

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN122118\
 Data File : VN053101.D
 Acq On : 21 Dec 2018 14:51
 Operator : MD\SY
 Sample : VN1221MBS01
 Misc : 5.00g/10mL/100uL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 11 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1221MBS01

Manual Integrations
 APPROVED

MMDadoda
 12/22/2018 10:06:31 AM

Quant Time: Dec 22 01:32:18 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N121818W.M
 Quant Title : SW846 8260
 QLast Update : Tue Dec 18 13:03:37 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	1033538	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1540502	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1383977	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	656622	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	555453	52.96	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.92%	
35) Dibromofluoromethane	7.59	113	437580	62.18	ug/l	0.00
Spiked Amount	50.000		Recovery	=	124.36%	
50) Toluene-d8	10.09	98	1980805	52.43	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.86%	
62) 4-Bromofluorobenzene	12.40	95	701536	52.90	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.80%	

Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.85	85	196336	18.770 ug/l	99
3) Chloromethane	2.06	50	236317	18.643 ug/l	100
4) Vinyl Chloride	2.19	62	241498	18.812 ug/l	99
5) Bromomethane	2.57	94	149744	16.836 ug/l	98
6) Chloroethane	2.71	64	141675	18.634 ug/l	100
7) Trichlorofluoromethane	3.02	101	311016	19.448 ug/l	98
8) Diethyl Ether	3.41	74	124633	20.658 ug/l	96
9) 1,1,2-Trichlorotrifluoroet	3.77	101	197863	19.405 ug/l	98
10) Methyl Iodide	3.96	142	237381	16.578 ug/l	99
11) Tert butyl alcohol	4.78	59	78174	122.154 ug/l	99
12) 1,1-Dichloroethene	3.74	96	188085	19.093 ug/l	97
13) Acrolein	3.61	56	78969	136.087 ug/l	99
14) Allyl chloride	4.33	41	313403	20.539 ug/l	94
15) Acrylonitrile	4.99	53	390984	109.972 ug/l	99
16) Acetone	3.82	43	239109	116.272 ug/l	97
17) Carbon Disulfide	4.06	76	524535	16.327 ug/l	100
18) Methyl Acetate	4.33	43	202790	22.288 ug/l	98
19) Methyl tert-butyl Ether	5.05	73	557307	21.141 ug/l	97
20) Methylene Chloride	4.55	84	219812	19.595 ug/l	96
21) trans-1,2-Dichloroethene	5.05	96	200618	18.955 ug/l	98
22) Diisopropyl ether	5.96	45	675696	20.746 ug/l	99
23) Vinyl Acetate	5.90	43	2030924	108.438 ug/l	98
24) 1,1-Dichloroethane	5.85	63	380084	19.638 ug/l	99
25) 2-Butanone	6.84	43	419359	121.510 ug/l	100
26) 2,2-Dichloropropane	6.83	77	283246	19.172 ug/l	99
27) cis-1,2-Dichloroethene	6.83	96	234440	19.566 ug/l	99
28) Bromochloromethane	7.20	49	182495	21.761 ug/l	94
29) Tetrahydrofuran	7.21	42	293838	113.996 ug/l	97
30) Chloroform	7.37	83	374778	19.712 ug/l	100
31) Cyclohexane	7.66	56	358707	19.112 ug/l	96
32) 1,1,1-Trichloroethane	7.57	97	315721	19.493 ug/l	99
36) 1,1-Dichloropropene	7.80	75	289319	19.567 ug/l	99
37) Ethyl Acetate	6.93	43	194029	23.506 ug/l	99
38) Carbon Tetrachloride	7.78	117	264721	19.532 ug/l	98

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN122118\
 Data File : VN053101.D
 Acq On : 21 Dec 2018 14:51
 Operator : MD\SY
 Sample : VN1221MBS01
 Misc : 5.00g/10mL/100uL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 11 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1221MBS01

Manual Integrations
 APPROVED

MMDadoda
 12/22/2018 10:06:31 AM

Quant Time: Dec 22 01:32:18 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N121818W.M
 Quant Title : SW846 8260
 QLast Update : Tue Dec 18 13:03:37 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	343536	19.126	ug/l	99
40) Benzene	8.05	78	878724	19.980	ug/l	100
41) Methacrylonitrile	7.18	41	94212	19.754	ug/l	93
42) 1,2-Dichloroethane	8.13	62	266548	20.515	ug/l	99
43) Isopropyl Acetate	8.17	43	358795	21.874	ug/l	99
44) Trichloroethene	8.84	130	243857	19.170	ug/l	98
45) 1,2-Dichloropropane	9.12	63	234992	20.513	ug/l	98
46) Dibromomethane	9.21	93	136955	20.522	ug/l	98
47) Bromodichloromethane	9.40	83	284417	20.050	ug/l	99
48) Methyl methacrylate	9.20	41	174973	21.845	ug/l	97
49) 1,4-Dioxane	9.20	88	46802	461.922	ug/l	98
51) 4-Methyl-2-Pentanone	9.99	43	950161	118.864	ug/l	98
52) Toluene	10.16	92	552993	20.285	ug/l	100
53) t-1,3-Dichloropropene	10.38	75	290699	19.488	ug/l	100
54) cis-1,3-Dichloropropene	9.84	75	341576	19.950	ug/l	98
55) 1,1,2-Trichloroethane	10.56	97	202852	21.329	ug/l	100
56) Ethyl methacrylate	10.43	69	273750	21.747	ug/l	96
57) 1,3-Dichloropropane	10.71	76	341903	20.965	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.70	63	758994	109.828	ug/l	99
59) 2-Hexanone	10.75	43	665069	122.970	ug/l	99
60) Dibromochloromethane	10.90	129	219353	20.149	ug/l	100
61) 1,2-Dibromoethane	11.01	107	201758	20.888	ug/l	99
64) Tetrachloroethene	10.63	164	268918	17.938	ug/l	99
65) Chlorobenzene	11.44	112	610839	19.911	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.51	131	213261	19.990	ug/l	99
67) Ethyl Benzene	11.51	91	1061721	20.124	ug/l	99
68) m/p-Xylenes	11.62	106	806214	40.196	ug/l	100
69) o-Xylene	11.95	106	393292	20.435	ug/l	100
70) Styrene	11.97	104	645496	20.568	ug/l	100
71) Bromoform	12.13	173	150747	19.560	ug/l #	99
73) Isopropylbenzene	12.25	105	1055530	20.546	ug/l	100
74) N-amyl acetate	12.07	43	313003	21.944	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.51	83	243181	24.128	ug/l	100
76) 1,2,3-Trichloropropane	12.55	75	217215m	19.651	ug/l	
77) Bromobenzene	12.53	156	268979	20.141	ug/l	99
78) n-propylbenzene	12.59	91	1184741	20.248	ug/l	99
79) 2-Chlorotoluene	12.68	91	705280	19.446	ug/l	100
80) 1,3,5-Trimethylbenzene	12.73	105	847628	20.242	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.30	75	67265	19.614	ug/l	98
82) 4-Chlorotoluene	12.77	91	716155	20.172	ug/l	100
83) tert-Butylbenzene	12.99	119	743904	20.087	ug/l	99
84) 1,2,4-Trimethylbenzene	13.04	105	858522	20.394	ug/l	98
85) sec-Butylbenzene	13.17	105	997597	19.915	ug/l	100
86) p-Isopropyltoluene	13.29	119	859105	19.848	ug/l	100
87) 1,3-Dichlorobenzene	13.28	146	471049	19.929	ug/l	99
88) 1,4-Dichlorobenzene	13.36	146	460593	19.243	ug/l	99
89) n-Butylbenzene	13.62	91	686943	18.447	ug/l	100
90) Hexachloroethane	13.88	117	127972	19.266	ug/l	99
91) 1,2-Dichlorobenzene	13.65	146	444031	19.961	ug/l	100
92) 1,2-Dibromo-3-Chloropropan	14.27	75	37684	21.624	ug/l	98

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN122118\
Data File : VN053101.D
Acq On : 21 Dec 2018 14:51
Operator : MD\SY
Sample : VN1221MBS01
Misc : 5.00g/10mL/100uL/5.00mL/MSVOA_N/MEOH
ALS Vial : 11 Sample Multiplier: 28

Instrument :
MSVOA_N
ClientSampleId :
VN1221MBS01

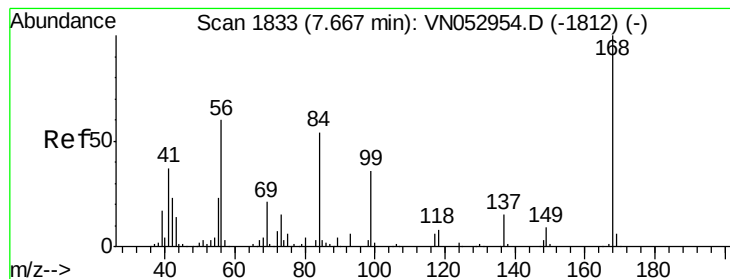
Manual Integrations
APPROVED

MMDadoda
12/22/2018 10:06:31 AM

Quant Time: Dec 22 01:32:18 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N121818W.M
Quant Title : SW846 8260
QLast Update : Tue Dec 18 13:03:37 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	215940	18.700	ug/l	100
94) Hexachlorobutadiene	15.01	225	139720	21.245	ug/l	98
95) Naphthalene	15.14	128	478448	19.254	ug/l	100
96) 1,2,3-Trichlorobenzene	15.32	180	196679	18.852	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.00 min

Lab File: VN053101.D

Acq: 21 Dec 2018 14:51

Instrument :

MSVOA_N

ClientSampleId :

VN1221MBS01

Tgt Ion:168 Resp: 1033538

Ion Ratio Lower Upper

168 100

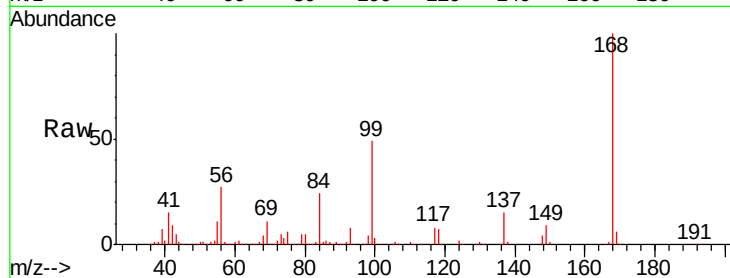
99 49.3 40.2 60.2

Manual Integrations

APPROVED

MMDadoda

12/22/2018 10:06:31 AM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.67

400000

300000

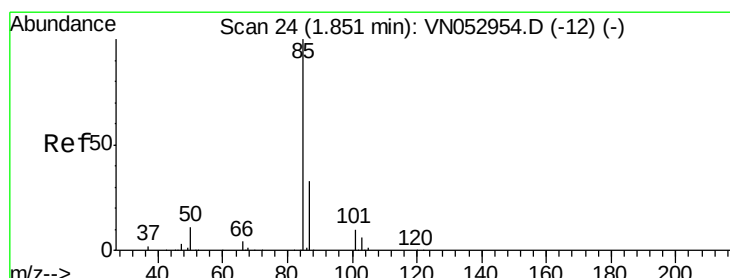
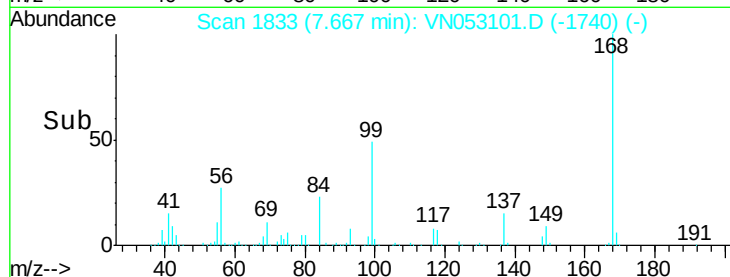
200000

100000

0

7.60 7.70 7.80

Time-->



#2

Dichlorodifluoromethane

Concen: 18.770 ug/l

RT: 1.85 min Scan# 25

Delta R.T. 0.00 min

Lab File: VN053101.D

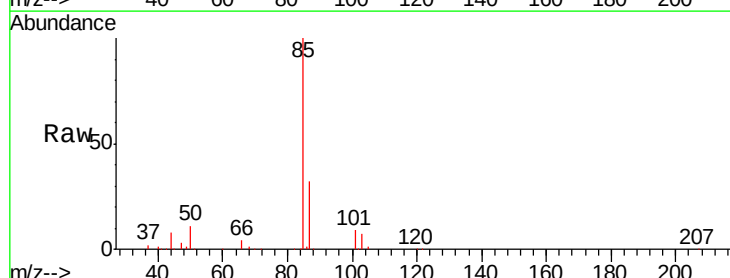
Acq: 21 Dec 2018 14:51

Tgt Ion: 85 Resp: 196336

Ion Ratio Lower Upper

85 100

87 31.9 16.3 48.8



Abundance Ion 84.90 (84.60 to 85.60): VN

Ion 86.90 (86.60 to 87.60): VN

1.85

150000

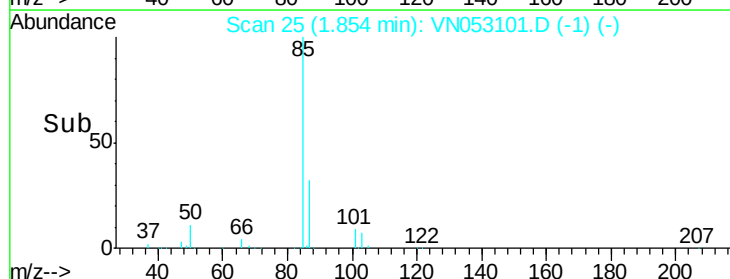
100000

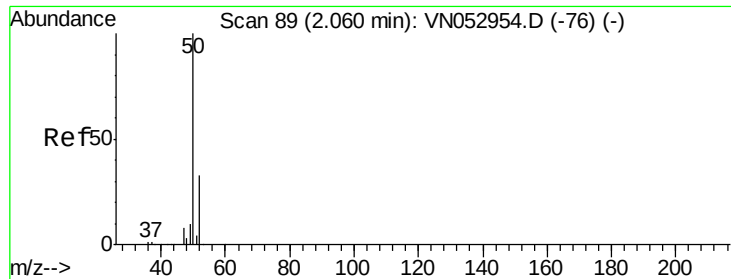
50000

0

1.80 1.85 1.90 1.95

Time-->





#3

Chloromethane

Concen: 18.643 ug/l

RT: 2.06 min Scan# 90

Delta R.T. 0.00 min

Lab File: VN053101.D

Acq: 21 Dec 2018 14:51

Instrument :

MSVOA_N

ClientSampleId :

VN1221MBS01

Tgt Ion: 50 Resp: 236317

Ion Ratio Lower Upper

50 100

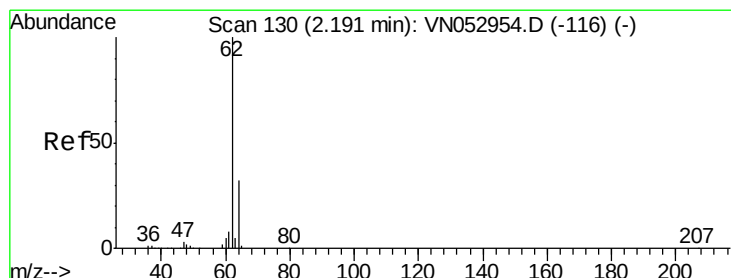
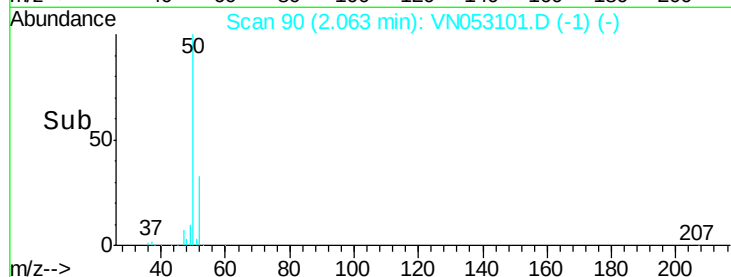
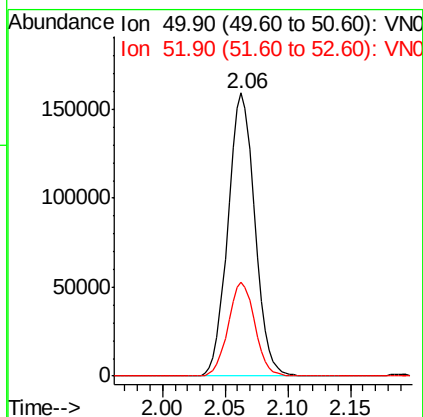
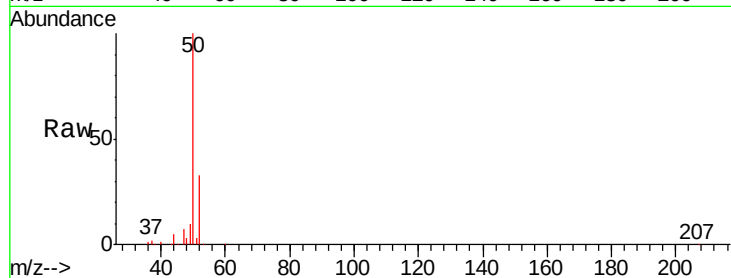
52 33.0 26.2 39.4

Manual Integrations

APPROVED

MMDadoda

12/22/2018 10:06:31 AM



#4

Vinyl Chloride

Concen: 18.812 ug/l

RT: 2.19 min Scan# 130

Delta R.T. -0.00 min

Lab File: VN053101.D

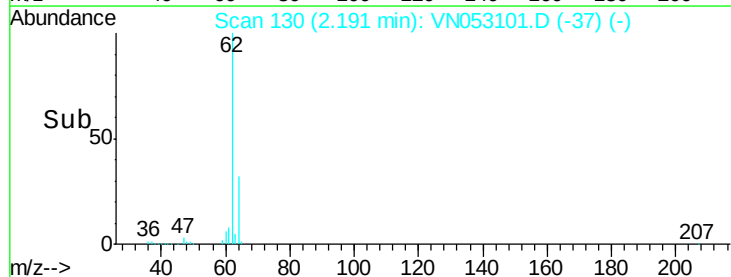
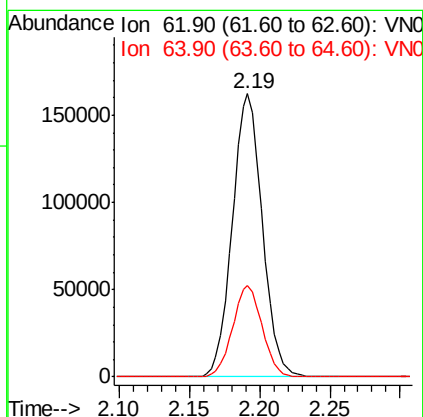
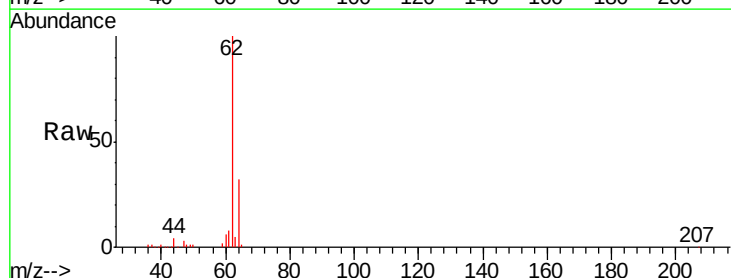
Acq: 21 Dec 2018 14:51

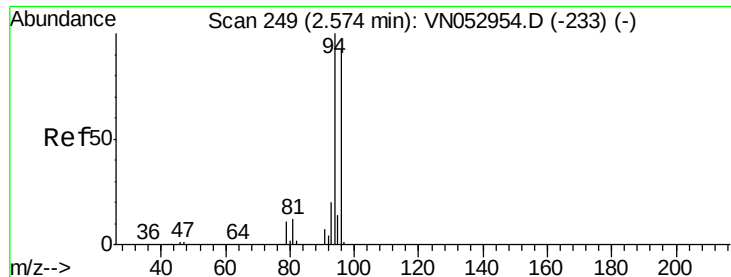
Tgt Ion: 62 Resp: 241498

Ion Ratio Lower Upper

62 100

64 32.3 25.5 38.3





#5

Bromomethane

Concen: 16.836 ug/l

RT: 2.57 min Scan# 249

Delta R.T. -0.00 min

Lab File: VN053101.D

Acq: 21 Dec 2018 14:51

Instrument :

MSVOA_N

ClientSampleId :

VN1221MBS01

Tgt Ion: 94 Resp: 149744

Ion Ratio Lower Upper

94 100

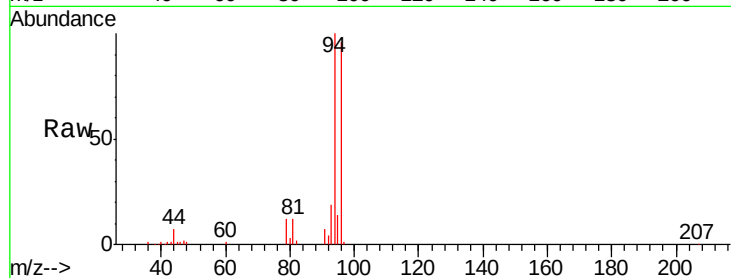
96 95.8 75.0 112.4

Manual Integrations

APPROVED

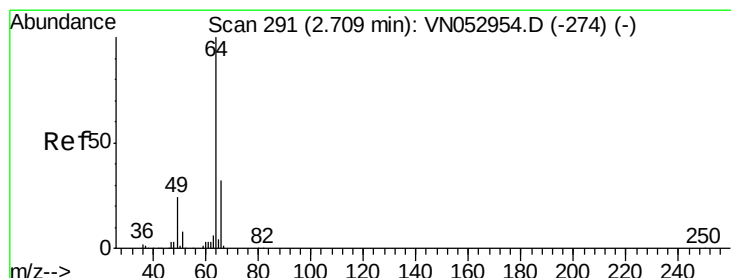
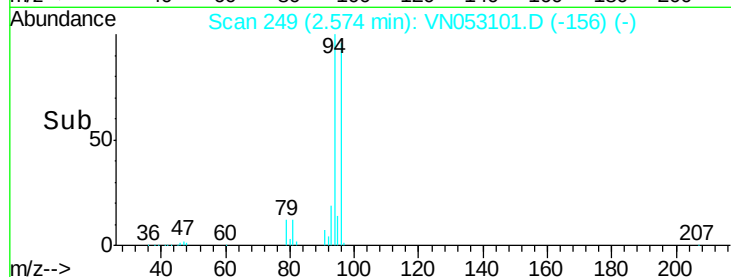
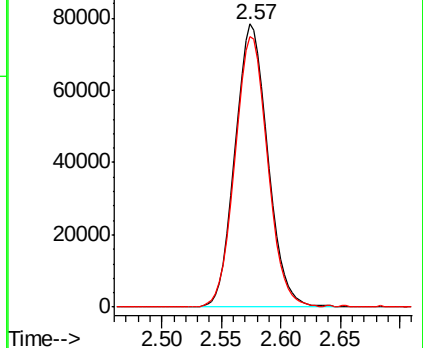
MMDadoda

