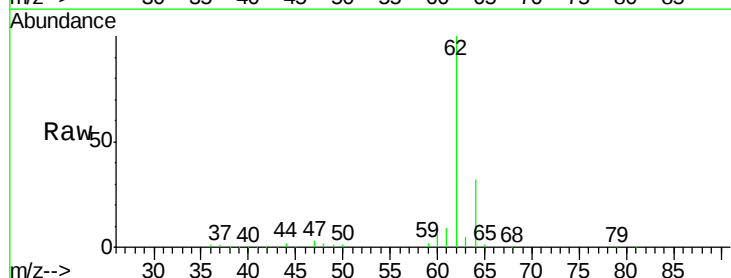
Acq: 26 Feb 2019 21:32

Tgt Ion: 62 Resp: 422527

Ion Ratio Lower Upper

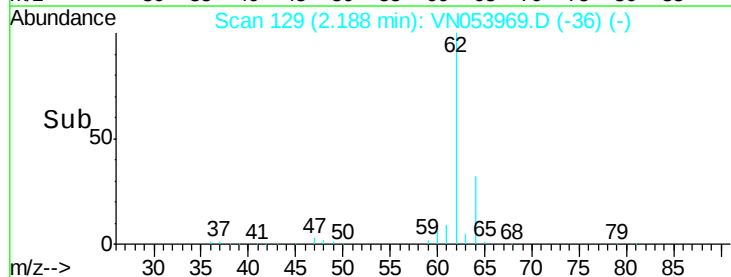
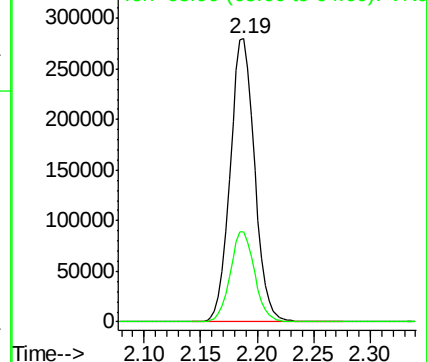
62 100

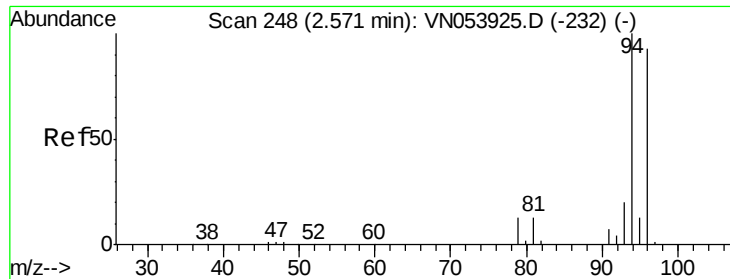
64 31.6 25.1 37.7



Abundance Ion 61.90 (61.60 to 62.60): VNO

Ion 63.90 (63.60 to 64.60): VNO





#5

Bromomethane

Concen: 46.567 ug/l

RT: 2.57 min Scan# 248

Delta R.T. 0.00 min

Lab File: VN053969.D

Acq: 26 Feb 2019 21:32

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 94 Resp: 253330

Ion Ratio Lower Upper

94 100

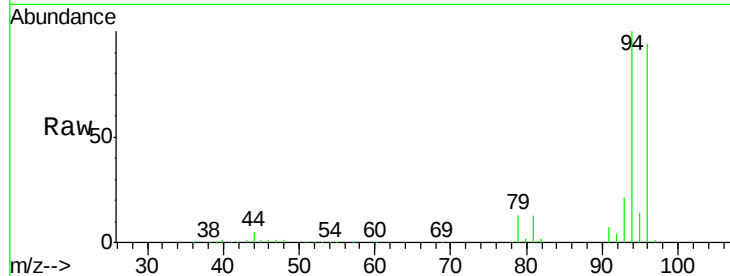
96 93.7 74.9 112.3

Manual Integrations

APPROVED

MMDadoda

2/28/2019 10:50:02 AM



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0

2.57

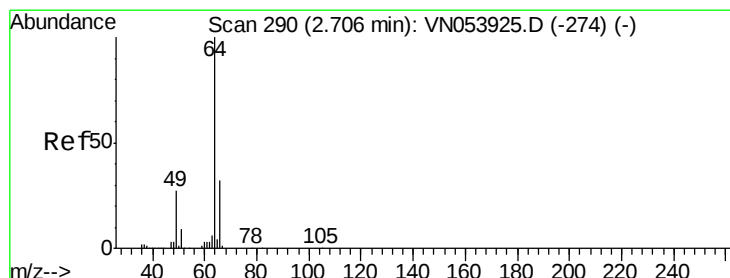
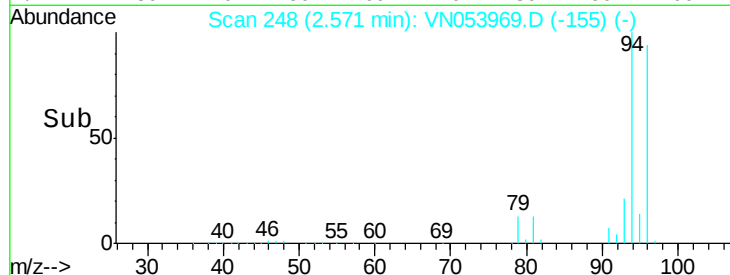
150000

100000

50000

0

Time-->



#6

Chloroethane

Concen: 50.442 ug/l

RT: 2.71 min Scan# 290

Delta R.T. 0.00 min

Lab File: VN053969.D

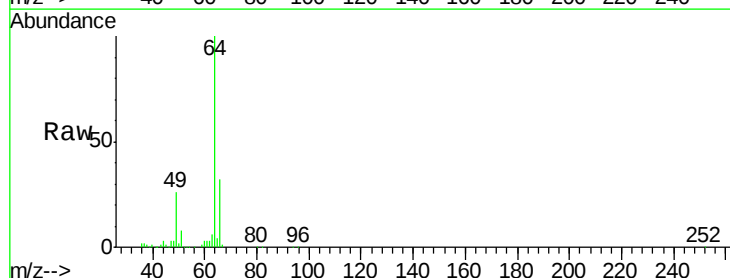
Acq: 26 Feb 2019 21:32

Tgt Ion: 64 Resp: 257688

Ion Ratio Lower Upper

64 100

66 31.9 25.5 38.3



Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0

2.71

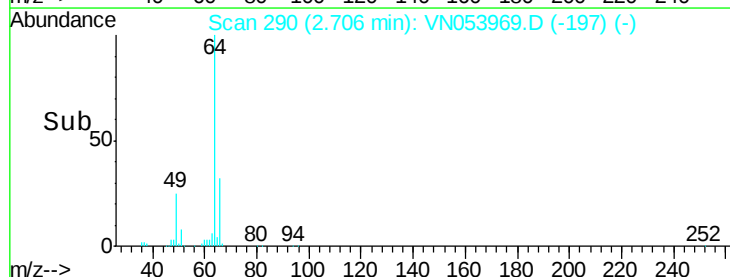
150000

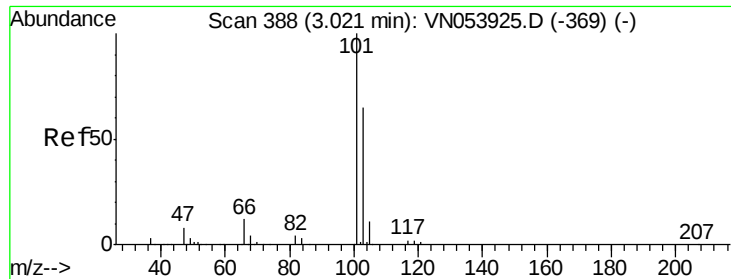
100000

50000

0

Time-->





#7

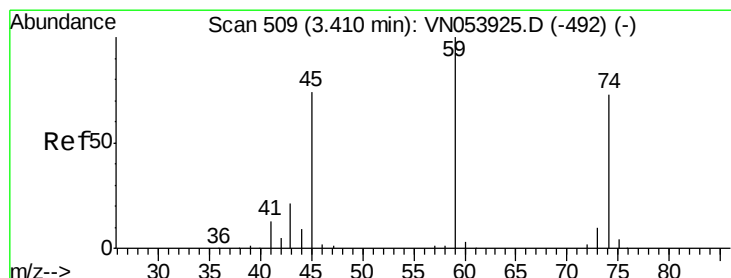
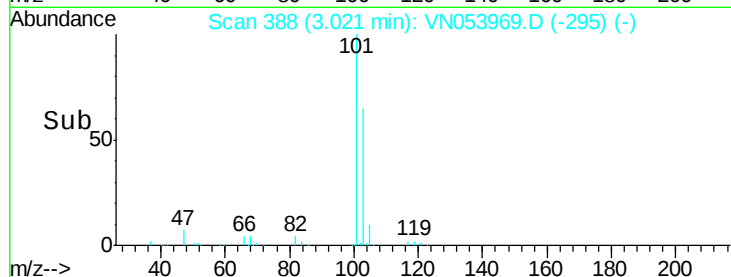
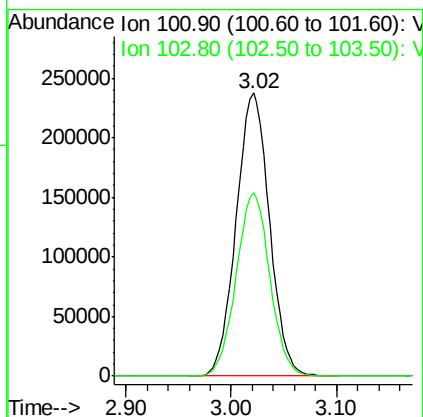
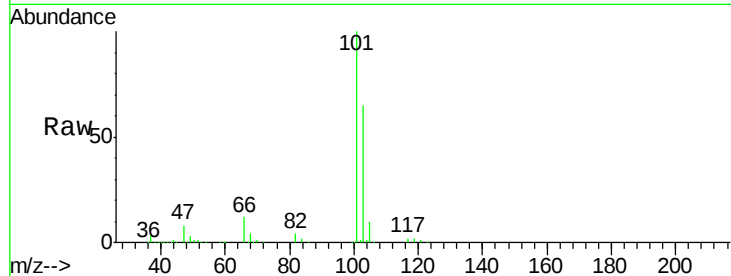
Trichlorofluoromethane
 Concen: 49.734 ug/l
 RT: 3.02 min Scan# 388
 Delta R.T. 0.00 min
 Lab File: VN053969.D
 Acq: 26 Feb 2019 21:32

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tgt Ion	Ratio	Lower	Upper
101	100		
103	64.8	51.9	77.9

Manual Integrations
 APPROVED

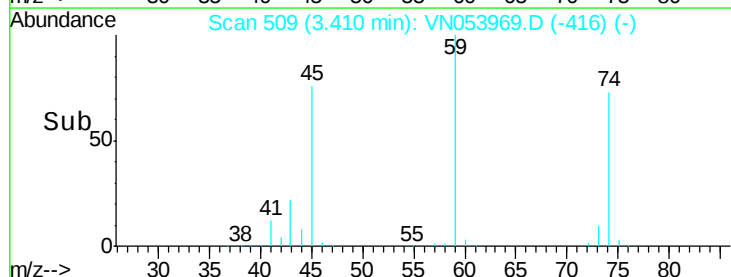
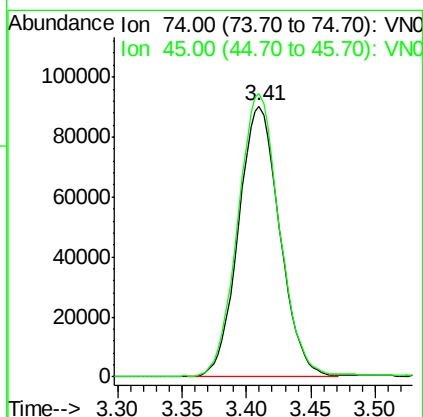
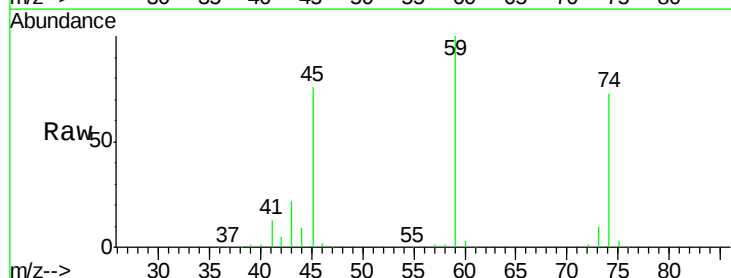
MMDadoda
 2/28/2019 10:50:02 AM

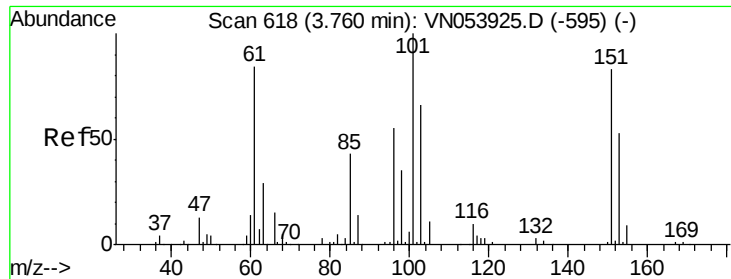


#8

Diethyl Ether
 Concen: 51.156 ug/l
 RT: 3.41 min Scan# 509
 Delta R.T. 0.00 min
 Lab File: VN053969.D
 Acq: 26 Feb 2019 21:32

Tgt Ion	Ratio	Lower	Upper
74	100		
45	104.7	46.9	140.6





#9

1,1,2-Trichlorotrifluoroethane

Concen: 49.254 ug/l

RT: 3.76 min Scan# 618

Delta R.T. 0.00 min

Lab File: VN053969.D

Acq: 26 Feb 2019 21:32

Instrument :

MSVOA_N

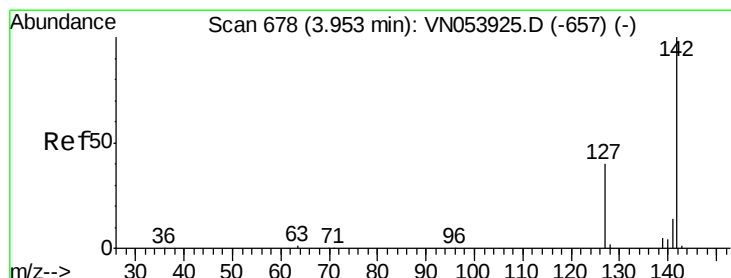
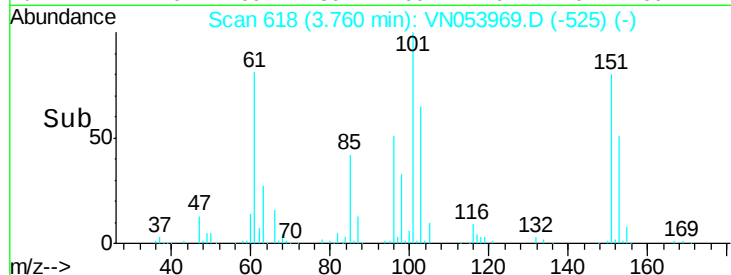
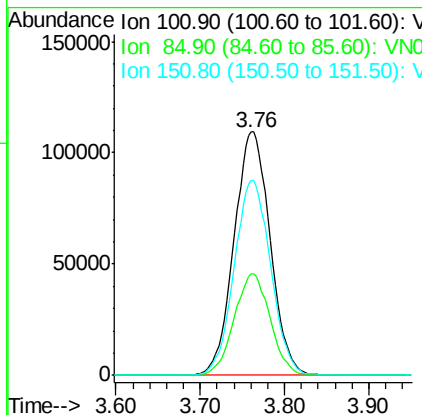
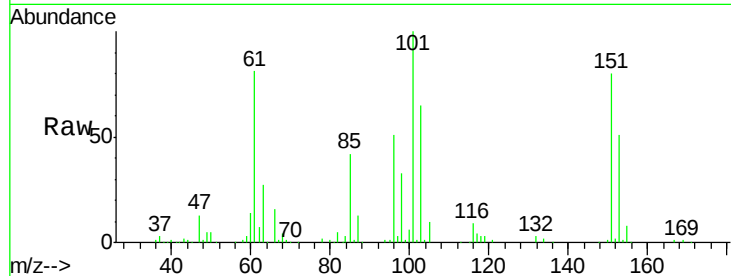
ClientSampleId :

VSTDCCC050EC

Tgt Ion:	101	Resp:	326439
Ion Ratio	Lower	Upper	
101	100		
85	41.4	32.5	48.7
151	80.8	70.2	105.2

Manual Integrations
APPROVED

MMDadoda
2/28/2019 10:50:02 AM



#10

Methyl Iodide

Concen: 56.601 ug/l

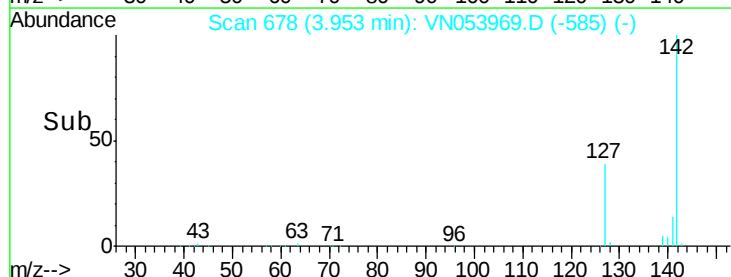
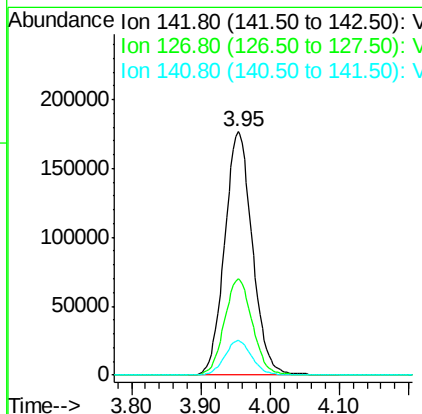
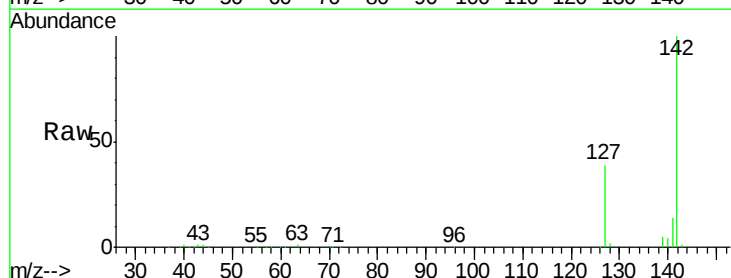
RT: 3.95 min Scan# 678

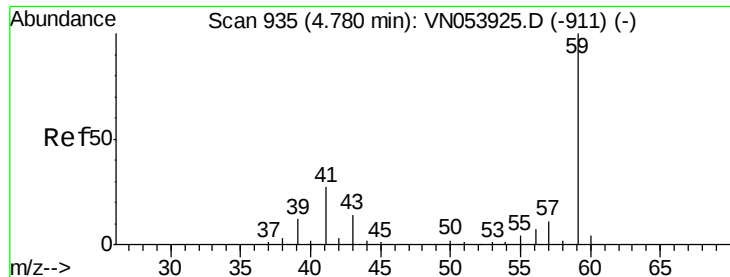
Delta R.T. 0.00 min

Lab File: VN053969.D

Acq: 26 Feb 2019 21:32

Tgt Ion:	142	Resp:	492920
Ion Ratio	Lower	Upper	
142	100		
127	40.0	31.0	46.4
141	13.9	11.3	16.9





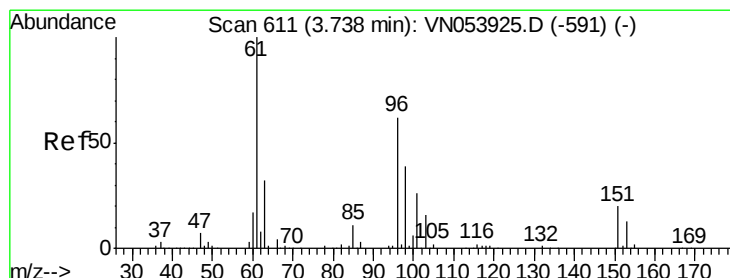
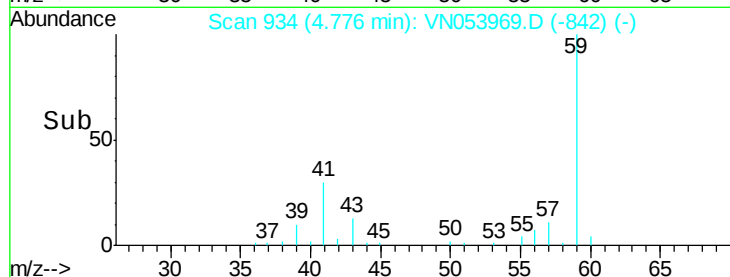
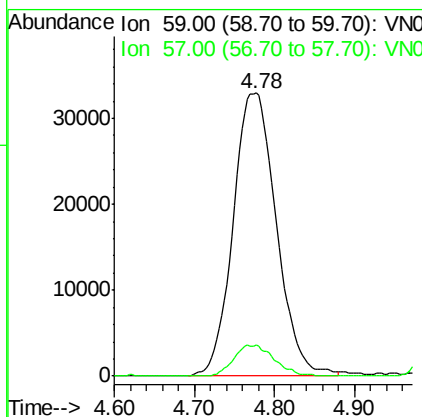
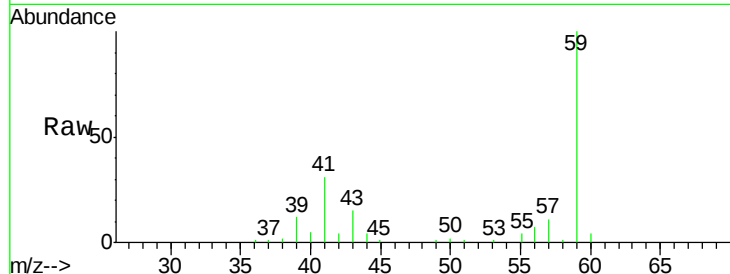
#11
Tert butyl alcohol
Concen: 253.550 ug/l
RT: 4.78 min Scan# 934
Delta R.T. -0.00 min
Lab File: VN053969.D
Acq: 26 Feb 2019 21:32

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion	Ratio	Lower	Upper
59	100		
57	10.3	8.1	12.1

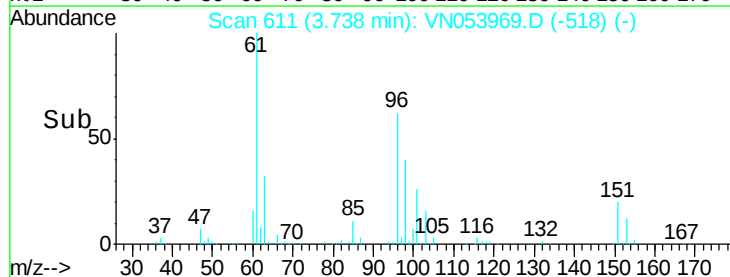
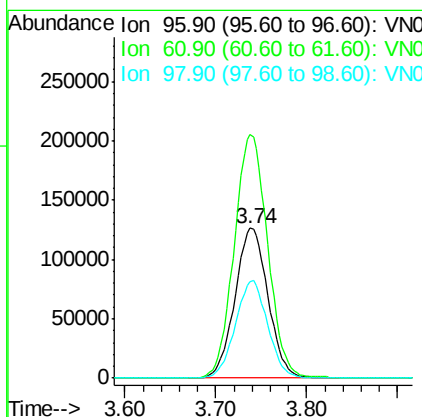
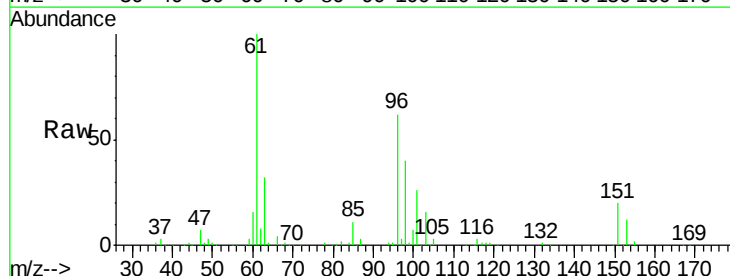
Manual Integrations
APPROVED

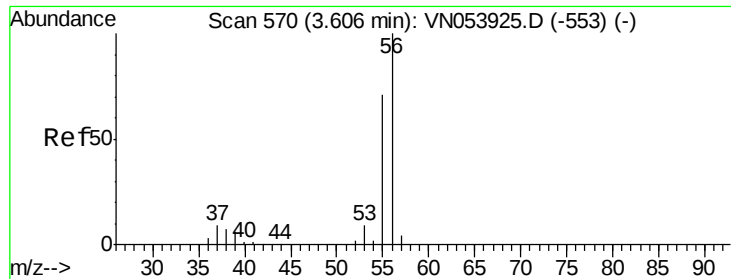
MMDadoda
2/28/2019 10:50:02 AM



#12
1,1-Dichloroethene
Concen: 50.367 ug/l
RT: 3.74 min Scan# 611
Delta R.T. 0.00 min
Lab File: VN053969.D
Acq: 26 Feb 2019 21:32

Tgt Ion	Ratio	Lower	Upper
96	100		
61	162.6	121.0	181.4
98	64.6	52.2	78.2





#13

Acrolein

Concen: 284.324 ug/l

RT: 3.60 min Scan# 569

Delta R.T. -0.00 min

Lab File: VN053969.D

Acq: 26 Feb 2019 21:32

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 56 Resp: 140486

Ion Ratio Lower Upper

56 100

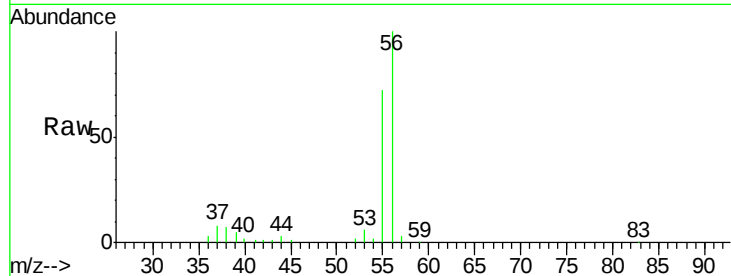
55 72.6 56.3 84.5

Manual Integrations

APPROVED

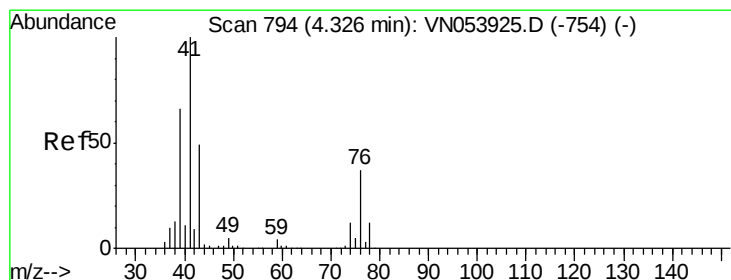
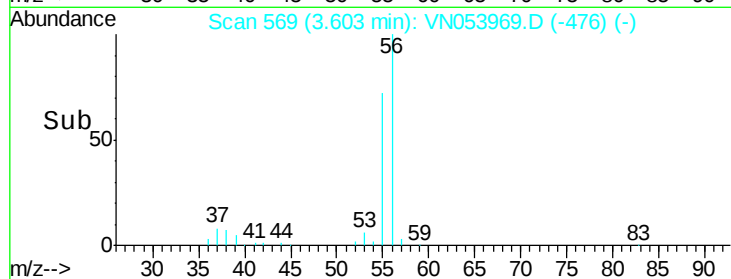
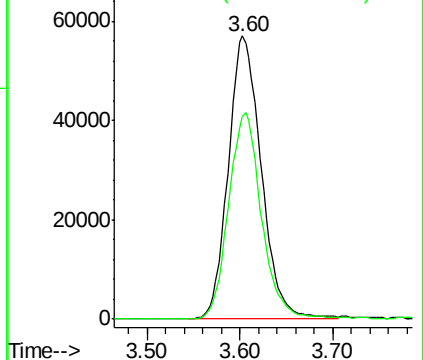
MMDadoda

2/28/2019 10:50:02 AM



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#14

Allyl chloride

Concen: 52.896 ug/l

RT: 4.32 min Scan# 793

Delta R.T. -0.00 min

Lab File: VN053969.D

Acq: 26 Feb 2019 21:32

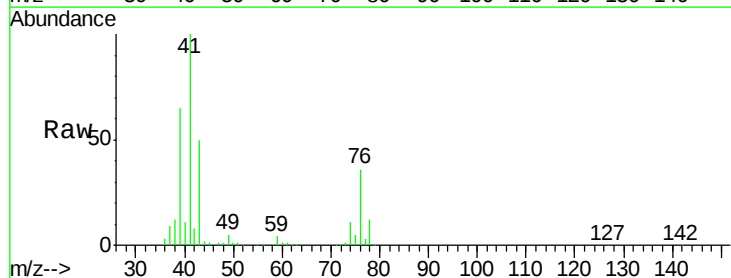
Tgt Ion: 41 Resp: 588163

Ion Ratio Lower Upper

41 100

39 62.7 48.8 73.2

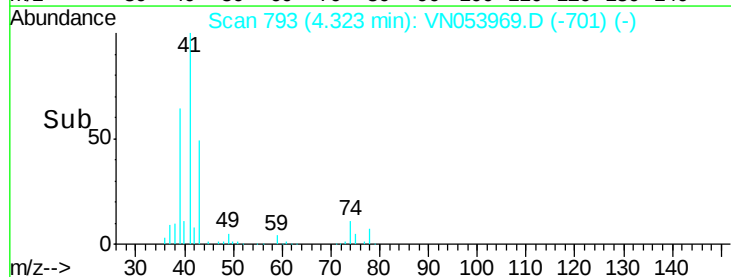
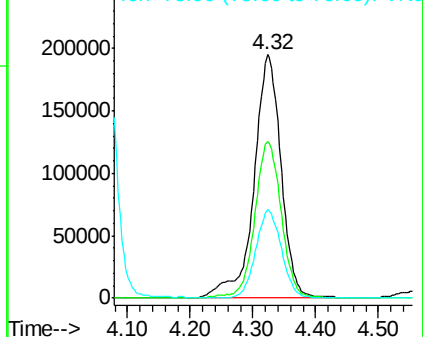
76 33.7 30.9 46.3

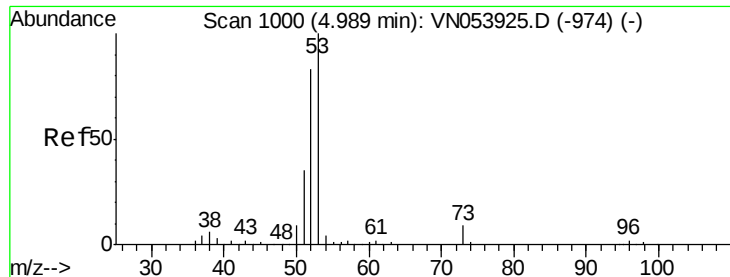


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

Ion 75.90 (75.60 to 76.60): VN0





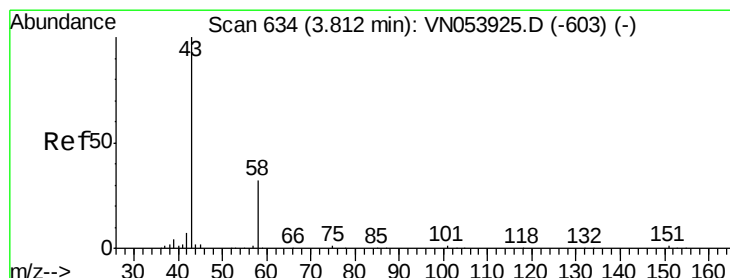
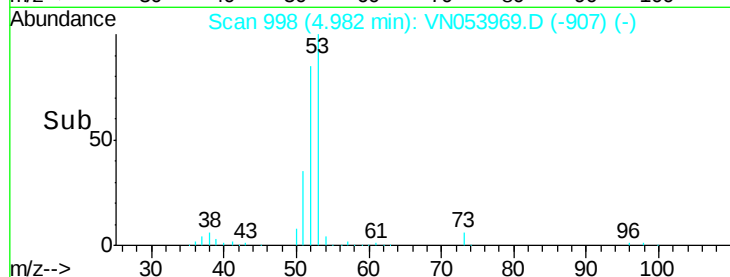
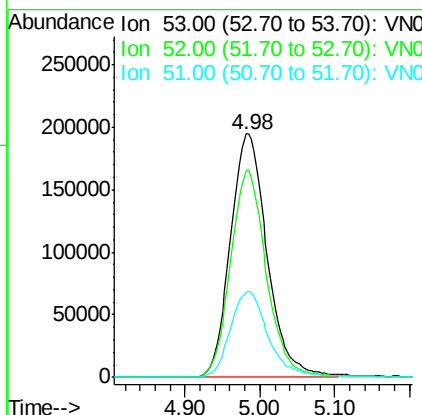
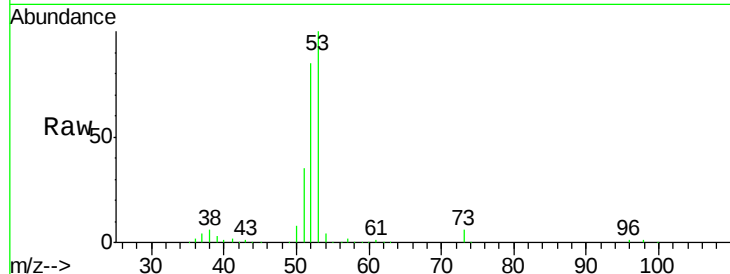
#15
 Acrylonitrile
 Concen: 264.266 ug/l
 RT: 4.98 min Scan# 998
 Delta R.T. -0.01 min
 Lab File: VN053969.D
 Acq: 26 Feb 2019 21:32

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tgt Ion	Ratio	Lower	Upper
53	100		
52	82.7	65.1	97.7
51	36.5	28.2	42.4

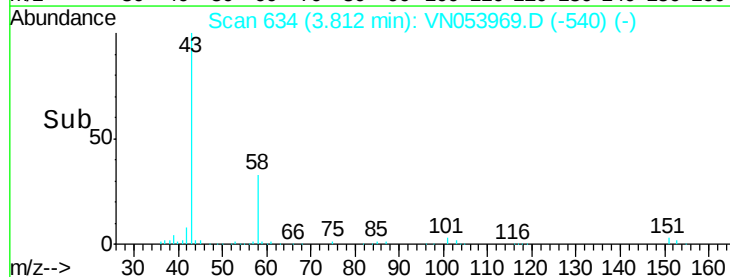
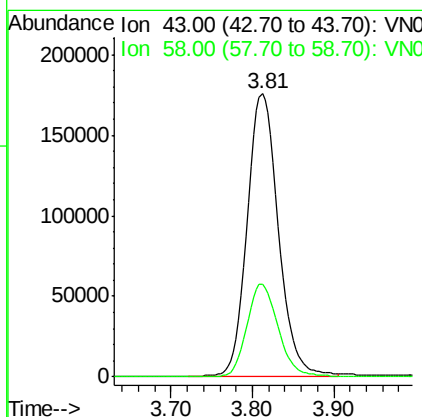
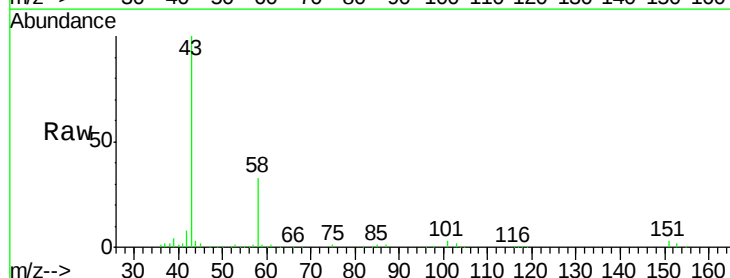
Manual Integrations
 APPROVED

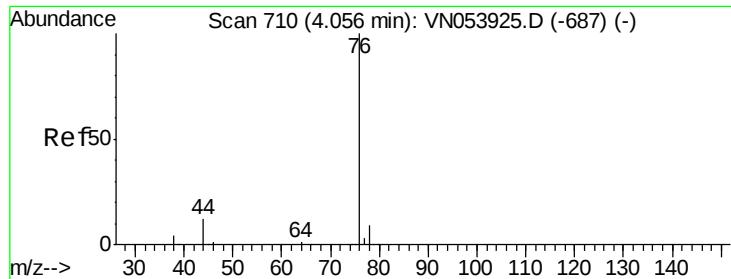
MMDadoda
 2/28/2019 10:50:02 AM



#16
 Acetone
 Concen: 231.014 ug/l
 RT: 3.81 min Scan# 634
 Delta R.T. 0.00 min
 Lab File: VN053969.D
 Acq: 26 Feb 2019 21:32

Tgt Ion	Ratio	Lower	Upper
43	100		
58	32.8	27.6	41.4





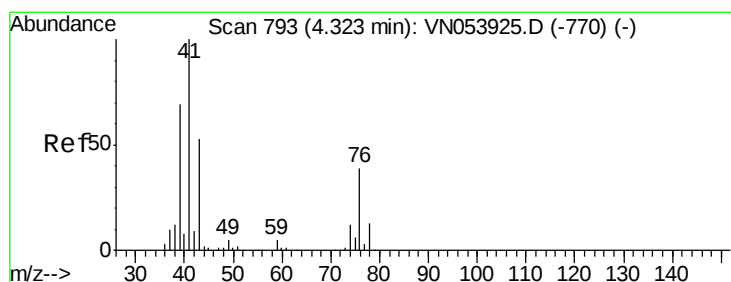
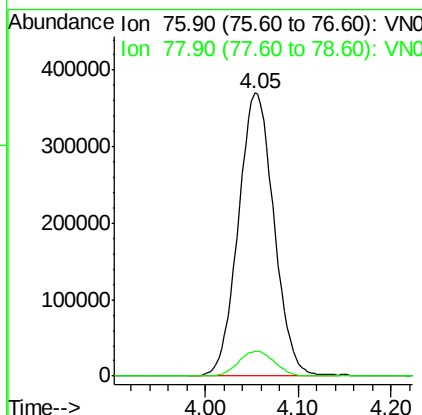
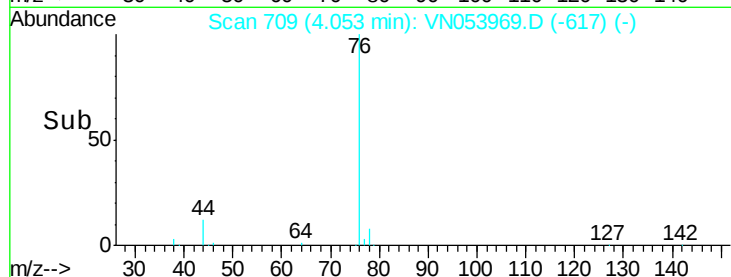
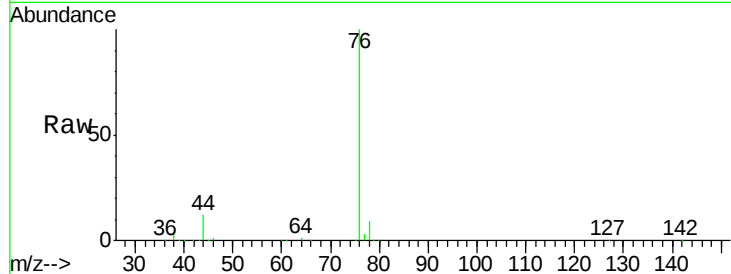
#17
Carbon Disulfide
Concen: 48.333 ug/l
RT: 4.05 min Scan# 709
Delta R.T. -0.00 min
Lab File: VN053969.D
Acq: 26 Feb 2019 21:32

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 76 Resp: 988491
Ion Ratio Lower Upper
76 100
78 8.6 7.5 11.3

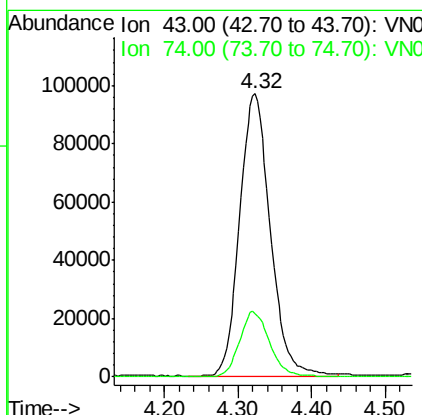
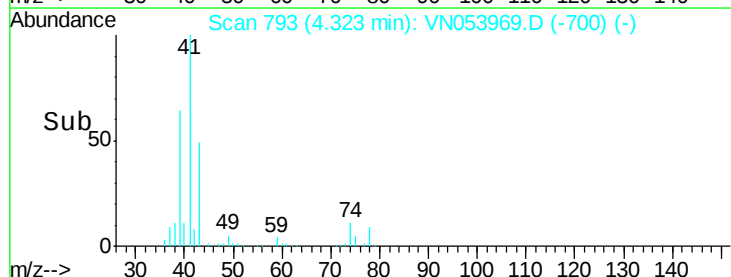
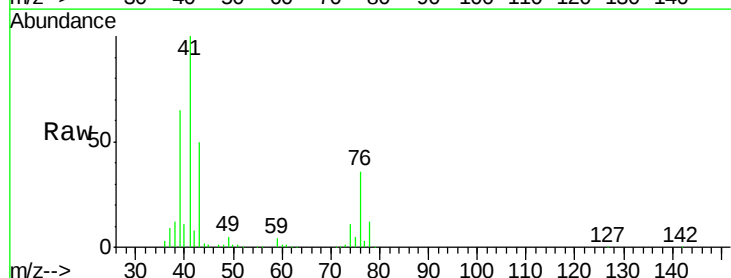
Manual Integrations
APPROVED

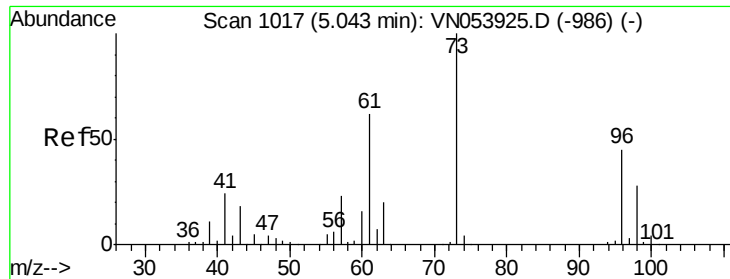
MMDadoda
2/28/2019 10:50:02 AM



#18
Methyl Acetate
Concen: 53.489 ug/l
RT: 4.32 min Scan# 793
Delta R.T. 0.00 min
Lab File: VN053969.D
Acq: 26 Feb 2019 21:32

Tgt Ion: 43 Resp: 281566
Ion Ratio Lower Upper
43 100
74 22.7 20.5 30.7





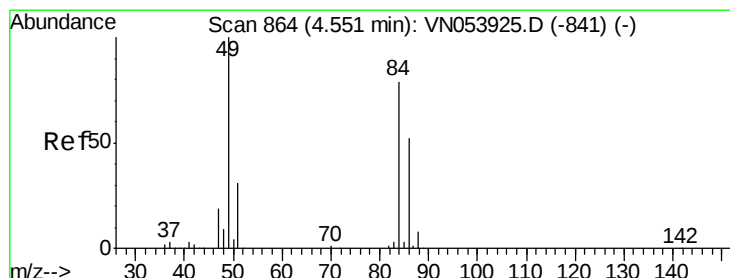
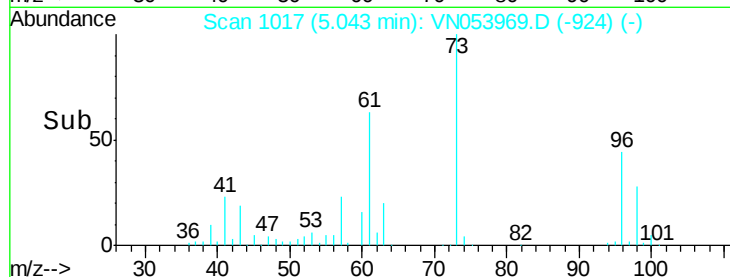
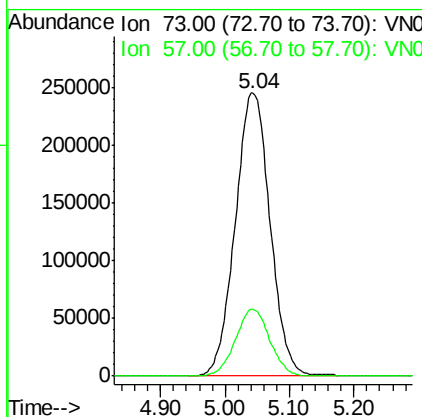
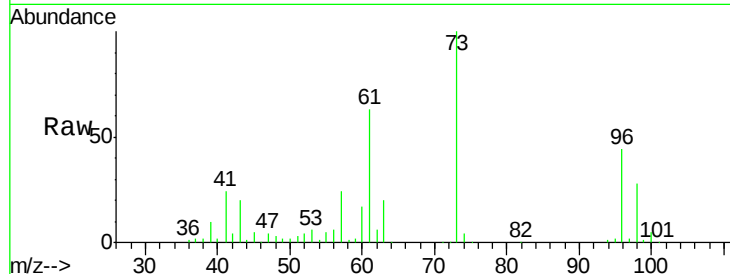
#19
Methyl tert-butyl Ether
Concen: 54.386 ug/l
RT: 5.04 min Scan# 1017
Delta R.T. 0.00 min
Lab File: VN053969.D
Acq: 26 Feb 2019 21:32

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 73 Resp: 924928
Ion Ratio Lower Upper
73 100
57 23.5 18.0 27.0

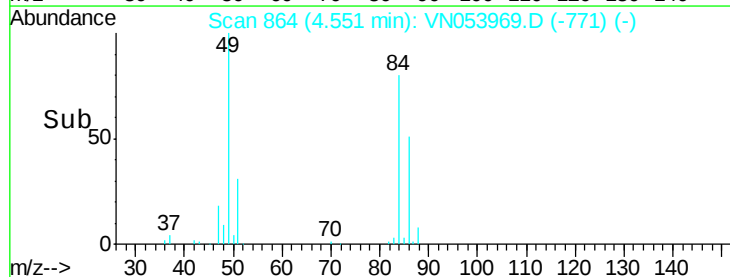
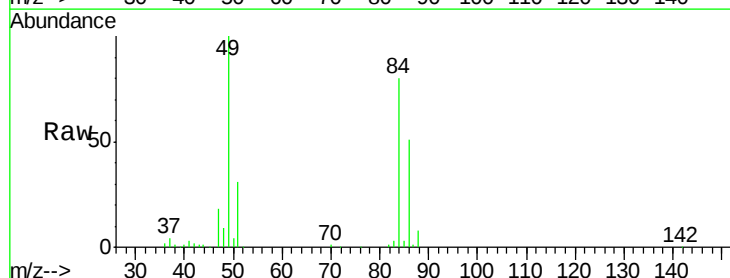
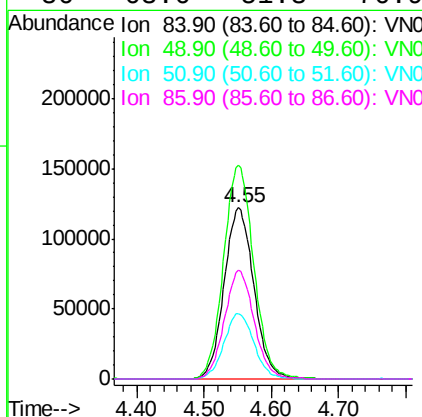
Manual Integrations
APPROVED

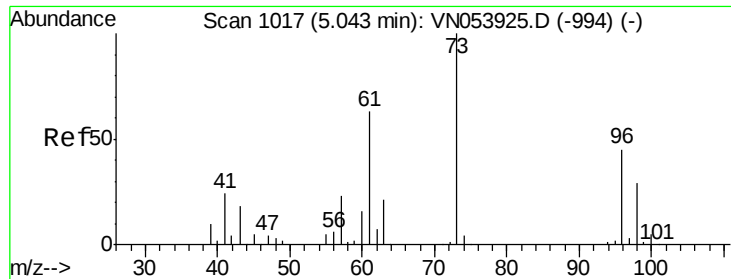
MMDadoda
2/28/2019 10:50:02 AM



#20
Methylene Chloride
Concen: 50.464 ug/l
RT: 4.55 min Scan# 864
Delta R.T. 0.00 min
Lab File: VN053969.D
Acq: 26 Feb 2019 21:32

Tgt Ion: 84 Resp: 375997
Ion Ratio Lower Upper
84 100
49 124.6 89.7 134.5
51 38.5 27.8 41.8
86 63.6 51.3 76.9





#21

trans-1,2-Dichloroethene

Concen: 50.602 ug/l

RT: 5.04 min Scan# 1017

Delta R.T. 0.00 min

Lab File: VN053969.D

Acq: 26 Feb 2019 21:32

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 96 Resp: 347206

Ion Ratio Lower Upper

96 100

61 144.0 104.5 156.7

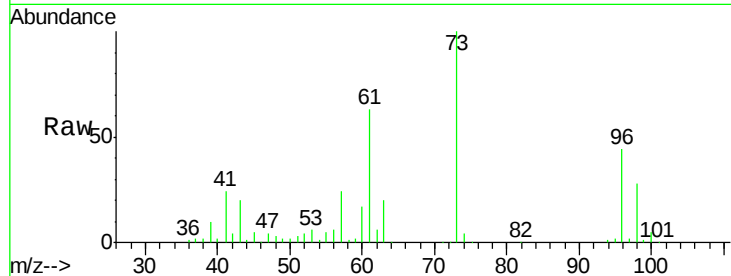
98 64.8 50.6 76.0

Manual Integrations

APPROVED

MMDadoda

2/28/2019 10:50:02 AM

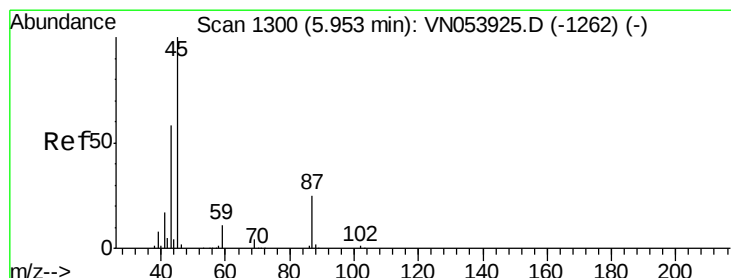
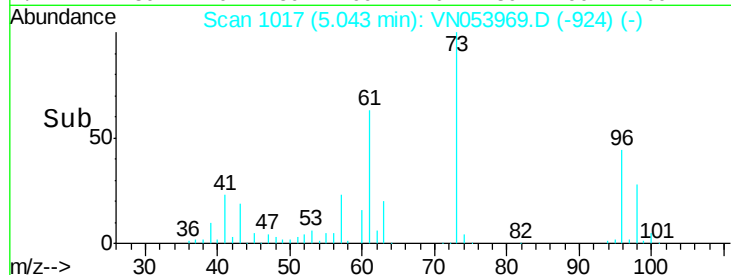
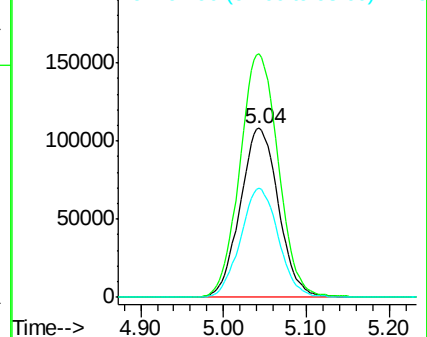


Abundance

Ion 95.90 (95.60 to 96.60): VN0

Ion 60.90 (60.60 to 61.60): VN0

Ion 97.90 (97.60 to 98.60): VN0



#22

Diisopropyl ether

Concen: 54.841 ug/l

RT: 5.95 min Scan# 1299

Delta R.T. -0.00 min

Lab File: VN053969.D

Acq: 26 Feb 2019 21:32

Tgt Ion: 45 Resp: 1176404

Ion Ratio Lower Upper

45 100

43 60.7 46.2 69.4

87 25.4 23.4 35.0

59 10.8 9.4 14.0

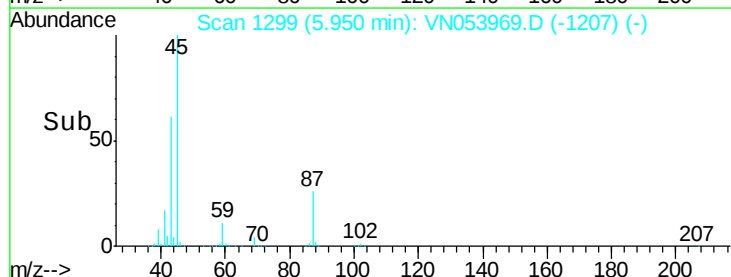
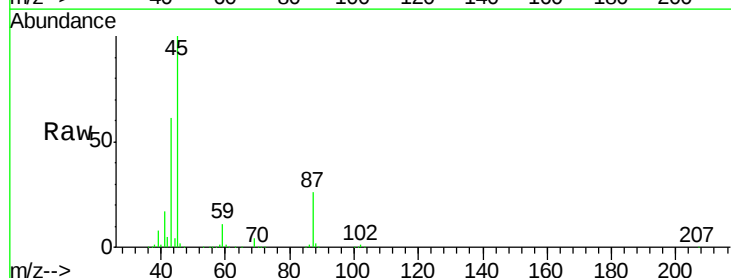
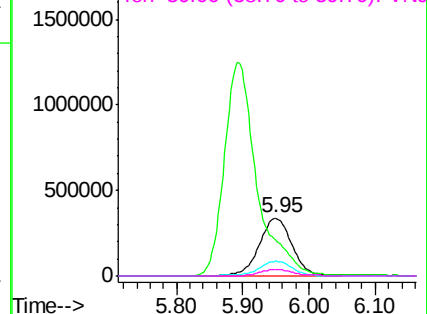
Abundance

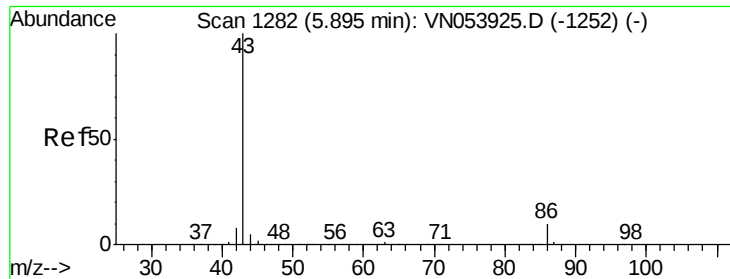
Ion 45.00 (44.70 to 45.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 87.00 (86.70 to 87.70): VN0

Ion 59.00 (58.70 to 59.70): VN0





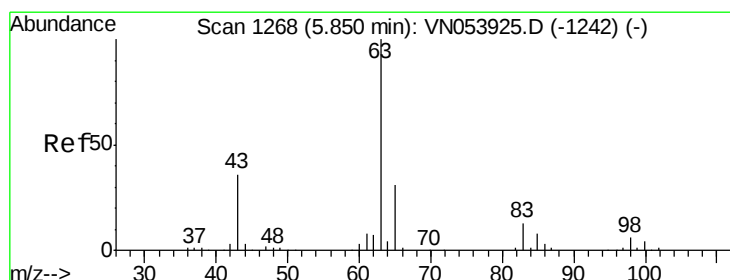
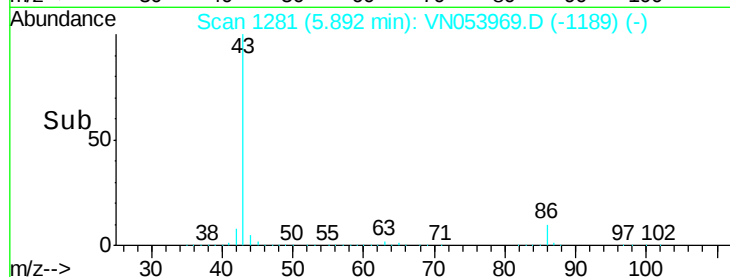
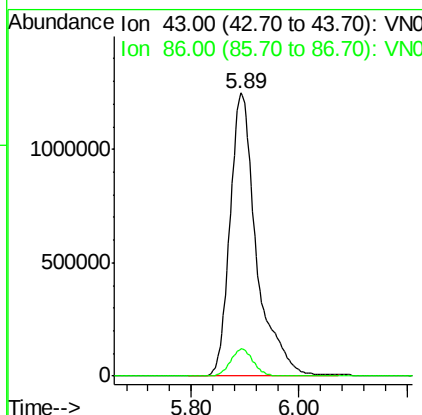
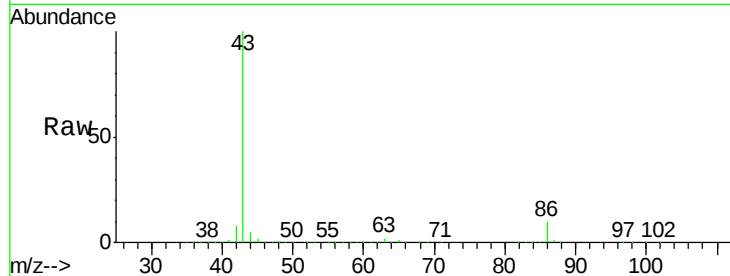
#23
 Vinyl Acetate
 Concen: 277.446 ug/l
 RT: 5.89 min Scan# 1281
 Delta R.T. -0.00 min
 Lab File: VN053969.D
 Acq: 26 Feb 2019 21:32

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tgt Ion: 43 Resp: 4281412
 Ion Ratio Lower Upper
 43 100
 86 9.7 9.1 13.7

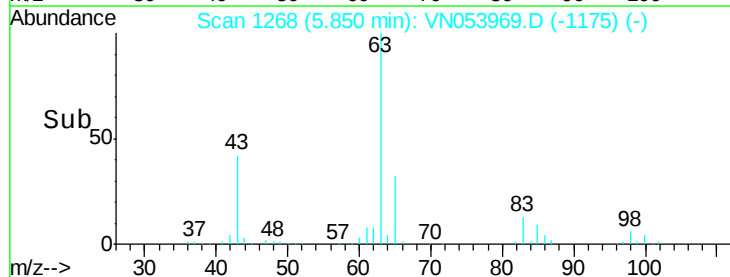
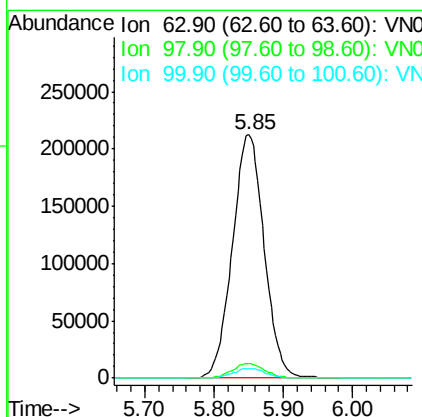
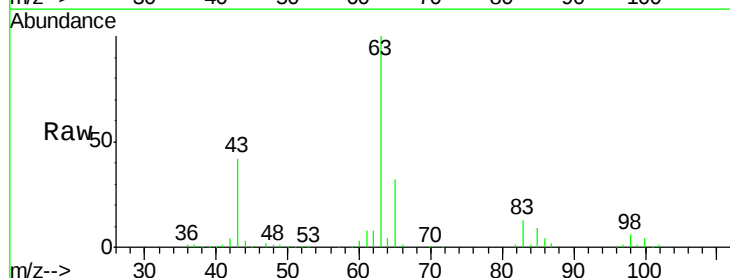
Manual Integrations
 APPROVED

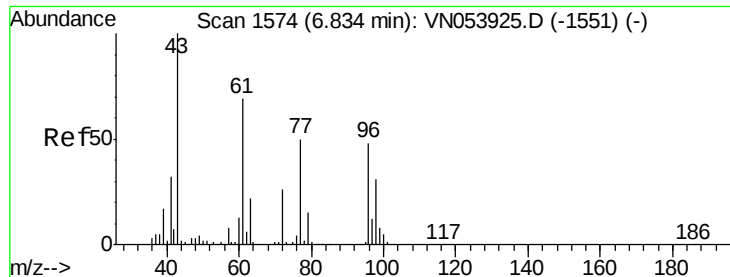
MMDadoda
 2/28/2019 10:50:02 AM



#24
 1,1-Dichloroethane
 Concen: 51.544 ug/l
 RT: 5.85 min Scan# 1268
 Delta R.T. 0.00 min
 Lab File: VN053969.D
 Acq: 26 Feb 2019 21:32

Tgt Ion: 63 Resp: 678045
 Ion Ratio Lower Upper
 63 100
 98 6.0 3.4 10.2
 100 3.9 2.2 6.6





#25

2-Butanone

Concen: 251.950 ug/l

RT: 6.83 min Scan# 1574

Delta R.T. 0.00 min

Lab File: VN053969.D

Acq: 26 Feb 2019 21:32

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 43 Resp: 744746

Ion Ratio Lower Upper

43 100

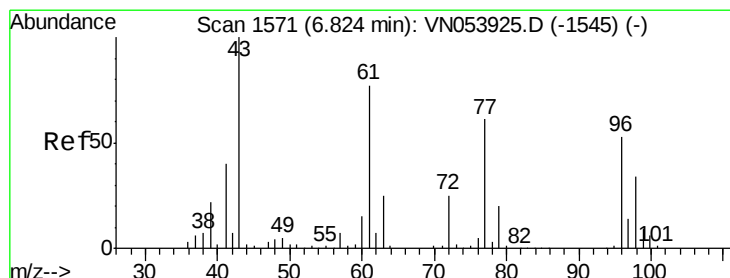
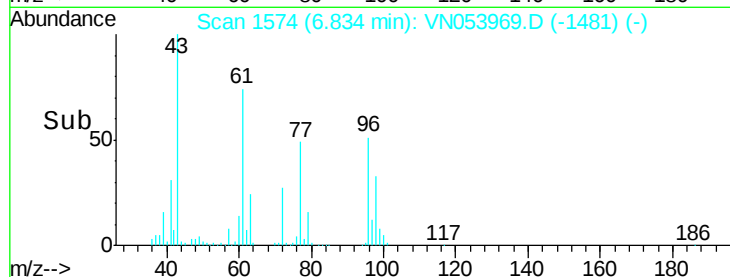
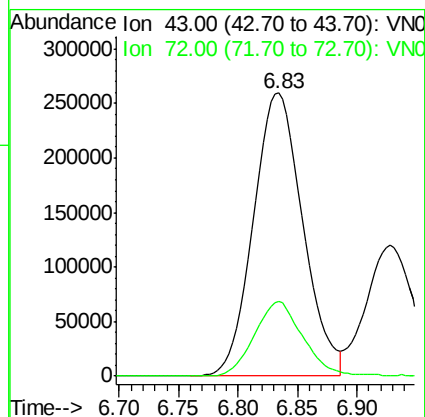
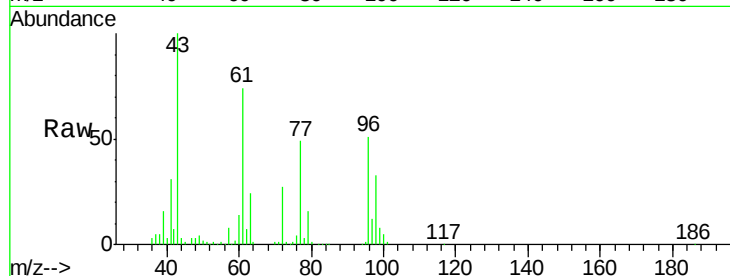
72 26.7 22.1 33.1

Manual Integrations

APPROVED

MMDadoda

2/28/2019 10:50:02 AM



#26

2,2-Dichloropropane

Concen: 47.583 ug/l

RT: 6.82 min Scan# 1571

Delta R.T. 0.00 min

Lab File: VN053969.D

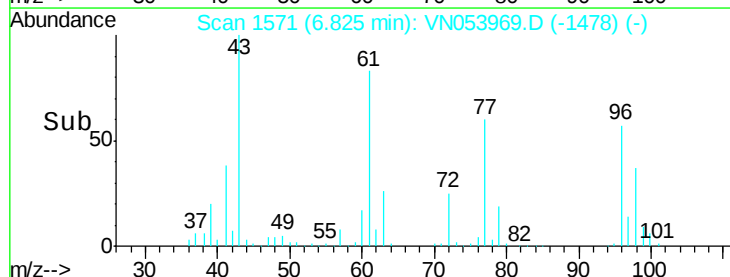
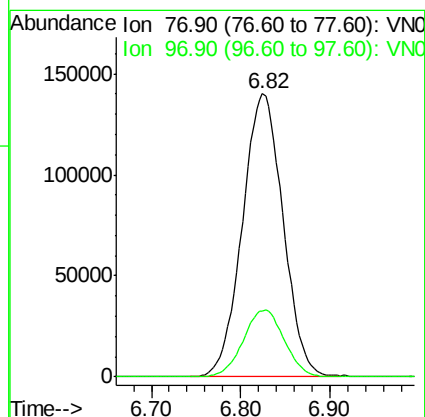
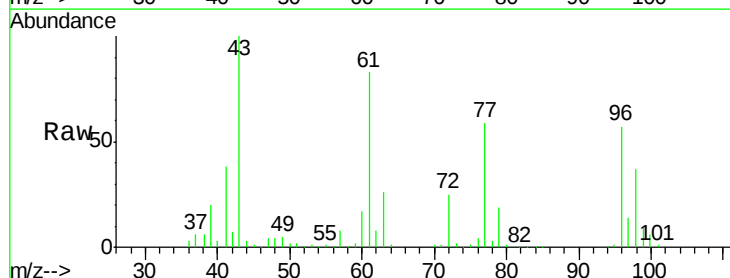
Acq: 26 Feb 2019 21:32