12/22/2018 10:06:31 AM



Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO



#6

Chloroethane

Concen: 18.634 ug/l

RT: 2.71 min Scan# 291

Delta R.T. -0.00 min

Lab File: VN053101.D

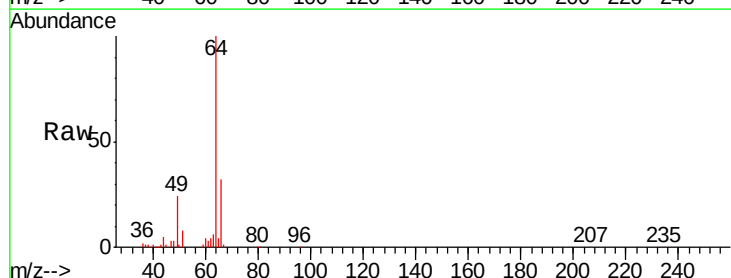
Acq: 21 Dec 2018 14:51

Tgt Ion: 64 Resp: 141675

Ion Ratio Lower Upper

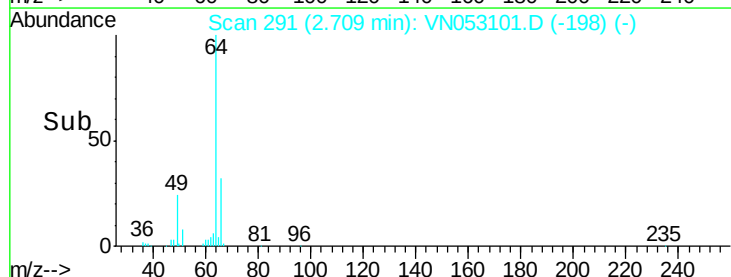
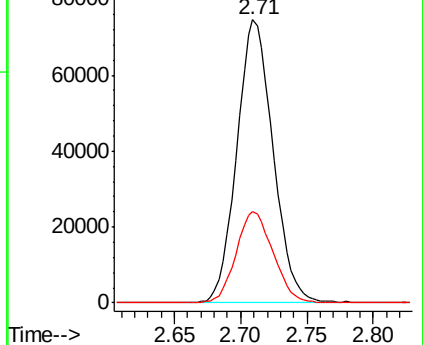
64 100

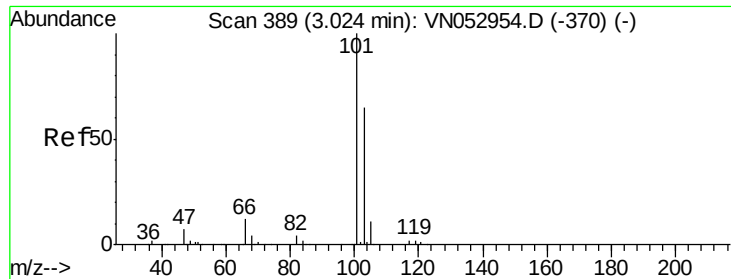
66 32.4 26.2 39.2



Abundance Ion 63.90 (63.60 to 64.60): VNO

Ion 65.90 (65.60 to 66.60): VNO





#7

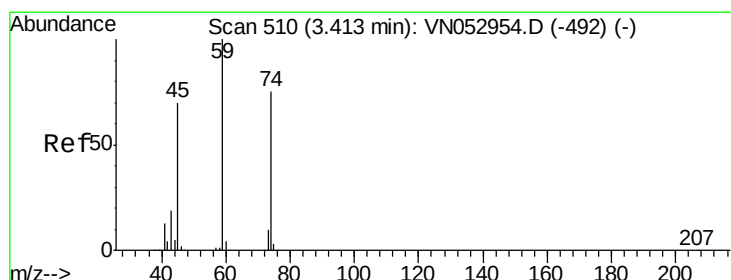
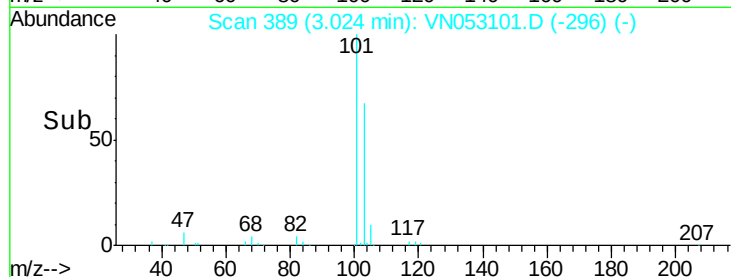
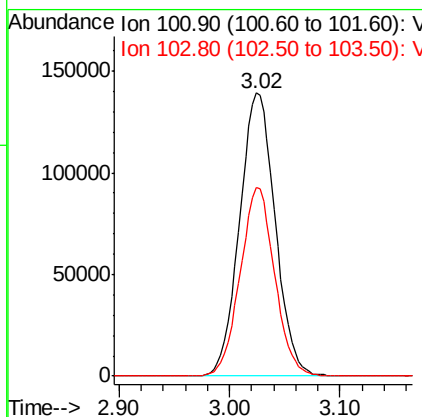
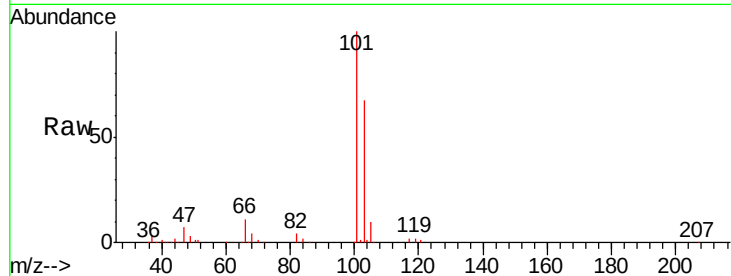
Trichlorofluoromethane
 Concen: 19.448 ug/l
 RT: 3.02 min Scan# 389
 Delta R.T. -0.00 min
 Lab File: VN053101.D
 Acq: 21 Dec 2018 14:51

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1221MBS01

Tgt Ion	Ratio	Lower	Upper
101	100		
103	66.6	51.8	77.6

Manual Integrations
 APPROVED

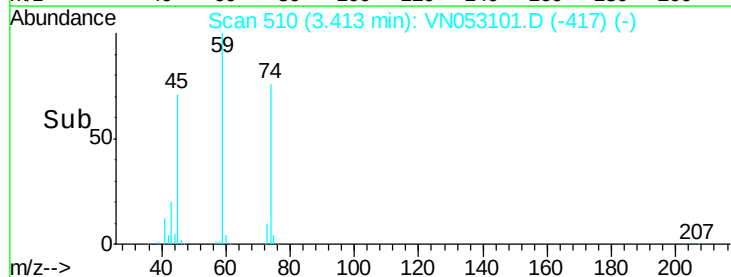
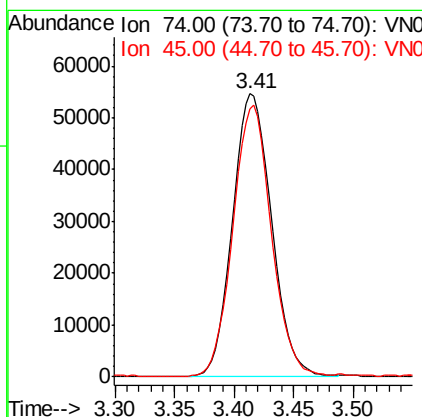
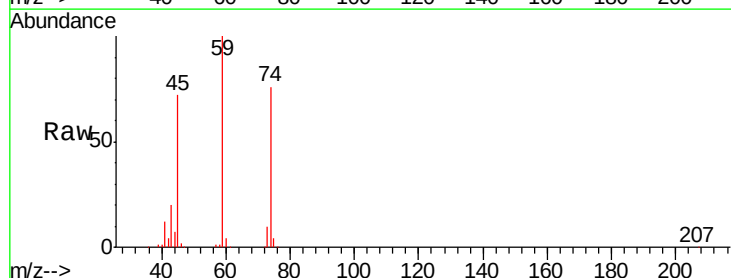
MMDadoda
 12/22/2018 10:06:31 AM

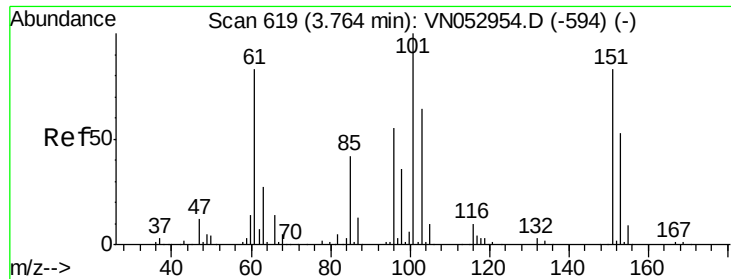


#8

Diethyl Ether
 Concen: 20.658 ug/l
 RT: 3.41 min Scan# 510
 Delta R.T. -0.00 min
 Lab File: VN053101.D
 Acq: 21 Dec 2018 14:51

Tgt Ion	Ratio	Lower	Upper
74	100		
45	94.7	49.4	148.0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 19.405 ug/l

RT: 3.77 min Scan# 620

Delta R.T. 0.00 min

Lab File: VN053101.D

Acq: 21 Dec 2018 14:51

Instrument :

MSVOA_N

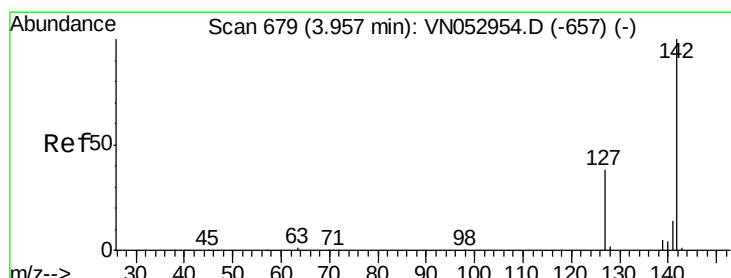
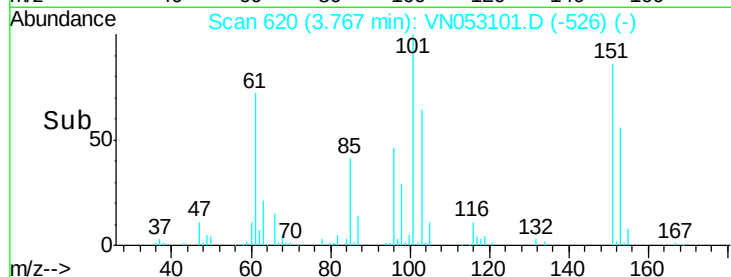
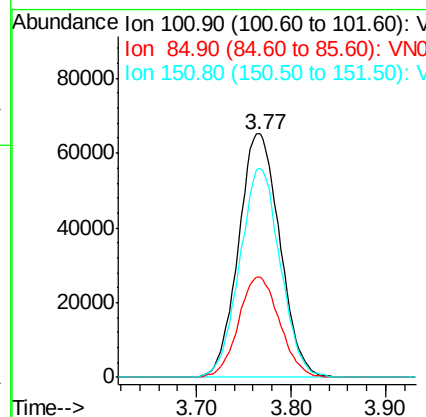
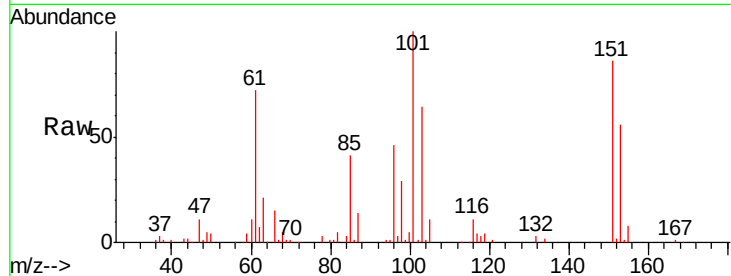
ClientSampleId :

VN1221MBS01

Tgt	Ion	101	Resp:	197863
Ion	Ratio	Lower	Upper	
101	100			
85	41.0	33.6	50.4	
151	84.5	65.5	98.3	

Manual Integrations
APPROVED

MMDadoda
12/22/2018 10:06:31 AM



#10

Methyl Iodide

Concen: 16.578 ug/l

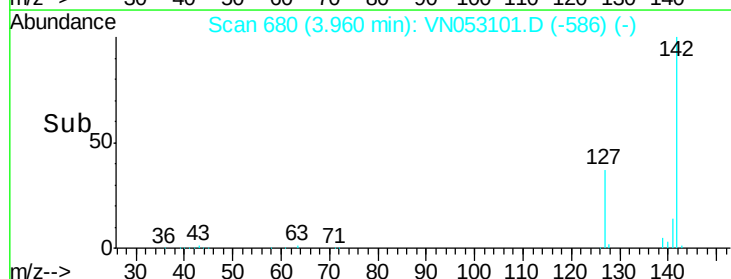
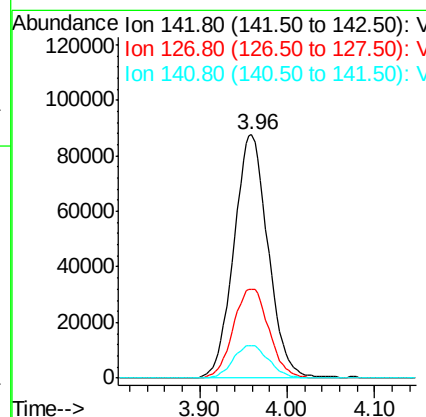
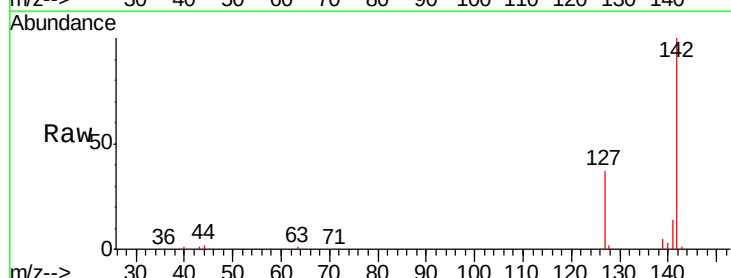
RT: 3.96 min Scan# 680

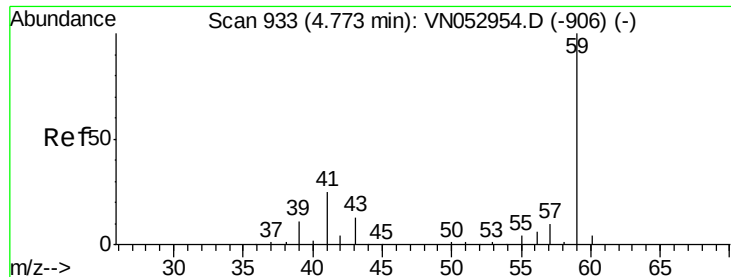
Delta R.T. 0.00 min

Lab File: VN053101.D

Acq: 21 Dec 2018 14:51

Tgt	Ion	142	Resp:	237381
Ion	Ratio	Lower	Upper	
142	100			
127	38.2	31.0	46.6	
141	14.0	11.2	16.8	





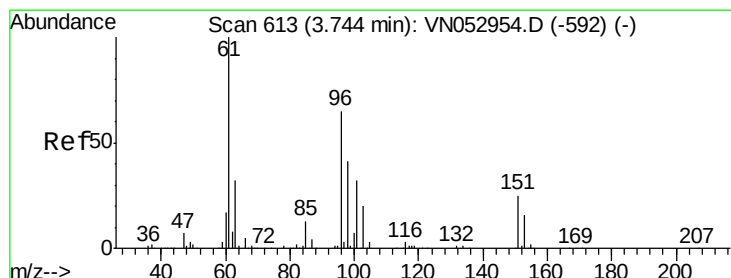
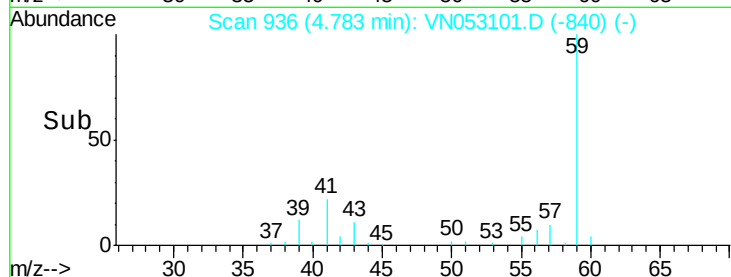
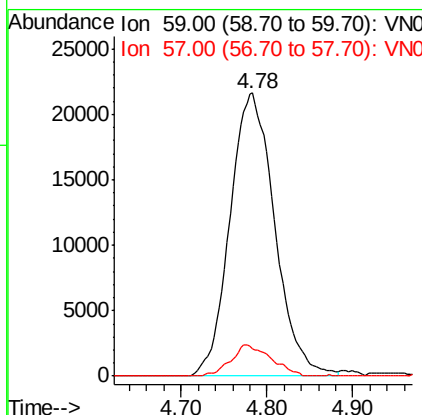
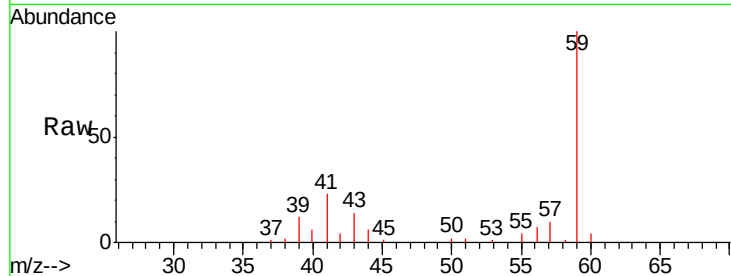
#11
Tert butyl alcohol
Concen: 122.154 ug/l
RT: 4.78 min Scan# 936
Delta R.T. 0.01 min
Lab File: VN053101.D
Acq: 21 Dec 2018 14:51

Instrument :
MSVOA_N
ClientSampleId :
VN1221MBS01

Tgt Ion: 59 Resp: 78174
Ion Ratio Lower Upper
59 100
57 9.9 7.7 11.5

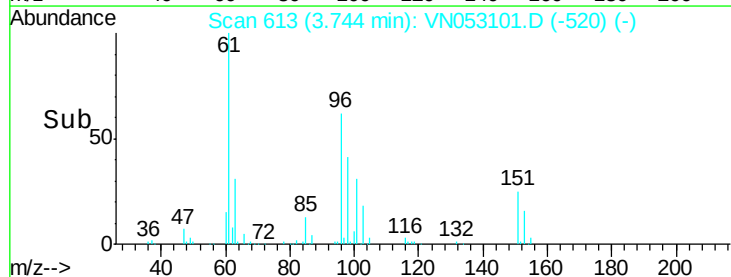
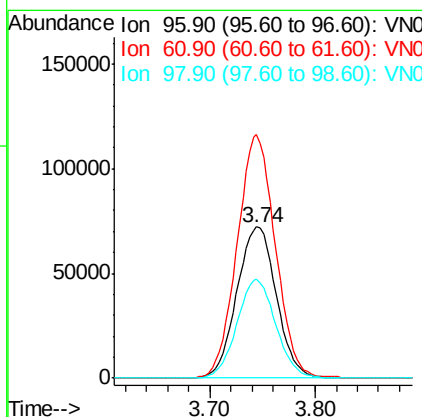
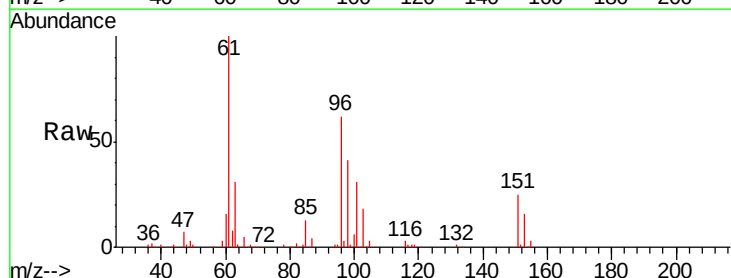
Manual Integrations
APPROVED

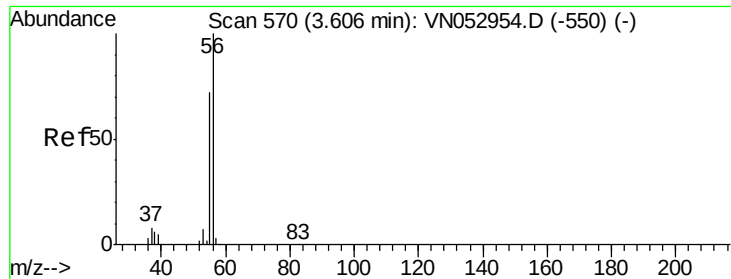
MMDadoda
12/22/2018 10:06:31 AM



#12
1,1-Dichloroethene
Concen: 19.093 ug/l
RT: 3.74 min Scan# 613
Delta R.T. -0.00 min
Lab File: VN053101.D
Acq: 21 Dec 2018 14:51

Tgt Ion: 96 Resp: 188085
Ion Ratio Lower Upper
96 100
61 161.2 125.6 188.4
98 65.5 50.6 75.8





#13

Acrolein

Concen: 136.087 ug/l

RT: 3.61 min Scan# 571

Delta R.T. 0.00 min

Lab File: VN053101.D

Acq: 21 Dec 2018 14:51

Instrument :