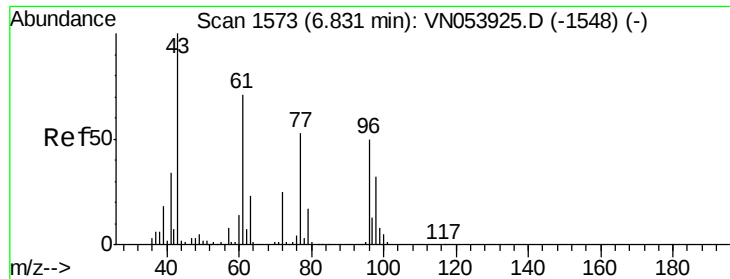
Tgt Ion: 77 Resp: 444704

Ion Ratio Lower Upper

77 100

97 23.9 12.3 36.9





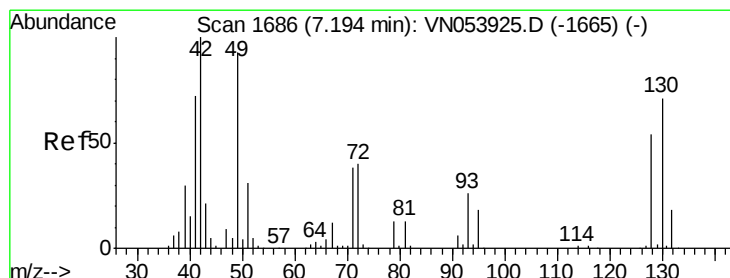
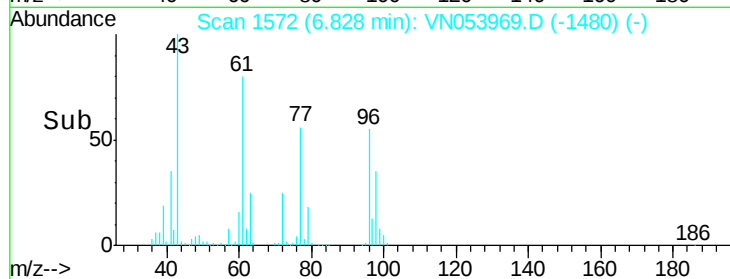
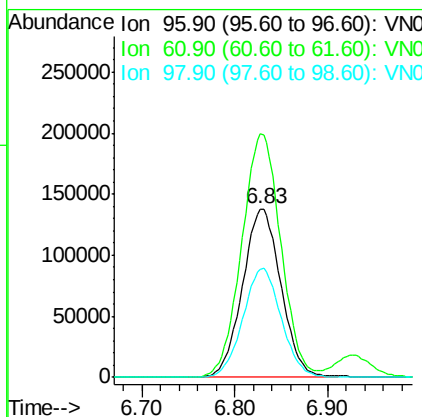
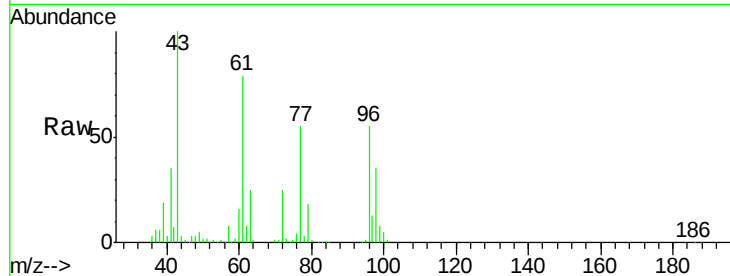
#27
 cis-1,2-Dichloroethene
 Concen: 52.061 ug/l
 RT: 6.83 min Scan# 1572
 Delta R.T. -0.00 min
 Lab File: VN053969.D
 Acq: 26 Feb 2019 21:32

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tgt Ion	Ratio	Resp	Lower	Upper
96	100	397271		
61	147.0	0.0	275.6	
98	64.7	0.0	130.0	

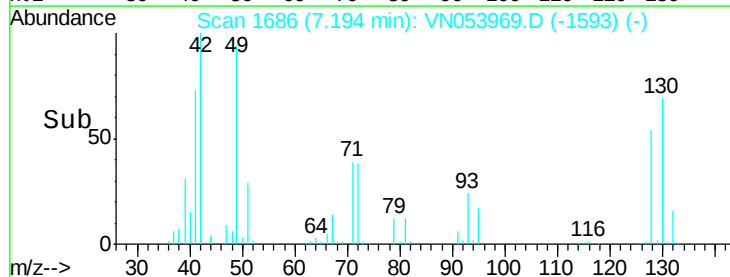
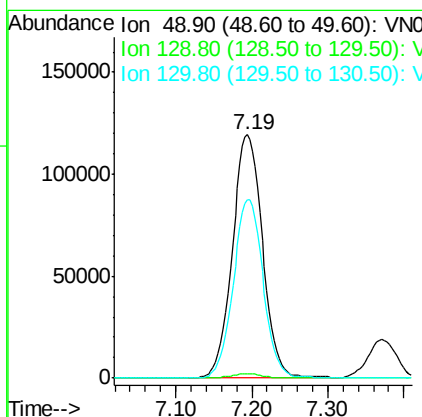
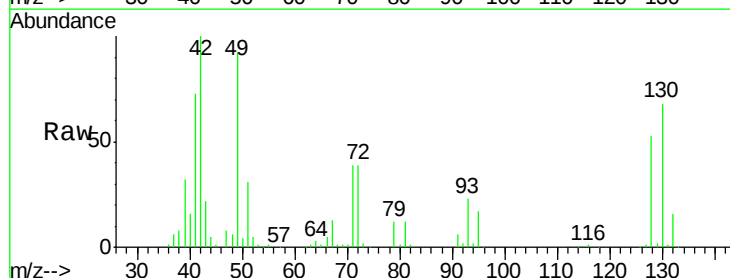
Manual Integrations
 APPROVED

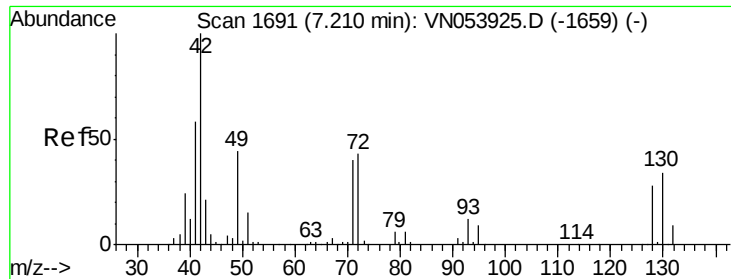
MMDadoda
 2/28/2019 10:50:02 AM



#28
 Bromochloromethane
 Concen: 54.589 ug/l
 RT: 7.19 min Scan# 1686
 Delta R.T. 0.00 min
 Lab File: VN053969.D
 Acq: 26 Feb 2019 21:32

Tgt Ion	Ratio	Lower	Upper
49	100		
129	1.8	0.0	4.6
130	72.6	72.9	109.3#





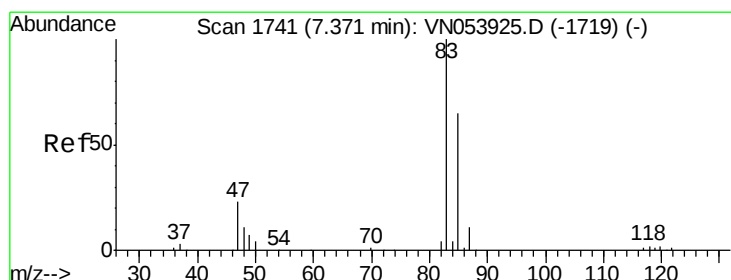
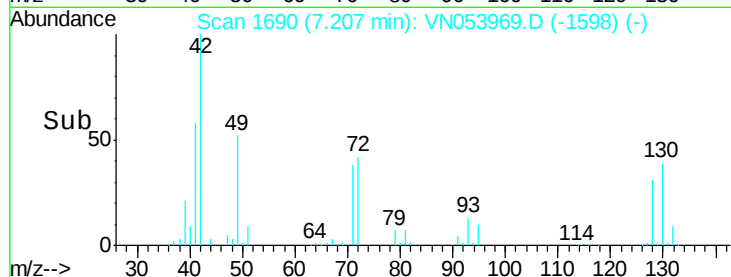
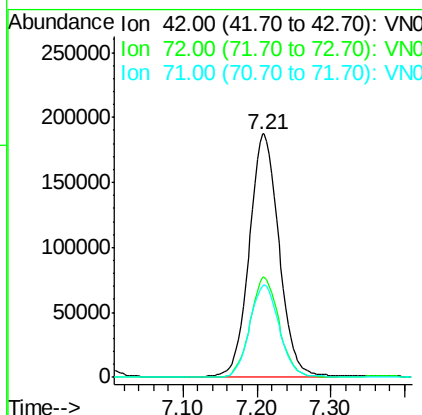
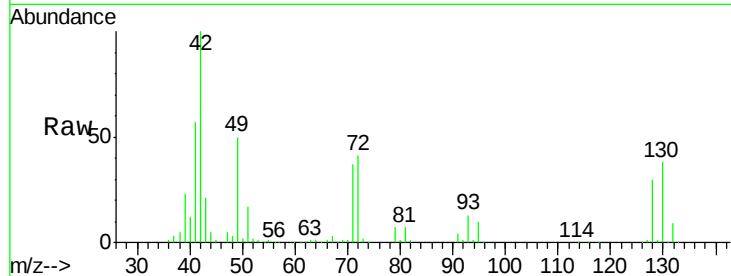
#29
Tetrahydrofuran
Concen: 266.506 ug/l
RT: 7.21 min Scan# 1690
Delta R.T. -0.00 min
Lab File: VN053969.D
Acq: 26 Feb 2019 21:32

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion	Ratio	Lower	Upper
42	100		
72	40.3	36.9	55.3
71	38.0	34.6	52.0

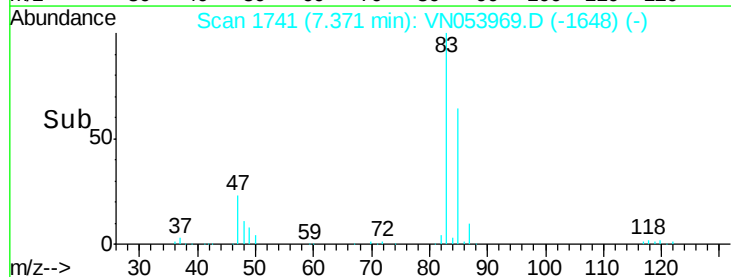
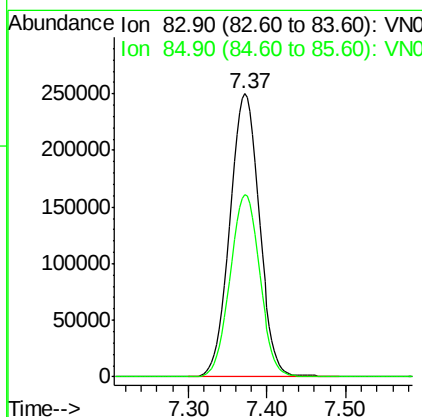
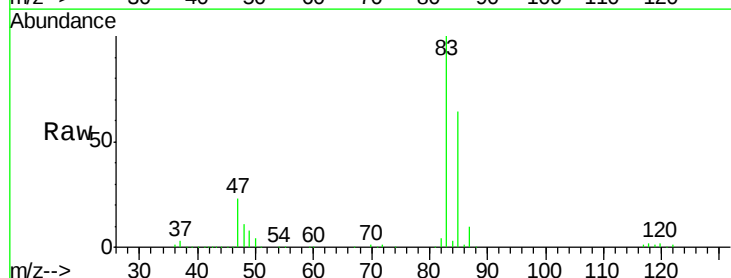
Manual Integrations
APPROVED

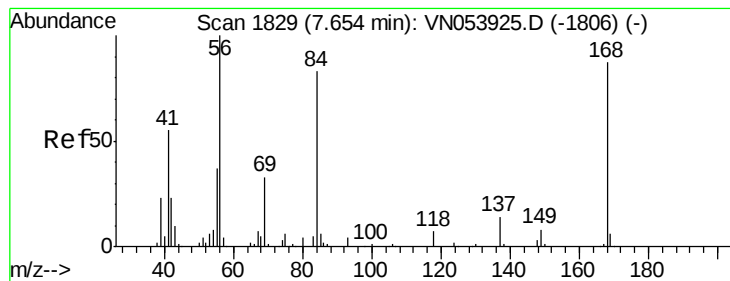
MMDadoda
2/28/2019 10:50:02 AM



#30
Chloroform
Concen: 51.304 ug/l
RT: 7.37 min Scan# 1741
Delta R.T. 0.00 min
Lab File: VN053969.D
Acq: 26 Feb 2019 21:32

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.4	52.6	78.8





#31

Cyclohexane

Concen: 51.655 ug/l

RT: 7.65 min Scan# 1829

Delta R.T. 0.00 min

Lab File: VN053969.D

Acq: 26 Feb 2019 21:32

Instrument :

MSVOA_N

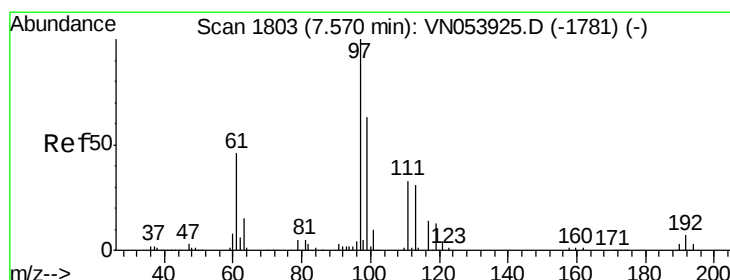
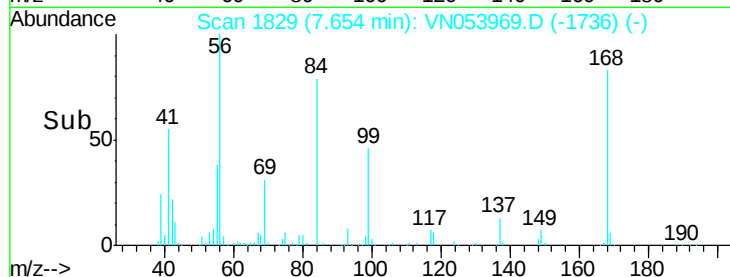
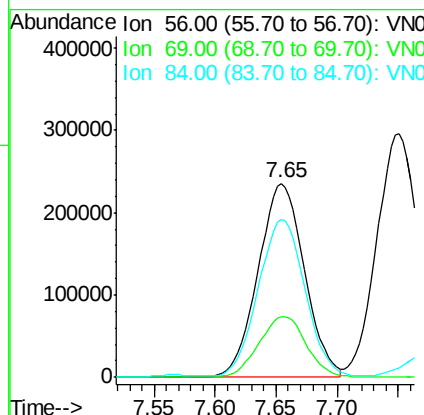
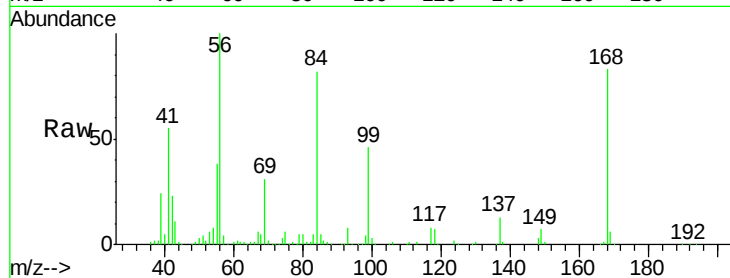
ClientSampleId :

VSTDCCC050EC

Tgt Ion:	56	Resp:	621682
Ion	Ratio	Lower	Upper
56	100		
69	31.3	26.0	39.0
84	80.6	69.1	103.7

Manual Integrations
APPROVED

MMDadoda
2/28/2019 10:50:02 AM



#32

1,1,1-Trichloroethane

Concen: 51.459 ug/l

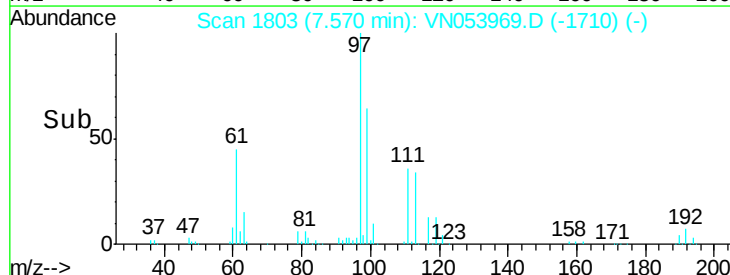
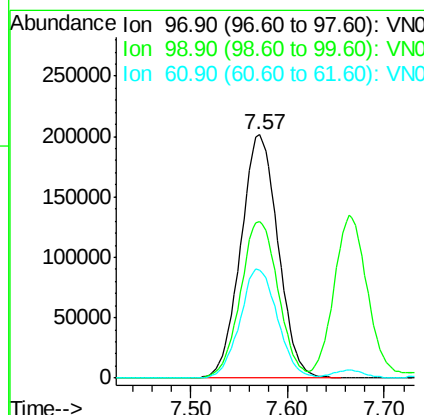
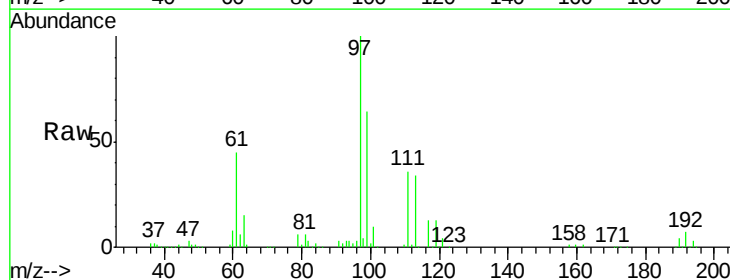
RT: 7.57 min Scan# 1803

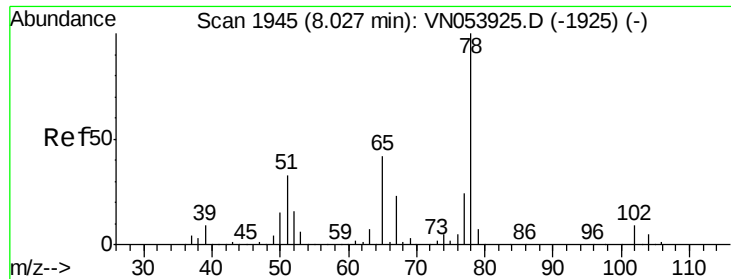
Delta R.T. 0.00 min

Lab File: VN053969.D

Acq: 26 Feb 2019 21:32

Tgt Ion:	97	Resp:	541207
Ion	Ratio	Lower	Upper
97	100		
99	65.3	51.8	77.8
61	45.0	33.2	49.8





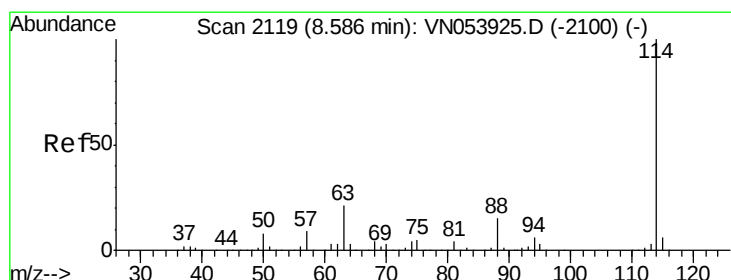
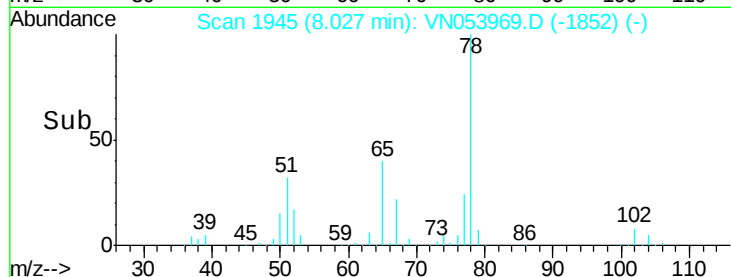
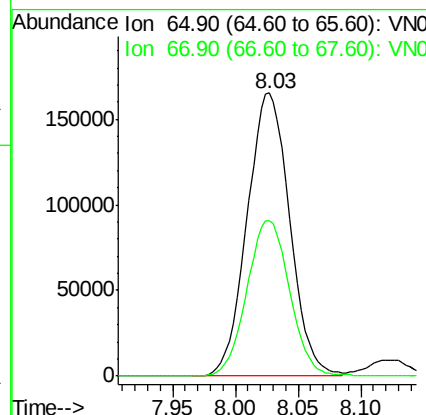
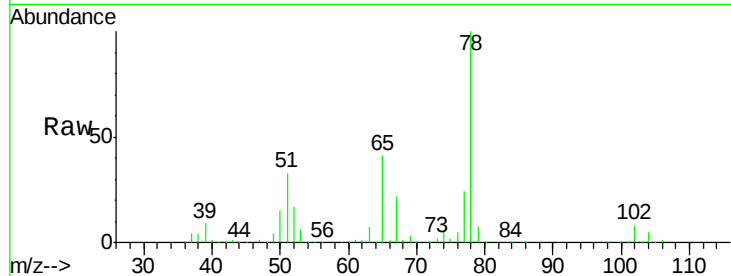
#33
 1,2-Dichloroethane-d4
 Concen: 51.971 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN053969.D
 Acq: 26 Feb 2019 21:32

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tgt Ion: 65 Resp: 391249
 Ion Ratio Lower Upper
 65 100
 67 55.3 0.0 111.8

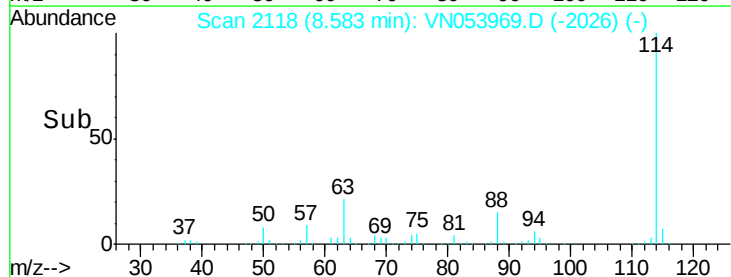
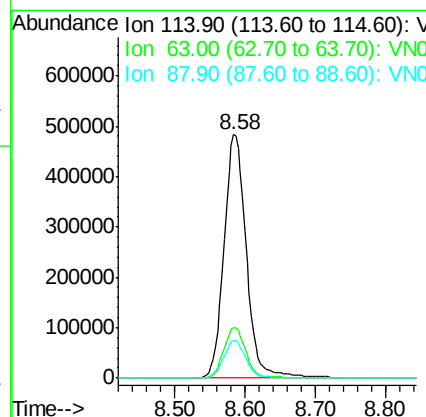
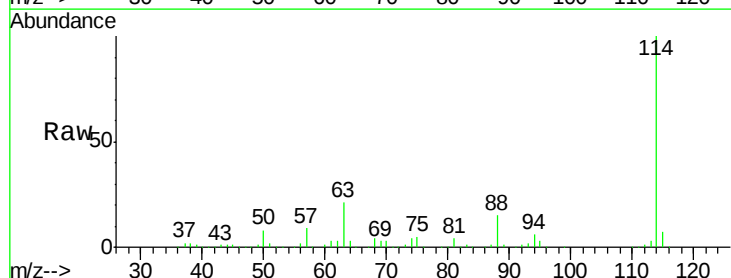
Manual Integrations
 APPROVED

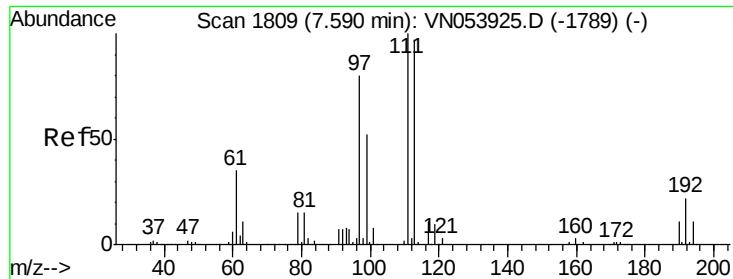
MMDadoda
 2/28/2019 10:50:02 AM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2118
 Delta R.T. -0.00 min
 Lab File: VN053969.D
 Acq: 26 Feb 2019 21:32

Tgt Ion: 114 Resp: 1069480
 Ion Ratio Lower Upper
 114 100
 63 20.8 0.0 37.4
 88 15.4 0.0 30.4





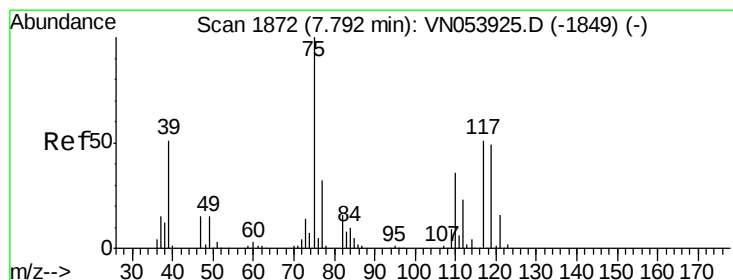
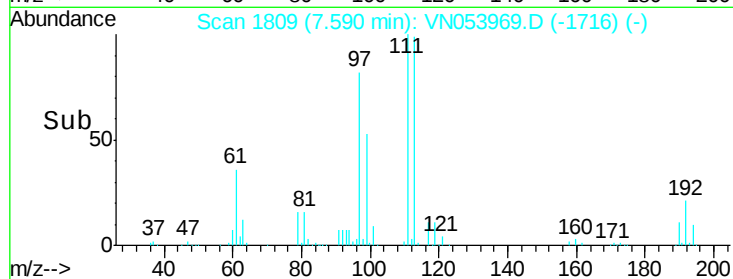
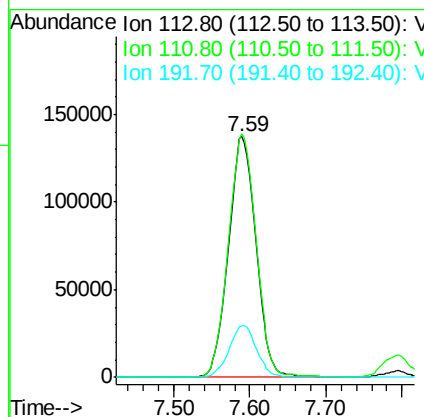
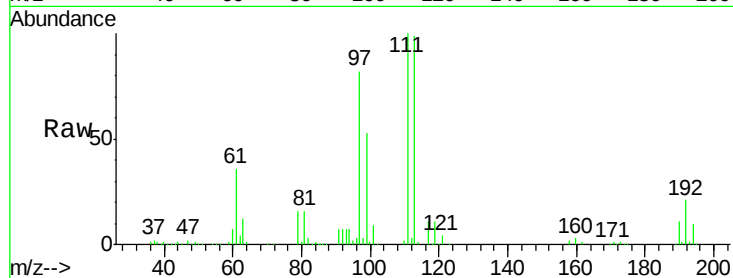
#35
 Dibromofluoromethane
 Concen: 50.321 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. 0.00 min
 Lab File: VN053969.D
 Acq: 26 Feb 2019 21:32

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tgt Ion	Ratio	Resp	Lower	Upper
113	100	348013		
111	101.9	81.1	121.7	
192	21.4	18.8	28.2	

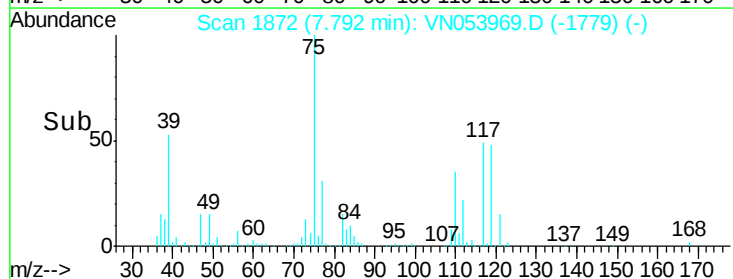
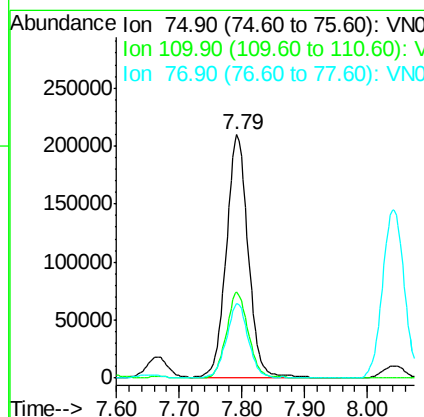
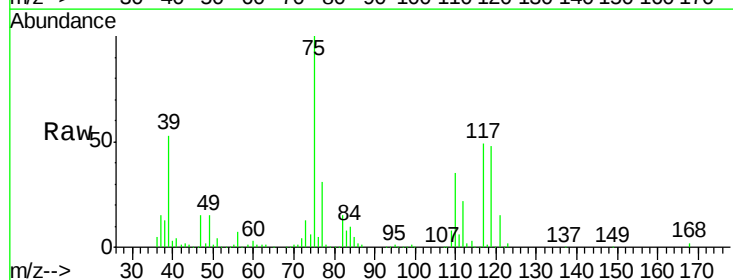
Manual Integrations
 APPROVED

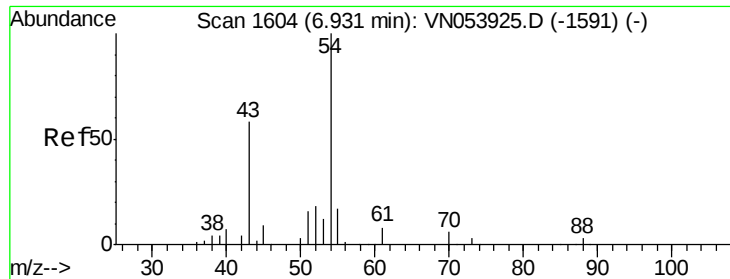
MMDadoda
 2/28/2019 10:50:02 AM



#36
 1,1-Dichloropropene
 Concen: 51.090 ug/l
 RT: 7.79 min Scan# 1872
 Delta R.T. 0.00 min
 Lab File: VN053969.D
 Acq: 26 Feb 2019 21:32

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	508135		
110	35.2	19.0	57.0	
77	30.4	25.4	38.0	





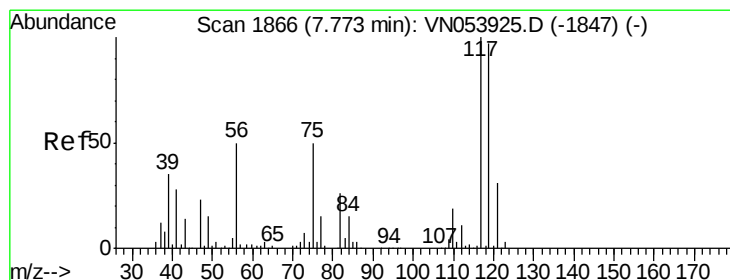
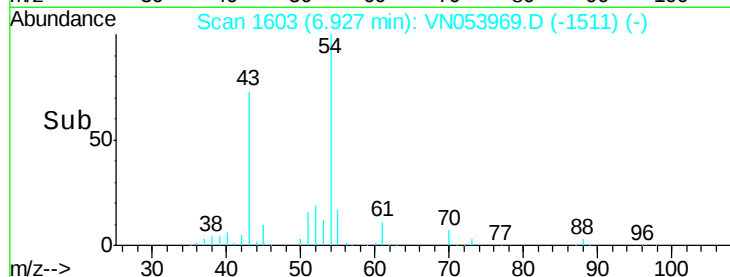
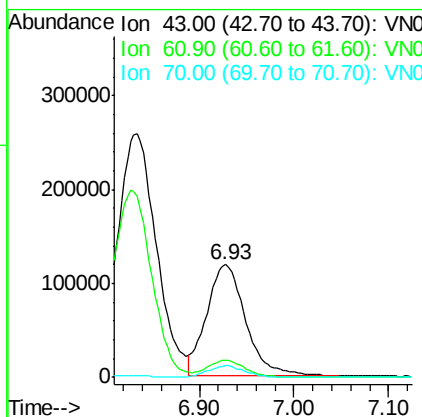
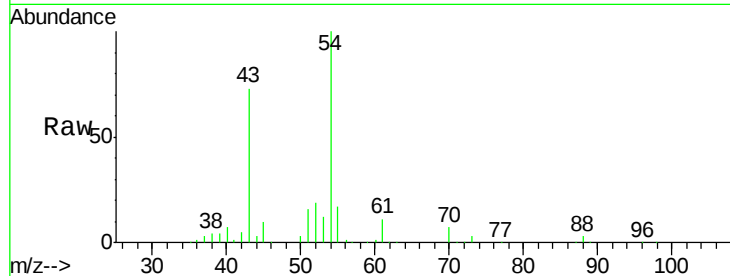
#37
Ethyl Acetate
Concen: 47.938 ug/l
RT: 6.93 min Scan# 1603
Delta R.T. -0.00 min
Lab File: VN053969.D
Acq: 26 Feb 2019 21:32

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion	Ratio	Lower	Upper
43	100		
61	14.5	12.0	18.0
70	10.0	8.7	13.1

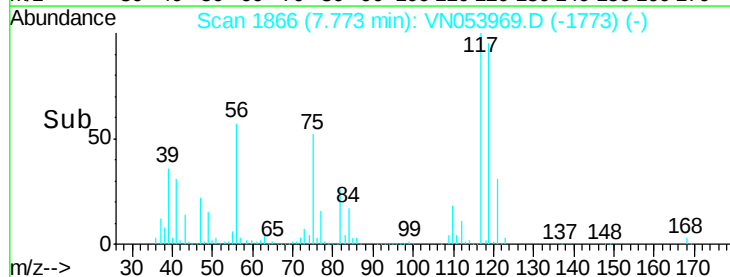
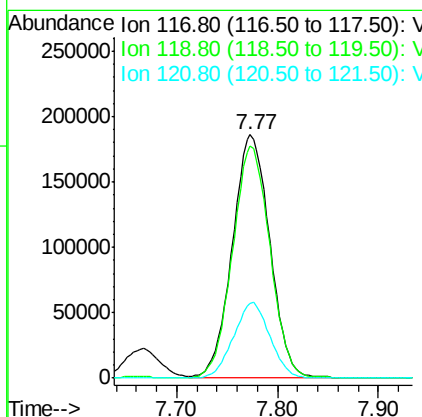
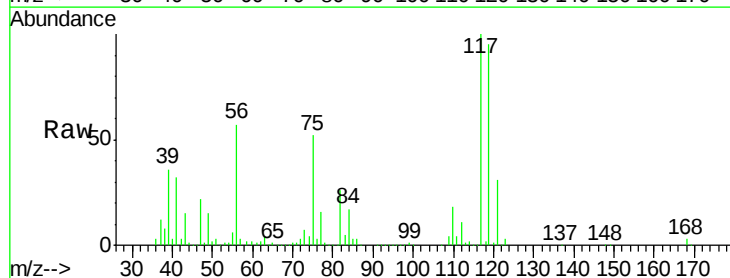
Manual Integrations
APPROVED

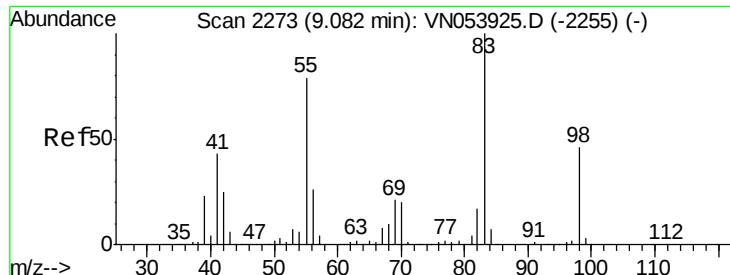
MMDadoda
2/28/2019 10:50:02 AM



#38
Carbon Tetrachloride
Concen: 46.048 ug/l
RT: 7.77 min Scan# 1866
Delta R.T. 0.00 min
Lab File: VN053969.D
Acq: 26 Feb 2019 21:32

Tgt Ion	Ratio	Lower	Upper
117	100		
119	95.6	76.2	114.2
121	31.0	24.6	36.8





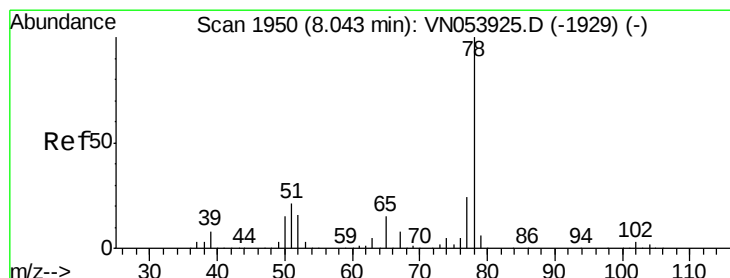
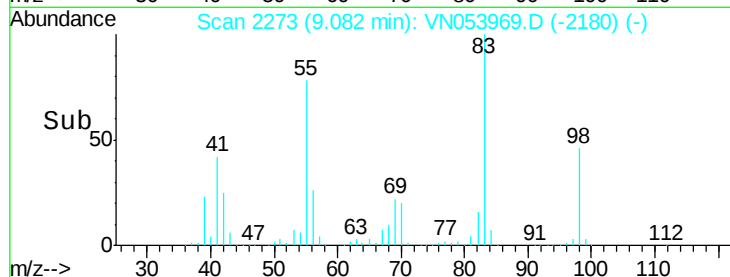
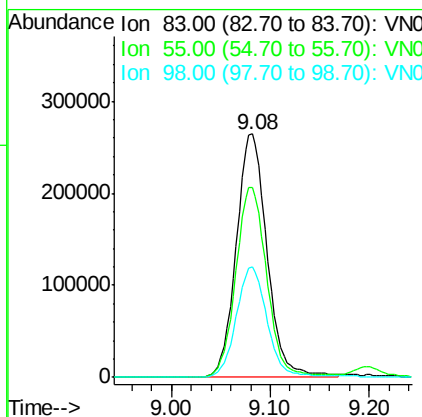
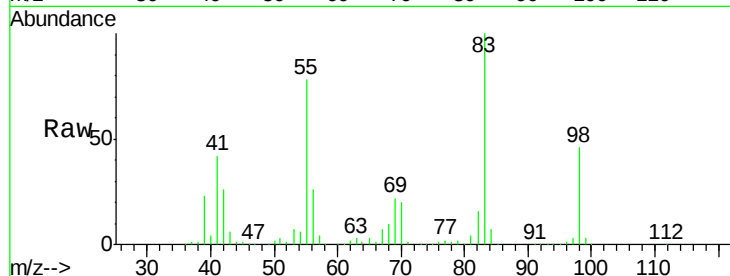
#39
Methylcyclohexane
Concen: 47.852 ug/l
RT: 9.08 min Scan# 2273
Delta R.T. 0.00 min
Lab File: VN053969.D
Acq: 26 Feb 2019 21:32

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion	Ratio	Lower	Upper
83	100		
55	78.2	58.2	87.4
98	45.6	37.2	55.8

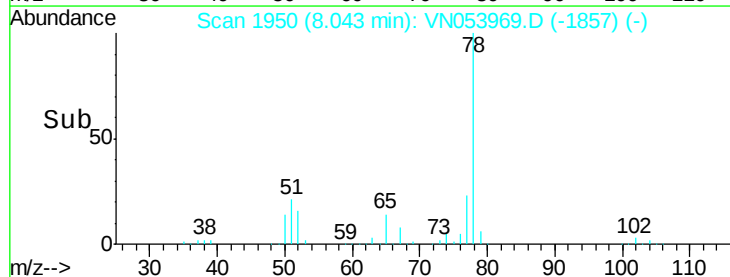
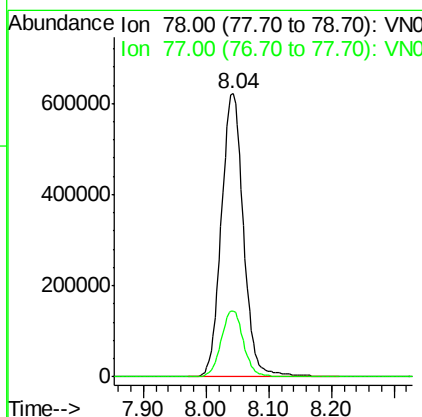
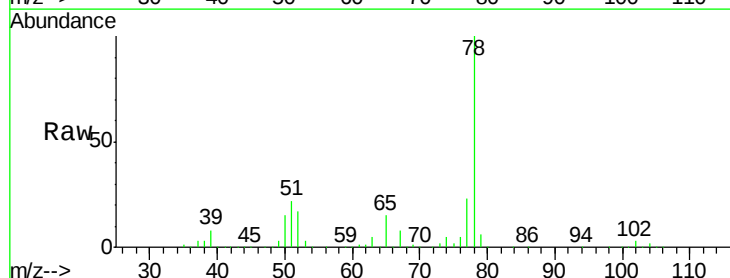
Manual Integrations
APPROVED

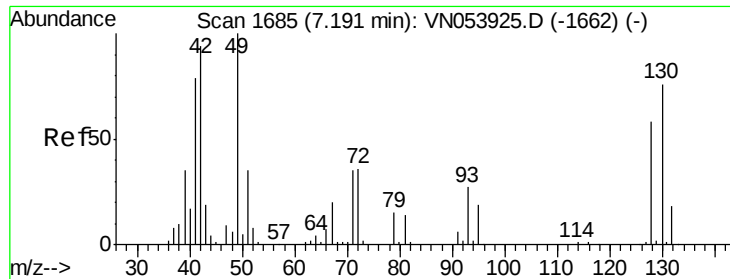
MMDadoda
2/28/2019 10:50:02 AM



#40
Benzene
Concen: 49.862 ug/l
RT: 8.04 min Scan# 1950
Delta R.T. 0.00 min
Lab File: VN053969.D
Acq: 26 Feb 2019 21:32

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.3	18.8	28.2





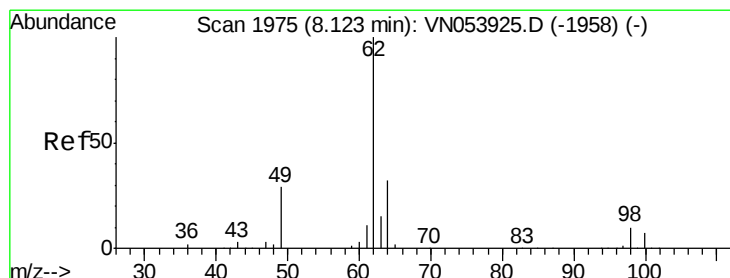
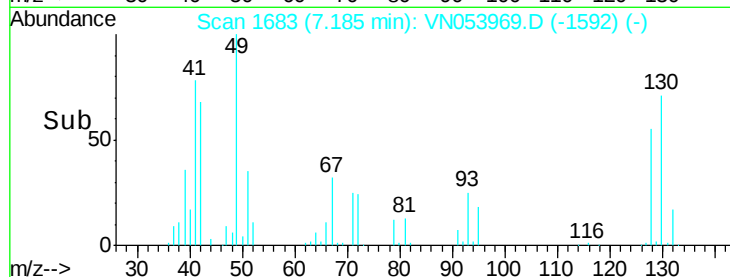
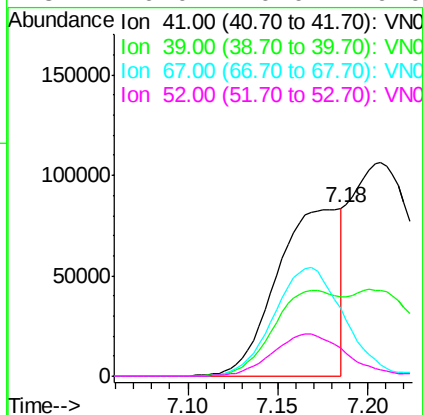
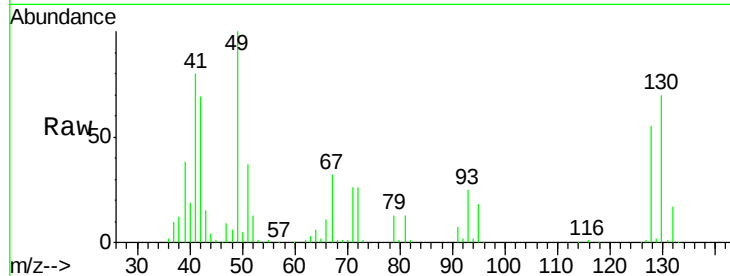
#41
Methacrylonitrile
Concen: 44.484 ug/l m
RT: 7.18 min Scan# 1683
Delta R.T. -0.01 min
Lab File: VN053969.D
Acq: 26 Feb 2019 21:32

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion	Ratio	Lower	Upper
41	100		
39	0.0	0.0	0.0
67	0.0	0.0	0.0
52	0.0	0.0	0.0

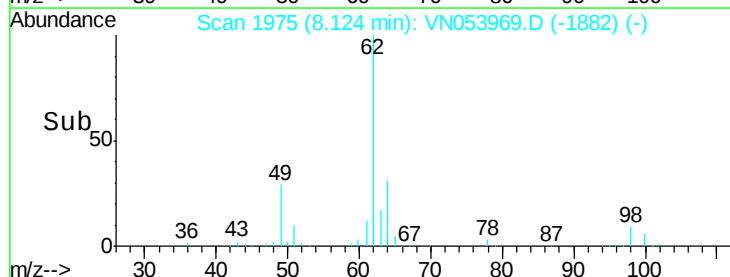
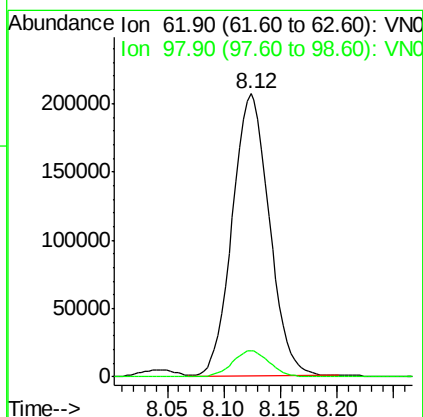
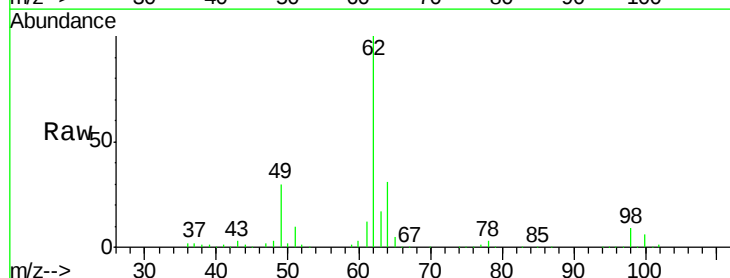
Manual Integrations
APPROVED

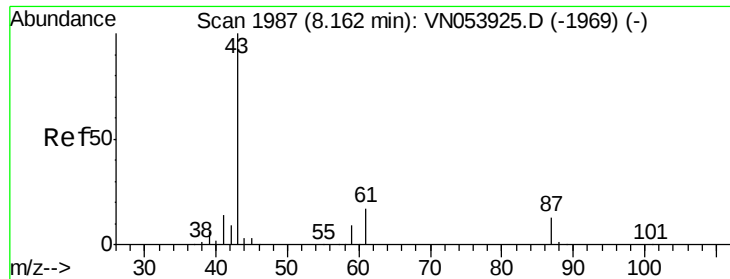
MMDadoda
2/28/2019 10:50:02 AM



#42
1,2-Dichloroethane
Concen: 49.781 ug/l
RT: 8.12 min Scan# 1975
Delta R.T. 0.00 min
Lab File: VN053969.D
Acq: 26 Feb 2019 21:32

Tgt Ion	Ratio	Lower	Upper
62	100		
98	9.5	0.0	20.8





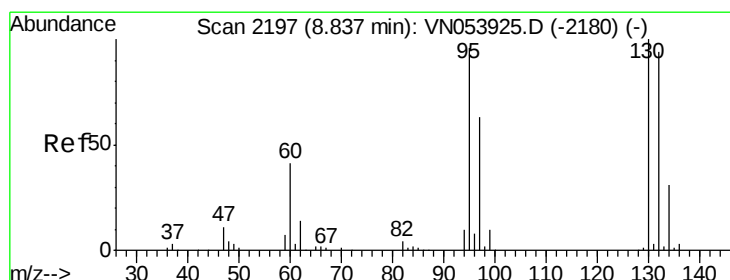
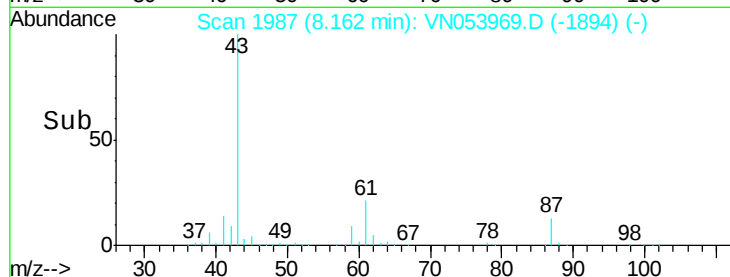
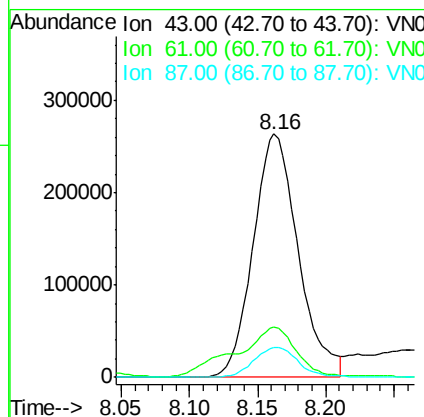
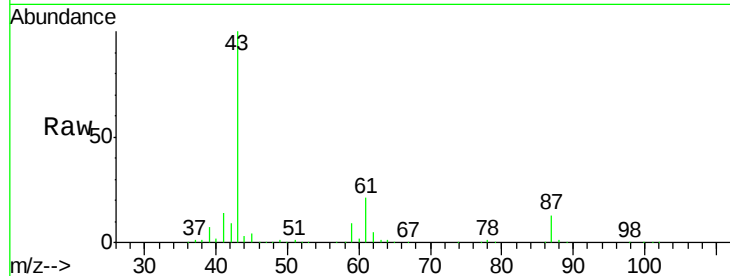
#43
Isopropyl Acetate
Concen: 50.217 ug/l
RT: 8.16 min Scan# 1987
Delta R.T. 0.00 min
Lab File: VN053969.D
Acq: 26 Feb 2019 21:32

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion	Ratio	Lower	Upper
43	100		
61	28.0	17.4	26.0
87	12.5	11.5	17.3

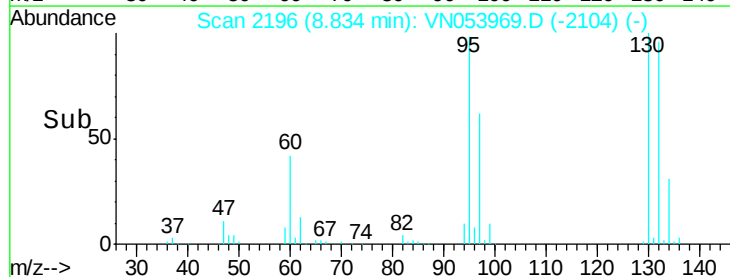
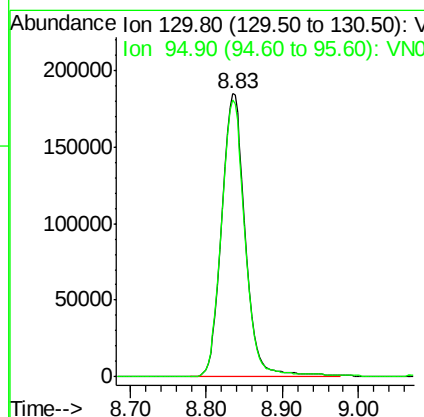
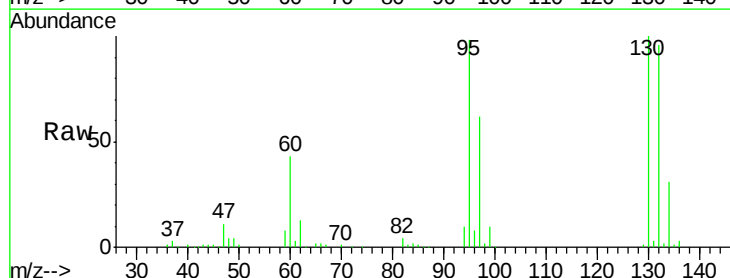
Manual Integrations
APPROVED

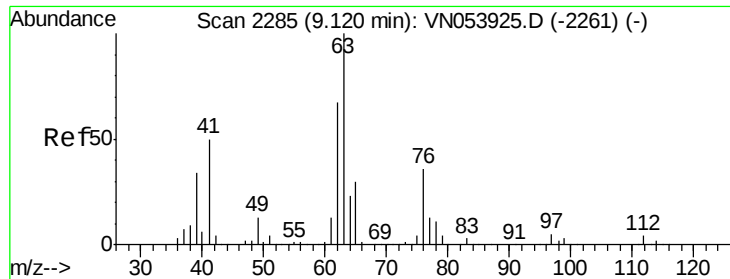
MMDadoda
2/28/2019 10:50:02 AM



#44
Trichloroethene
Concen: 49.498 ug/l
RT: 8.83 min Scan# 2196
Delta R.T. -0.00 min
Lab File: VN053969.D
Acq: 26 Feb 2019 21:32

Tgt Ion	Ratio	Lower	Upper
130	100		
95	98.1	0.0	190.0





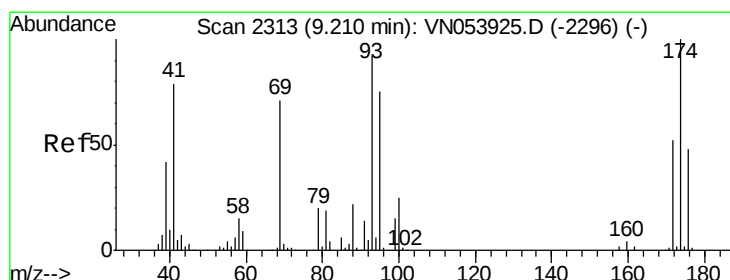
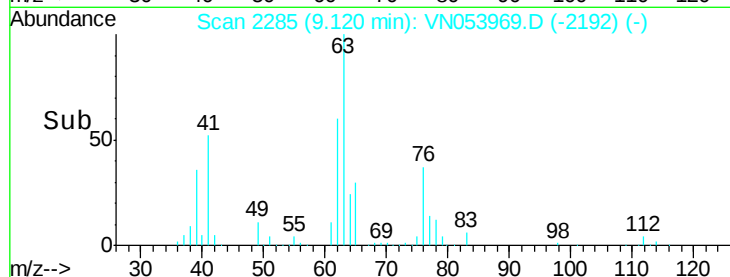
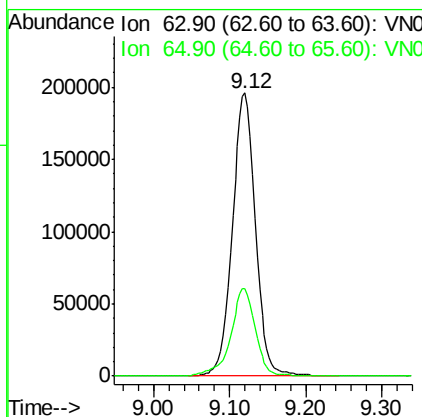
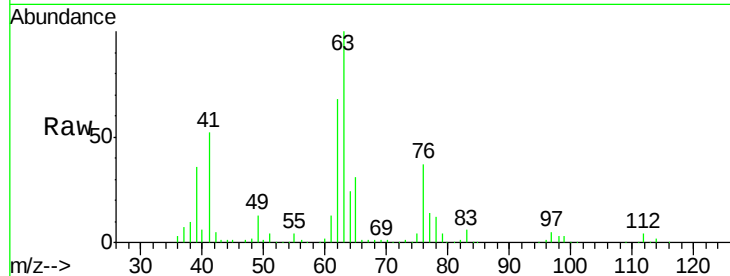
#45
 1,2-Dichloropropane
 Concen: 50.147 ug/l
 RT: 9.12 min Scan# 2285
 Delta R.T. 0.00 min
 Lab File: VN053969.D
 Acq: 26 Feb 2019 21:32

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tgt Ion: 63 Resp: 413376
 Ion Ratio Lower Upper
 63 100
 65 30.8 24.3 36.5

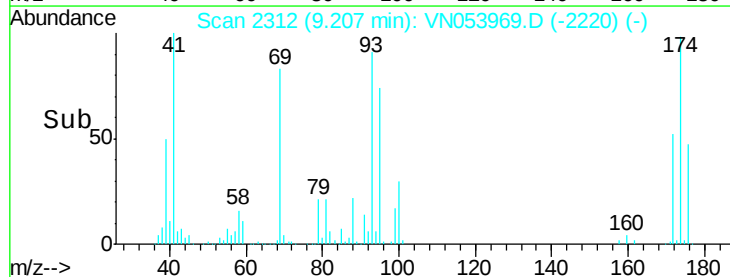
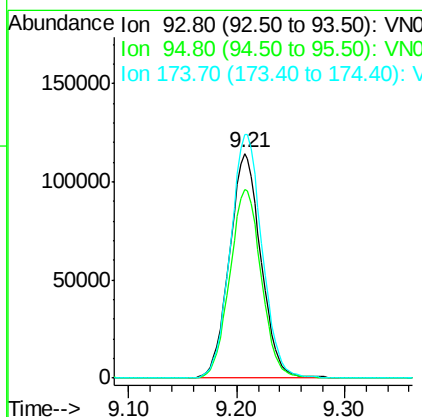
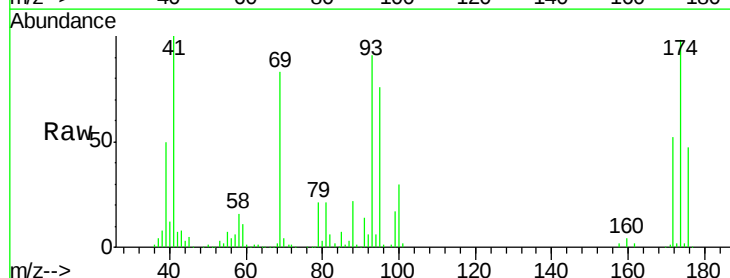
Manual Integrations
 APPROVED

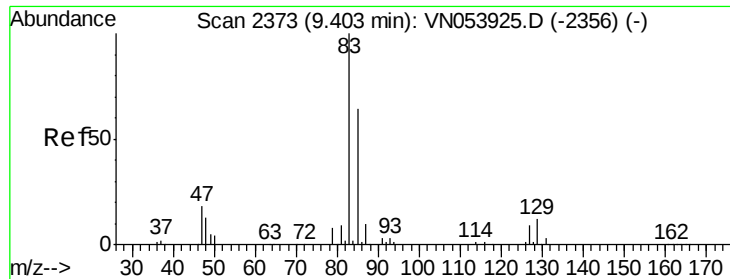
MMDadoda
 2/28/2019 10:50:02 AM



#46
 Dibromomethane
 Concen: 48.740 ug/l
 RT: 9.21 min Scan# 2312
 Delta R.T. -0.00 min
 Lab File: VN053969.D
 Acq: 26 Feb 2019 21:32

Tgt Ion: 93 Resp: 233254
 Ion Ratio Lower Upper
 93 100
 95 83.9 66.6 100.0
 174 109.0 96.2 144.4





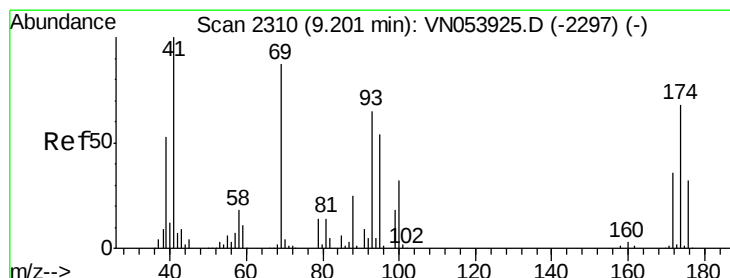
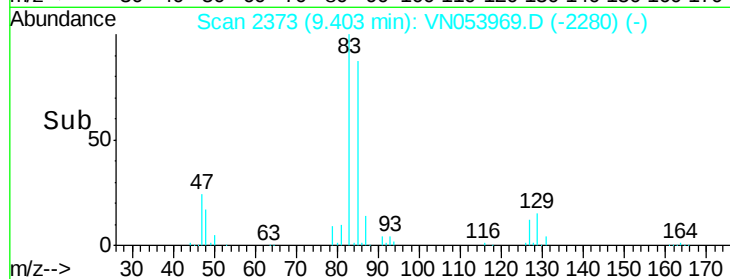
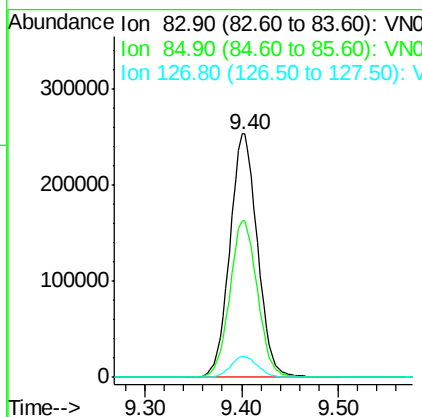
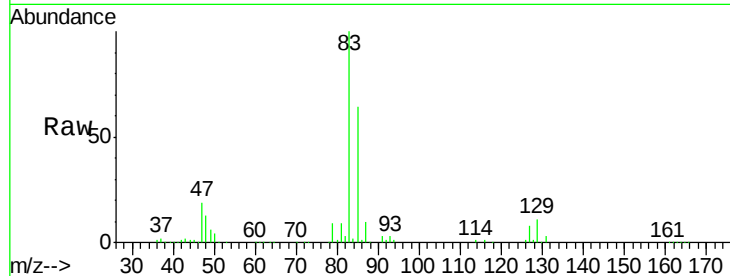
#47
Bromodichloromethane
Concen: 49.702 ug/l
RT: 9.40 min Scan# 2373
Delta R.T. 0.00 min
Lab File: VN053969.D
Acq: 26 Feb 2019 21:32

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.1	51.8	77.6
127	8.5	7.4	11.0

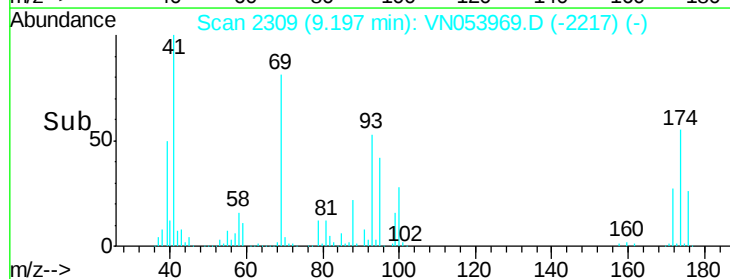
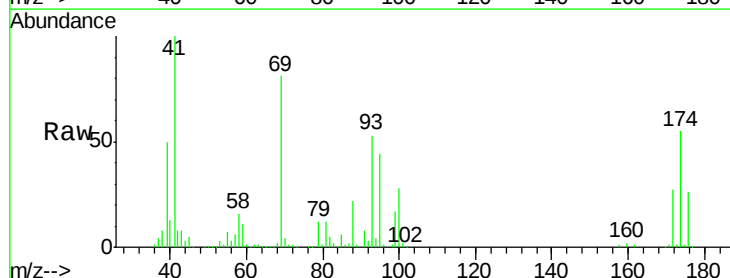
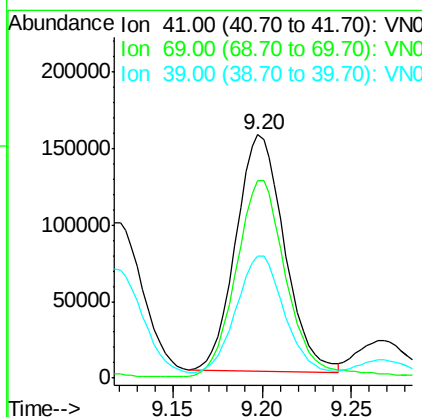
Manual Integrations
APPROVED

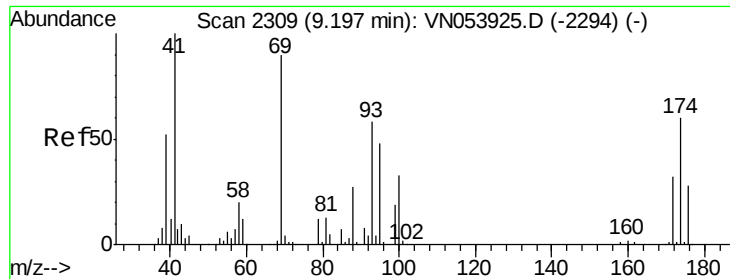
MMDadoda
2/28/2019 10:50:02 AM



#48
Methyl methacrylate
Concen: 52.960 ug/l
RT: 9.20 min Scan# 2309
Delta R.T. -0.00 min
Lab File: VN053969.D
Acq: 26 Feb 2019 21:32

Tgt Ion	Ratio	Lower	Upper
41	100		
69	88.4	74.8	112.2
39	53.6	39.0	58.6





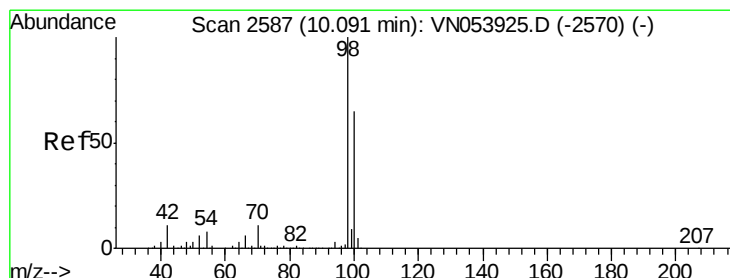
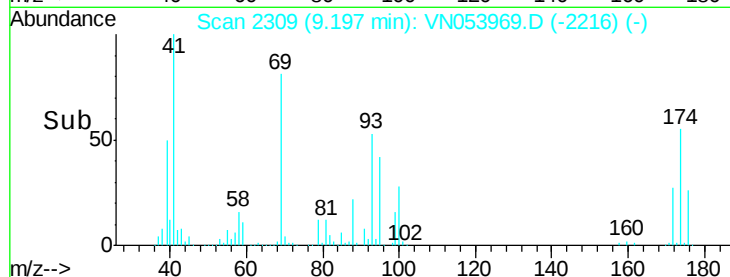
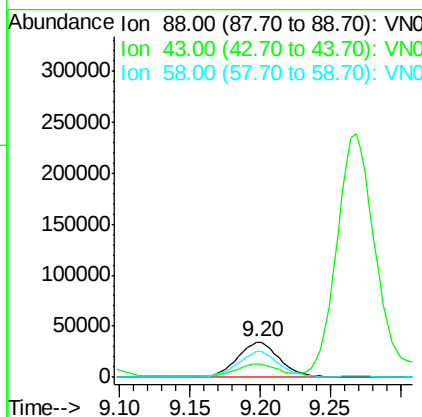
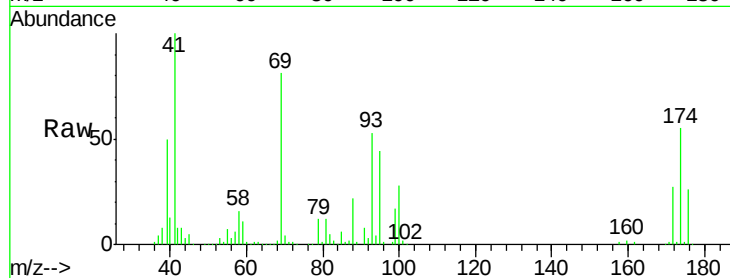
#49
1,4-Dioxane
Concen: 968.391 ug/l
RT: 9.20 min Scan# 2309
Delta R.T. 0.00 min
Lab File: VN053969.D
Acq: 26 Feb 2019 21:32