MSVOA_N

ClientSampleId :

VN1221MBS01

Tgt Ion: 56 Resp: 78969

Ion Ratio Lower Upper

56 100

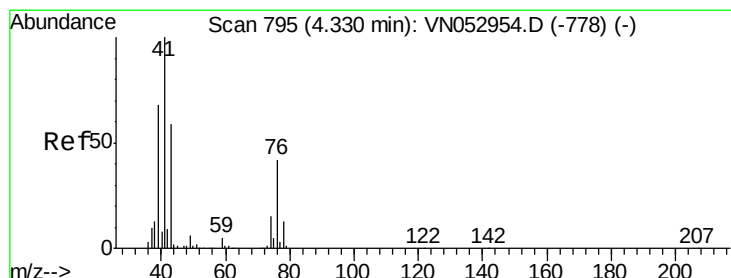
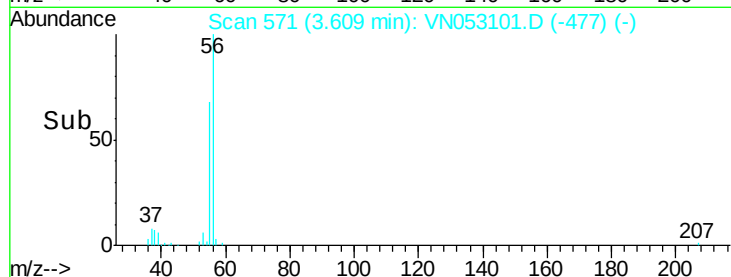
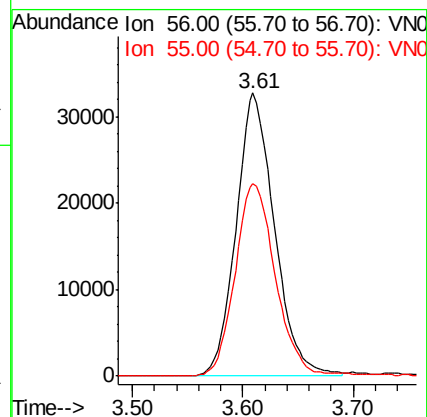
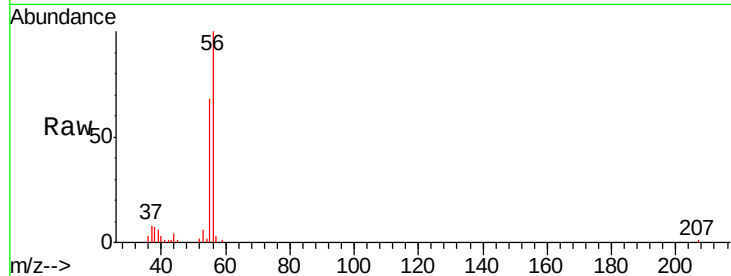
55 71.7 56.6 85.0

Manual Integrations

APPROVED

MMDadoda

12/22/2018 10:06:31 AM



#14

Allyl chloride

Concen: 20.539 ug/l

RT: 4.33 min Scan# 795

Delta R.T. -0.00 min

Lab File: VN053101.D

Acq: 21 Dec 2018 14:51

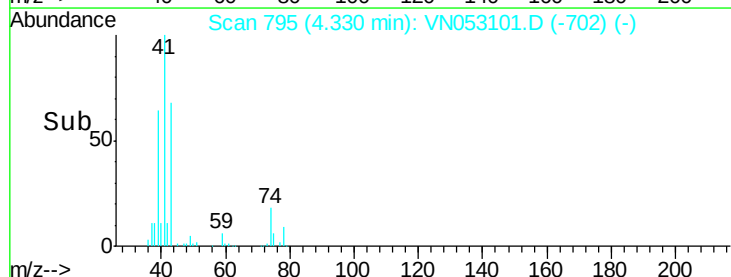
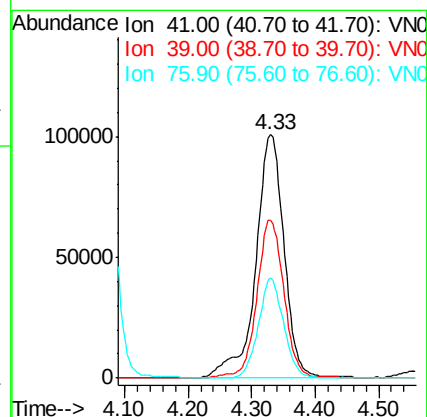
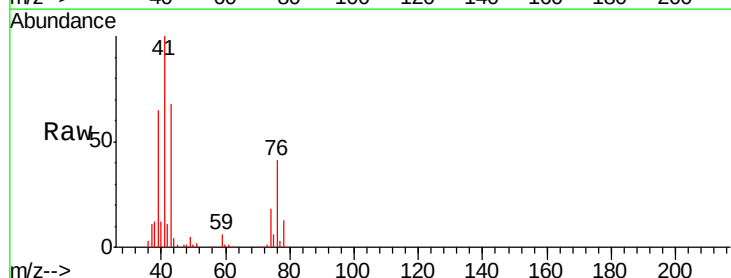
Tgt Ion: 41 Resp: 313403

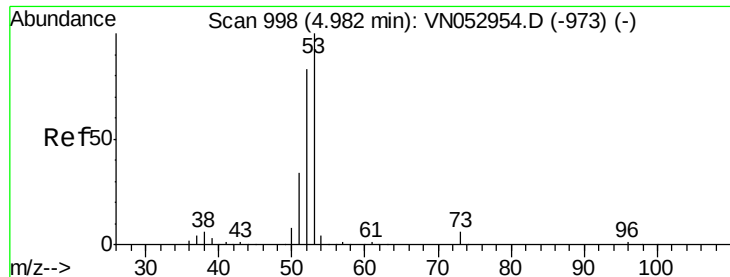
Ion Ratio Lower Upper

41 100

39 61.6 54.1 81.1

76 35.8 30.3 45.5





#15

Acrylonitrile

Concen: 109.972 ug/l

RT: 4.99 min Scan# 1001

Delta R.T. 0.01 min

Lab File: VN053101.D

Acq: 21 Dec 2018 14:51

Instrument :

MSVOA_N

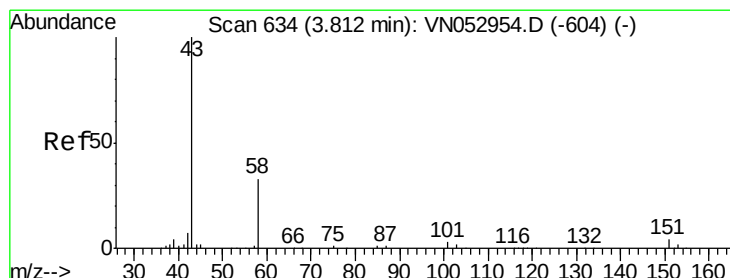
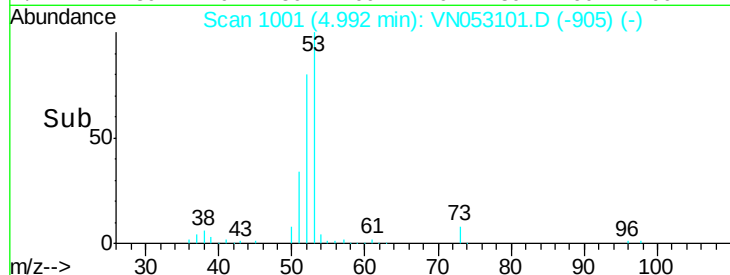
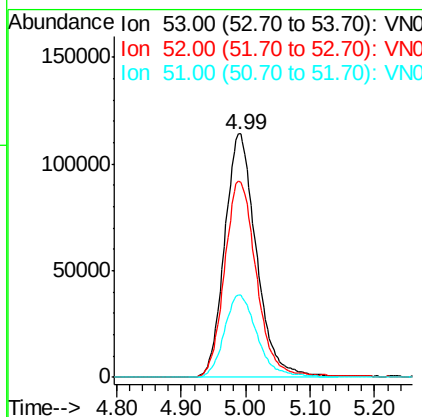
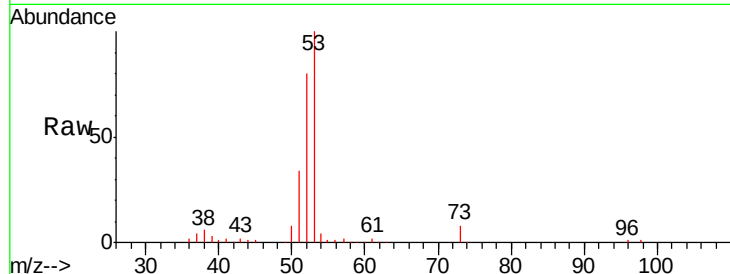
ClientSampleId :

VN1221MBS01

Tgt Ion:	53	Resp:	390984
Ion	Ratio	Lower	Upper
53	100		
52	80.5	65.1	97.7
51	35.3	28.1	42.1

Manual Integrations
APPROVED

MMDadoda
12/22/2018 10:06:31 AM



#16

Acetone

Concen: 116.272 ug/l

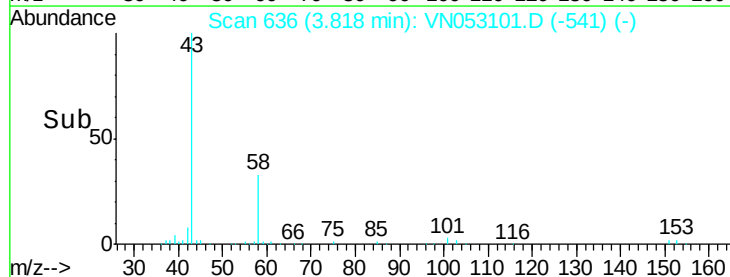
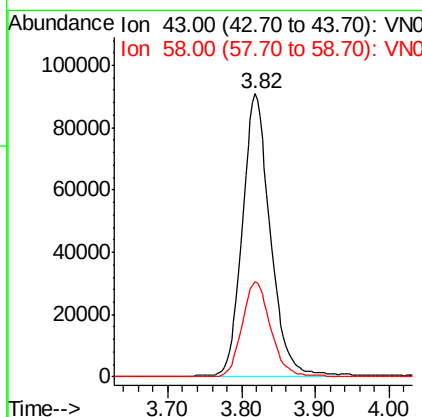
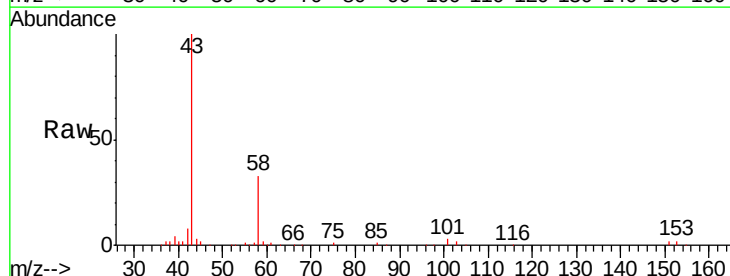
RT: 3.82 min Scan# 636

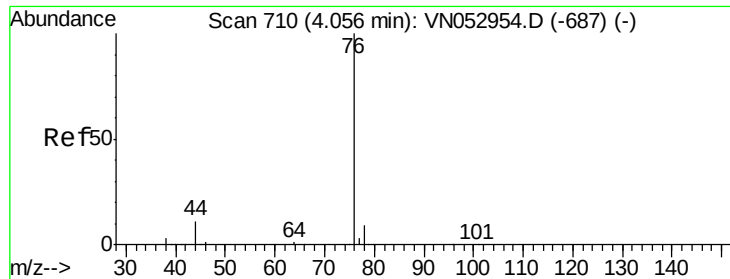
Delta R.T. 0.01 min

Lab File: VN053101.D

Acq: 21 Dec 2018 14:51

Tgt Ion:	43	Resp:	239109
Ion	Ratio	Lower	Upper
43	100		
58	33.5	25.4	38.0





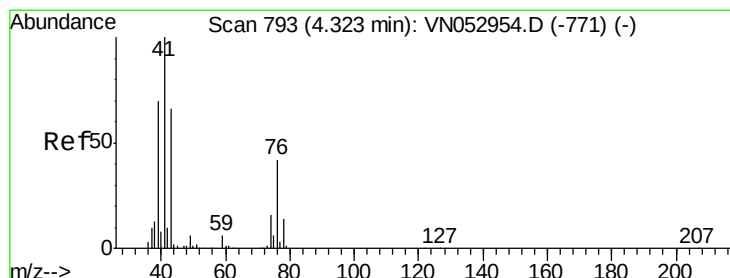
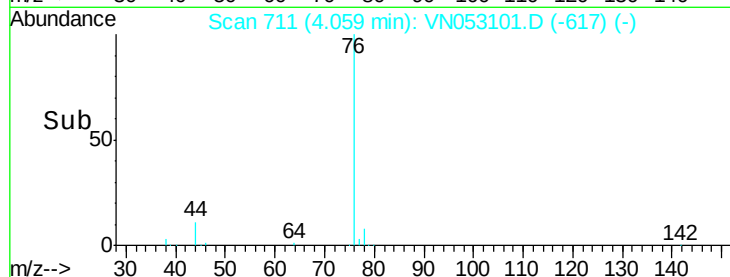
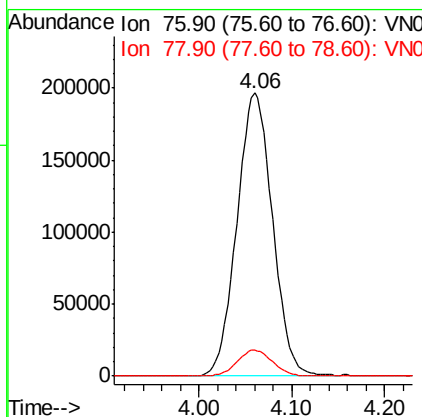
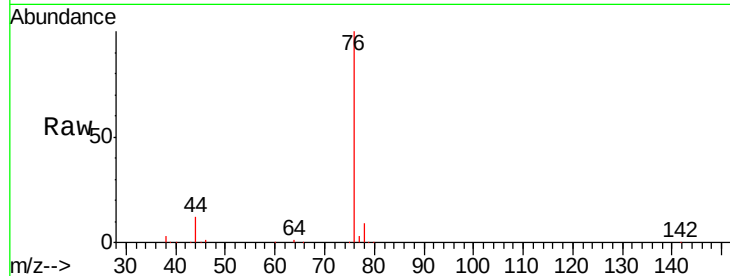
#17
Carbon Disulfide
Concen: 16.327 ug/l
RT: 4.06 min Scan# 711
Delta R.T. 0.00 min
Lab File: VN053101.D
Acq: 21 Dec 2018 14:51

Instrument :
MSVOA_N
ClientSampleId :
VN1221MBS01

Tgt Ion: 76 Resp: 524535
Ion Ratio Lower Upper
76 100
78 9.0 7.1 10.7

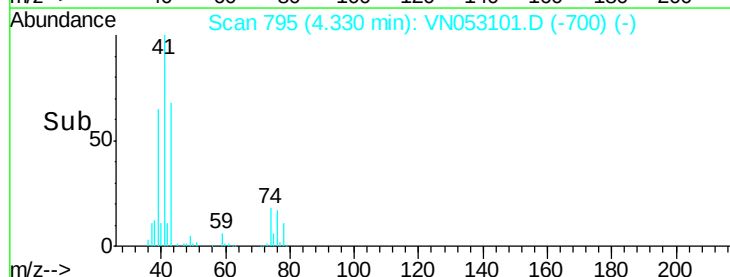
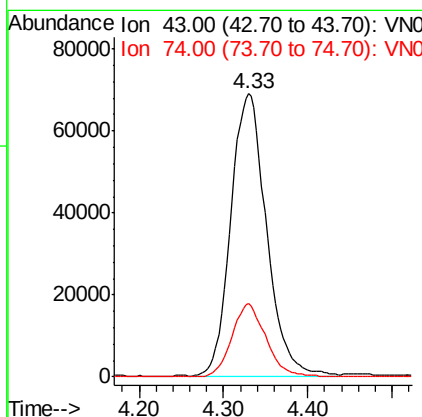
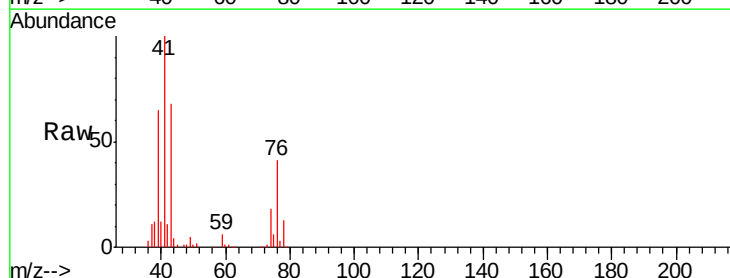
Manual Integrations
APPROVED

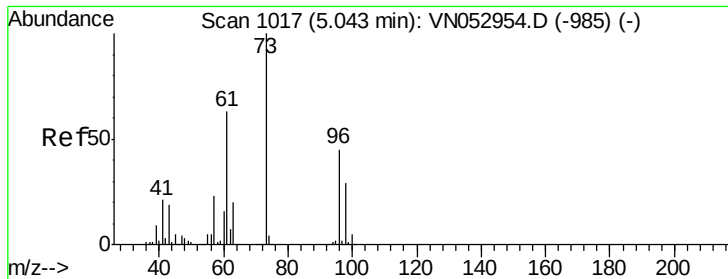
MMDadoda
12/22/2018 10:06:31 AM



#18
Methyl Acetate
Concen: 22.288 ug/l
RT: 4.33 min Scan# 795
Delta R.T. 0.01 min
Lab File: VN053101.D
Acq: 21 Dec 2018 14:51

Tgt Ion: 43 Resp: 202790
Ion Ratio Lower Upper
43 100
74 24.8 19.2 28.8





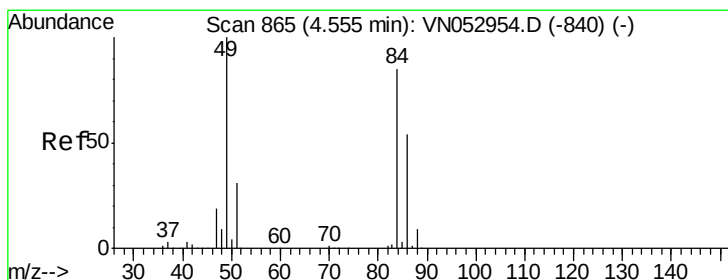
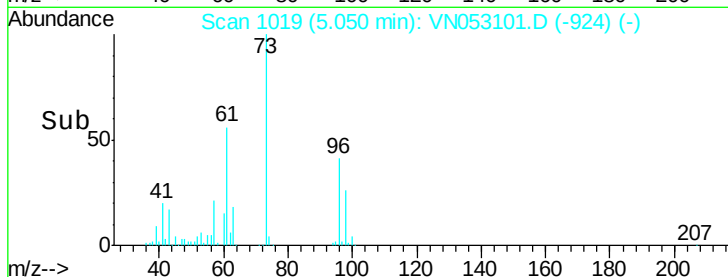
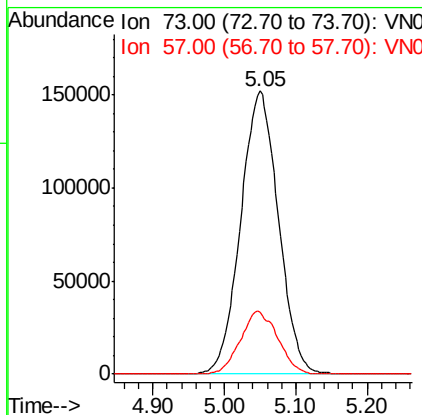
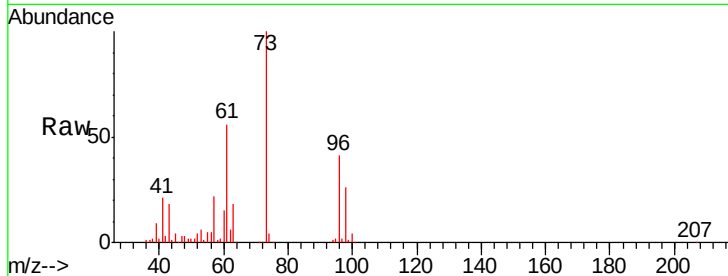
#19
Methyl tert-butyl Ether
Concen: 21.141 ug/l
RT: 5.05 min Scan# 1019
Delta R.T. 0.01 min
Lab File: VN053101.D
Acq: 21 Dec 2018 14:51

Instrument :
MSVOA_N
ClientSampleId :
VN1221MBS01

Tgt Ion: 73 Resp: 557307
Ion Ratio Lower Upper
73 100
57 21.8 18.4 27.6

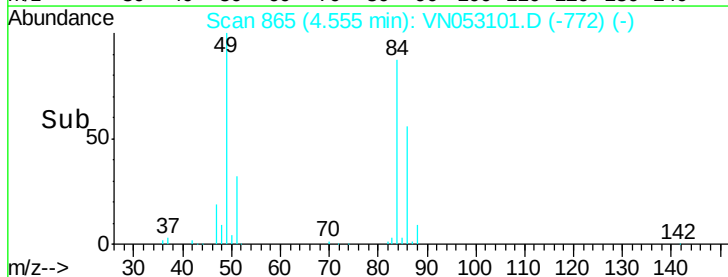
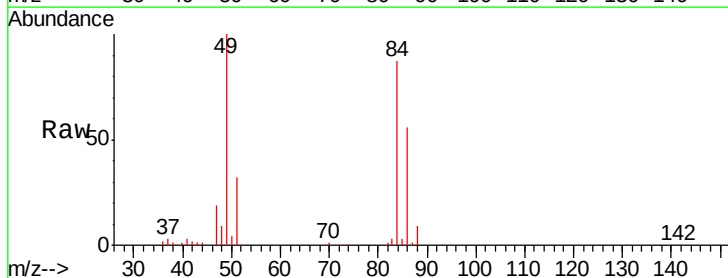
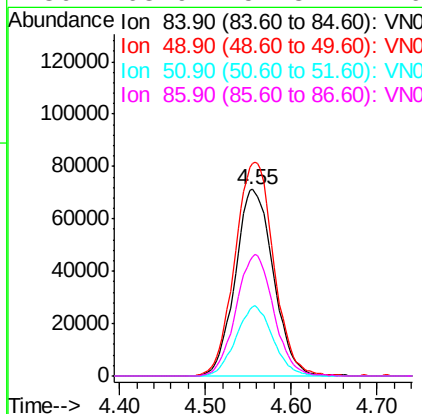
Manual Integrations
APPROVED