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 88 Resp: 72340
Ion Ratio Lower Upper
88 100
43 33.0 21.2 31.8#
58 72.4 54.2 81.2

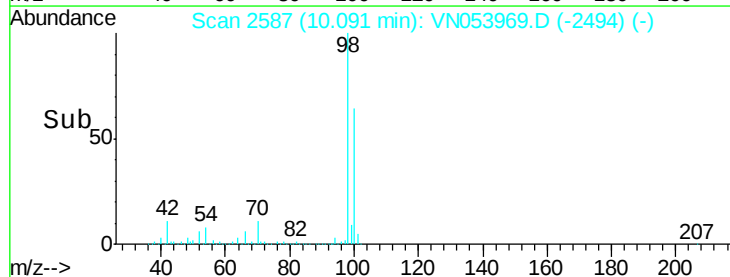
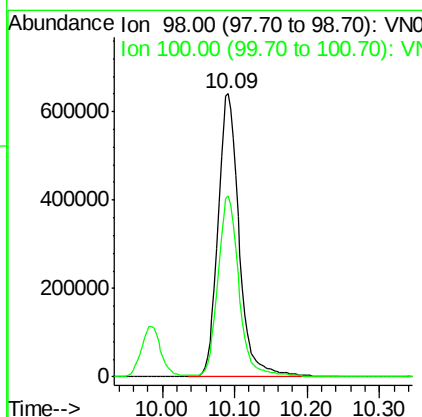
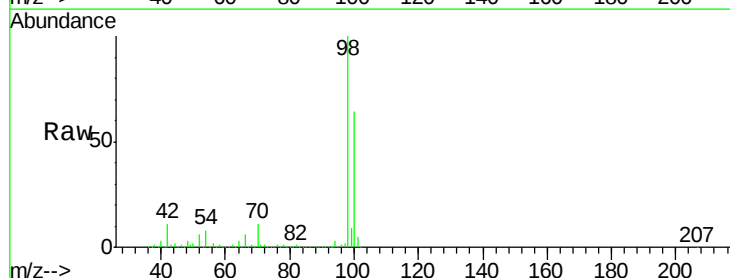
Manual Integrations
APPROVED

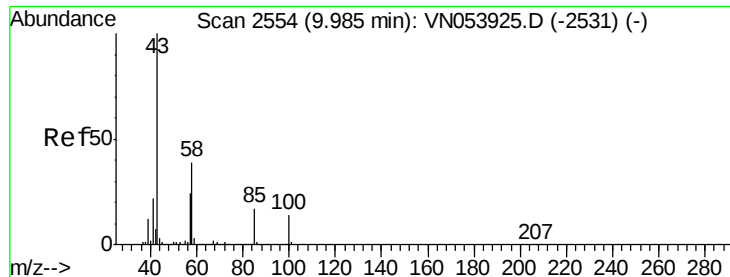
MMDadoda
2/28/2019 10:50:02 AM



#50
Toluene-d8
Concen: 50.269 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN053969.D
Acq: 26 Feb 2019 21:32

Tgt Ion: 98 Resp: 1294170
Ion Ratio Lower Upper
98 100
100 64.0 51.9 77.9





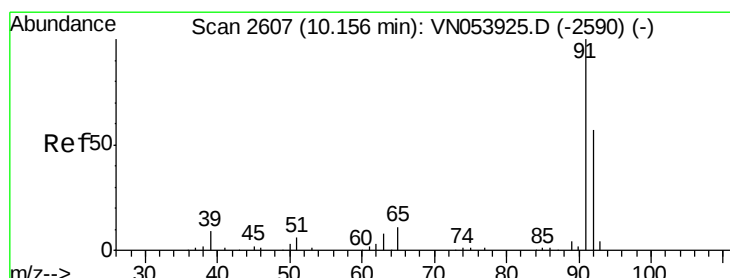
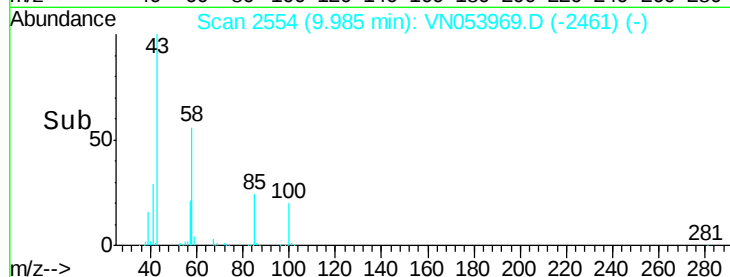
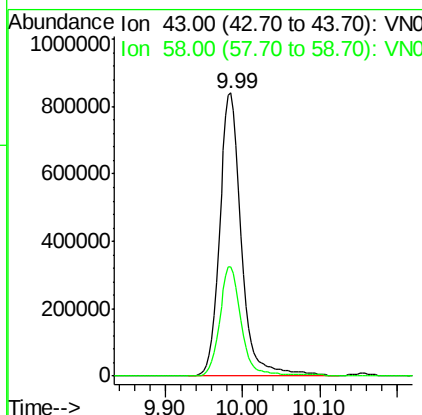
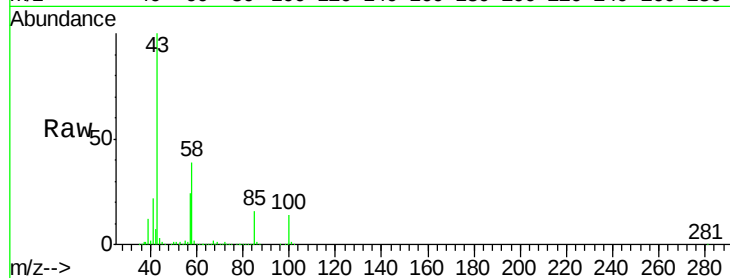
#51
4-Methyl-2-Pentanone
Concen: 265.940 ug/l
RT: 9.99 min Scan# 2554
Delta R.T. 0.00 min
Lab File: VN053969.D
Acq: 26 Feb 2019 21:32

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 1638608
Ion Ratio Lower Upper
43 100
58 38.4 32.7 49.1

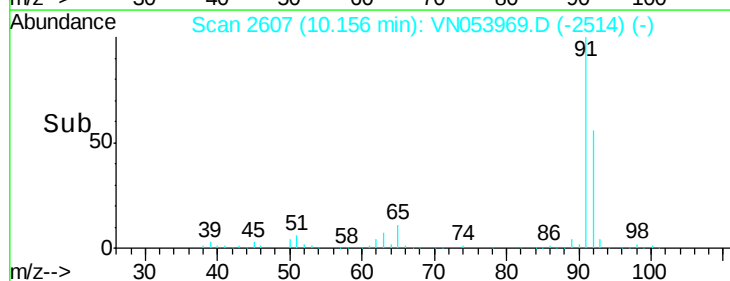
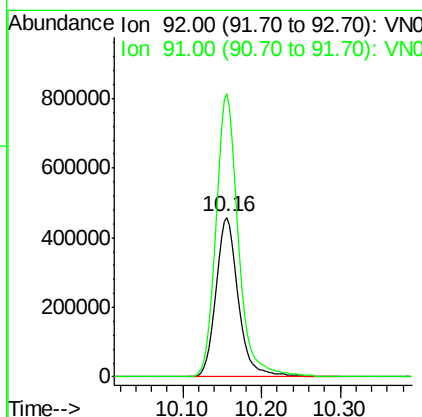
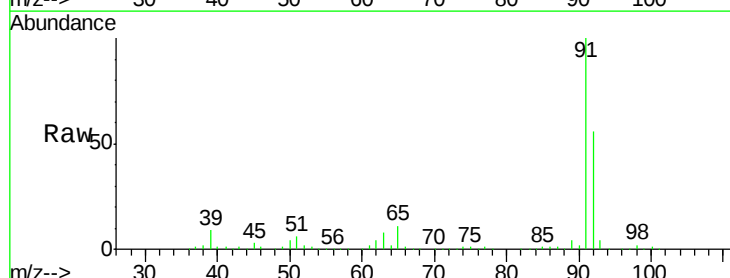
Manual Integrations
APPROVED

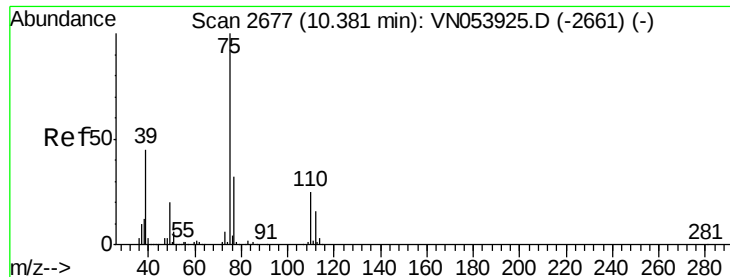
MMDadoda
2/28/2019 10:50:02 AM



#52
Toluene
Concen: 49.932 ug/l
RT: 10.16 min Scan# 2607
Delta R.T. 0.00 min
Lab File: VN053969.D
Acq: 26 Feb 2019 21:32

Tgt Ion: 92 Resp: 898328
Ion Ratio Lower Upper
92 100
91 177.1 138.4 207.6





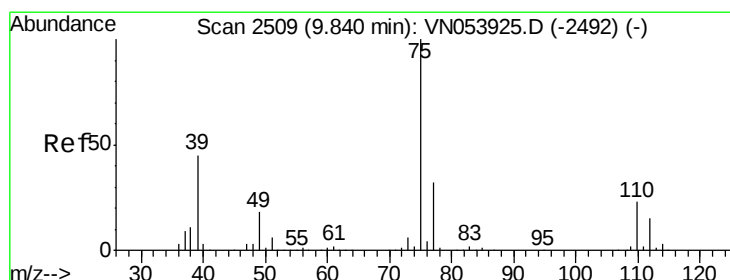
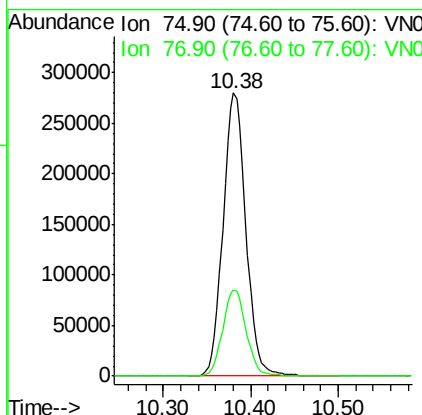
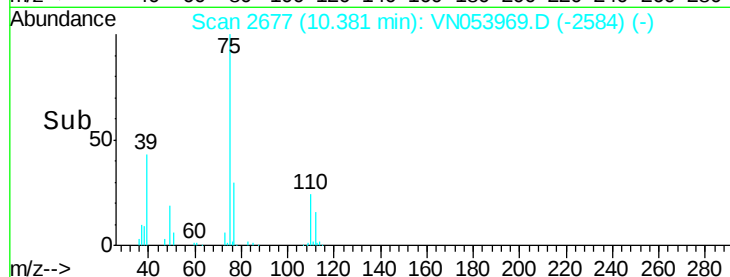
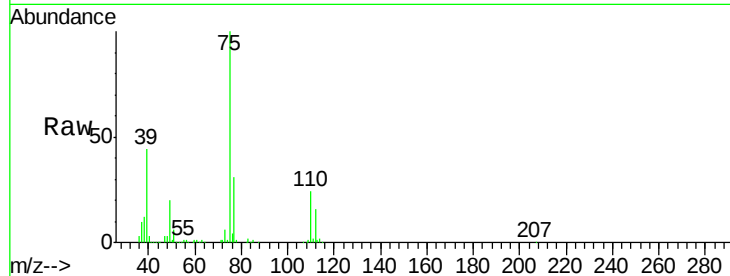
#53
t-1,3-Dichloropropene
Concen: 51.580 ug/l
RT: 10.38 min Scan# 2677
Delta R.T. 0.00 min
Lab File: VN053969.D
Acq: 26 Feb 2019 21:32

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 75 Resp: 506160
Ion Ratio Lower Upper
75 100
77 30.5 25.0 37.6

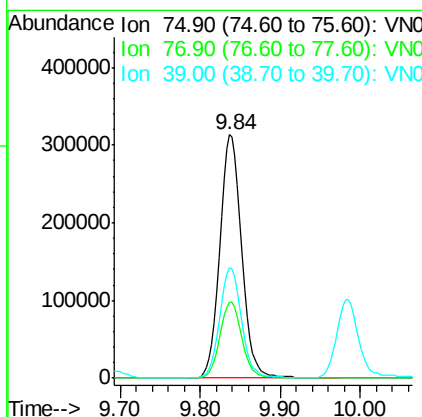
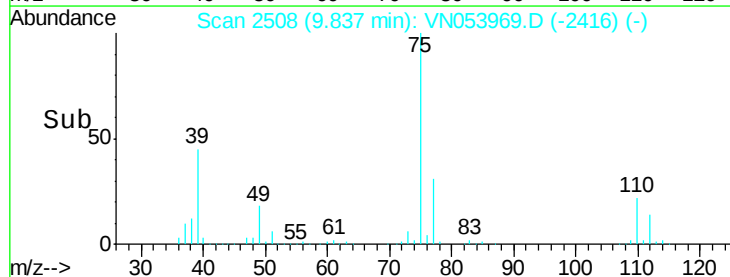
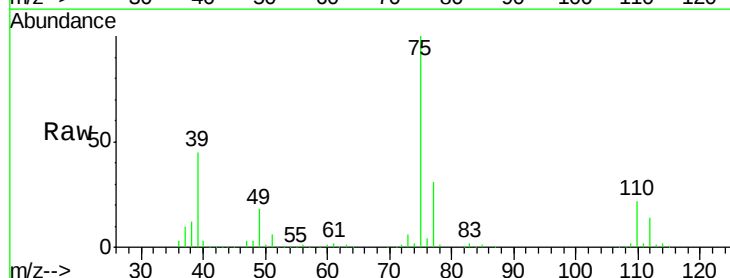
Manual Integrations
APPROVED

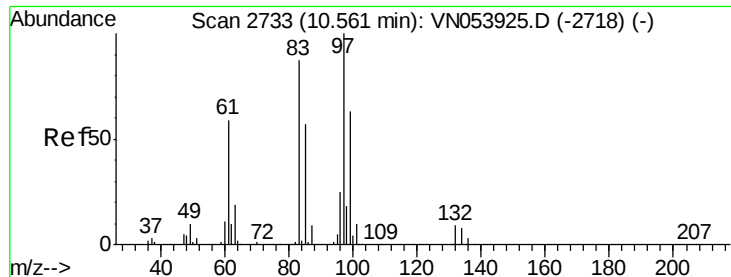
MMDadoda
2/28/2019 10:50:02 AM



#54
cis-1,3-Dichloropropene
Concen: 51.310 ug/l
RT: 9.84 min Scan# 2508
Delta R.T. -0.00 min
Lab File: VN053969.D
Acq: 26 Feb 2019 21:32

Tgt Ion: 75 Resp: 593577
Ion Ratio Lower Upper
75 100
77 31.1 25.8 38.6
39 45.1 31.4 47.0





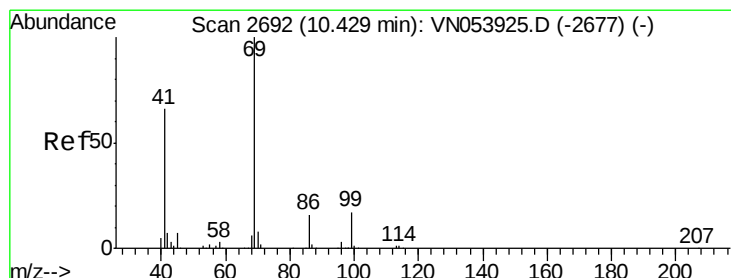
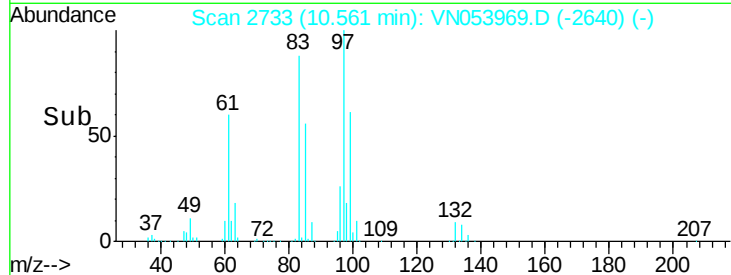
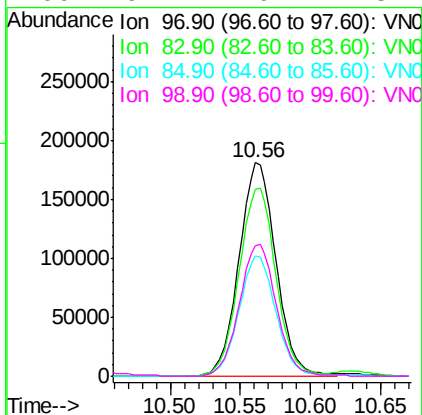
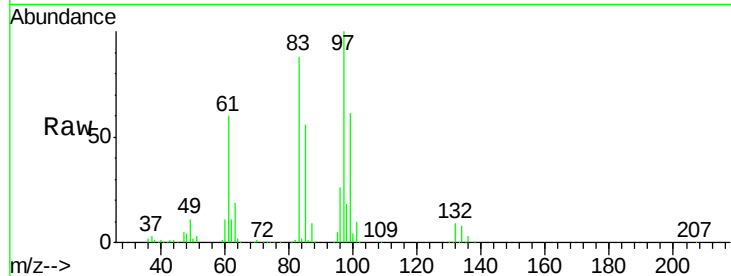
#55
 1,1,2-Trichloroethane
 Concen: 49.504 ug/l
 RT: 10.56 min Scan# 2733
 Delta R.T. 0.00 min
 Lab File: VN053969.D
 Acq: 26 Feb 2019 21:32

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tgt Ion:	97	Resp:	332617
Ion	Ratio	Lower	Upper
97	100		
83	87.6	69.5	104.3
85	56.2	45.9	68.9
99	61.2	49.1	73.7

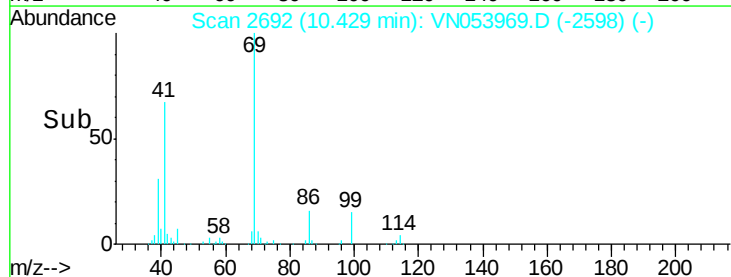
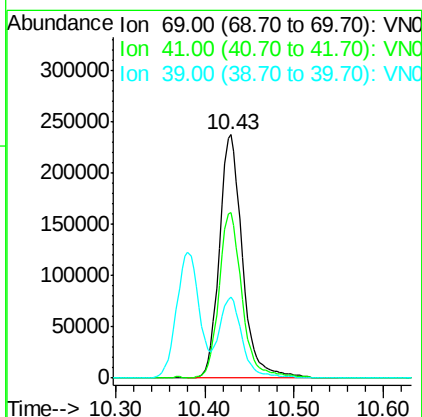
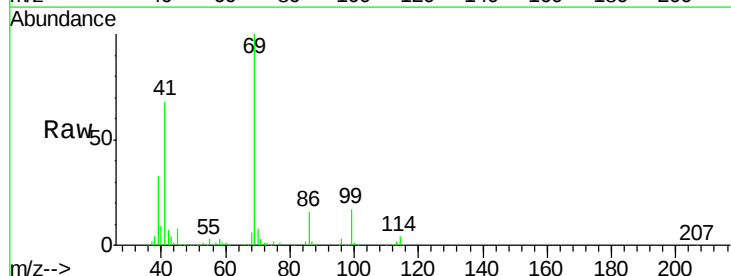
Manual Integrations
 APPROVED

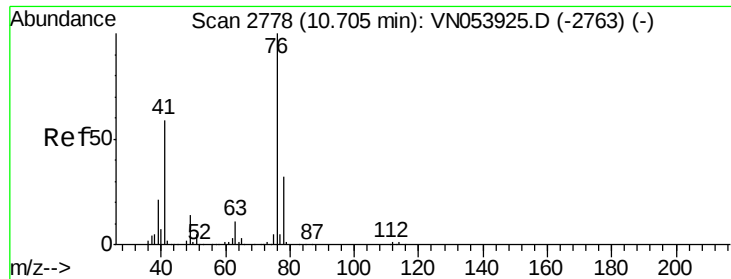
MMDadoda
 2/28/2019 10:50:02 AM



#56
 Ethyl methacrylate
 Concen: 48.392 ug/l
 RT: 10.43 min Scan# 2692
 Delta R.T. 0.00 min
 Lab File: VN053969.D
 Acq: 26 Feb 2019 21:32

Tgt Ion:	69	Resp:	425755
Ion	Ratio	Lower	Upper
69	100		
41	67.7	47.5	71.3
39	33.0	23.4	35.0





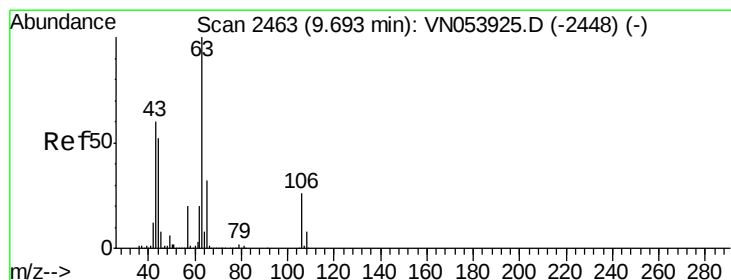
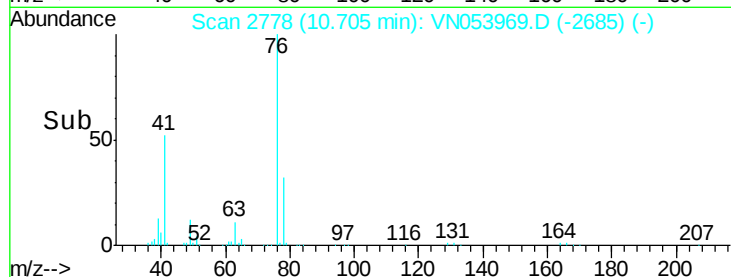
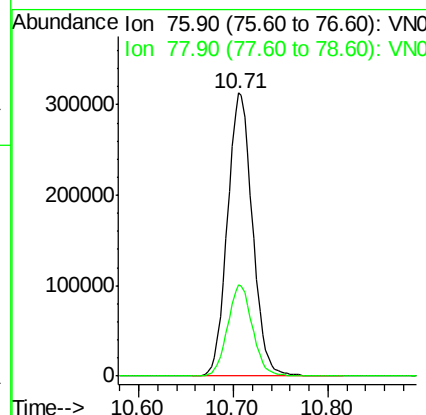
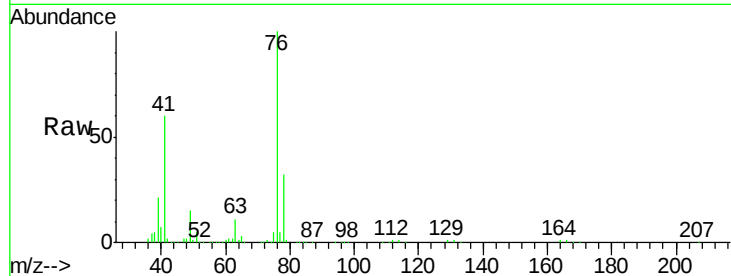
#57
 1,3-Dichloropropane
 Concen: 50.659 ug/l
 RT: 10.71 min Scan# 2778
 Delta R.T. 0.00 min
 Lab File: VN053969.D
 Acq: 26 Feb 2019 21:32

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tgt Ion: 76 Resp: 575106
 Ion Ratio Lower Upper
 76 100
 78 32.2 25.2 37.8

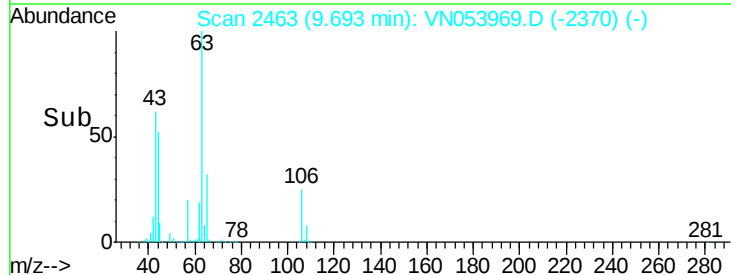
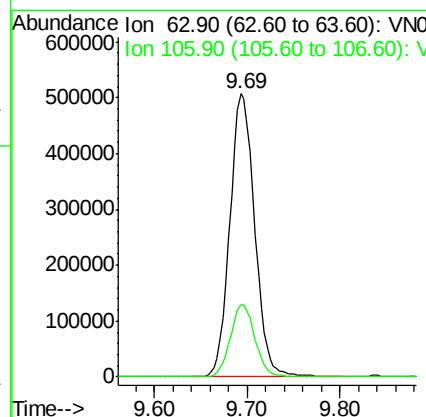
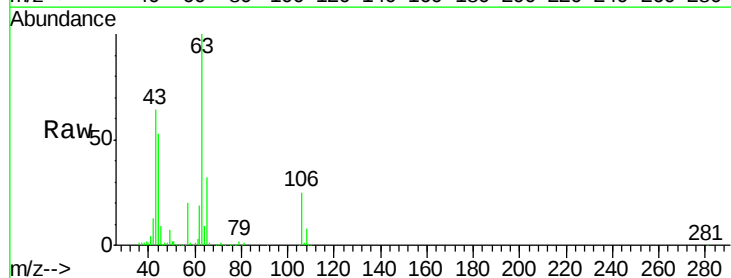
Manual Integrations
 APPROVED

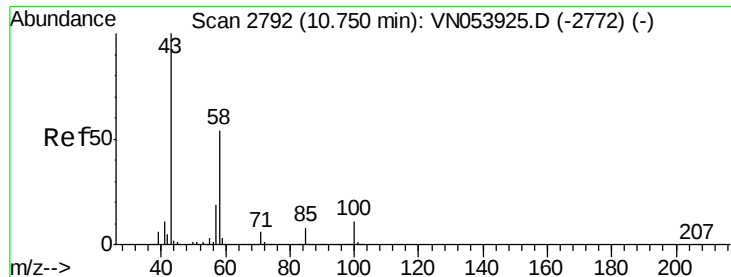
MMDadoda
 2/28/2019 10:50:02 AM



#58
 2-Chloroethyl Vinyl ether
 Concen: 231.083 ug/l
 RT: 9.69 min Scan# 2463
 Delta R.T. 0.00 min
 Lab File: VN053969.D
 Acq: 26 Feb 2019 21:32

Tgt Ion: 63 Resp: 943358
 Ion Ratio Lower Upper
 63 100
 106 25.3 22.2 33.2





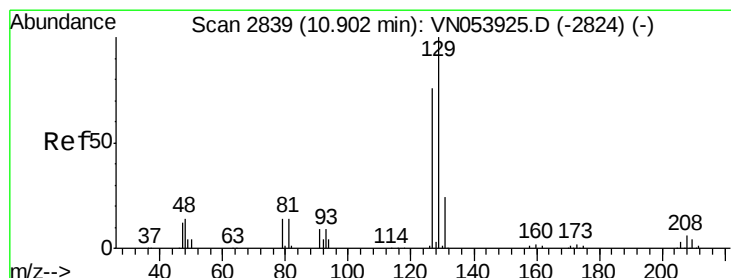
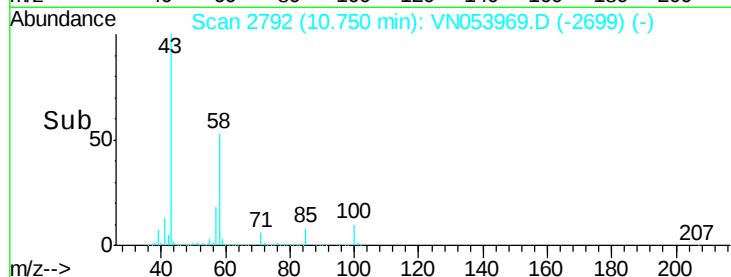
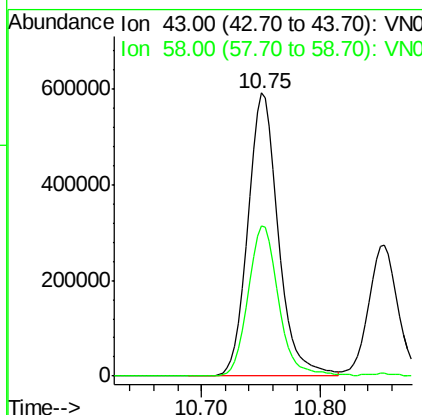
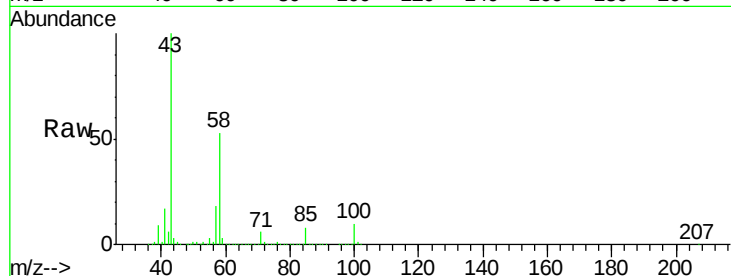
#59
2-Hexanone
Concen: 260.511 ug/l
RT: 10.75 min Scan# 2792
Delta R.T. 0.00 min
Lab File: VN053969.D
Acq: 26 Feb 2019 21:32

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 1043966
Ion Ratio Lower Upper
43 100
58 53.4 29.1 87.4

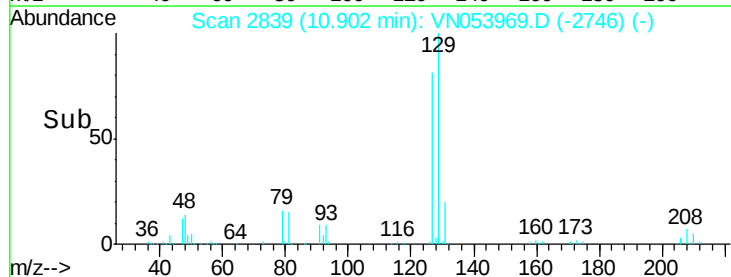
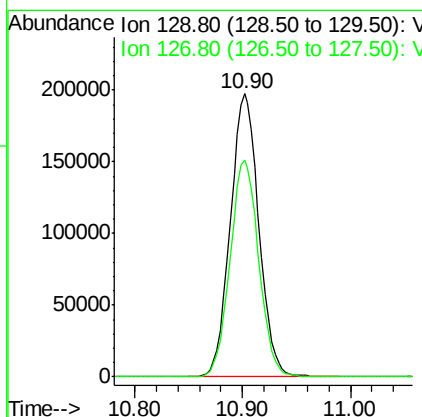
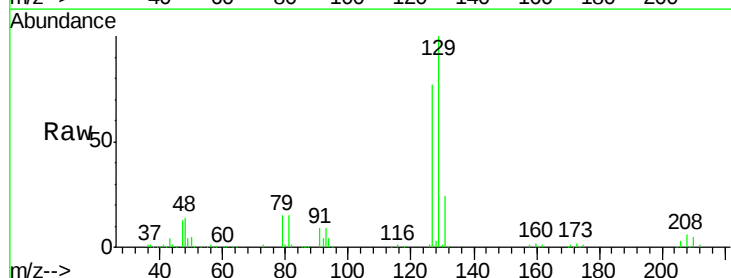
Manual Integrations
APPROVED

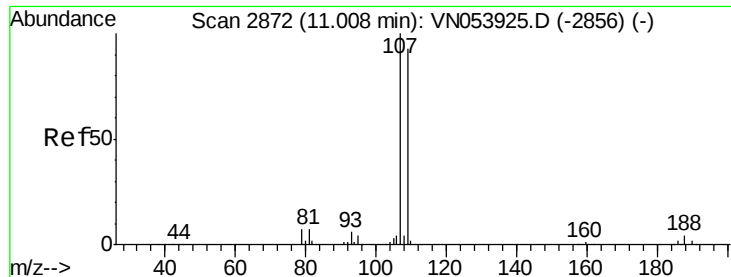
MMDadoda
2/28/2019 10:50:02 AM



#60
Dibromochloromethane
Concen: 48.668 ug/l
RT: 10.90 min Scan# 2839
Delta R.T. 0.00 min
Lab File: VN053969.D
Acq: 26 Feb 2019 21:32

Tgt Ion: 129 Resp: 363414
Ion Ratio Lower Upper
129 100
127 77.0 38.8 116.3





#61

1,2-Dibromoethane

Concen: 50.008 ug/l

RT: 11.00 min Scan# 2871

Delta R.T. -0.00 min

Lab File: VN053969.D

Acq: 26 Feb 2019 21:32

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 107 Resp: 324123

Ion Ratio Lower Upper

107 100

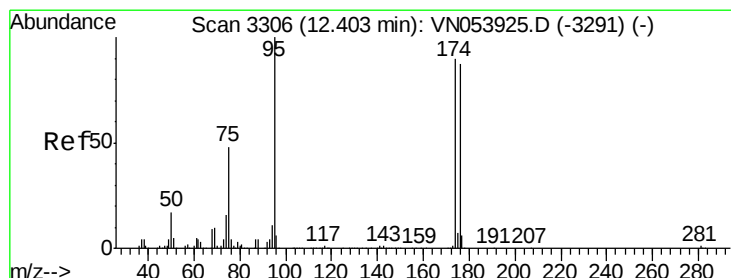
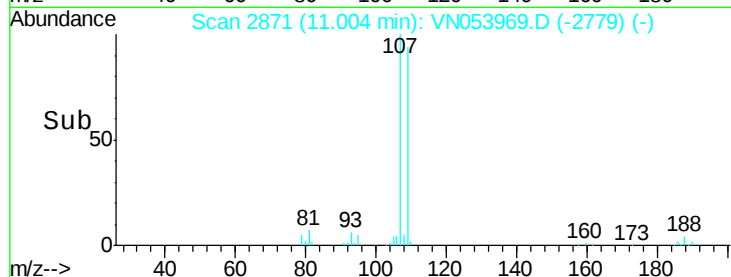
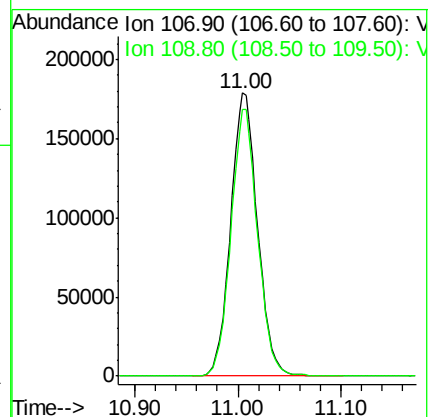
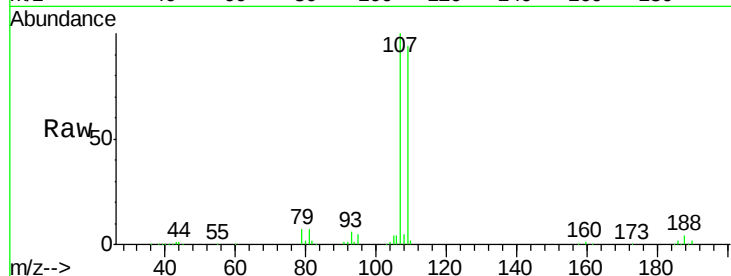
109 93.7 76.3 114.5

Manual Integrations

APPROVED

MMDadoda

2/28/2019 10:50:02 AM



#62

4-Bromofluorobenzene

Concen: 50.519 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN053969.D

Acq: 26 Feb 2019 21:32

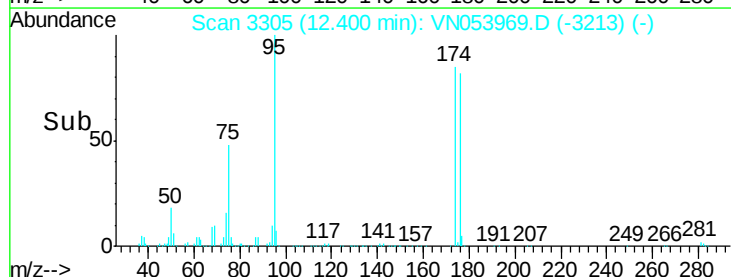
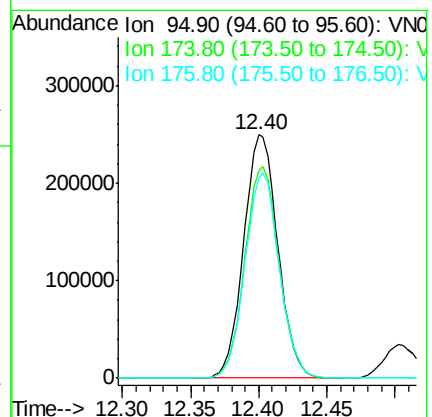
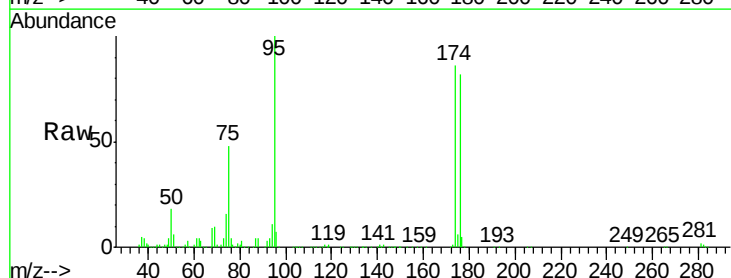
Tgt Ion: 95 Resp: 433325

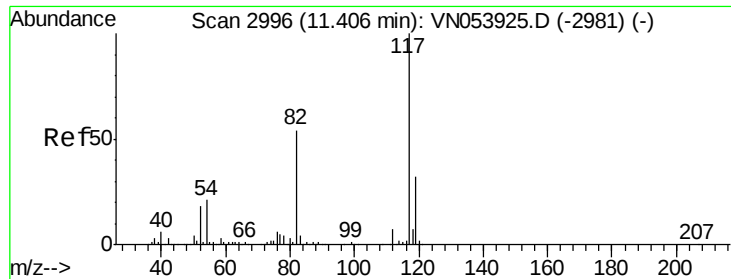
Ion Ratio Lower Upper

95 100

174 87.4 0.0 188.8

176 84.5 0.0 182.6





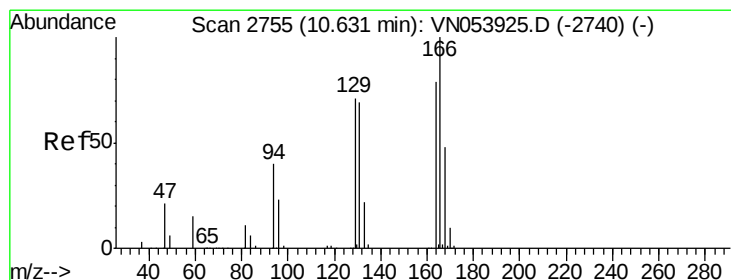
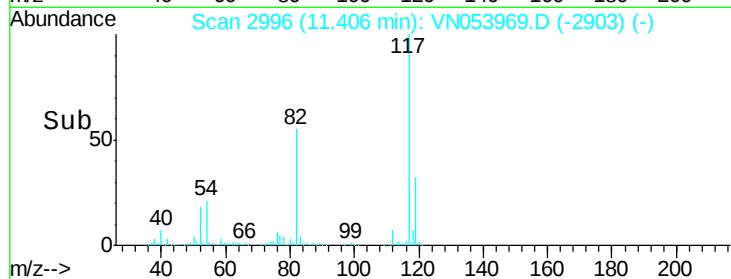
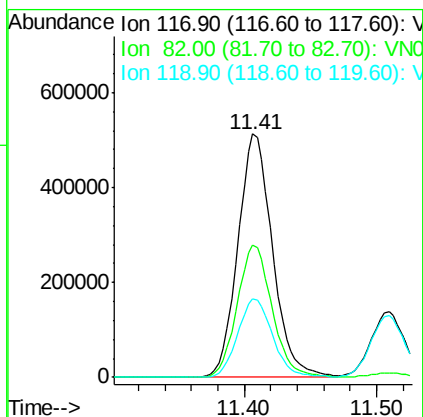
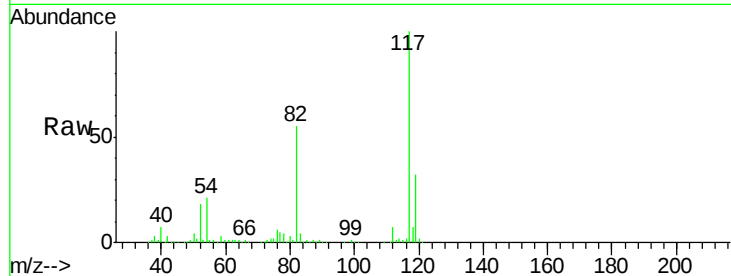
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN053969.D
Acq: 26 Feb 2019 21:32

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	933859		
82	54.5	41.4	62.2	
119	32.4	25.3	37.9	

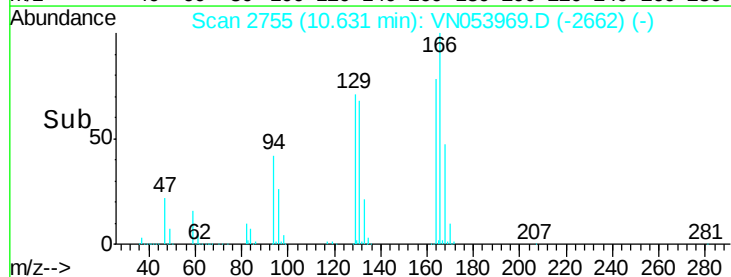
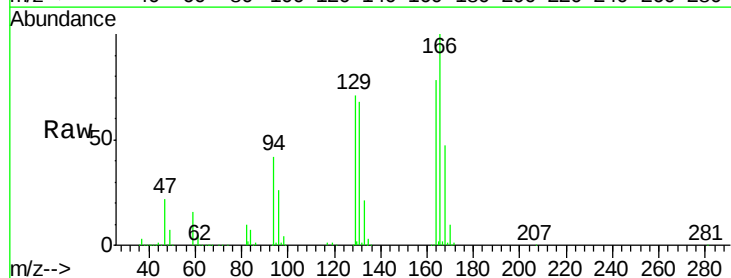
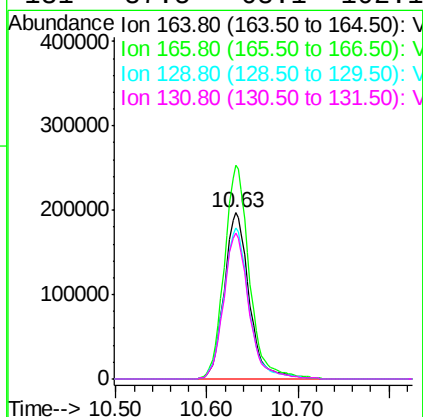
Manual Integrations
APPROVED

MMDadoda
2/28/2019 10:50:02 AM



#64
Tetrachloroethene
Concen: 47.796 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. 0.00 min
Lab File: VN053969.D
Acq: 26 Feb 2019 21:32

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	377959		
166	128.5	102.6	153.8	
129	91.2	69.4	104.0	
131	87.5	68.1	102.1	





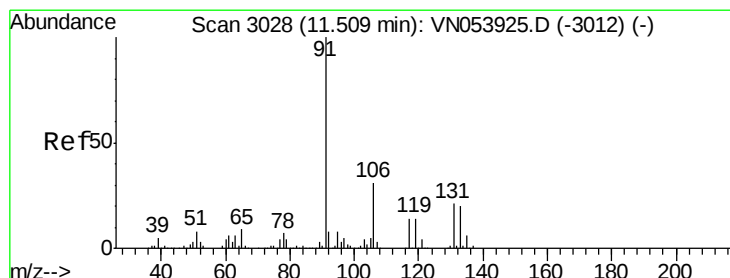
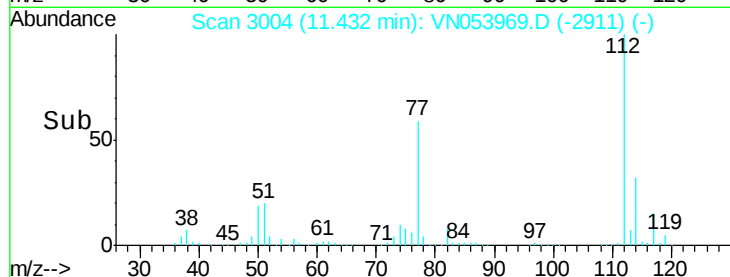
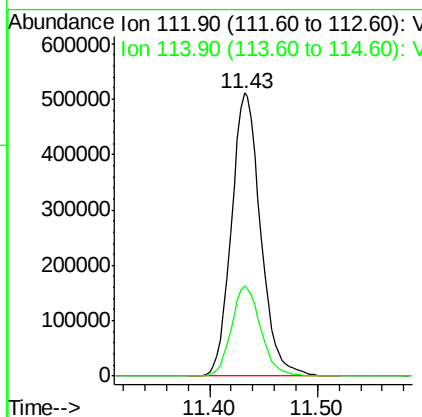
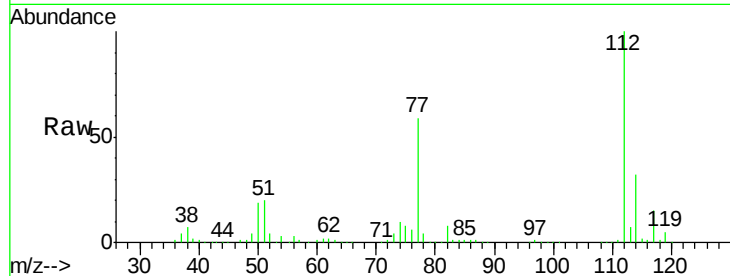
#65
Chlorobenzene
Concen: 48.816 ug/l
RT: 11.43 min Scan# 3004
Delta R.T. 0.00 min
Lab File: VN053969.D
Acq: 26 Feb 2019 21:32

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion:112 Resp: 962103
Ion Ratio Lower Upper
112 100
114 31.8 25.7 38.5

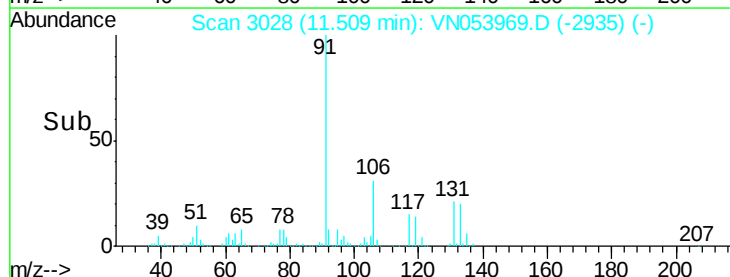
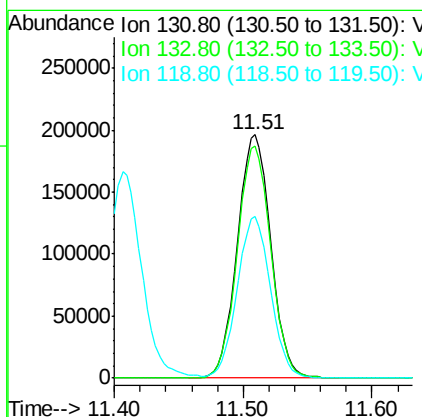
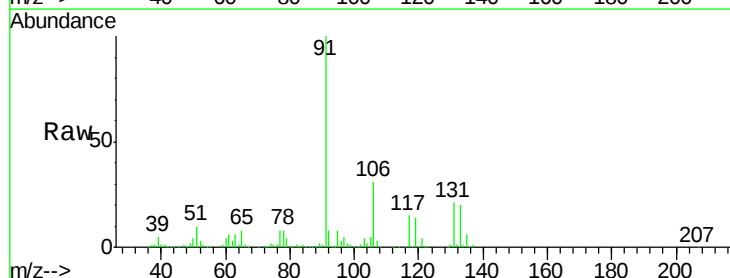
Manual Integrations
APPROVED

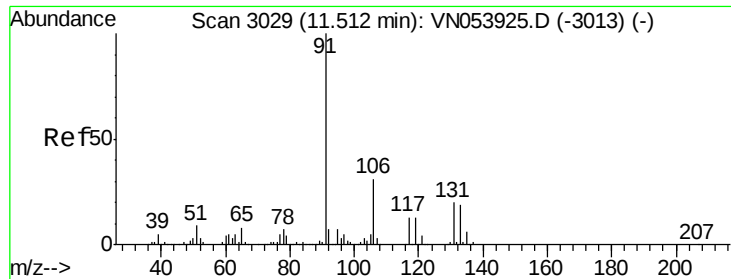
MMDadoda
2/28/2019 10:50:02 AM



#66
1,1,1,2-Tetrachloroethane
Concen: 49.897 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. 0.00 min
Lab File: VN053969.D
Acq: 26 Feb 2019 21:32

Tgt Ion:131 Resp: 354425
Ion Ratio Lower Upper
131 100
133 95.4 47.7 143.1
119 66.2 33.1 99.3





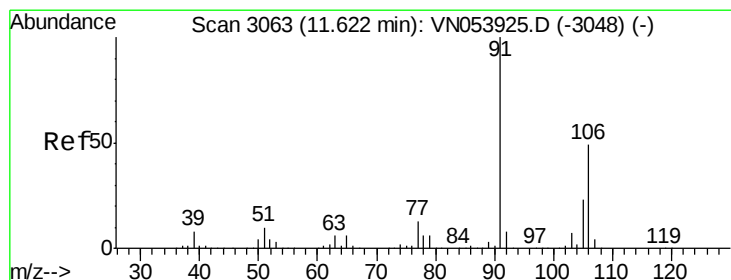
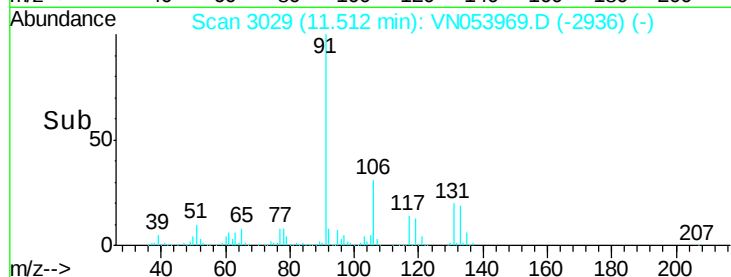
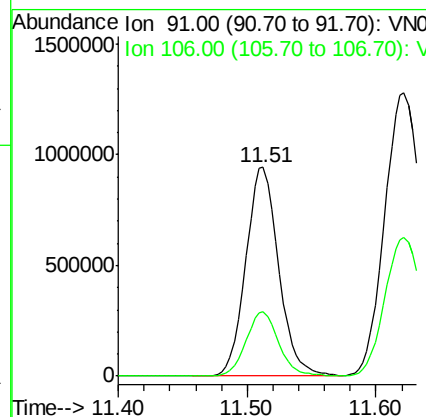
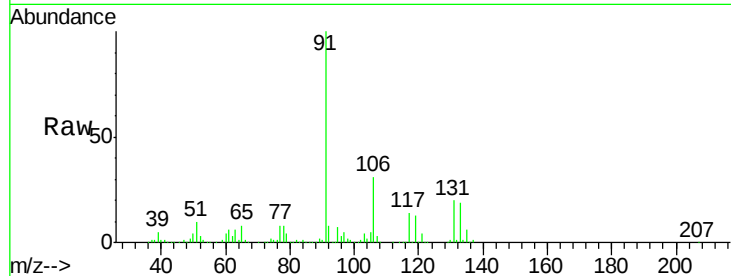
#67
Ethyl Benzene
Concen: 50.758 ug/l
RT: 11.51 min Scan# 3029
Delta R.T. 0.00 min
Lab File: VN053969.D
Acq: 26 Feb 2019 21:32

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 91 Resp: 1677066
Ion Ratio Lower Upper
91 100
106 30.8 25.2 37.8

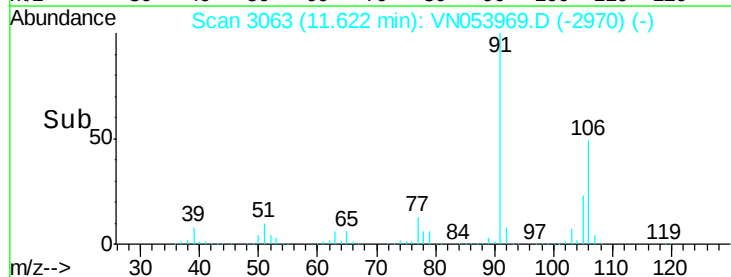
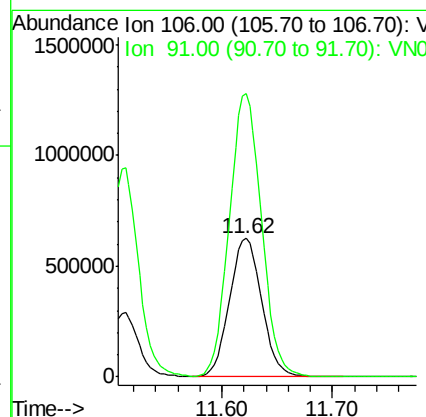
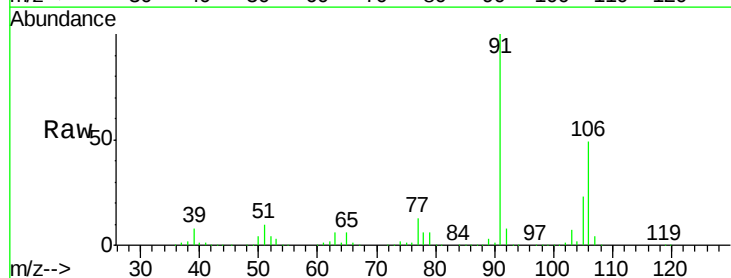
Manual Integrations
APPROVED

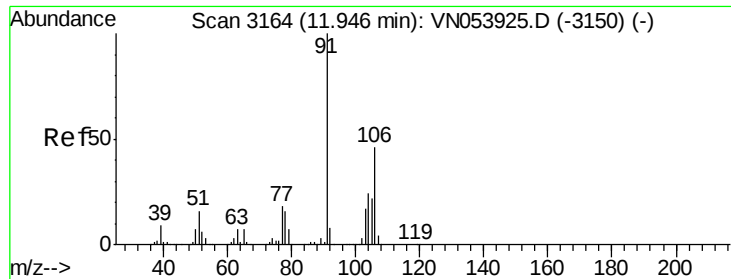
MMDadoda
2/28/2019 10:50:02 AM



#68
m/p-Xylenes
Concen: 101.648 ug/l
RT: 11.62 min Scan# 3063
Delta R.T. 0.00 min
Lab File: VN053969.D
Acq: 26 Feb 2019 21:32

Tgt Ion: 106 Resp: 1267576
Ion Ratio Lower Upper
106 100
91 203.9 158.9 238.3





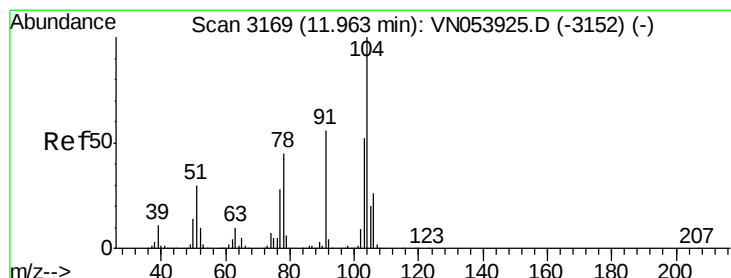
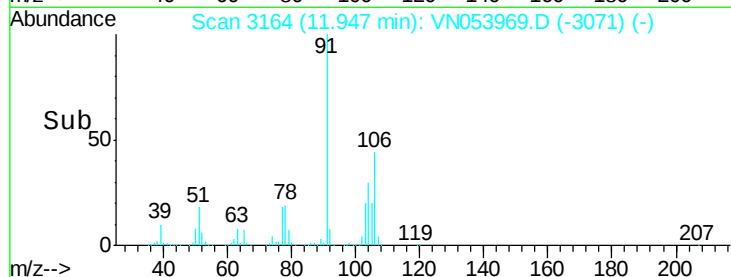
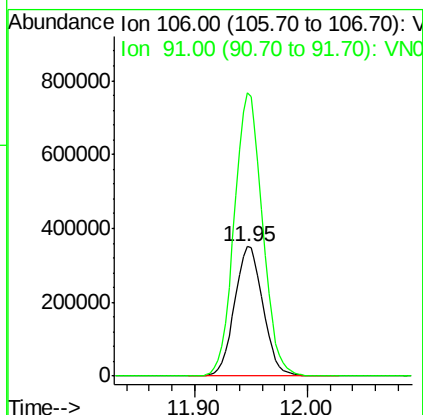
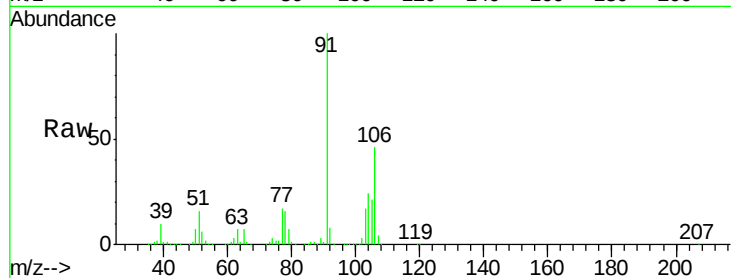
#69
o-Xylene
Concen: 50.098 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. 0.00 min
Lab File: VN053969.D
Acq: 26 Feb 2019 21:32

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion:106 Resp: 613852
Ion Ratio Lower Upper
106 100
91 217.0 106.0 318.0

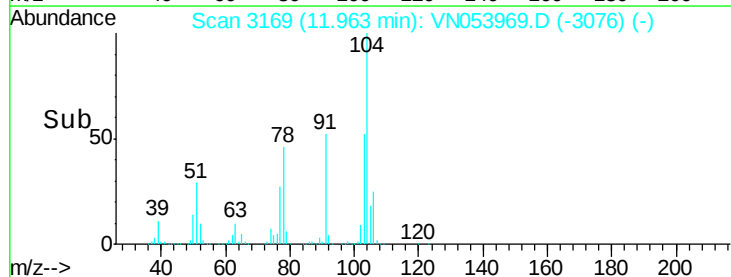
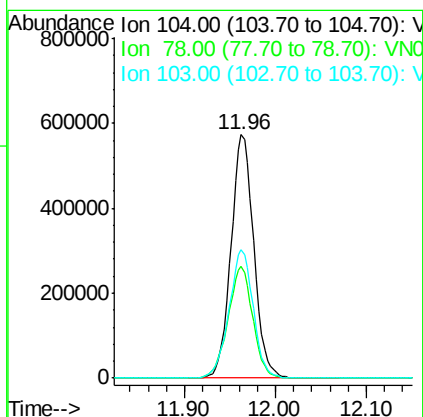
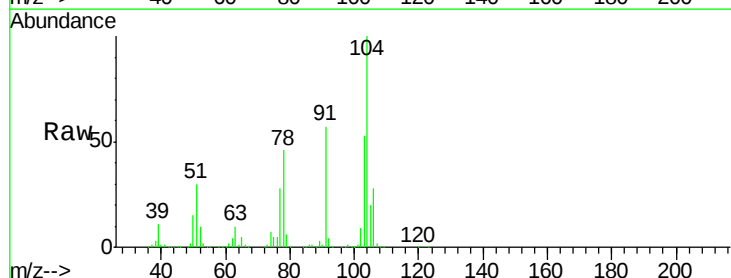
Manual Integrations
APPROVED

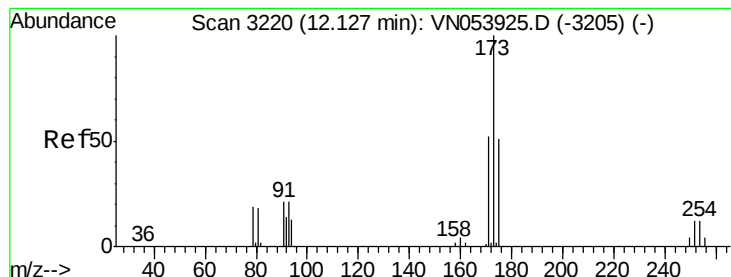
MMDadoda
2/28/2019 10:50:02 AM



#70
Styrene
Concen: 52.856 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. 0.00 min
Lab File: VN053969.D
Acq: 26 Feb 2019 21:32

Tgt Ion:104 Resp: 996136
Ion Ratio Lower Upper
104 100
78 49.7 38.1 57.1
103 56.2 44.6 67.0





#71

Bromoform

Concen: 49.298 ug/l

RT: 12.13 min Scan# 3220

Delta R.T. 0.00 min

Lab File: VN053969.D

Acq: 26 Feb 2019 21:32

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion:173 Resp: 243610

Ion Ratio Lower Upper

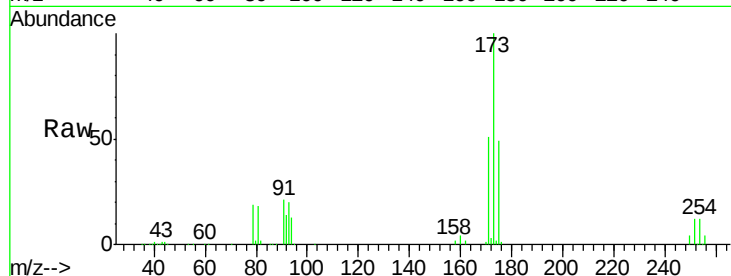
173 100

175 48.5 24.3 72.8

254 0.1 0.2 0.2#

Manual Integrations
APPROVED

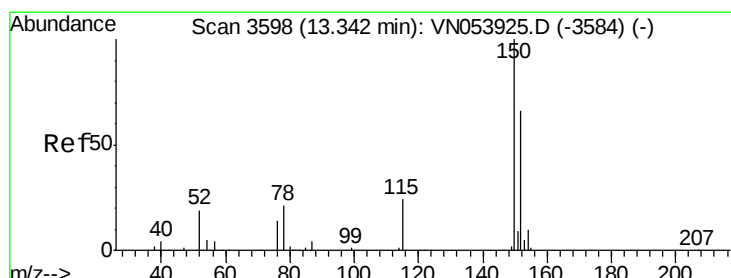
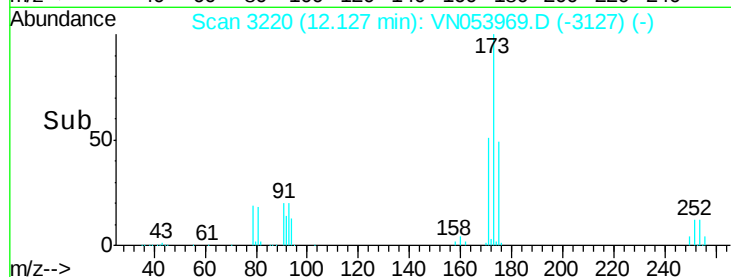
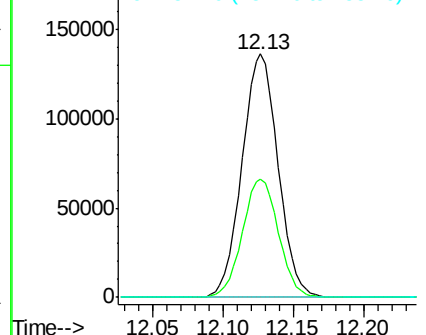
MMDadoda
2/28/2019 10:50:02 AM



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN053969.D

Acq: 26 Feb 2019 21:32

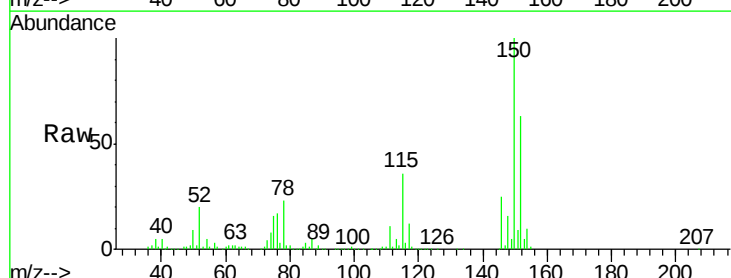
Tgt Ion:152 Resp: 430127

Ion Ratio Lower Upper

152 100

115 57.1 27.2 81.6

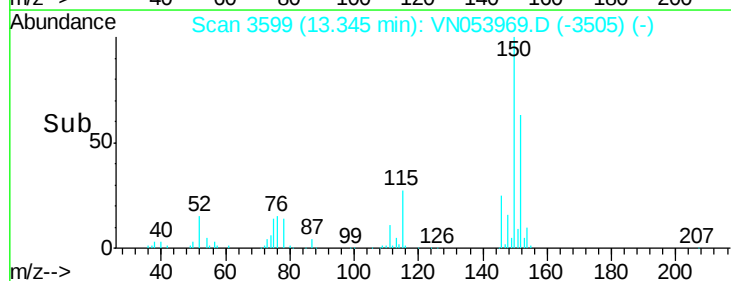
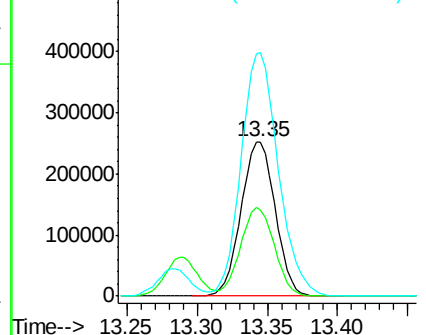
150 171.7 0.0 348.2

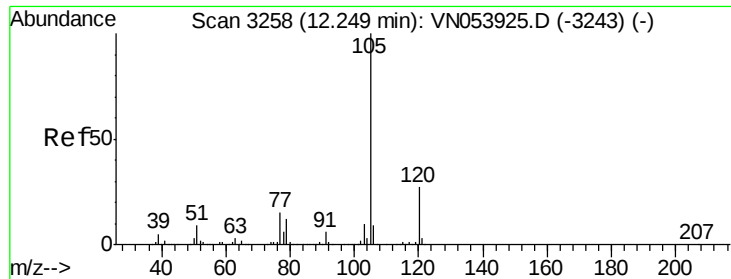


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 48.512 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. 0.00 min