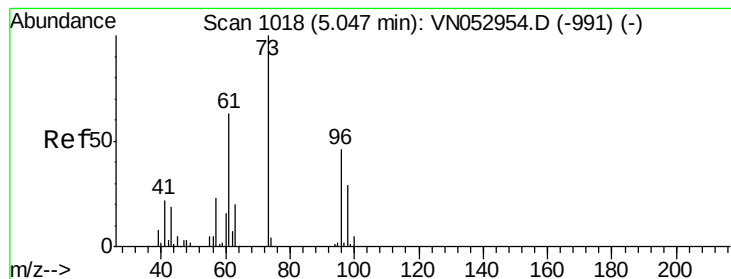
MMDadoda
12/22/2018 10:06:31 AM



#20
Methylene Chloride
Concen: 19.595 ug/l
RT: 4.55 min Scan# 865
Delta R.T. -0.00 min
Lab File: VN053101.D
Acq: 21 Dec 2018 14:51

Tgt Ion: 84 Resp: 219812
Ion Ratio Lower Upper
84 100
49 114.3 96.8 145.2
51 37.0 29.9 44.9
86 63.9 51.8 77.6





#21

trans-1,2-Dichloroethene

Concen: 18.955 ug/l

RT: 5.05 min Scan# 1019

Delta R.T. 0.00 min

Lab File: VN053101.D

Acq: 21 Dec 2018 14:51

Instrument :

MSVOA_N

ClientSampleId :

VN1221MBS01

Tgt Ion: 96 Resp: 200618

Ion Ratio Lower Upper

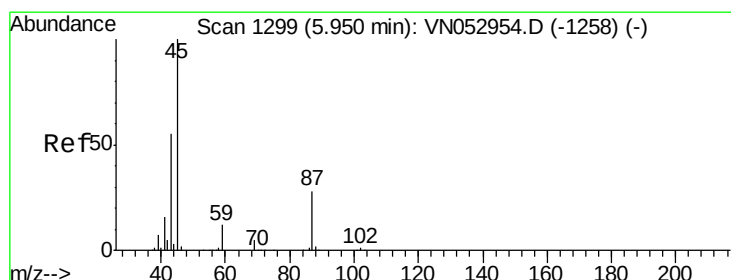
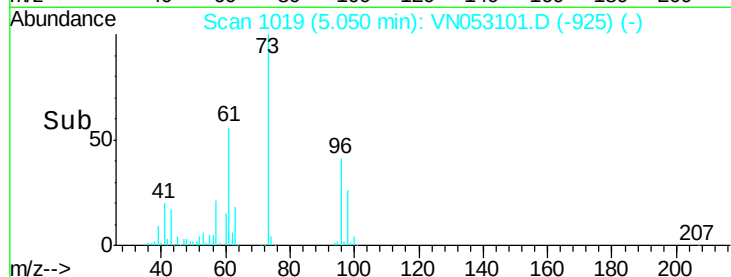
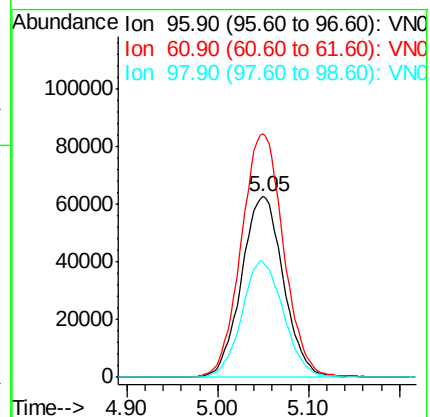
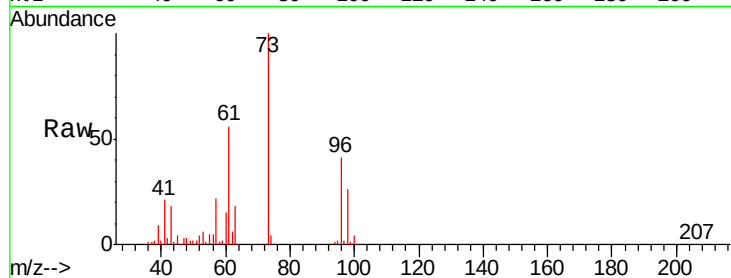
96 100

61 134.6 110.8 166.2

98 63.8 51.4 77.2

Manual Integrations
APPROVED

MMDadoda
12/22/2018 10:06:31 AM



#22

Diisopropyl ether

Concen: 20.746 ug/l

RT: 5.96 min Scan# 1301

Delta R.T. 0.01 min

Lab File: VN053101.D

Acq: 21 Dec 2018 14:51

Tgt Ion: 45 Resp: 675696

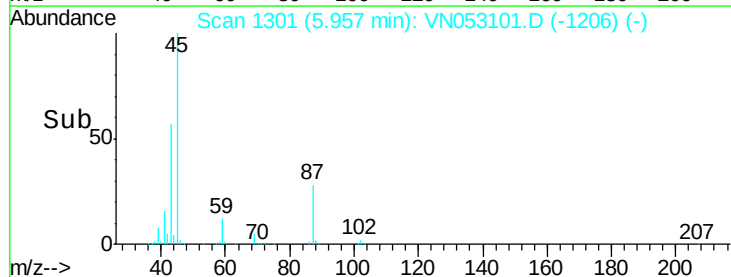
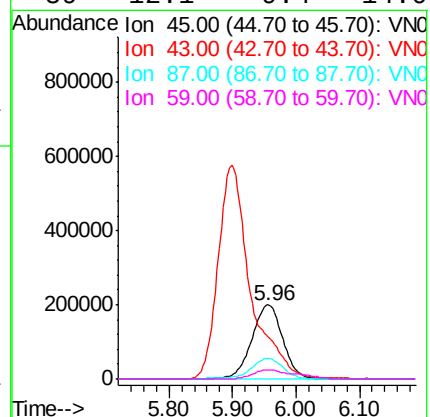
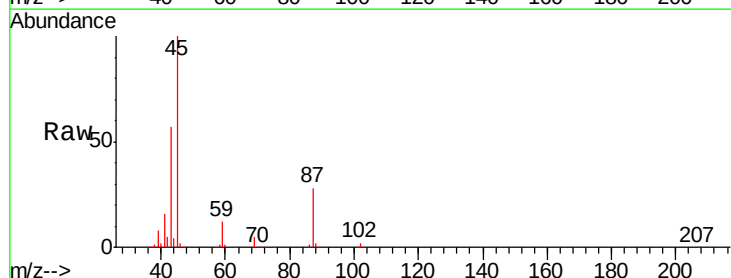
Ion Ratio Lower Upper

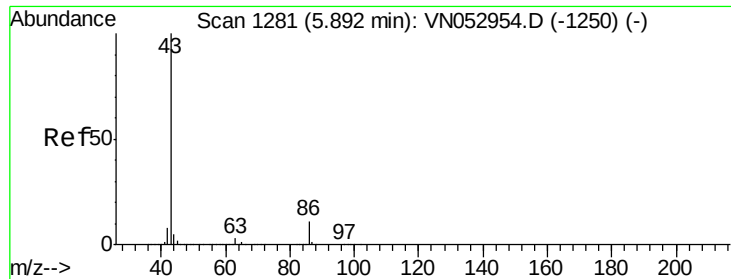
45 100

43 55.9 45.5 68.3

87 27.9 22.0 33.0

59 12.1 9.4 14.0





#23

Vinyl Acetate

Concen: 108.438 ug/l

RT: 5.90 min Scan# 1283

Delta R.T. 0.01 min

Lab File: VN053101.D

Acq: 21 Dec 2018 14:51

Instrument :

MSVOA_N

ClientSampleId :

VN1221MBS01

Tgt Ion: 43 Resp: 2030924

Ion Ratio Lower Upper

43 100

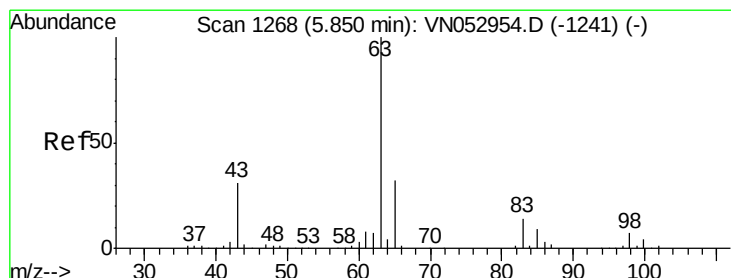
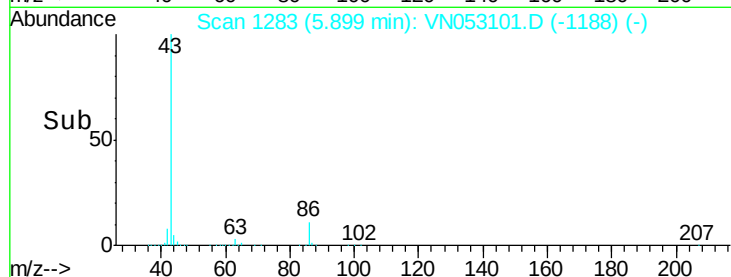
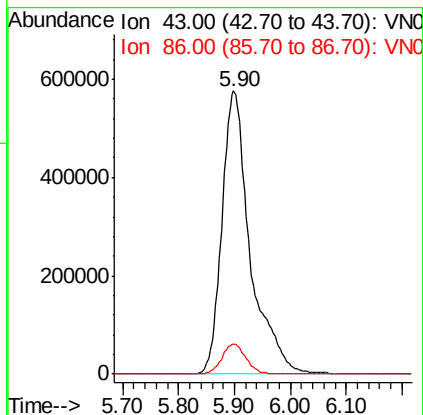
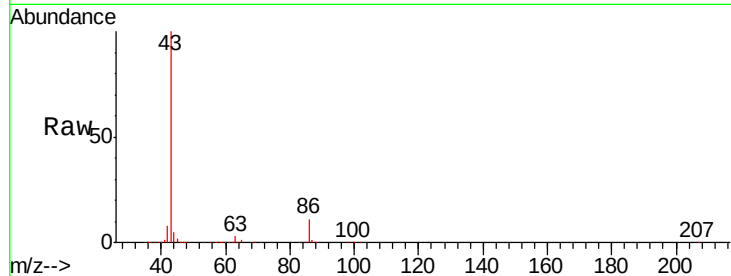
86 10.7 8.1 12.1

Manual Integrations

APPROVED

MMDadoda

12/22/2018 10:06:31 AM



#24

1,1-Dichloroethane

Concen: 19.638 ug/l

RT: 5.85 min Scan# 1269

Delta R.T. 0.00 min

Lab File: VN053101.D

Acq: 21 Dec 2018 14:51

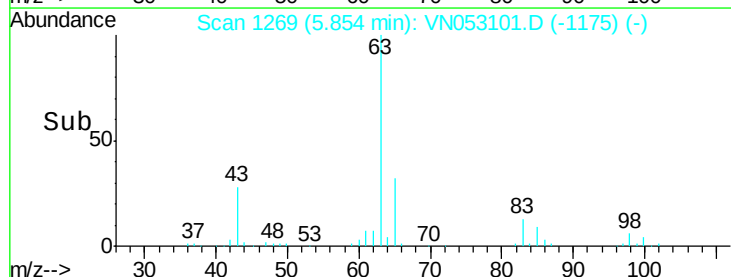
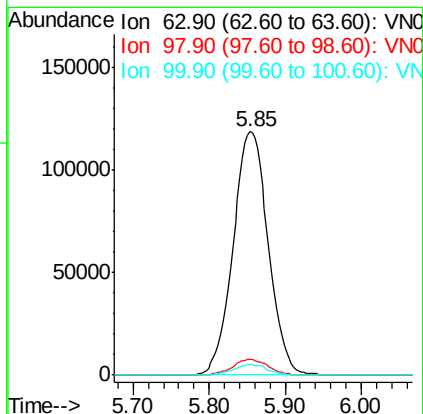
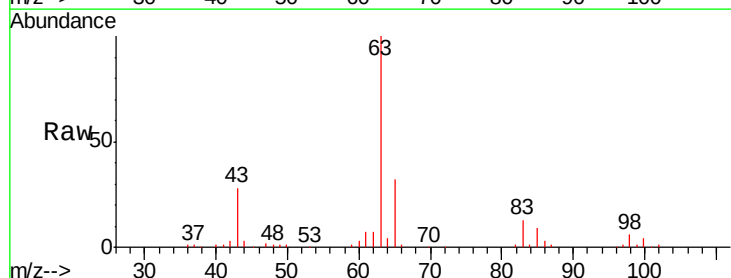
Tgt Ion: 63 Resp: 380084

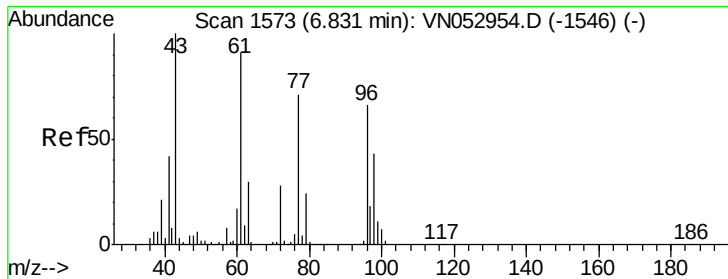
Ion Ratio Lower Upper

63 100

98 6.4 3.1 9.4

100 4.3 2.0 5.8





#25

2-Butanone

Concen: 121.510 ug/l

RT: 6.84 min Scan# 1575

Delta R.T. 0.01 min

Lab File: VN053101.D

Acq: 21 Dec 2018 14:51

Instrument :

MSVOA_N

ClientSampleId :

VN1221MBS01

Tgt Ion: 43 Resp: 419359

Ion Ratio Lower Upper

43 100

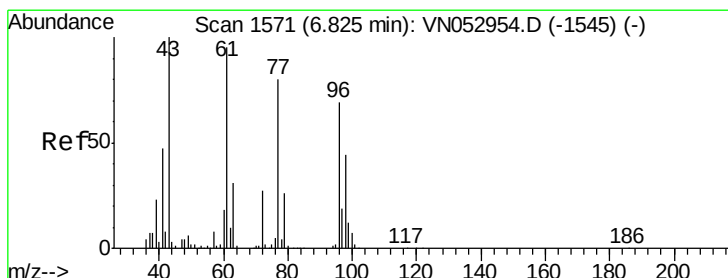
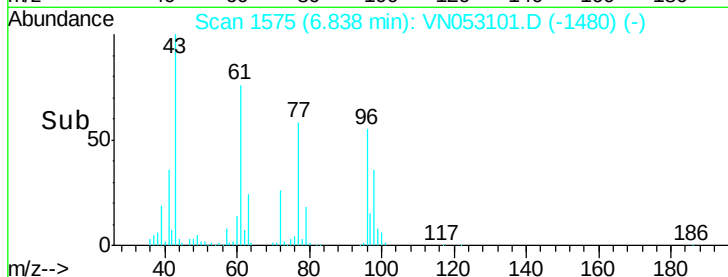
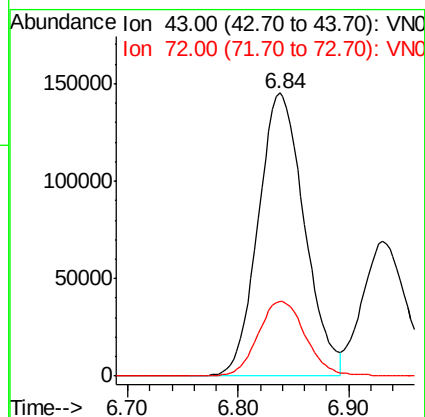
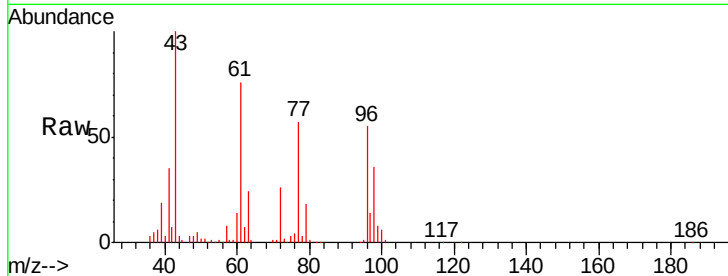
72 26.3 21.0 31.6

Manual Integrations

APPROVED

MMDadoda

12/22/2018 10:06:31 AM



#26

2,2-Dichloropropane

Concen: 19.172 ug/l

RT: 6.83 min Scan# 1572

Delta R.T. 0.00 min

Lab File: VN053101.D

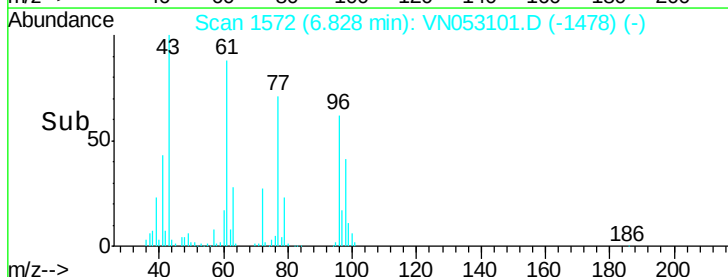
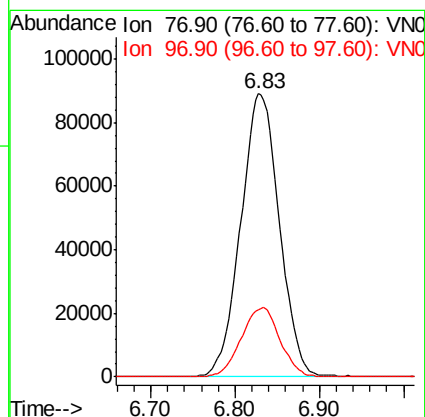
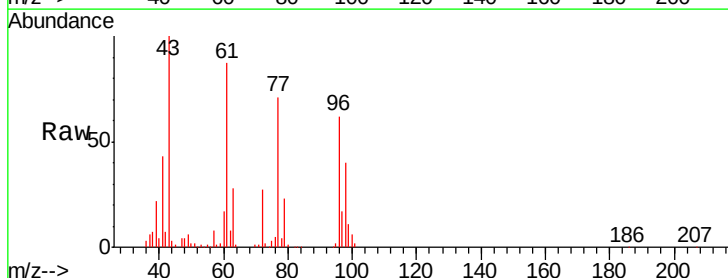
Acq: 21 Dec 2018 14:51

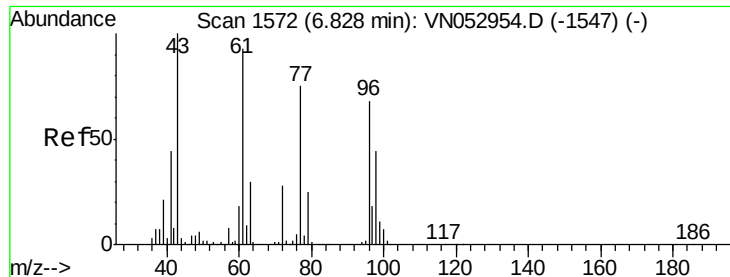
Tgt Ion: 77 Resp: 283246

Ion Ratio Lower Upper

77 100

97 24.6 11.9 35.9





#27

cis-1,2-Dichloroethene

Concen: 19.566 ug/l

RT: 6.83 min Scan# 1574

Delta R.T. 0.01 min

Lab File: VN053101.D

Acq: 21 Dec 2018 14:51

Instrument :

MSVOA_N

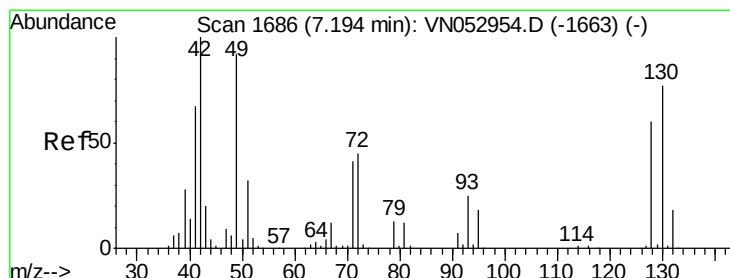
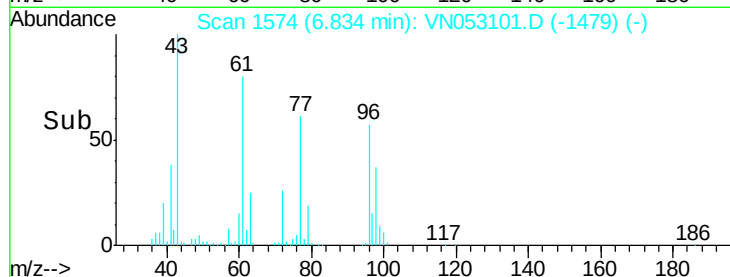
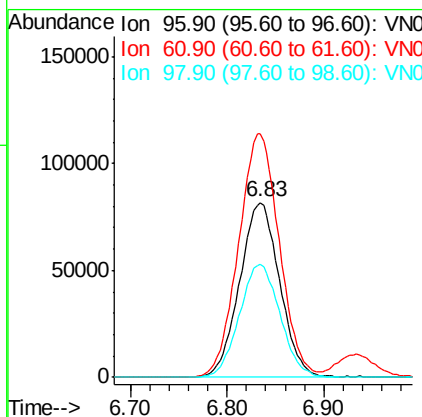
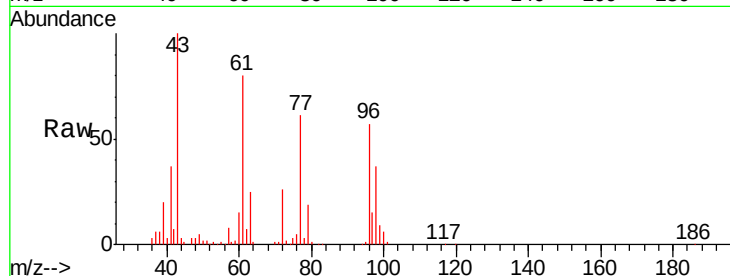
ClientSampleId :