Lab File: VN053969.D

Acq: 26 Feb 2019 21:32

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 105 Resp: 1624292

Ion Ratio Lower Upper

105 100

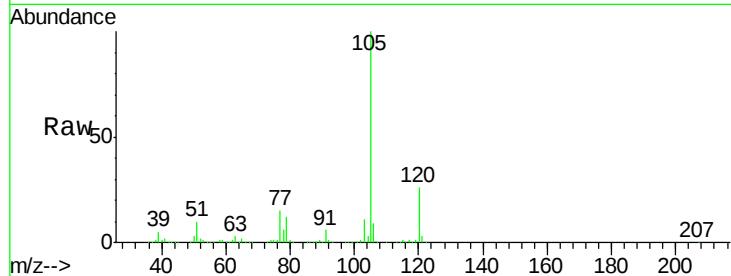
120 26.3 13.5 40.5

Manual Integrations

APPROVED

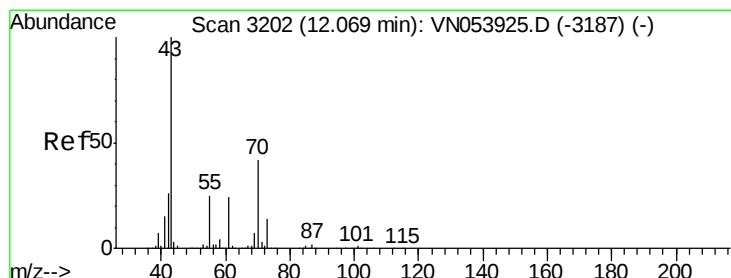
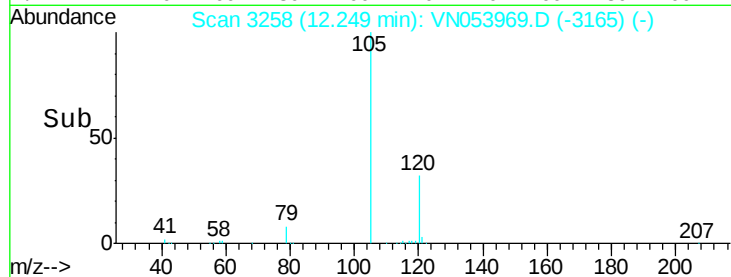
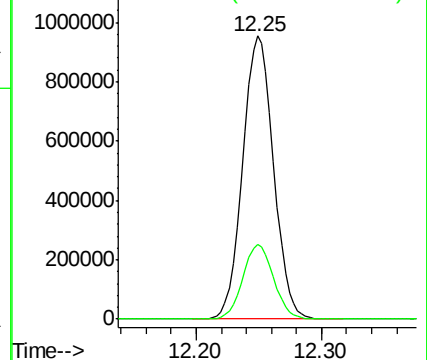
MMDadoda

2/28/2019 10:50:02 AM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 53.631 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. 0.00 min

Lab File: VN053969.D

Acq: 26 Feb 2019 21:32

Tgt Ion: 43 Resp: 470649

Ion Ratio Lower Upper

43 100

70 41.6 37.4 56.2

55 25.5 21.4 32.0

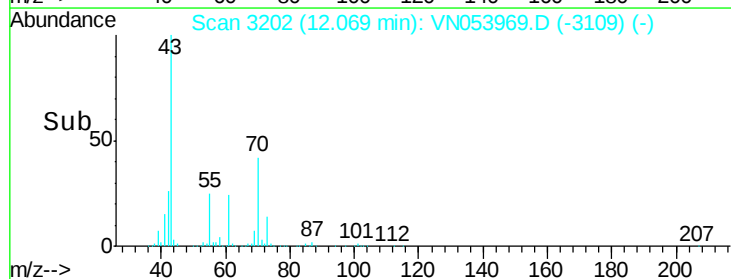
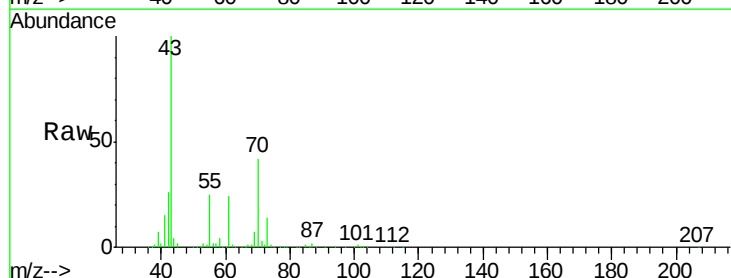
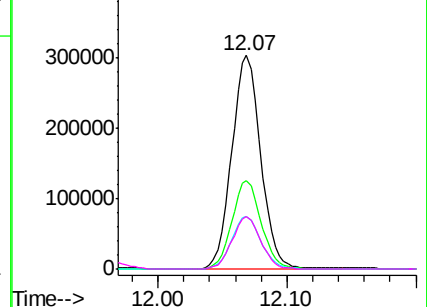
61 24.4 20.9 31.3

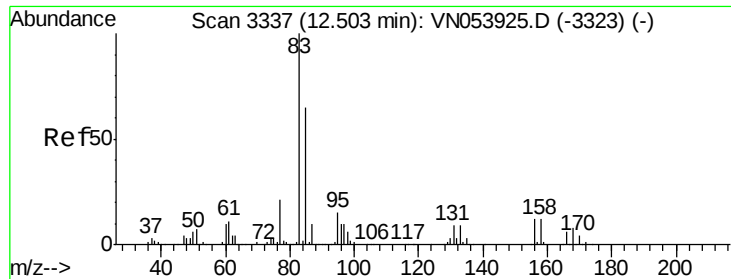
Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V





#75

1,1,2,2-Tetrachloroethane

Concen: 47.279 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. 0.00 min

Lab File: VN053969.D

Acq: 26 Feb 2019 21:32

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 83 Resp: 395857
Ion Ratio Lower Upper

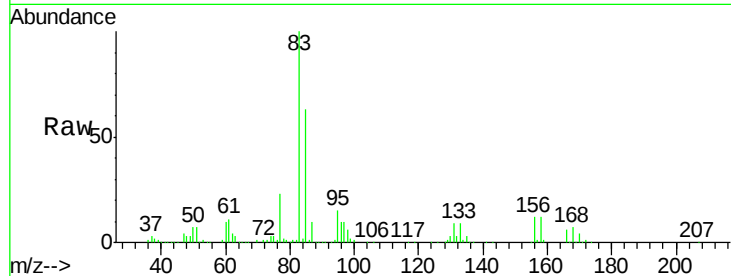
83 100

131 9.7 5.3 16.1

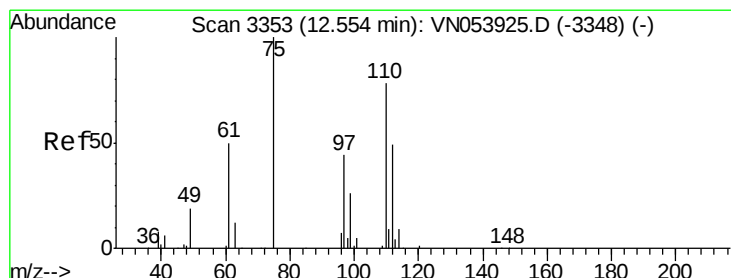
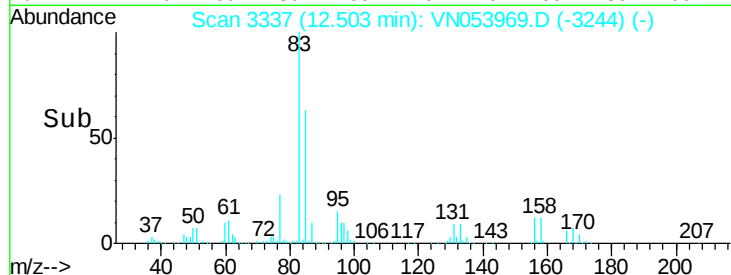
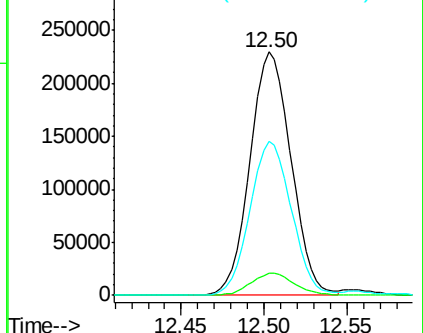
85 63.8 31.9 95.9

Manual Integrations
APPROVED

MMDadoda
2/28/2019 10:50:02 AM



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



#76

1,2,3-Trichloropropane

Concen: 48.162 ug/l m

RT: 12.55 min Scan# 3353

Delta R.T. 0.00 min

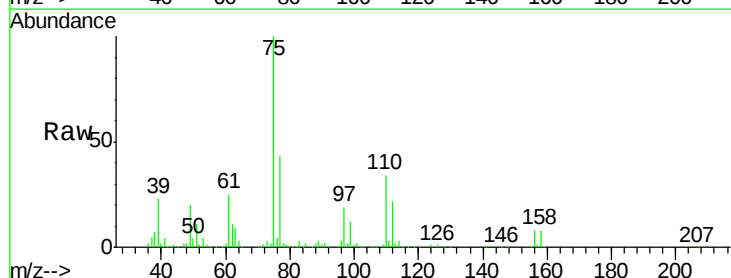
Lab File: VN053969.D

Acq: 26 Feb 2019 21:32

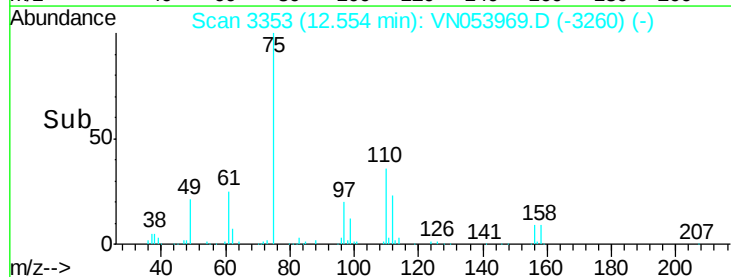
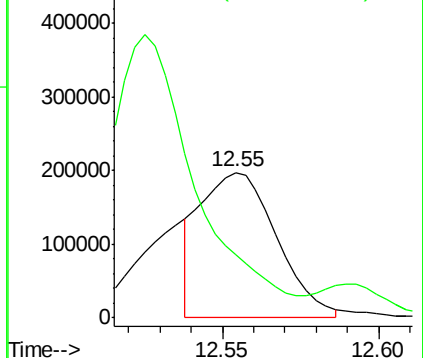
Tgt Ion: 75 Resp: 332316
Ion Ratio Lower Upper

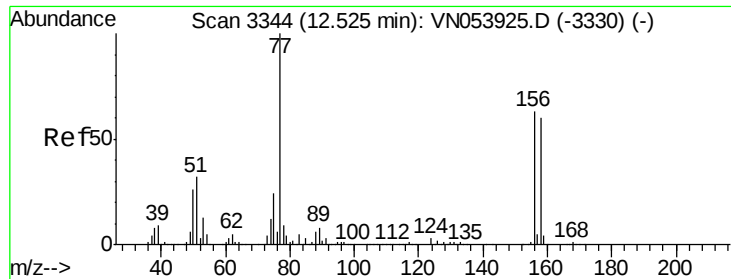
75 100

77 0.0 0.0 0.0



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





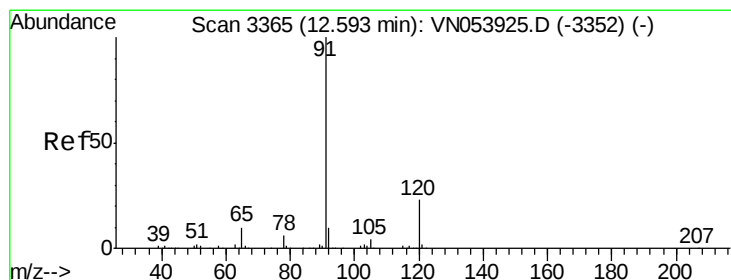
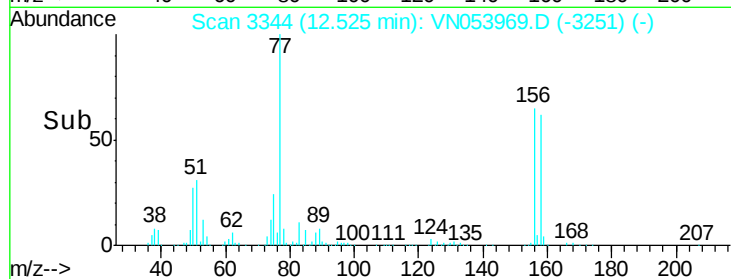
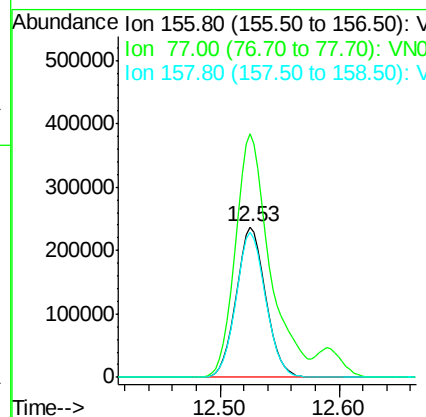
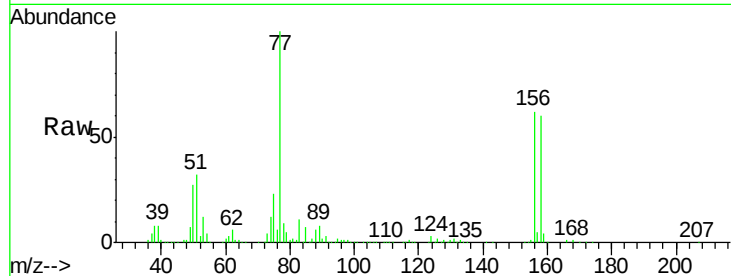
#77
Bromobenzene
Concen: 47.842 ug/l
RT: 12.53 min Scan# 3344
Delta R.T. 0.00 min
Lab File: VN053969.D
Acq: 26 Feb 2019 21:32

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion	Ratio	Lower	Upper
156	100		
77	189.6	84.0	252.2
158	97.0	48.5	145.6

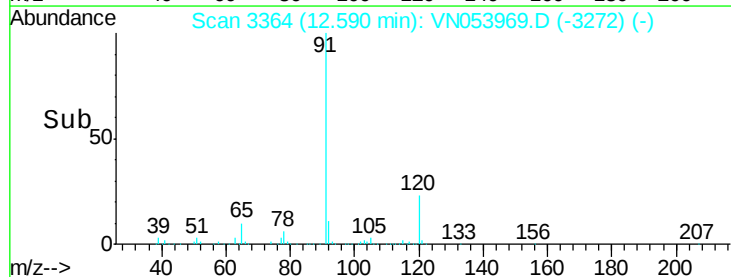
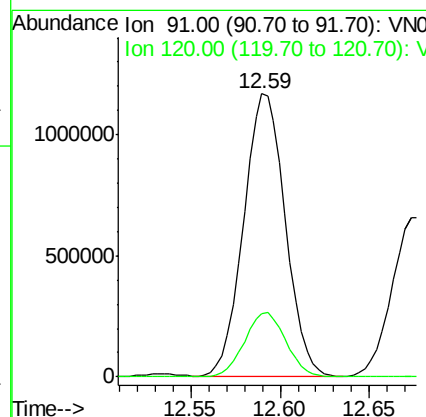
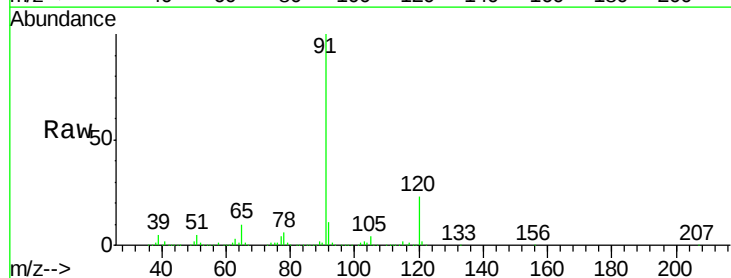
Manual Integrations
APPROVED

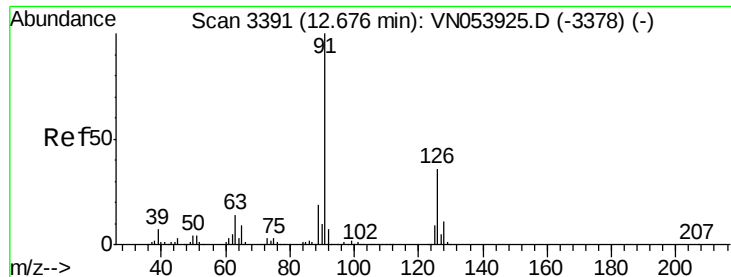
MMDadoda
2/28/2019 10:50:02 AM



#78
n-propylbenzene
Concen: 49.720 ug/l
RT: 12.59 min Scan# 3364
Delta R.T. -0.00 min
Lab File: VN053969.D
Acq: 26 Feb 2019 21:32

Tgt Ion	Ratio	Lower	Upper
91	100		
120	22.8	11.9	35.9





#79

2-Chlorotoluene

Concen: 49.027 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. -0.00 min

Lab File: VN053969.D

Acq: 26 Feb 2019 21:32

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 91 Resp: 1121461

Ion Ratio Lower Upper

91 100

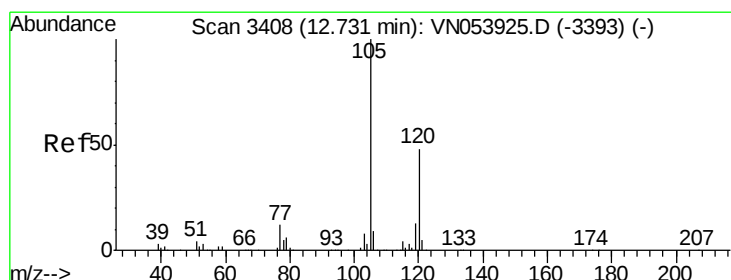
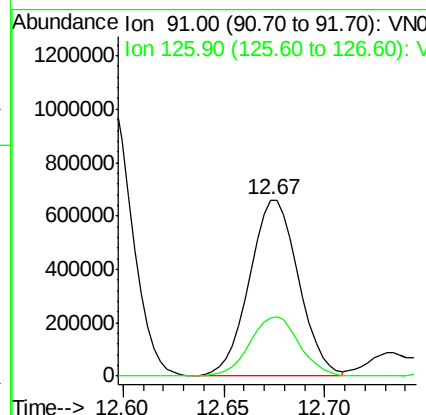
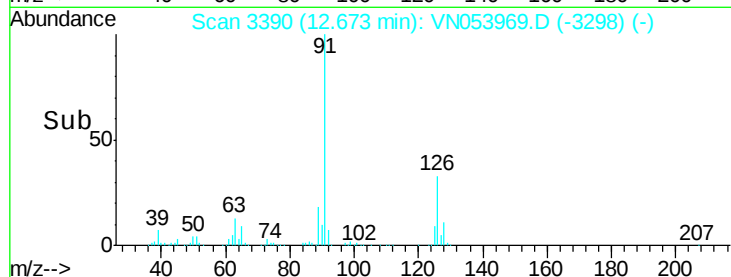
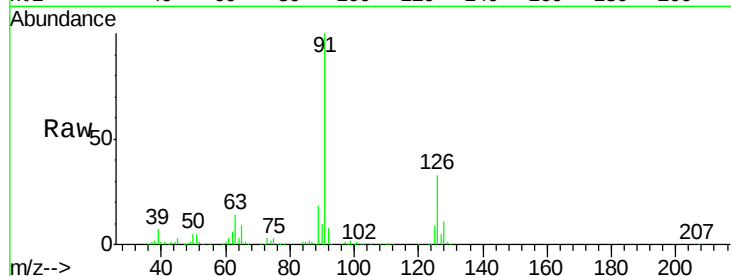
126 34.2 18.1 54.4

Manual Integrations

APPROVED

MMDadoda

2/28/2019 10:50:02 AM



#80

1,3,5-Trimethylbenzene

Concen: 50.070 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN053969.D

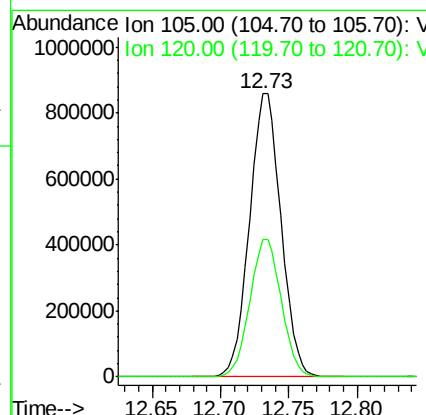
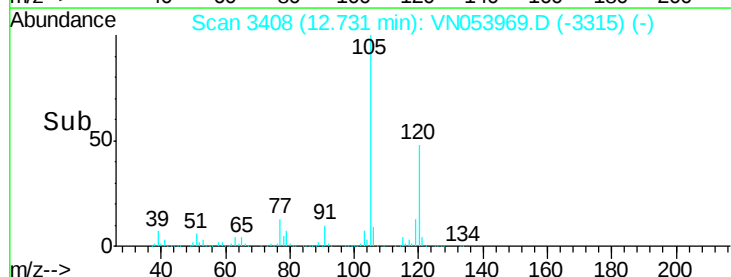
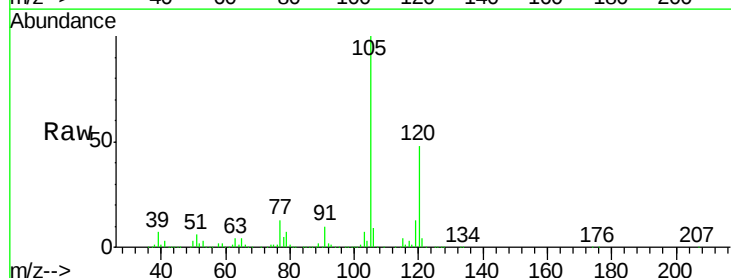
Acq: 26 Feb 2019 21:32

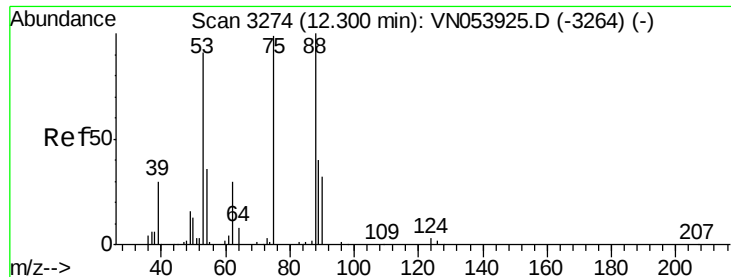
Tgt Ion: 105 Resp: 1372457

Ion Ratio Lower Upper

105 100

120 48.5 25.1 75.2





#81

trans-1,4-Dichloro-2-butene

Concen: 48.468 ug/l

RT: 12.30 min Scan# 3274

Delta R.T. 0.00 min

Lab File: VN053969.D

Acq: 26 Feb 2019 21:32

Instrument :

MSVOA_N

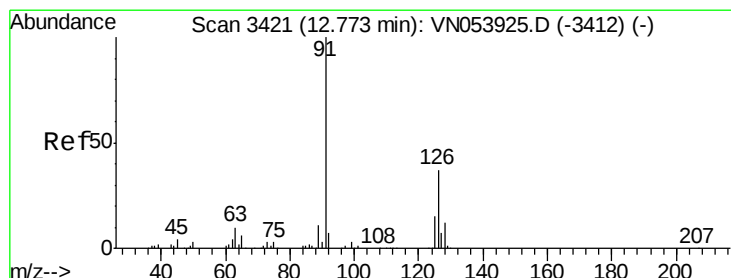
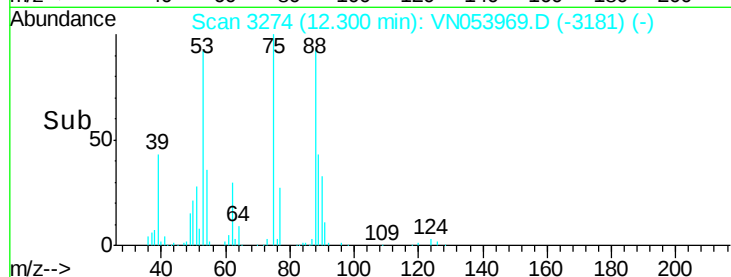
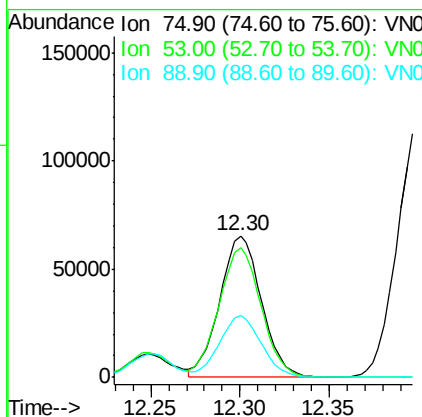
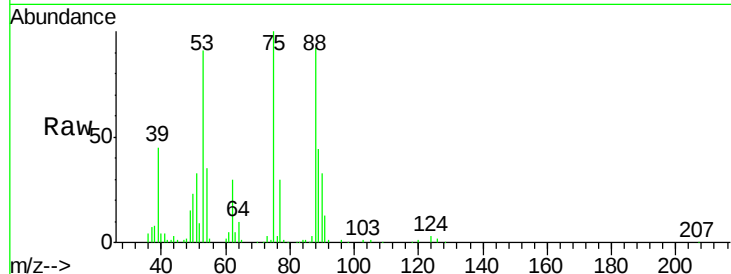
ClientSampleId :

VSTDCCC050EC

Tgt Ion:	75	Resp:	105811
Ion Ratio	Lower	Upper	
75	100		
53	94.2	68.6	102.8
89	44.2	35.3	52.9

Manual Integrations
APPROVED

MMDadoda
2/28/2019 10:50:02 AM



#82

4-Chlorotoluene

Concen: 49.799 ug/l

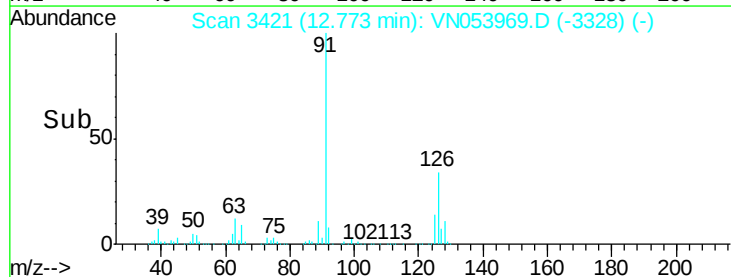
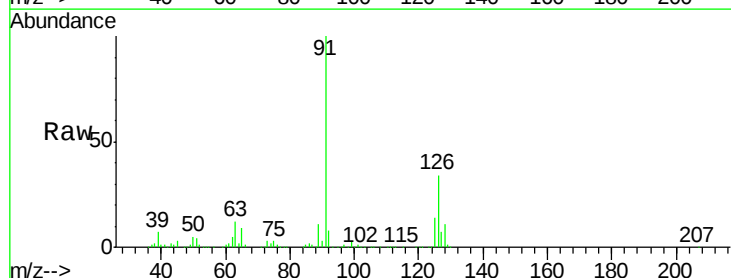
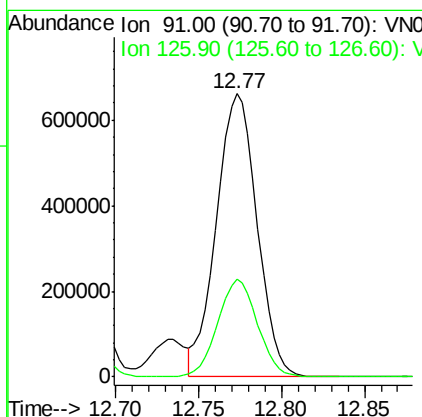
RT: 12.77 min Scan# 3421

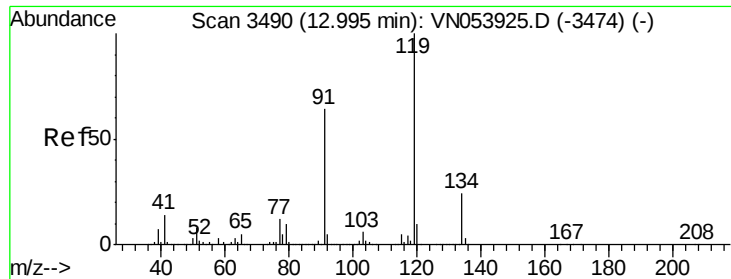
Delta R.T. 0.00 min

Lab File: VN053969.D

Acq: 26 Feb 2019 21:32

Tgt Ion:	91	Resp:	1125844
Ion Ratio	Lower	Upper	
91	100		
126	33.8	18.0	54.0





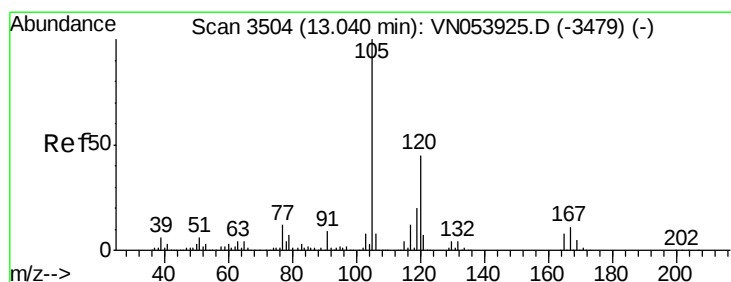
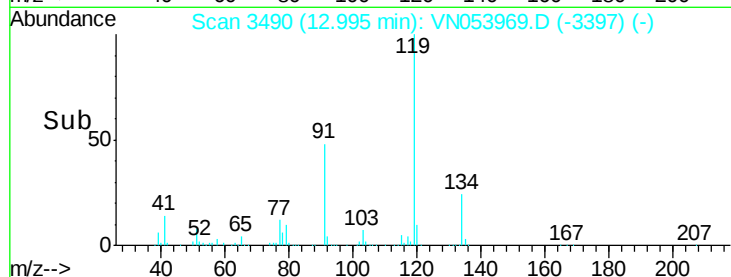
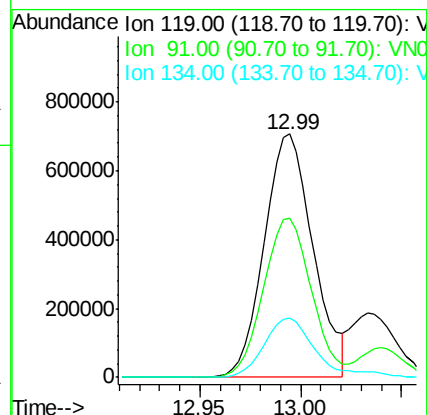
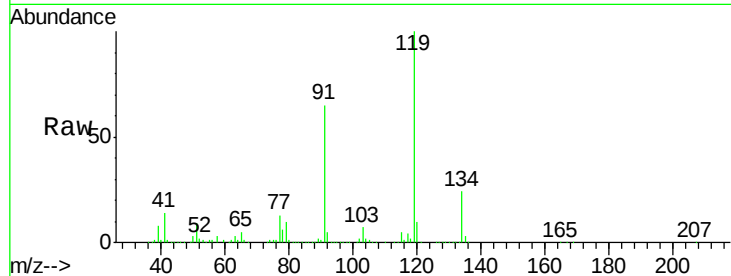
#83
tert-Butylbenzene
Concen: 49.207 ug/l
RT: 12.99 min Scan# 3490
Delta R.T. 0.00 min
Lab File: VN053969.D
Acq: 26 Feb 2019 21:32

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion:119 Resp: 1192948
Ion Ratio Lower Upper
119 100
91 64.4 30.6 91.8
134 25.7 13.0 39.0

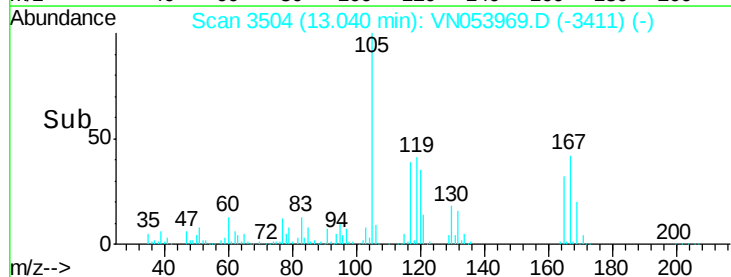
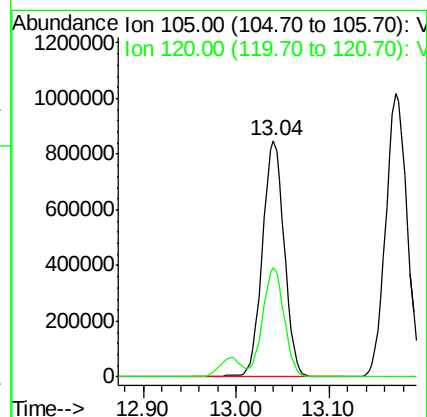
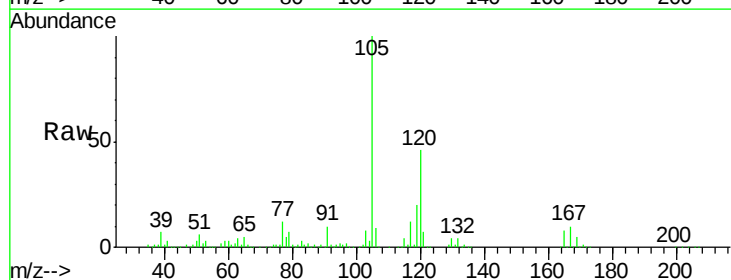
Manual Integrations
APPROVED