VN1221MBS01

Tgt Ion:	96	Resp:	234440
Ion Ratio	Lower	Upper	
96	100		
61	142.3	0.0	284.2
98	65.9	0.0	129.2

Manual Integrations
APPROVED

MMDadoda
12/22/2018 10:06:31 AM



#28

Bromochloromethane

Concen: 21.761 ug/l

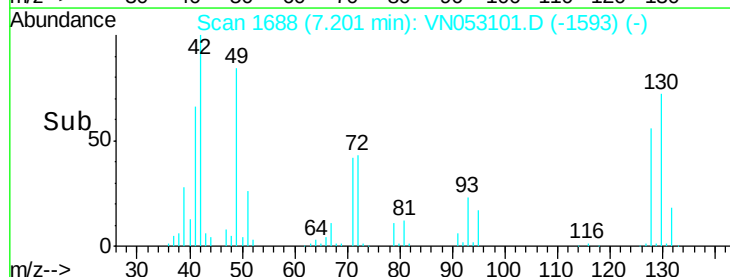
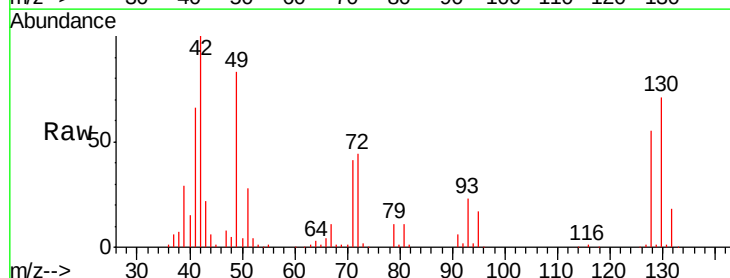
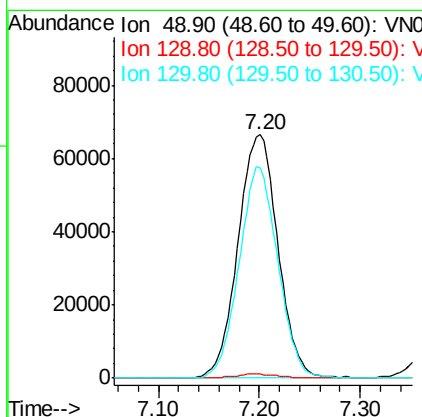
RT: 7.20 min Scan# 1688

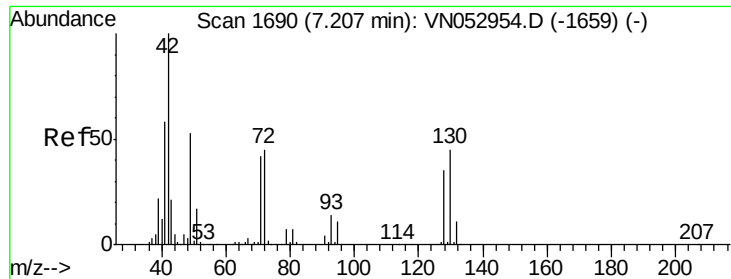
Delta R.T. 0.01 min

Lab File: VN053101.D

Acq: 21 Dec 2018 14:51

Tgt Ion:	49	Resp:	182495
Ion Ratio	Lower	Upper	
49	100		
129	1.7	0.0	4.0
130	84.3	63.3	94.9





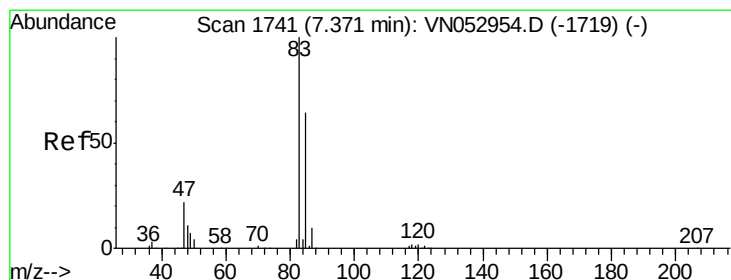
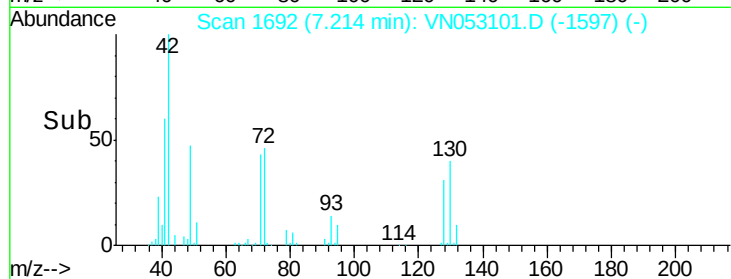
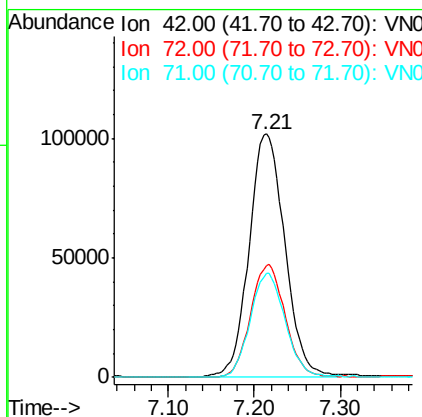
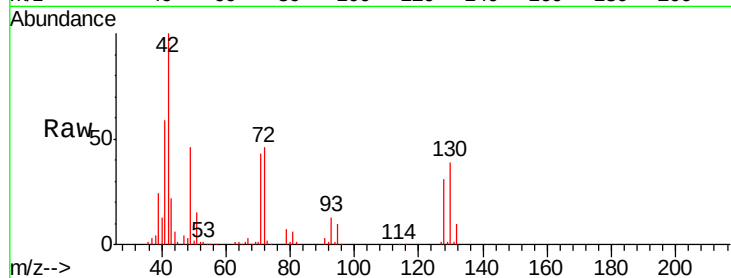
#29
Tetrahydrofuran
Concen: 113.996 ug/l
RT: 7.21 min Scan# 1692
Delta R.T. 0.01 min
Lab File: VN053101.D
Acq: 21 Dec 2018 14:51

Instrument :
MSVOA_N
ClientSampleId :
VN1221MBS01

Tgt Ion	Ratio	Lower	Upper
42	100		
72	45.2	34.7	52.1
71	42.2	32.3	48.5

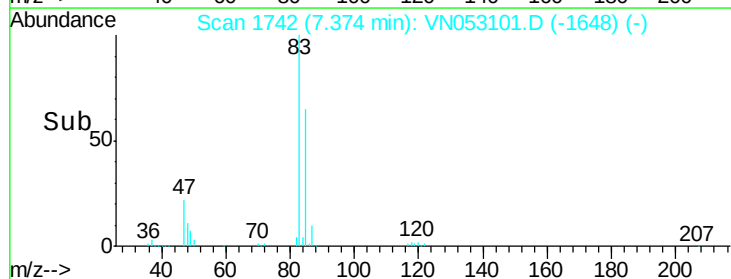
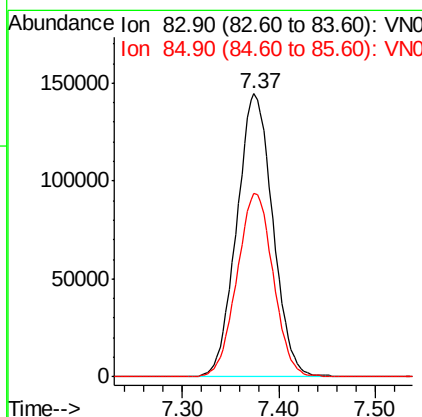
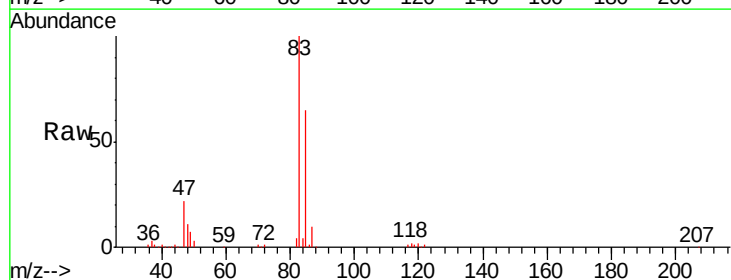
Manual Integrations
APPROVED

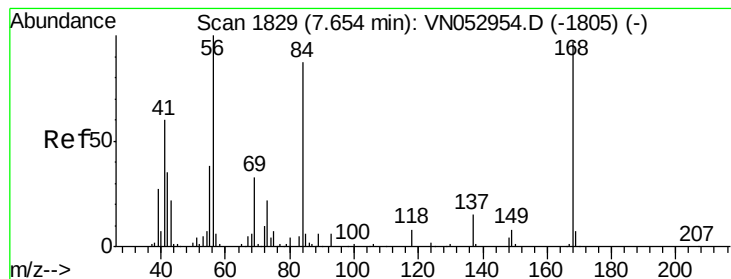
MMDadoda
12/22/2018 10:06:31 AM



#30
Chloroform
Concen: 19.712 ug/l
RT: 7.37 min Scan# 1742
Delta R.T. 0.00 min
Lab File: VN053101.D
Acq: 21 Dec 2018 14:51

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.7	52.1	78.1





#31

Cyclohexane

Concen: 19.112 ug/l

RT: 7.66 min Scan# 1830

Delta R.T. 0.00 min

Lab File: VN053101.D

Acq: 21 Dec 2018 14:51

Instrument :

MSVOA_N

ClientSampleId :

VN1221MBS01

Tgt Ion: 56 Resp: 358707
Ion Ratio Lower Upper

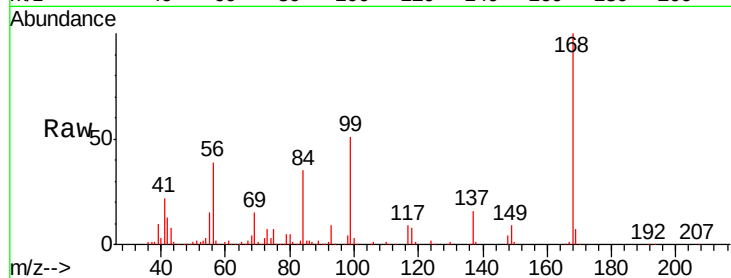
56 100

69 38.0 26.6 39.8

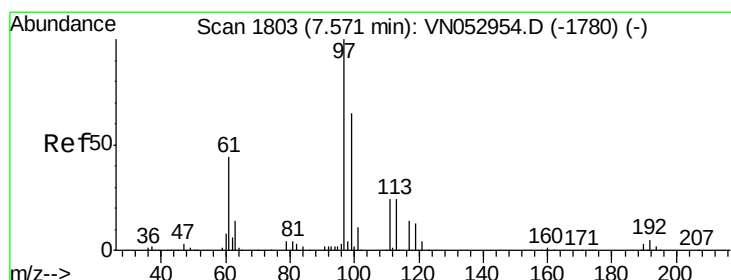
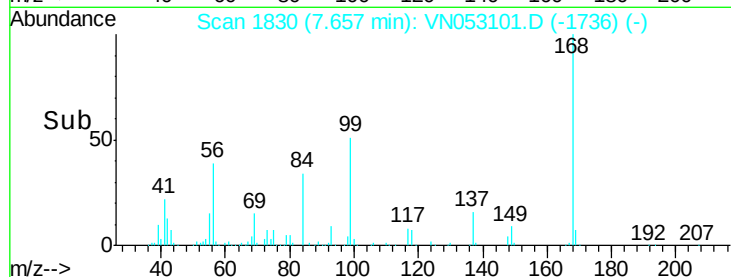
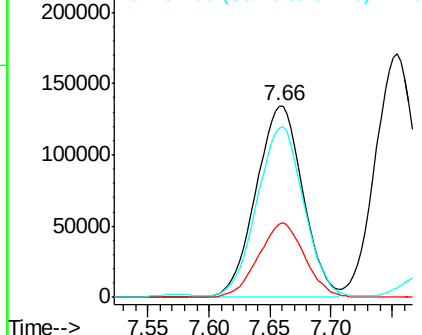
84 87.2 68.4 102.6

Manual Integrations
APPROVED

MMDadoda
12/22/2018 10:06:31 AM



Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0



#32

1,1,1-Trichloroethane

Concen: 19.493 ug/l

RT: 7.57 min Scan# 1804

Delta R.T. 0.00 min

Lab File: VN053101.D

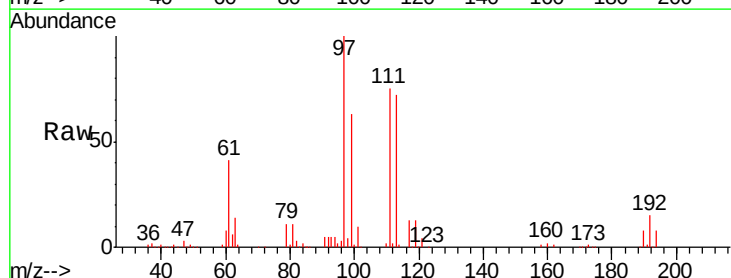
Acq: 21 Dec 2018 14:51

Tgt Ion: 97 Resp: 315721
Ion Ratio Lower Upper

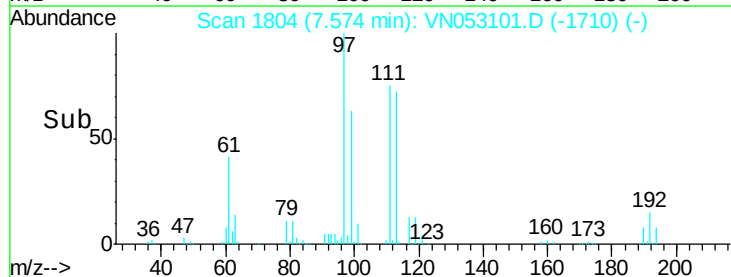
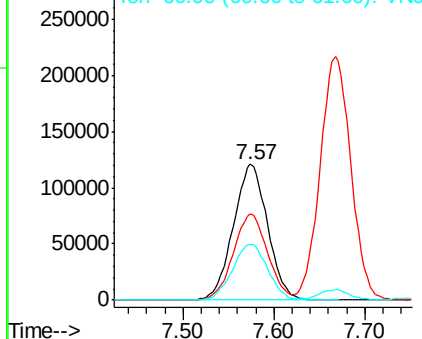
97 100

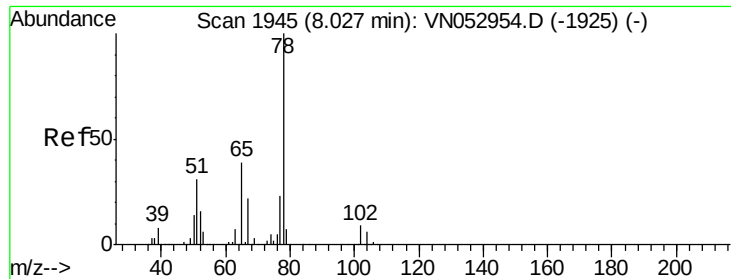
99 63.9 51.1 76.7

61 42.5 35.0 52.6



Abundance Ion 96.90 (96.60 to 97.60): VN0
Ion 98.90 (98.60 to 99.60): VN0
Ion 60.90 (60.60 to 61.60): VN0





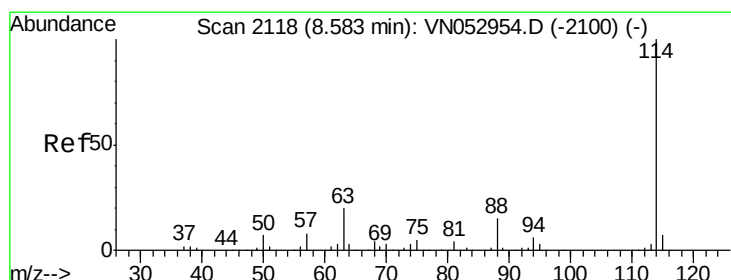
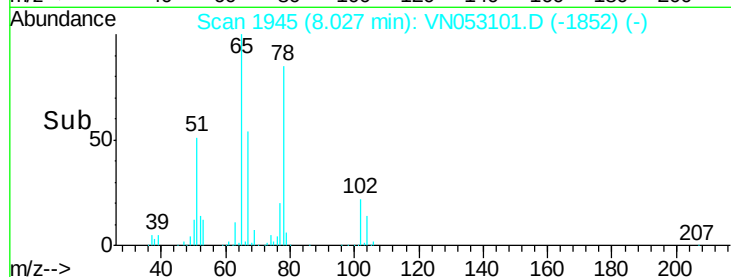
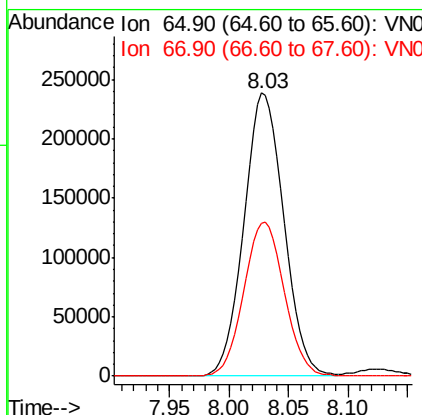
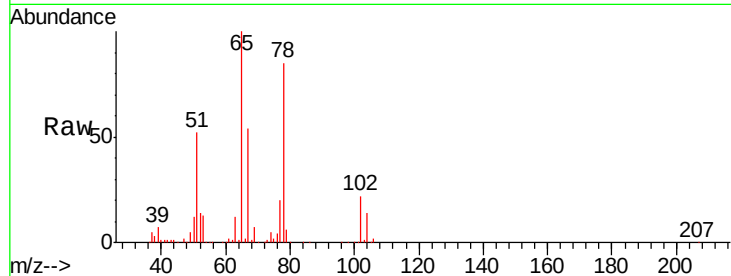
#33
 1,2-Dichloroethane-d4
 Concen: 19.493 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. -0.00 min
 Lab File: VN053101.D
 Acq: 21 Dec 2018 14:51

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1221MBS01

Tgt Ion: 65 Resp: 555453
 Ion Ratio Lower Upper
 65 100
 67 55.1 0.0 110.4

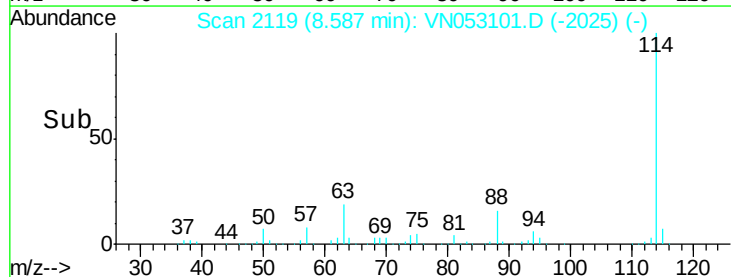
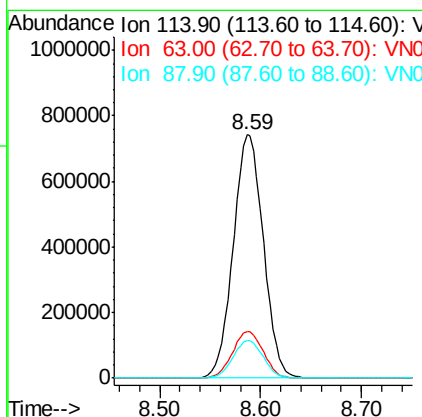
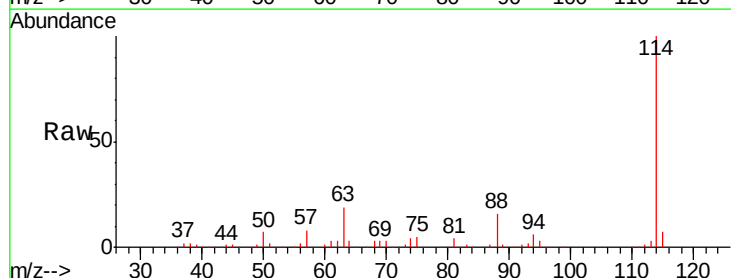
Manual Integrations
 APPROVED

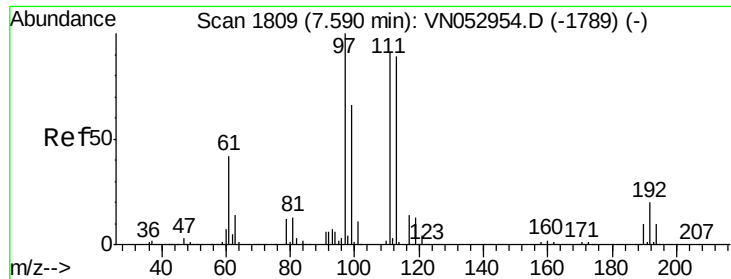
MMDadoda
 12/22/2018 10:06:31 AM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN053101.D
 Acq: 21 Dec 2018 14:51

Tgt Ion: 114 Resp: 1540502
 Ion Ratio Lower Upper
 114 100
 63 19.2 0.0 39.8
 88 15.6 0.0 31.0





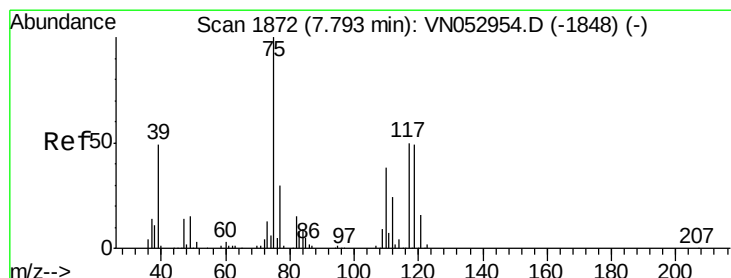
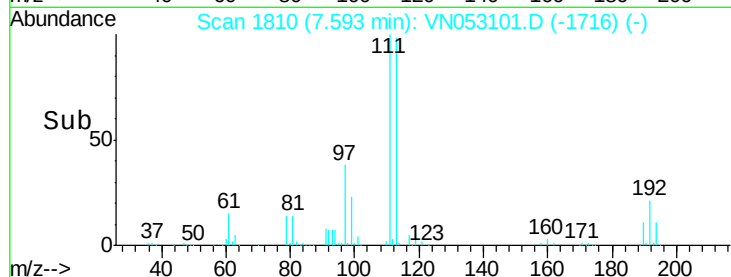
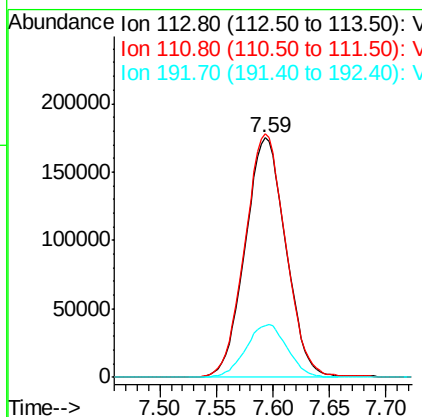
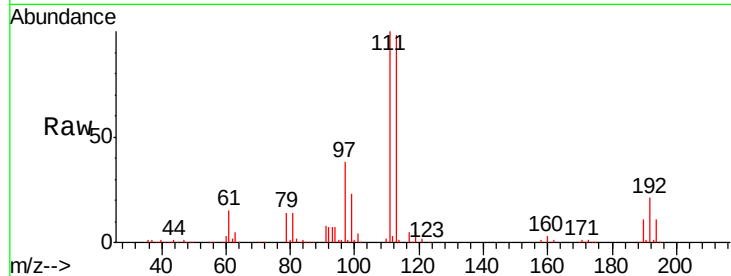
#35
Dibromofluoromethane
Concen: 50.000 ug/l
RT: 7.59 min Scan# 1810
Delta R.T. 0.00 min
Lab File: VN053101.D
Acq: 21 Dec 2018 14:51

Instrument :
MSVOA_N
ClientSampleId :
VN1221MBS01

Tgt Ion	Ratio	Resp	Lower	Upper
113	100	437580		
111	102.5	83.0	124.4	
192	22.6	17.5	26.3	

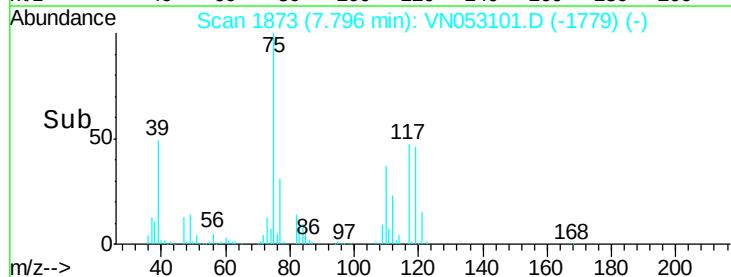
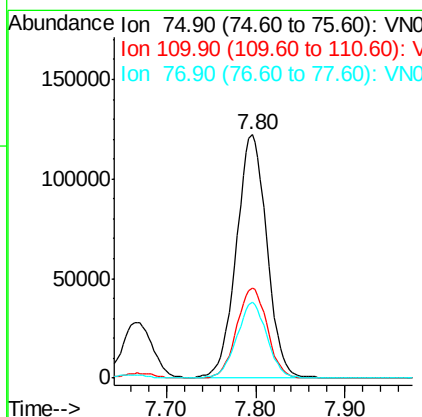
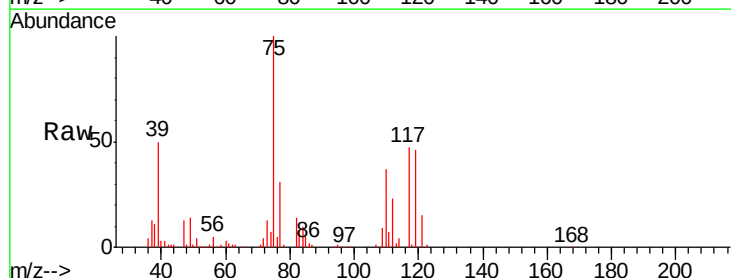
Manual Integrations
APPROVED

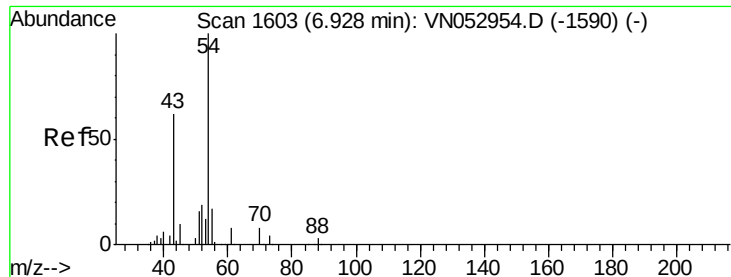
MMDadoda
12/22/2018 10:06:31 AM



#36
1,1-Dichloropropene
Concen: 19.567 ug/l
RT: 7.80 min Scan# 1873
Delta R.T. 0.00 min
Lab File: VN053101.D
Acq: 21 Dec 2018 14:51

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	289319		
110	37.1	18.2	54.6	
77	31.2	24.9	37.3	





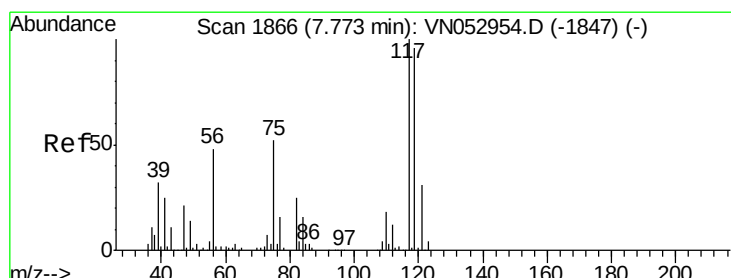
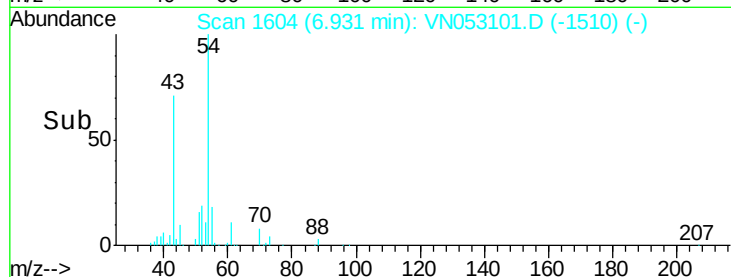
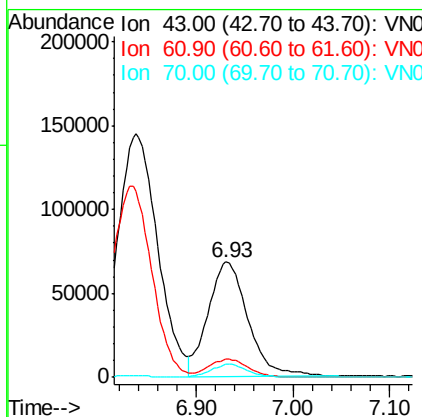
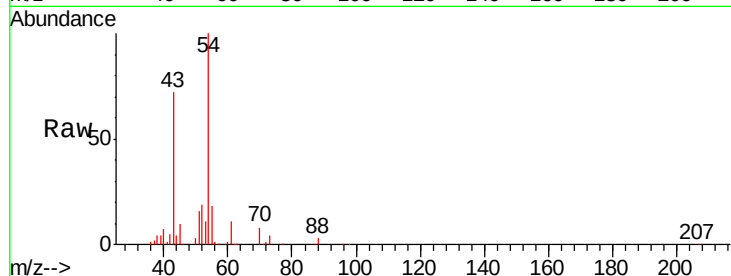
#37
Ethyl Acetate
Concen: 23.506 ug/l
RT: 6.93 min Scan# 1604
Delta R.T. 0.00 min
Lab File: VN053101.D
Acq: 21 Dec 2018 14:51

Instrument :
MSVOA_N
ClientSampleId :
VN1221MBS01

Tgt Ion	Ratio	Lower	Upper
43	100		
61	15.2	11.8	17.6
70	10.8	8.4	12.6

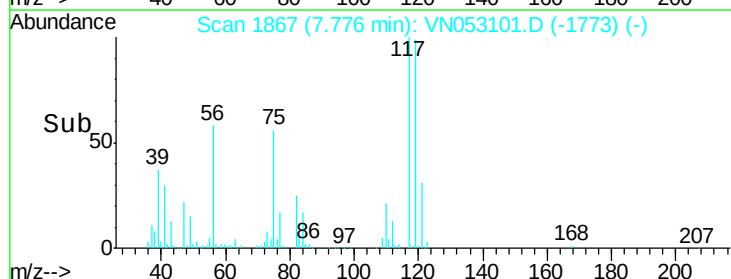
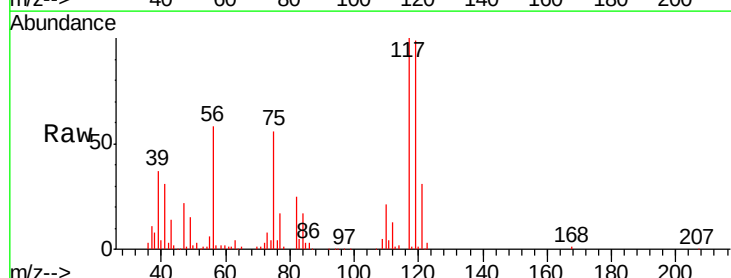
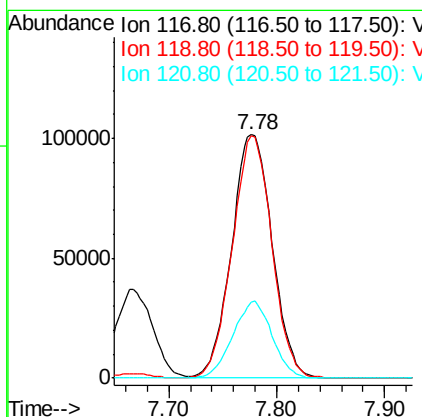
Manual Integrations
APPROVED

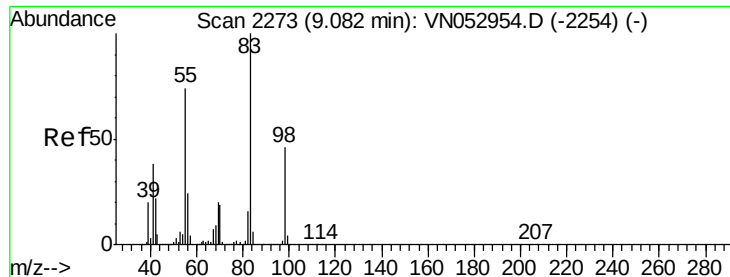
MMDadoda
12/22/2018 10:06:31 AM



#38
Carbon Tetrachloride
Concen: 19.532 ug/l
RT: 7.78 min Scan# 1867
Delta R.T. 0.00 min
Lab File: VN053101.D
Acq: 21 Dec 2018 14:51

Tgt Ion	Ratio	Lower	Upper
117	100		
119	99.4	77.1	115.7
121	31.1	24.9	37.3





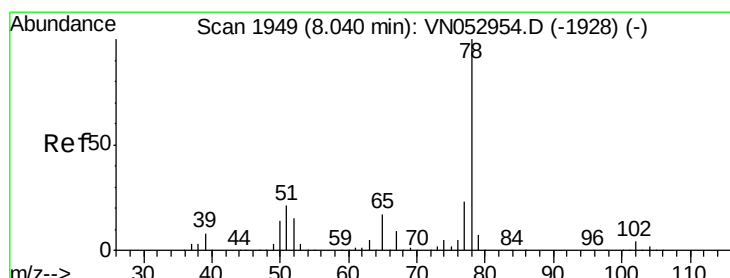
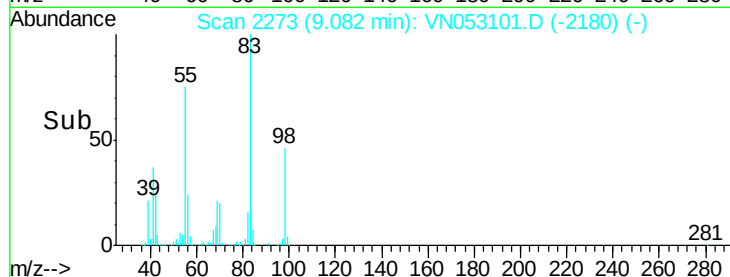
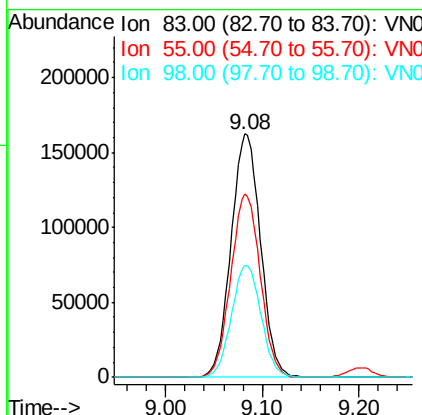
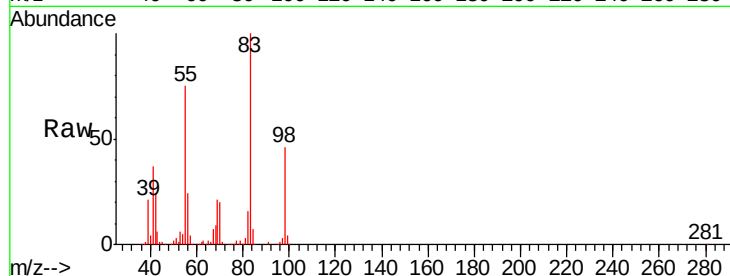
#39
Methylcyclohexane
Concen: 19.126 ug/l
RT: 9.08 min Scan# 2273
Delta R.T. -0.00 min
Lab File: VN053101.D
Acq: 21 Dec 2018 14:51

Instrument :
MSVOA_N
ClientSampleId :
VN1221MBS01

Tgt Ion	Ratio	Lower	Upper
83	100		
55	75.3	61.3	91.9
98	46.0	37.0	55.4

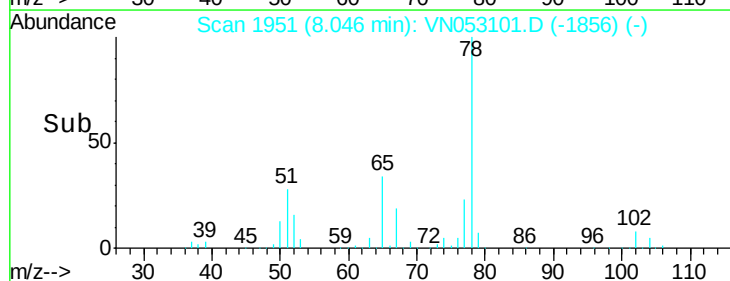
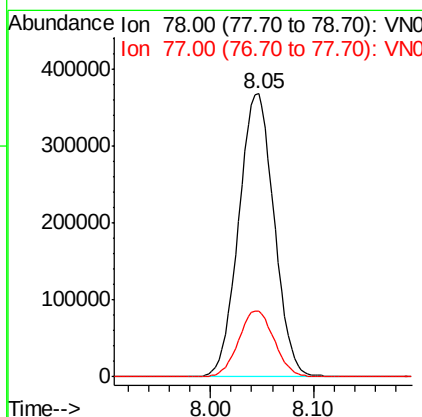
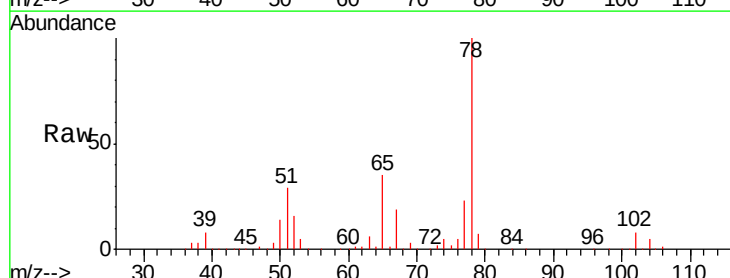
Manual Integrations
APPROVED

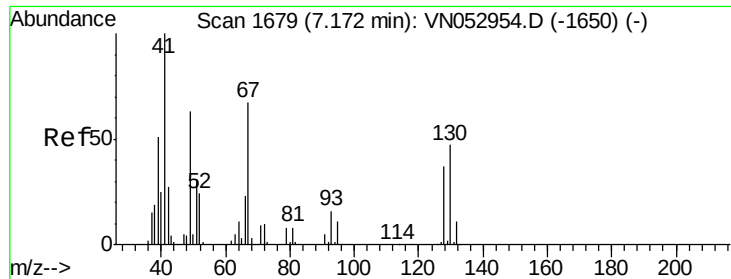
MMDadoda
12/22/2018 10:06:31 AM



#40
Benzene
Concen: 19.980 ug/l
RT: 8.05 min Scan# 1951
Delta R.T. 0.01 min
Lab File: VN053101.D
Acq: 21 Dec 2018 14:51

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.3	18.5	27.7





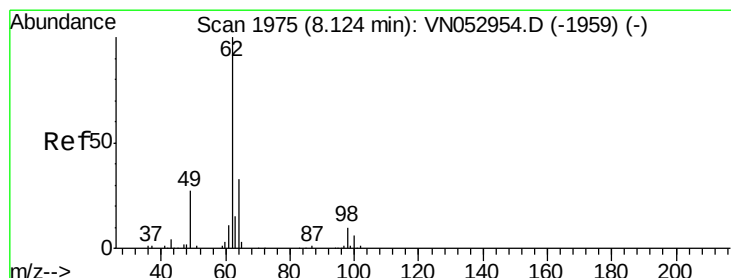
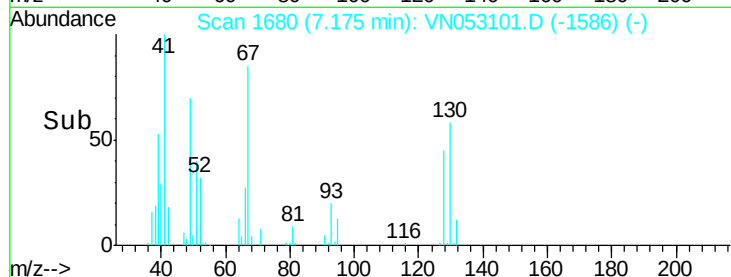
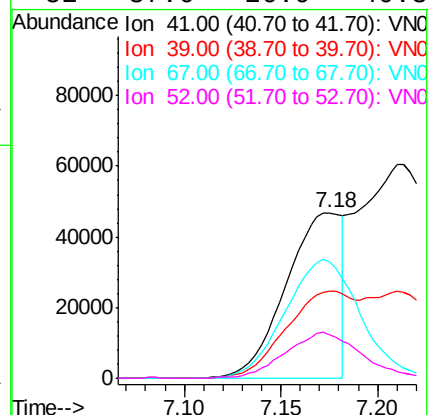
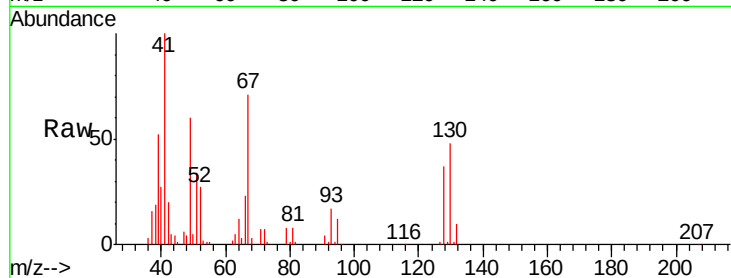
#41
Methacrylonitrile
Concen: 19.754 ug/l
RT: 7.18 min Scan# 1680
Delta R.T. 0.00 min
Lab File: VN053101.D
Acq: 21 Dec 2018 14:51

Instrument :
MSVOA_N
ClientSampleId :
VN1221MBS01

Tgt Ion	Ratio	Lower	Upper
41	100		
39	61.9	48.0	72.0
67	97.2	70.3	105.5
52	37.6	26.9	40.3

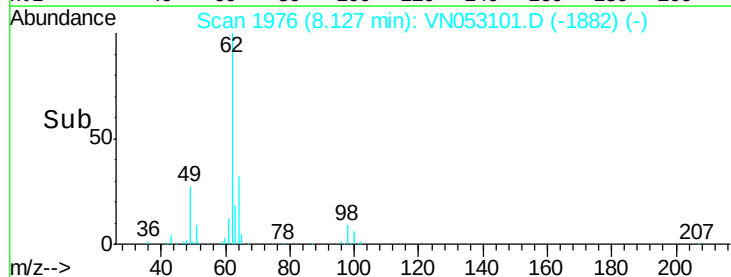
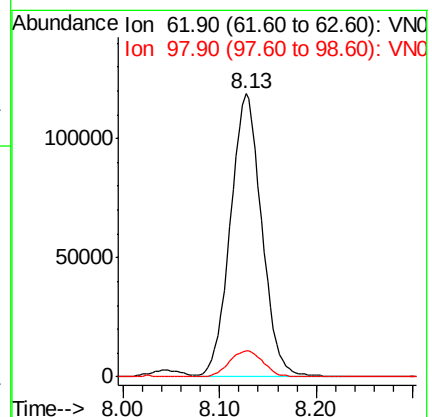
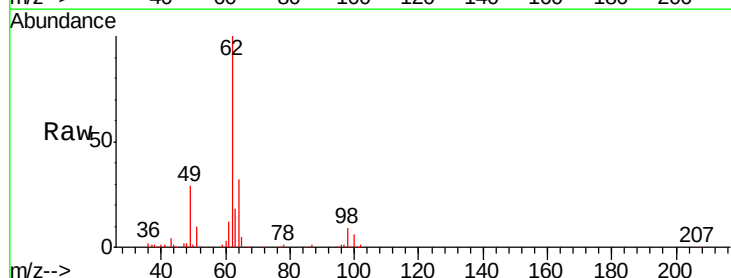
Manual Integrations
APPROVED