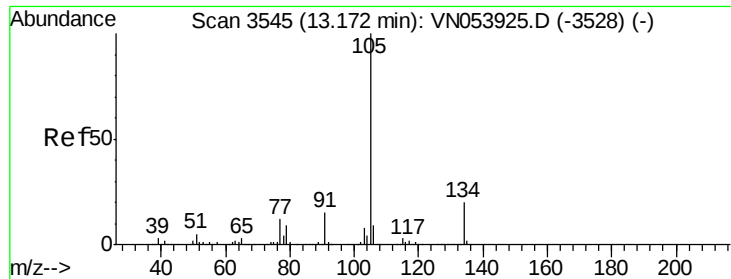
MMDadoda
2/28/2019 10:50:02 AM



#84
1,2,4-Trimethylbenzene
Concen: 50.601 ug/l
RT: 13.04 min Scan# 3504
Delta R.T. 0.00 min
Lab File: VN053969.D
Acq: 26 Feb 2019 21:32

Tgt Ion:105 Resp: 1384727
Ion Ratio Lower Upper
105 100
120 45.5 23.2 69.5





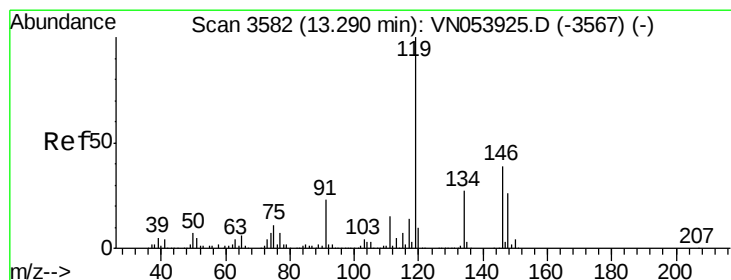
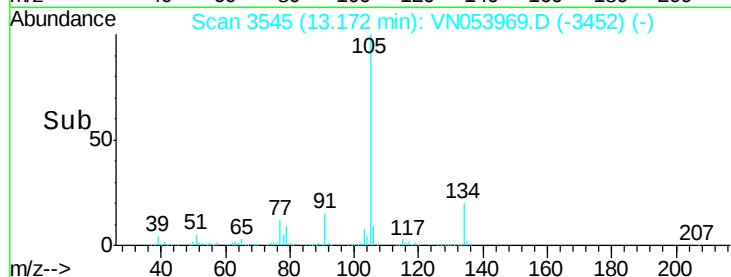
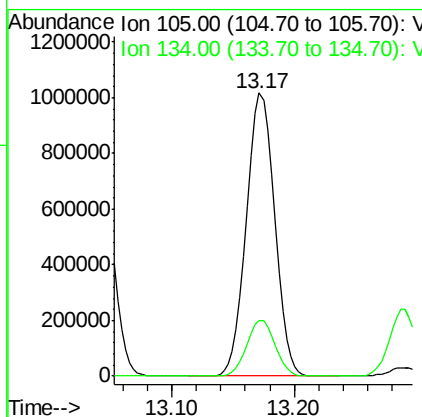
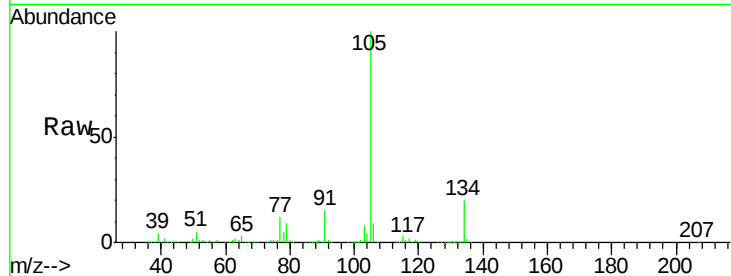
#85
 sec-Butylbenzene
 Concen: 48.989 ug/l
 RT: 13.17 min Scan# 3545
 Delta R.T. 0.00 min
 Lab File: VN053969.D
 Acq: 26 Feb 2019 21:32

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tgt Ion:105 Resp: 1622132
 Ion Ratio Lower Upper
 105 100
 134 19.7 10.4 31.1

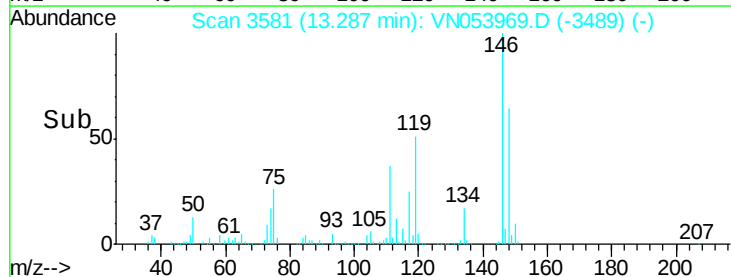
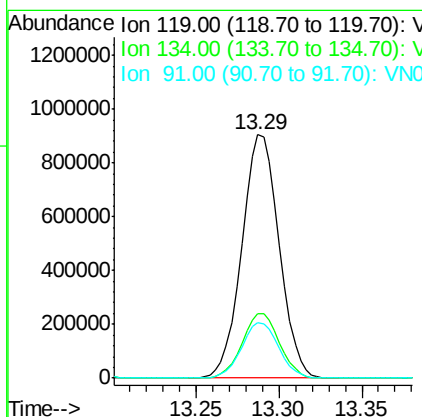
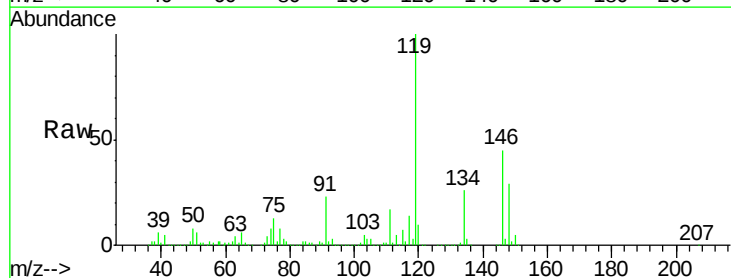
Manual Integrations
 APPROVED

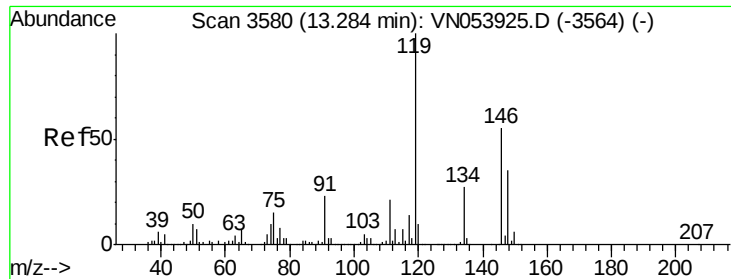
MMDadoda
 2/28/2019 10:50:02 AM



#86
 p-Isopropyltoluene
 Concen: 50.320 ug/l
 RT: 13.29 min Scan# 3581
 Delta R.T. -0.00 min
 Lab File: VN053969.D
 Acq: 26 Feb 2019 21:32

Tgt Ion:119 Resp: 1408568
 Ion Ratio Lower Upper
 119 100
 134 26.5 13.5 40.4
 91 22.8 10.9 32.6





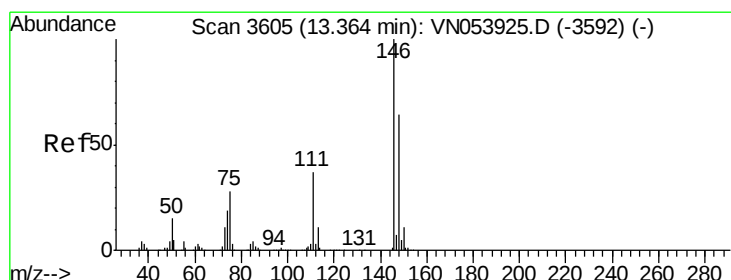
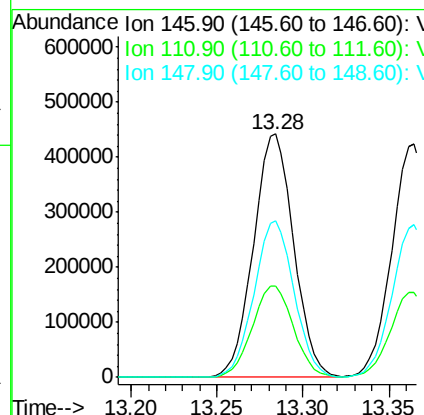
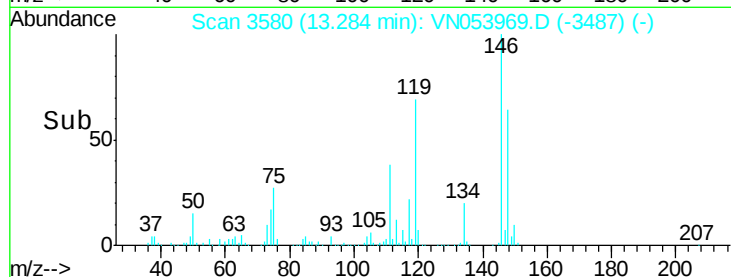
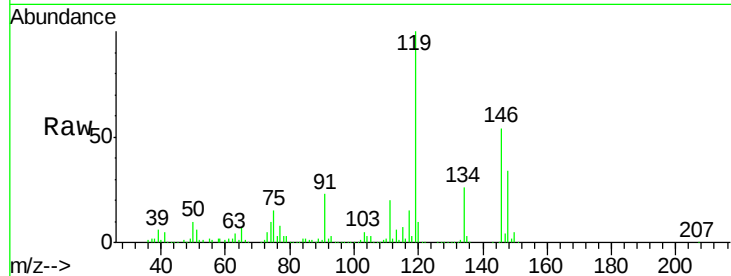
#87
 1,3-Dichlorobenzene
 Concen: 48.782 ug/l
 RT: 13.28 min Scan# 3580
 Delta R.T. 0.00 min
 Lab File: VN053969.D
 Acq: 26 Feb 2019 21:32

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tgt Ion	Ratio	Lower	Upper
146	100		
111	38.3	18.7	56.1
148	63.8	32.0	96.2

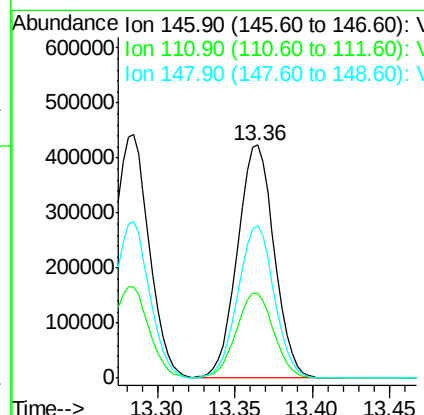
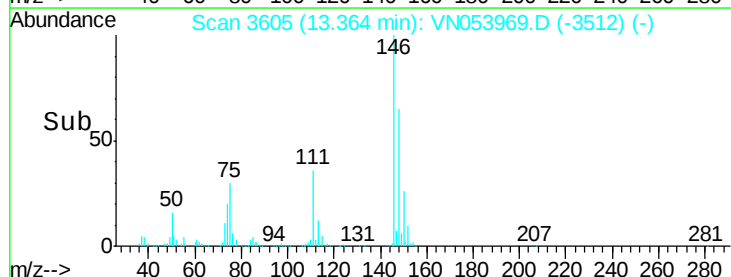
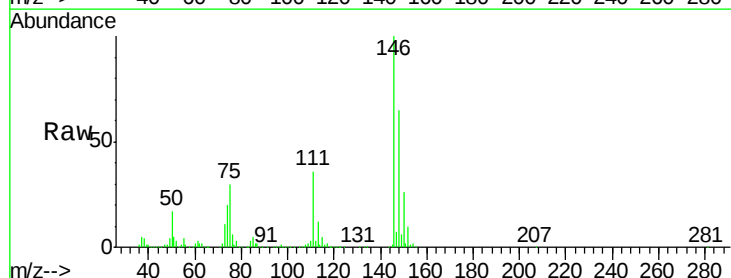
Manual Integrations
 APPROVED

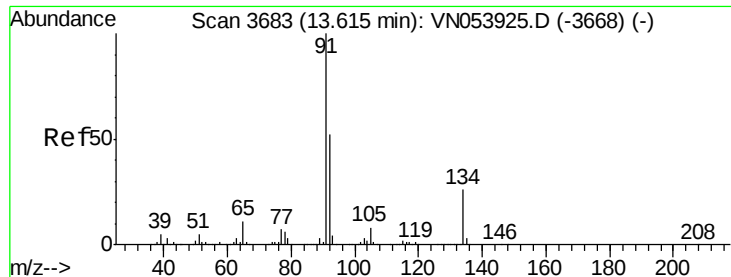
MMDadoda
 2/28/2019 10:50:02 AM



#88
 1,4-Dichlorobenzene
 Concen: 48.933 ug/l
 RT: 13.36 min Scan# 3605
 Delta R.T. 0.00 min
 Lab File: VN053969.D
 Acq: 26 Feb 2019 21:32

Tgt Ion	Ratio	Lower	Upper
146	100		
111	37.2	18.0	54.0
148	64.7	32.1	96.5





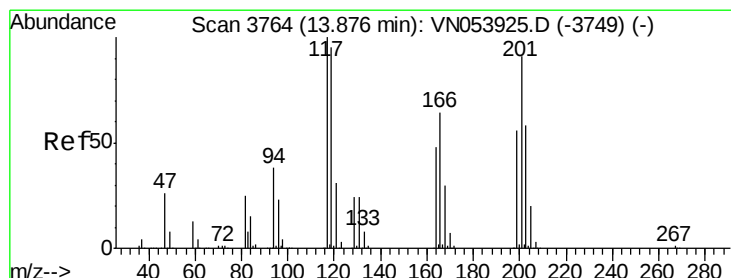
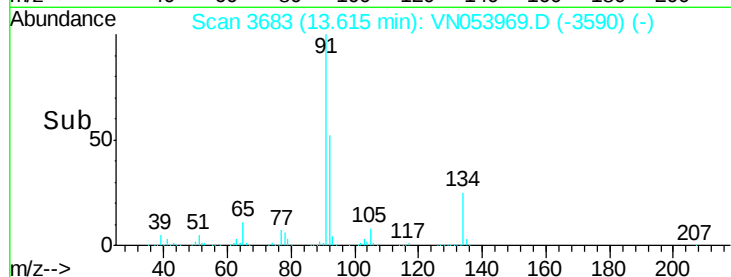
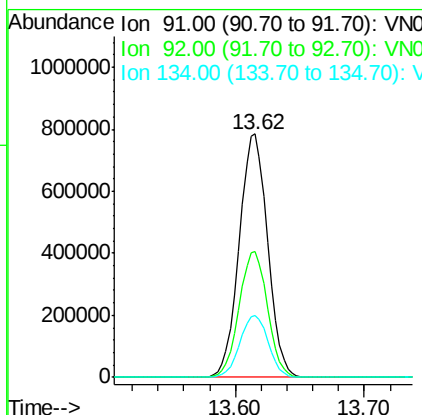
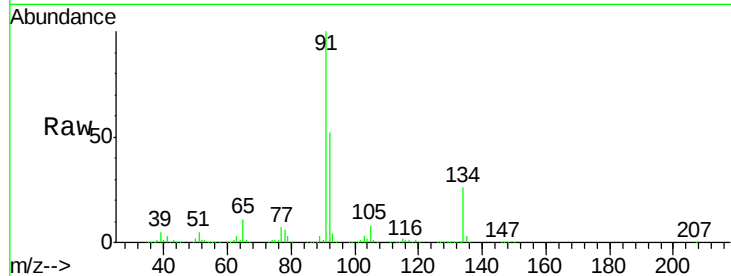
#89
n-Butylbenzene
Concen: 50.824 ug/l
RT: 13.62 min Scan# 3683
Delta R.T. 0.00 min
Lab File: VN053969.D
Acq: 26 Feb 2019 21:32

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 91 Resp: 1198990
Ion Ratio Lower Upper
91 100
92 51.9 26.1 78.2
134 25.5 13.6 40.8

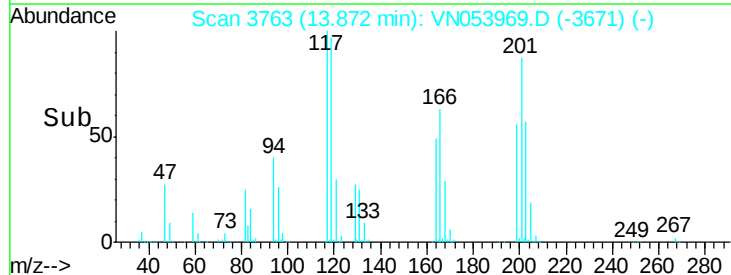
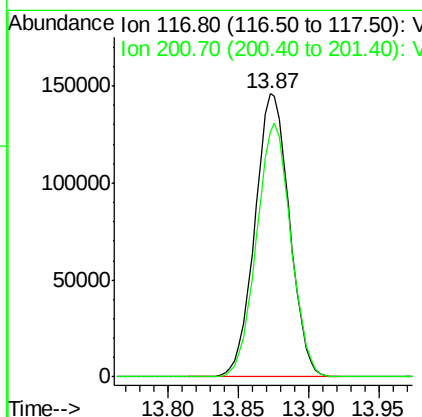
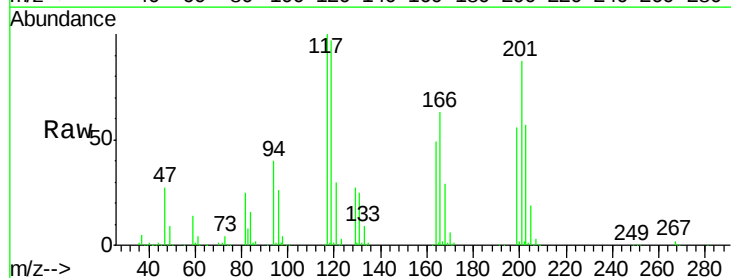
Manual Integrations
APPROVED

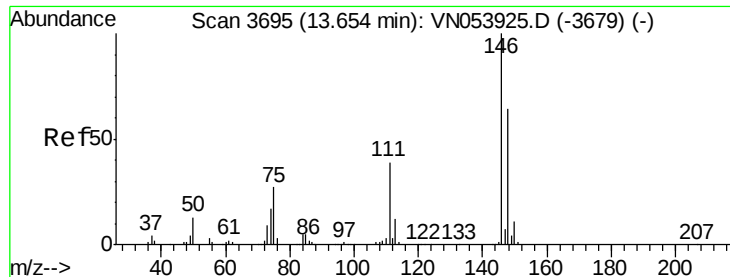
MMDadoda
2/28/2019 10:50:02 AM



#90
Hexachloroethane
Concen: 46.033 ug/l
RT: 13.87 min Scan# 3763
Delta R.T. -0.00 min
Lab File: VN053969.D
Acq: 26 Feb 2019 21:32

Tgt Ion: 117 Resp: 249701
Ion Ratio Lower Upper
117 100
201 88.6 48.0 144.2





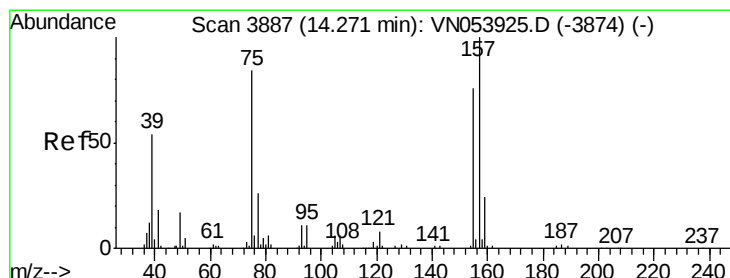
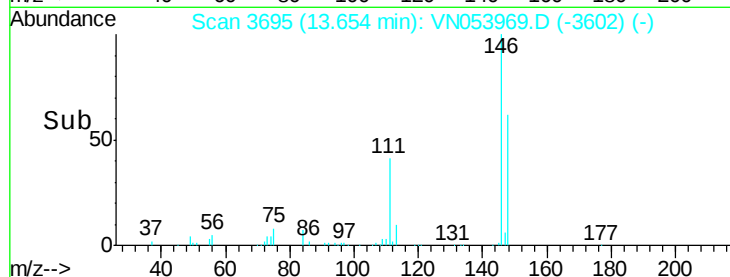
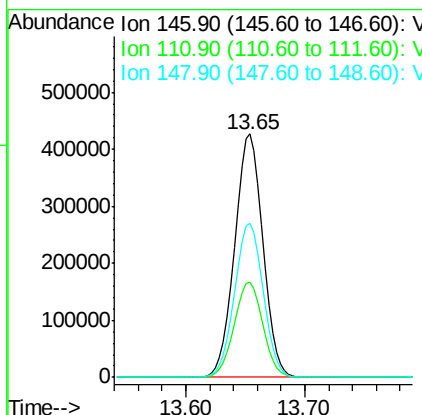
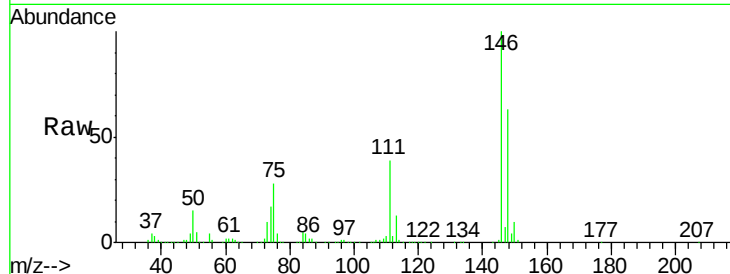
#91
 1,2-Dichlorobenzene
 Concen: 49.199 ug/l
 RT: 13.65 min Scan# 3695
 Delta R.T. 0.00 min
 Lab File: VN053969.D
 Acq: 26 Feb 2019 21:32

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tgt Ion	Ratio	Lower	Upper
146	100		
111	39.8	19.1	57.5
148	64.2	32.1	96.5

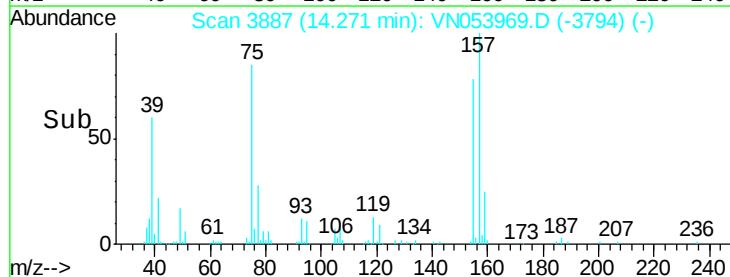
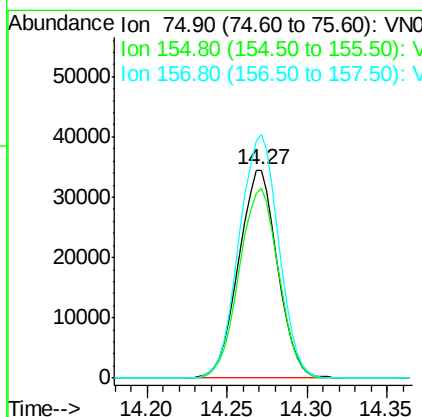
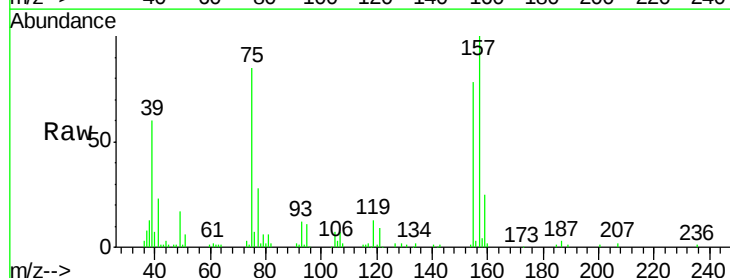
Manual Integrations
 APPROVED

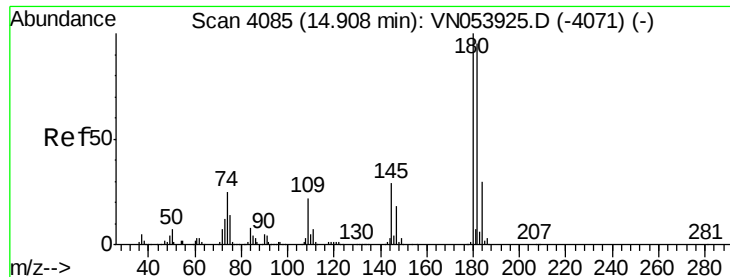
MMDadoda
 2/28/2019 10:50:02 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 48.411 ug/l
 RT: 14.27 min Scan# 3887
 Delta R.T. 0.00 min
 Lab File: VN053969.D
 Acq: 26 Feb 2019 21:32

Tgt Ion	Ratio	Lower	Upper
75	100		
155	92.1	49.5	148.5
157	118.8	64.8	194.6





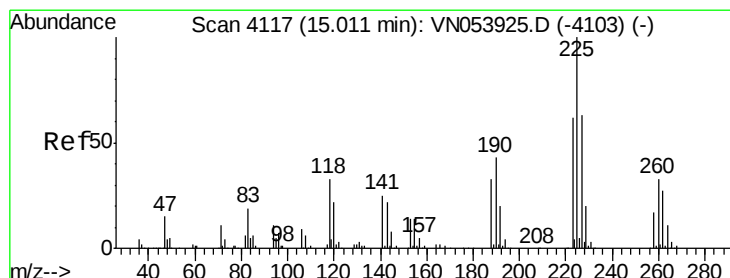
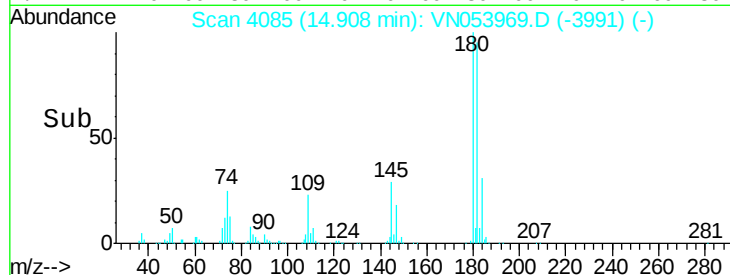
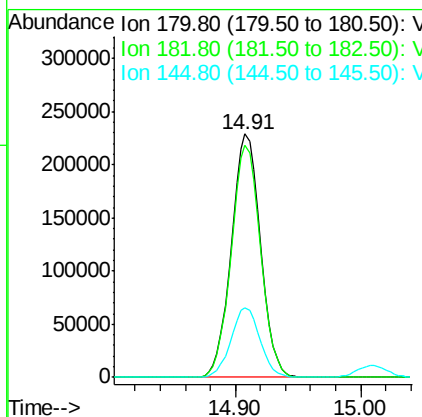
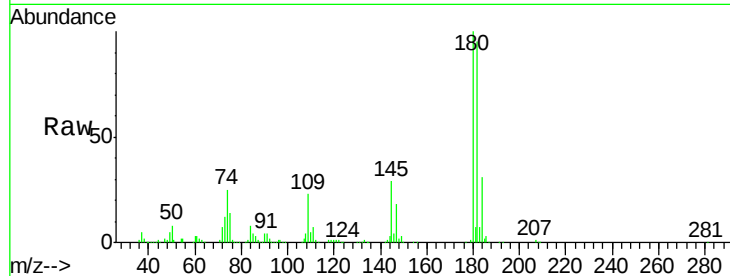
#93
 1,2,4-Trichlorobenzene
 Concen: 46.689 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. 0.00 min
 Lab File: VN053969.D
 Acq: 26 Feb 2019 21:32

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	367904		
182	96.0	48.6	145.9	
145	28.6	13.8	41.3	

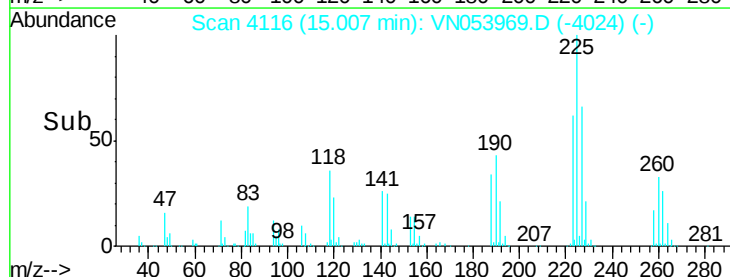
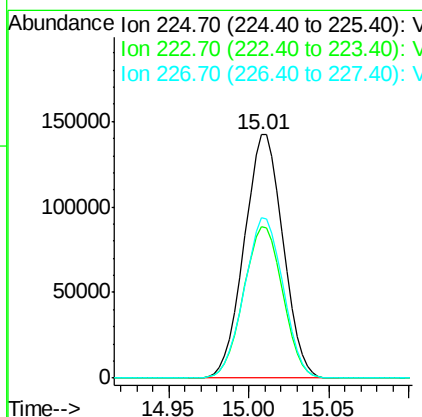
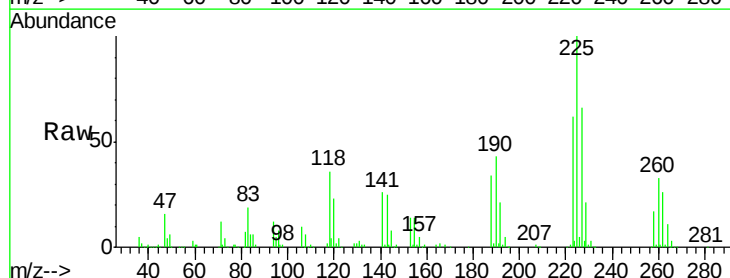
Manual Integrations
 APPROVED

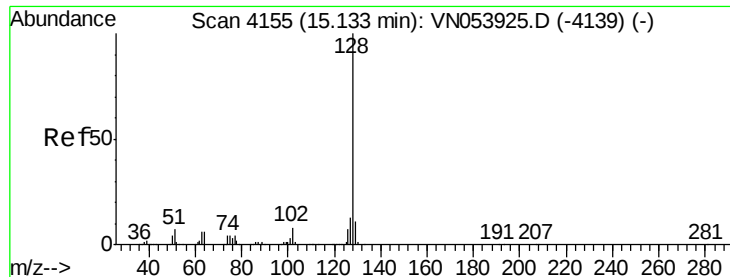
MMDadoda
 2/28/2019 10:50:02 AM



#94
 Hexachlorobutadiene
 Concen: 46.084 ug/l
 RT: 15.01 min Scan# 4116
 Delta R.T. -0.00 min
 Lab File: VN053969.D
 Acq: 26 Feb 2019 21:32

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	236976		
223	62.7	30.9	92.5	
227	65.7	32.5	97.4	





#95

Naphthalene

Concen: 45.082 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN053969.D

Acq: 26 Feb 2019 21:32

Instrument :

MSVOA_N

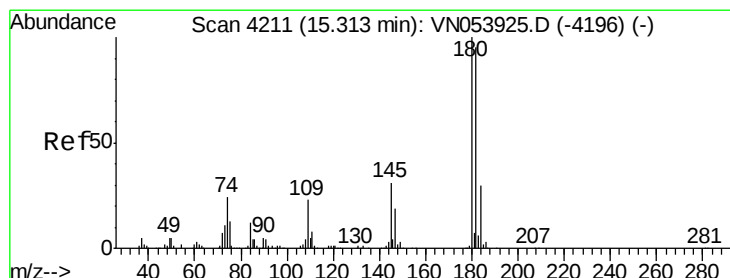
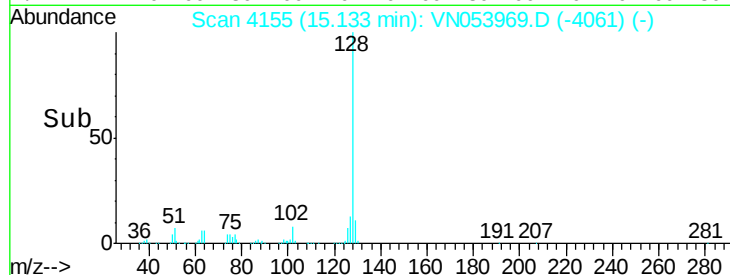
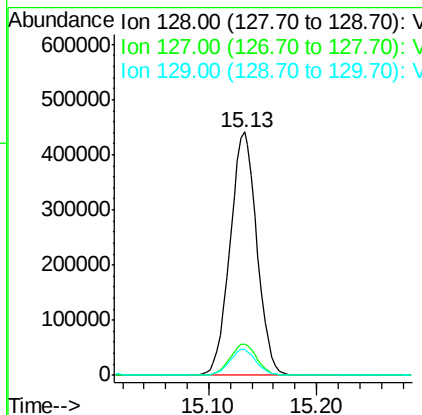
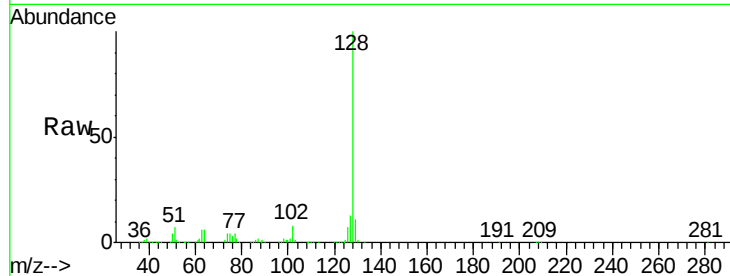
ClientSampleId :

VSTDCCC050EC

Tgt Ion:	128	Resp:	762029
Ion Ratio	Lower	Upper	
128	100		
127	12.8	10.2	15.2
129	10.6	8.6	12.8

Manual Integrations
APPROVED

MMDadoda
2/28/2019 10:50:02 AM



#96

1,2,3-Trichlorobenzene

Concen: 47.323 ug/l

RT: 15.31 min Scan# 4211

Delta R.T. 0.00 min

Lab File: VN053969.D

Acq: 26 Feb 2019 21:32

Tgt Ion:	180	Resp:	358218
Ion Ratio	Lower	Upper	
180	100		
182	95.4	47.3	141.8
145	30.2	14.4	43.0