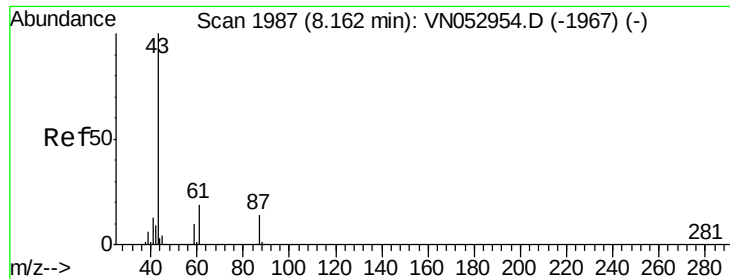
MMDadoda
12/22/2018 10:06:31 AM



#42
1,2-Dichloroethane
Concen: 20.515 ug/l
RT: 8.13 min Scan# 1976
Delta R.T. 0.00 min
Lab File: VN053101.D
Acq: 21 Dec 2018 14:51

Tgt Ion	Ratio	Lower	Upper
62	100		
98	10.0	0.0	19.0





#43

Isopropyl Acetate

Concen: 21.874 ug/l

RT: 8.17 min Scan# 1988

Delta R.T. 0.00 min

Lab File: VN053101.D

Acq: 21 Dec 2018 14:51

Instrument :

MSVOA_N

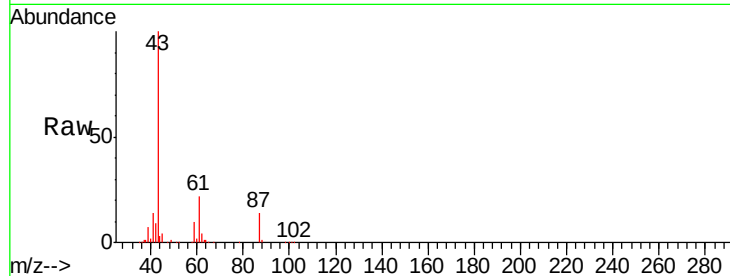
ClientSampleId :

VN1221MBS01

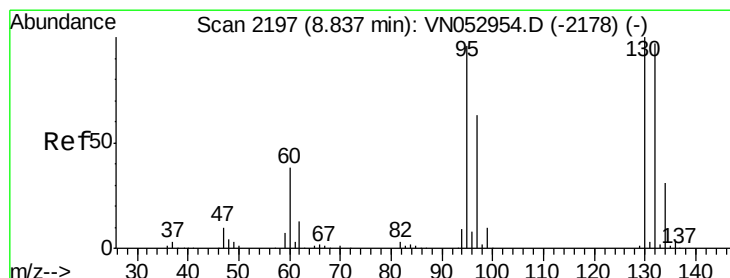
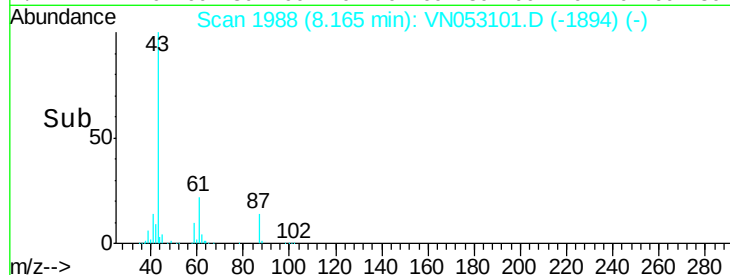
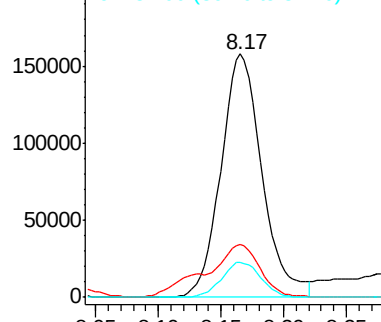
Tgt Ion:	43	Resp:	358795
Ion Ratio		Lower	Upper
43	100		
61	28.5	22.9	34.3
87	13.8	10.6	15.8

Manual Integrations
APPROVED

MMDadoda
12/22/2018 10:06:31 AM



Abundance Ion 43.00 (42.70 to 43.70): VN052954.D (-1967) (-)



#44

Trichloroethene

Concen: 19.170 ug/l

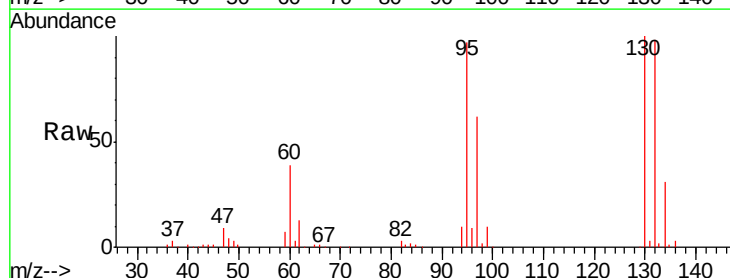
RT: 8.84 min Scan# 2197

Delta R.T. -0.00 min

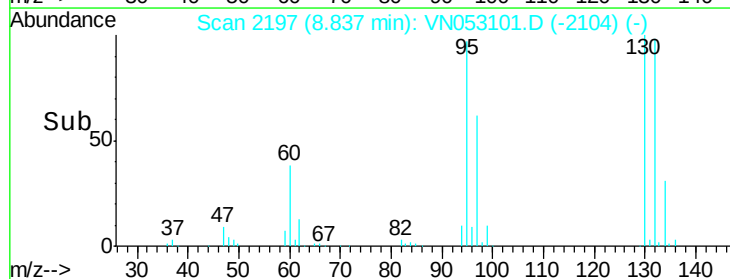
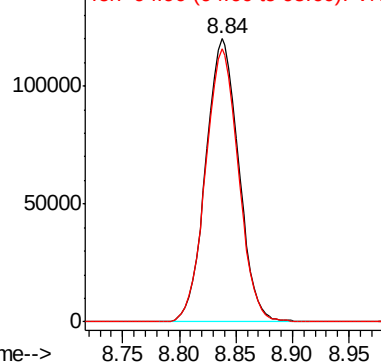
Lab File: VN053101.D

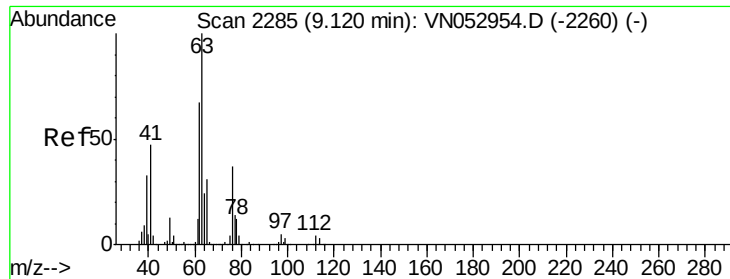
Acq: 21 Dec 2018 14:51

Tgt Ion:	130	Resp:	243857
Ion Ratio		Lower	Upper
130	100		
95	96.7	0.0	197.8



Abundance Ion 129.80 (129.50 to 130.50): VN052954.D (-2178) (-)





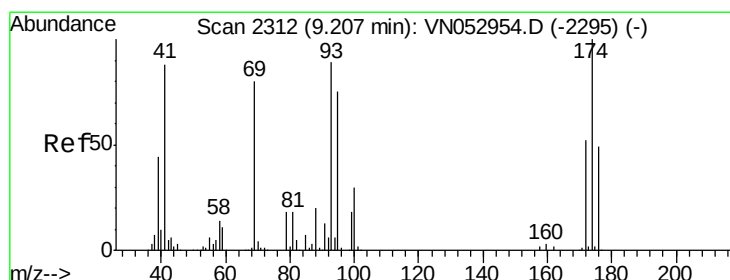
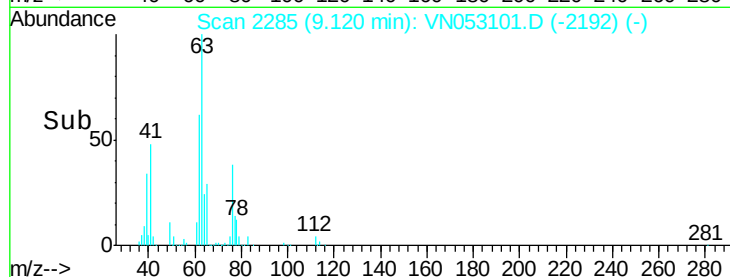
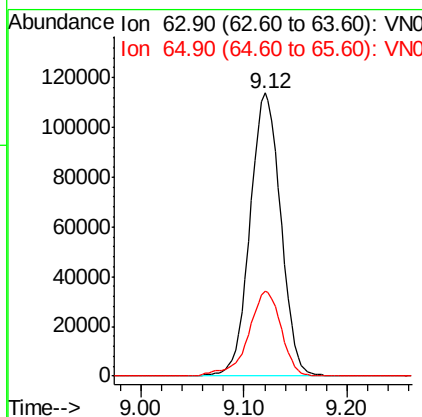
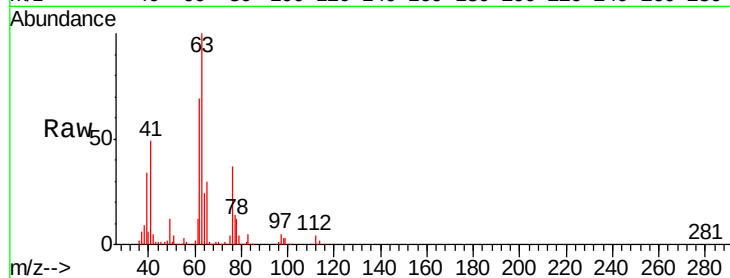
#45
 1,2-Dichloropropane
 Concen: 20.513 ug/l
 RT: 9.12 min Scan# 2285
 Delta R.T. -0.00 min
 Lab File: VN053101.D
 Acq: 21 Dec 2018 14:51

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1221MBS01

Tgt Ion: 63 Resp: 234992
 Ion Ratio Lower Upper
 63 100
 65 30.0 24.6 37.0

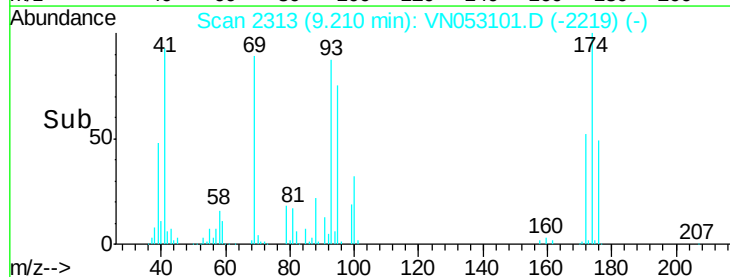
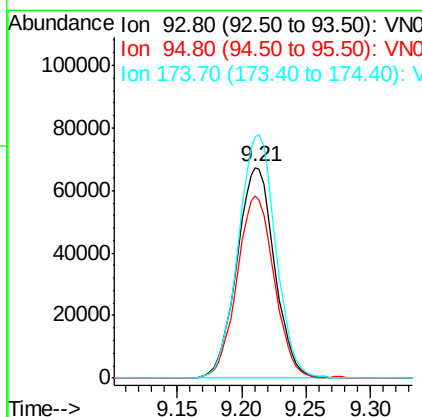
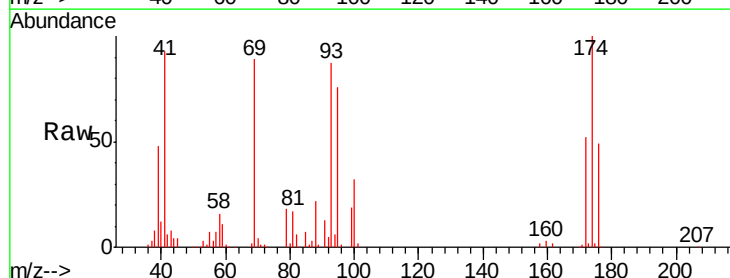
Manual Integrations
 APPROVED

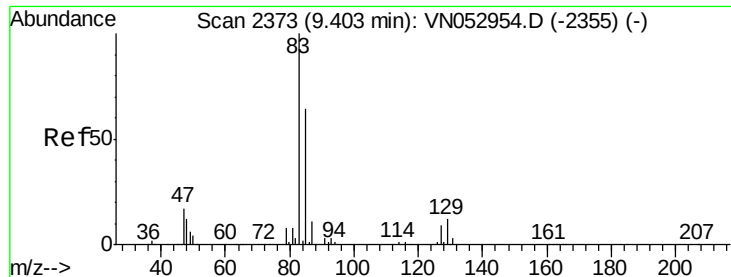
MMDadoda
 12/22/2018 10:06:31 AM



#46
 Dibromomethane
 Concen: 20.522 ug/l
 RT: 9.21 min Scan# 2313
 Delta R.T. 0.00 min
 Lab File: VN053101.D
 Acq: 21 Dec 2018 14:51

Tgt Ion: 93 Resp: 136955
 Ion Ratio Lower Upper
 93 100
 95 85.1 67.8 101.6
 174 115.1 89.0 133.4





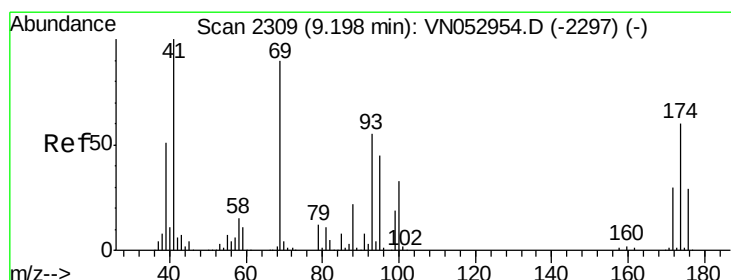
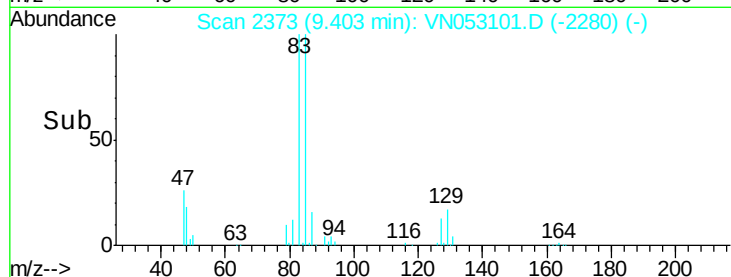
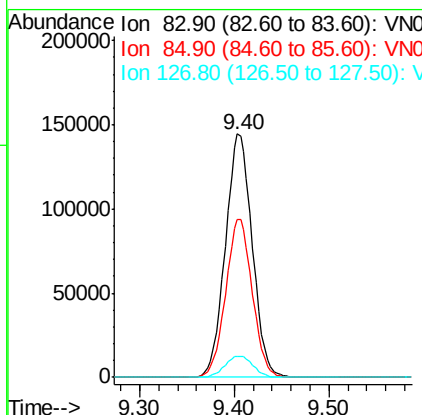
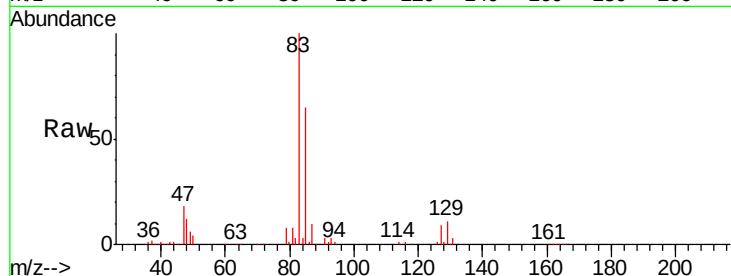
#47
Bromodichloromethane
Concen: 20.050 ug/l
RT: 9.40 min Scan# 2373
Delta R.T. -0.00 min
Lab File: VN053101.D
Acq: 21 Dec 2018 14:51

Instrument :
MSVOA_N
ClientSampleId :
VN1221MBS01

Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.0	51.6	77.4
127	8.8	7.1	10.7

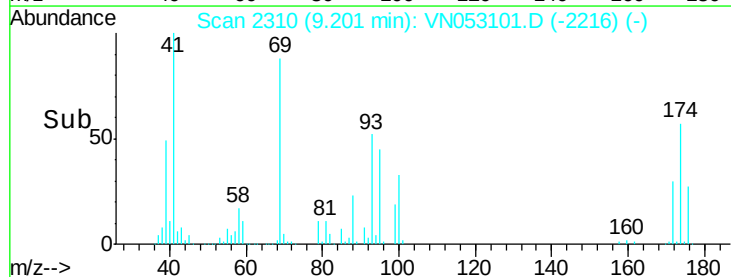
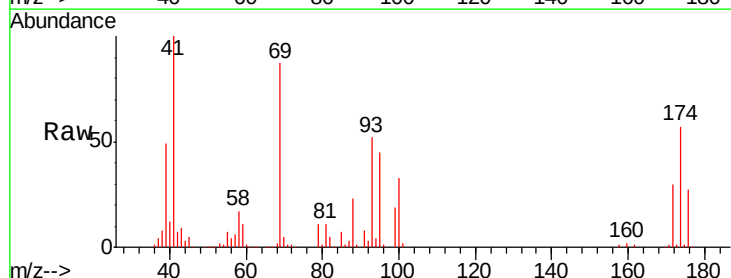
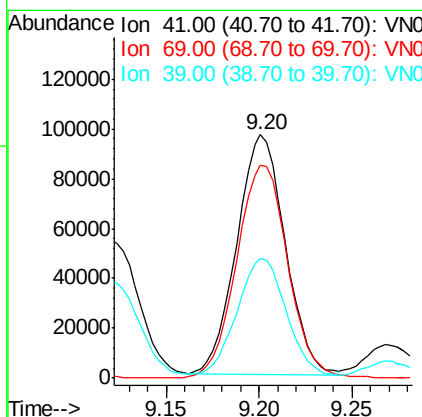
Manual Integrations
APPROVED

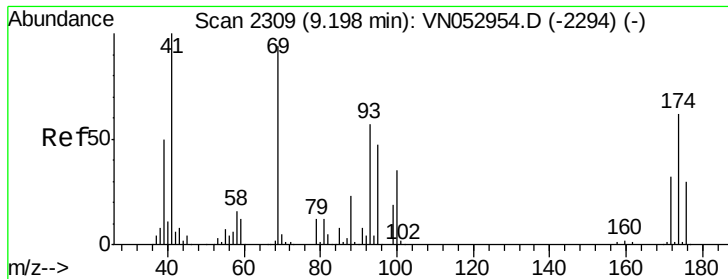
MMDadoda
12/22/2018 10:06:31 AM



#48
Methyl methacrylate
Concen: 21.845 ug/l
RT: 9.20 min Scan# 2310
Delta R.T. 0.00 min
Lab File: VN053101.D
Acq: 21 Dec 2018 14:51

Tgt Ion	Ratio	Lower	Upper
41	100		
69	94.2	72.2	108.2
39	52.0	41.9	62.9





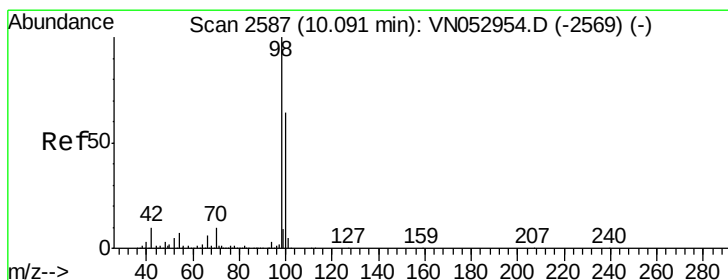
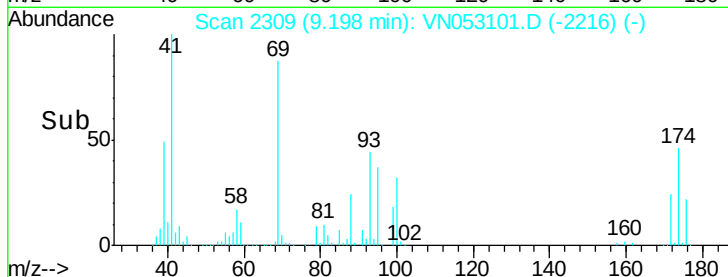
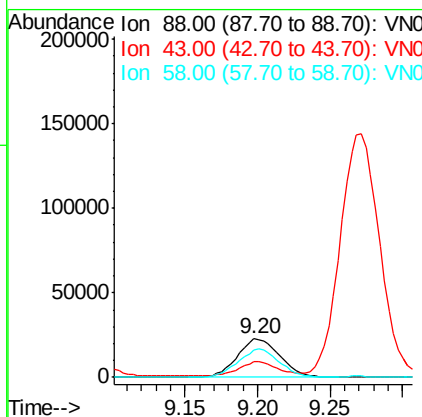
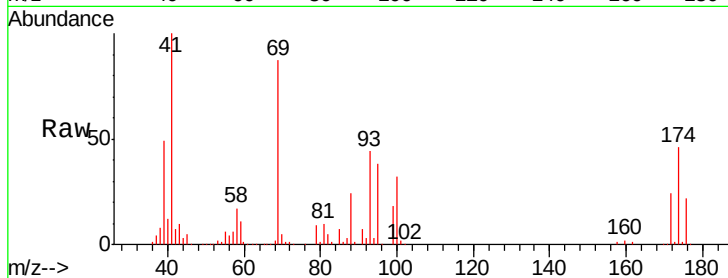
#49
1,4-Dioxane
Concen: 461.922 ug/l
RT: 9.20 min Scan# 2309
Delta R.T. -0.00 min
Lab File: VN053101.D
Acq: 21 Dec 2018 14:51

Instrument :
MSVOA_N
ClientSampleId :
VN1221MBS01

Tgt Ion: 88 Resp: 46802
Ion Ratio Lower Upper
88 100
43 34.3 26.6 40.0
58 71.2 58.4 87.6

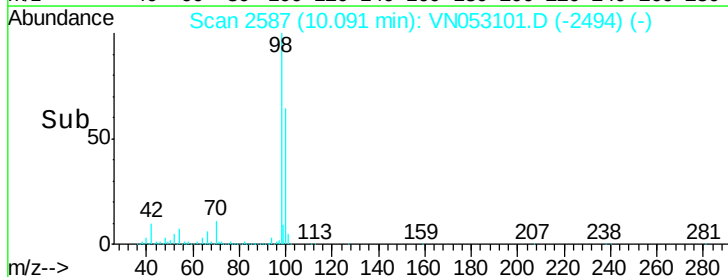
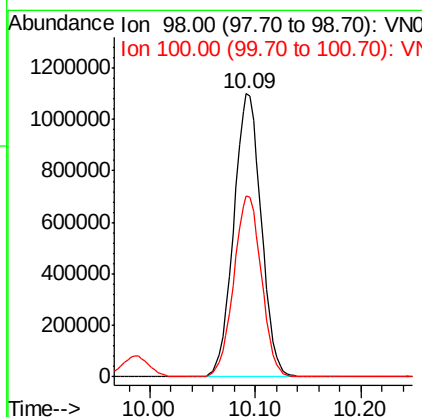
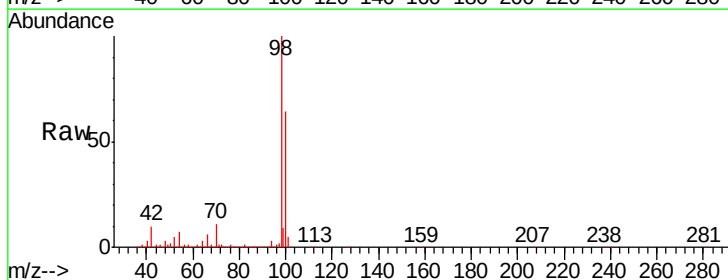
Manual Integrations
APPROVED

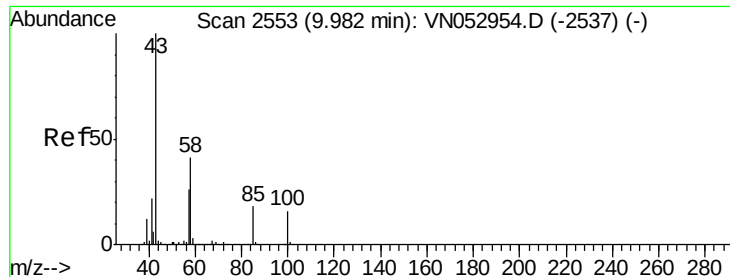
MMDadoda
12/22/2018 10:06:31 AM



#50
Toluene-d8
Concen: 461.922 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. -0.00 min
Lab File: VN053101.D
Acq: 21 Dec 2018 14:51

Tgt Ion: 98 Resp: 1980805
Ion Ratio Lower Upper
98 100
100 64.3 51.6 77.4





#51

4-Methyl-2-Pentanone

Concen: 118.864 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. 0.00 min

Lab File: VN053101.D

Acq: 21 Dec 2018 14:51

Instrument :

MSVOA_N

ClientSampleId :

VN1221MBS01

Tgt Ion: 43 Resp: 950161

Ion Ratio Lower Upper

43 100

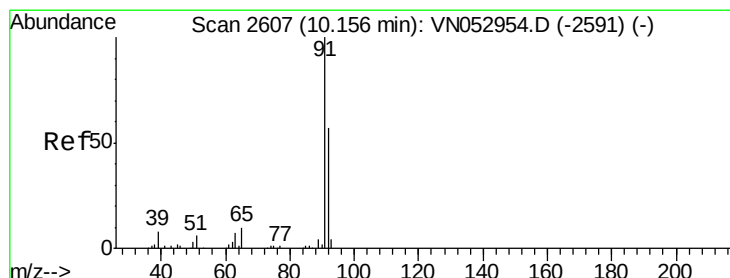
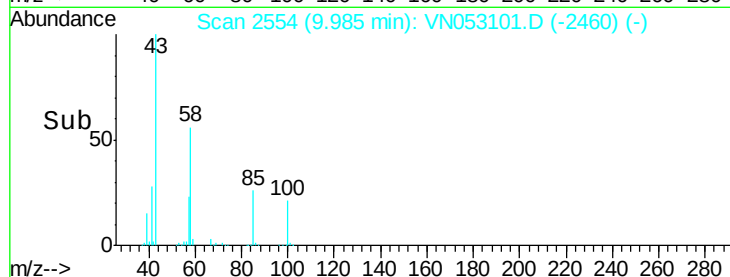
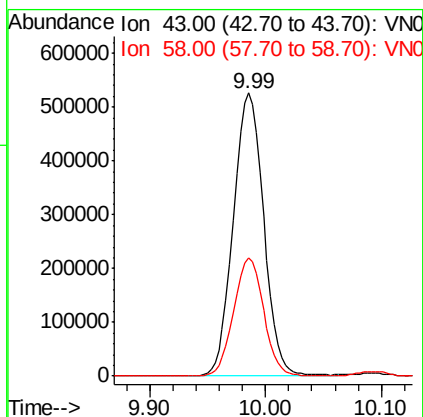
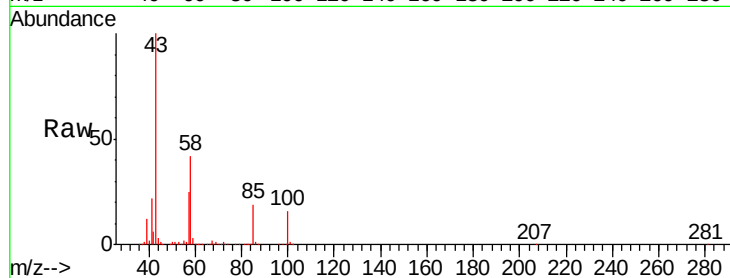
58 41.4 32.2 48.4

Manual Integrations

APPROVED

MMDadoda

12/22/2018 10:06:31 AM



#52

Toluene

Concen: 20.285 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. -0.00 min

Lab File: VN053101.D

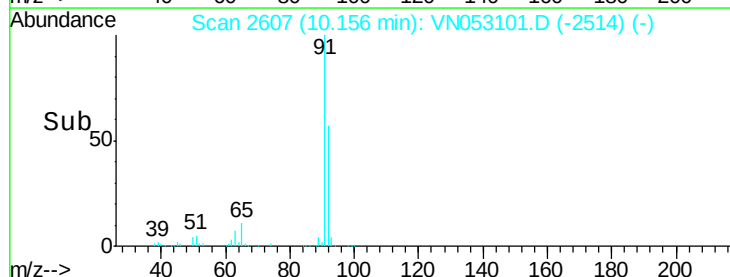
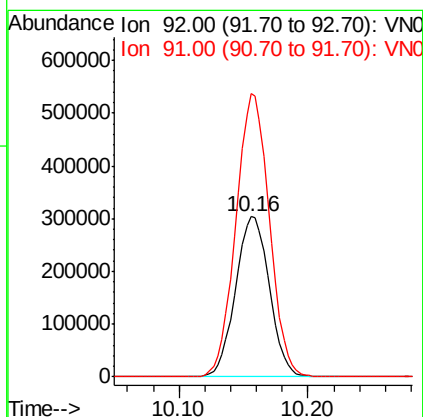
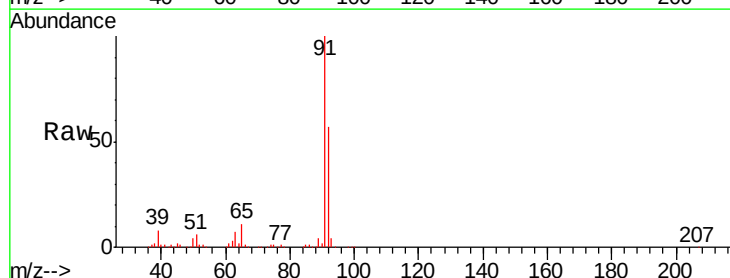
Acq: 21 Dec 2018 14:51

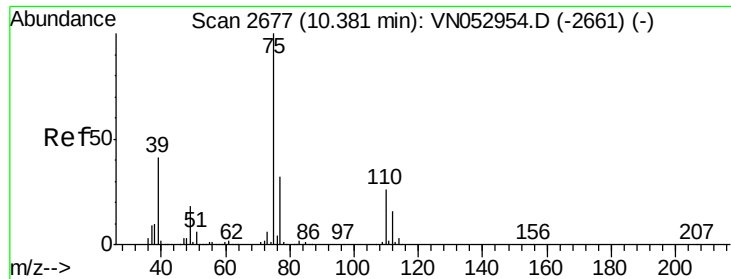
Tgt Ion: 92 Resp: 552993

Ion Ratio Lower Upper

92 100

91 175.2 139.8 209.6





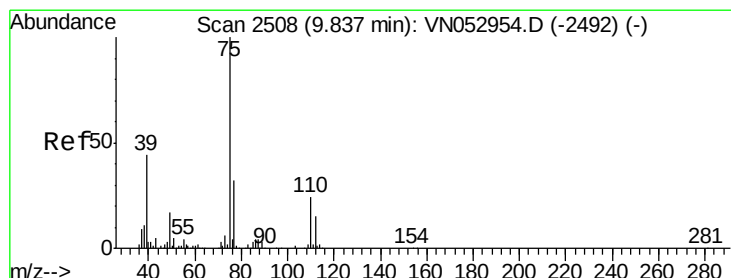
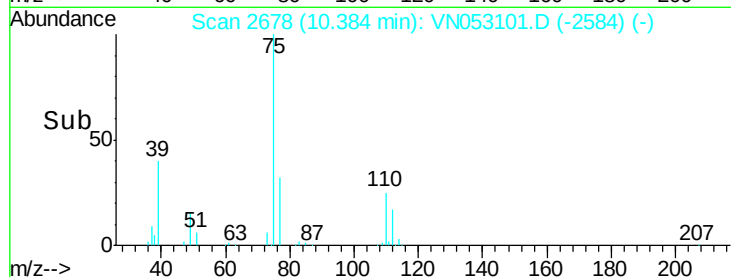
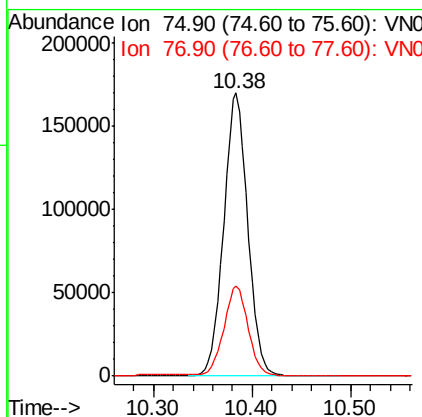
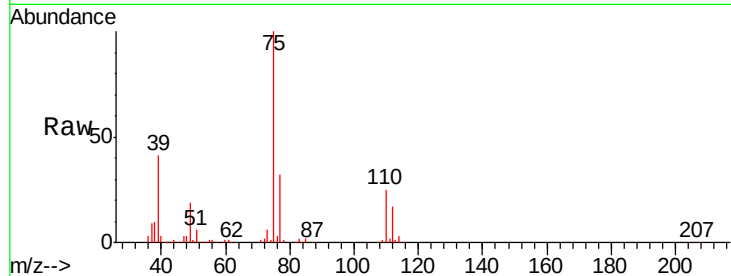
#53
 t-1,3-Dichloropropene
 Concen: 19.488 ug/l
 RT: 10.38 min Scan# 2678
 Delta R.T. 0.00 min
 Lab File: VN053101.D
 Acq: 21 Dec 2018 14:51

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1221MBS01

Tgt Ion: 75 Resp: 290699
 Ion Ratio Lower Upper
 75 100
 77 31.9 25.6 38.4

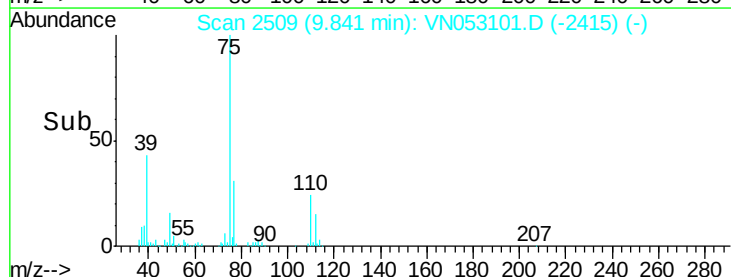
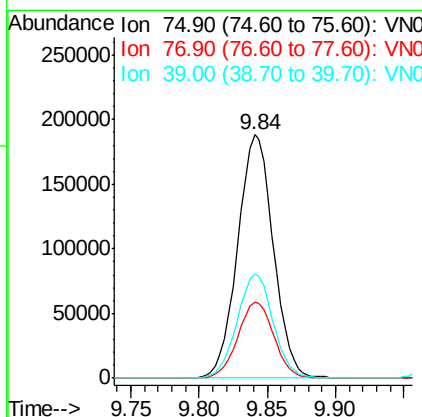
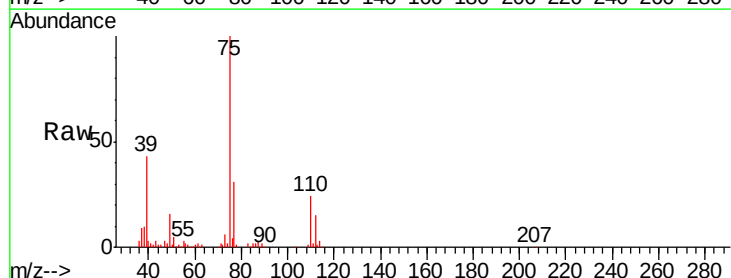
Manual Integrations
 APPROVED

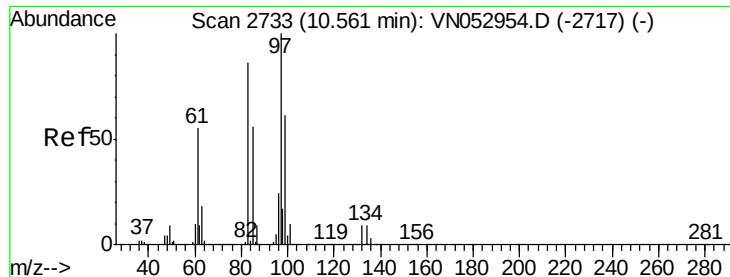
MMDadoda
 12/22/2018 10:06:31 AM



#54
 cis-1,3-Dichloropropene
 Concen: 19.950 ug/l
 RT: 9.84 min Scan# 2509
 Delta R.T. 0.00 min
 Lab File: VN053101.D
 Acq: 21 Dec 2018 14:51

Tgt Ion: 75 Resp: 341576
 Ion Ratio Lower Upper
 75 100
 77 31.3 25.8 38.8
 39 42.6 34.8 52.2





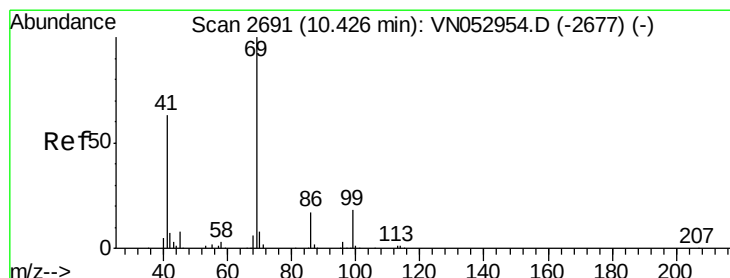
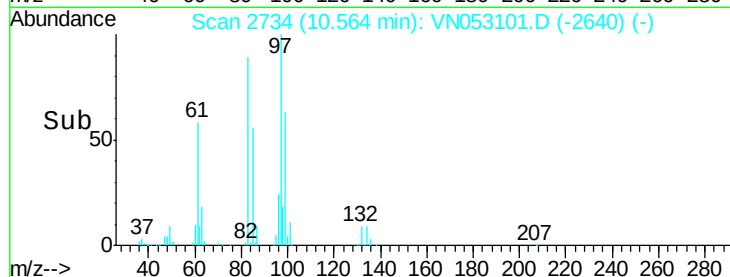
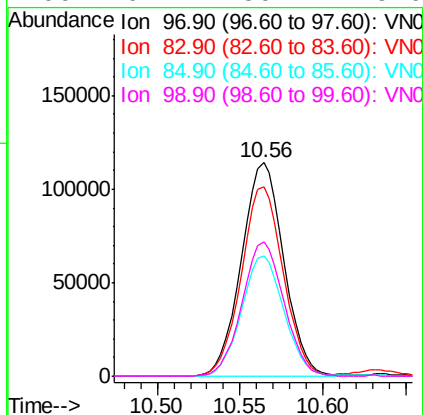
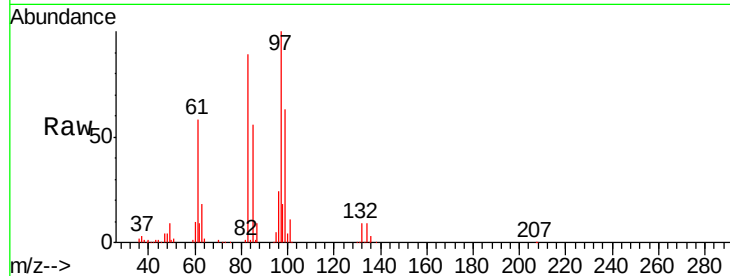
#55
 1,1,2-Trichloroethane
 Concen: 21.329 ug/l
 RT: 10.56 min Scan# 2734
 Delta R.T. 0.00 min
 Lab File: VN053101.D
 Acq: 21 Dec 2018 14:51

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1221MBS01

Tgt Ion	Ratio	Lower	Upper
97	100		
83	88.8	70.9	106.3
85	56.4	45.4	68.2
99	62.7	50.4	75.6

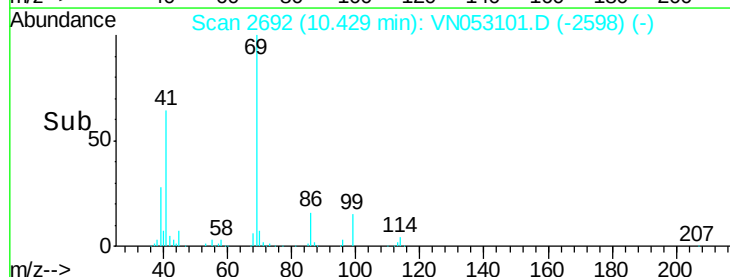
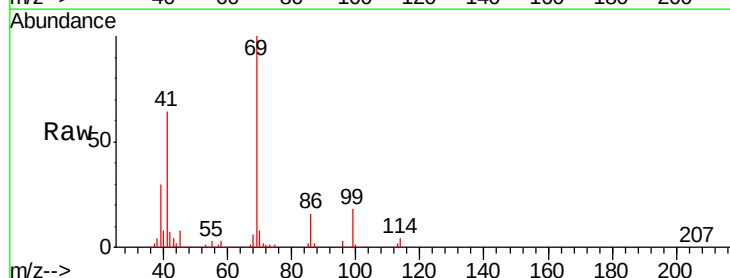
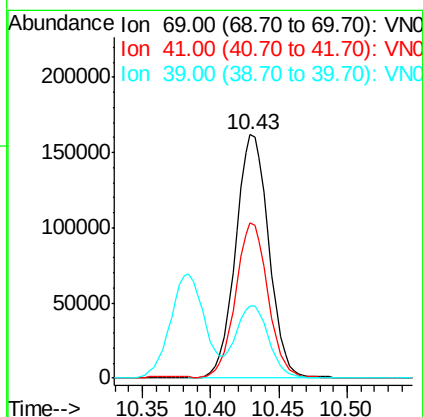
Manual Integrations
 APPROVED

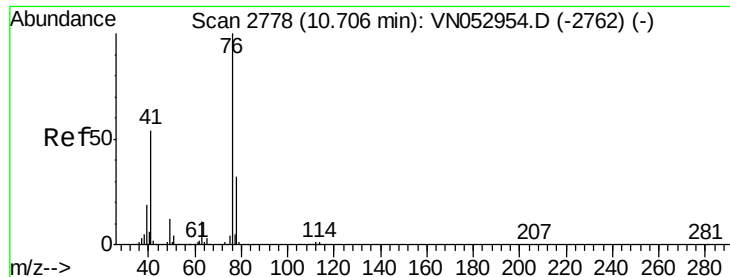
MMDadoda
 12/22/2018 10:06:31 AM



#56
 Ethyl methacrylate
 Concen: 21.747 ug/l
 RT: 10.43 min Scan# 2692
 Delta R.T. 0.00 min
 Lab File: VN053101.D
 Acq: 21 Dec 2018 14:51

Tgt Ion	Ratio	Lower	Upper
69	100		
41	61.4	51.7	77.5
39	29.3	24.6	37.0





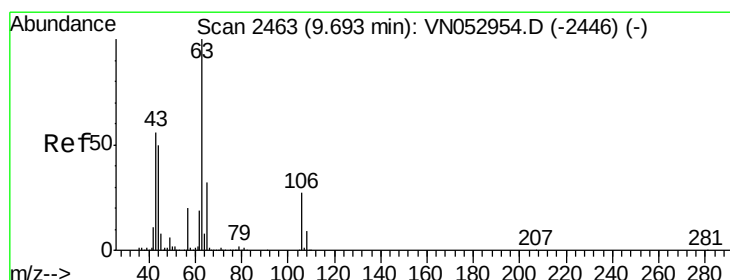
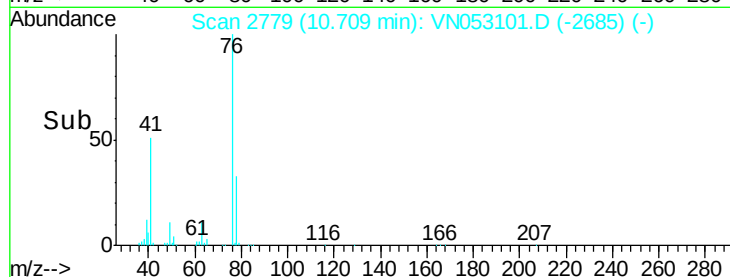
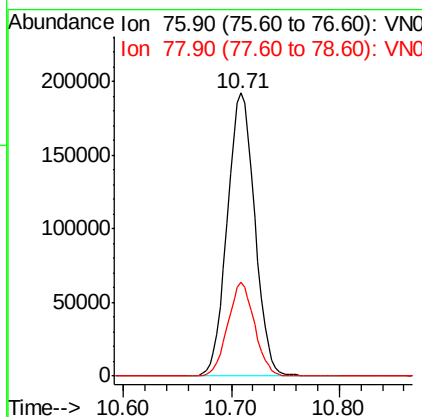
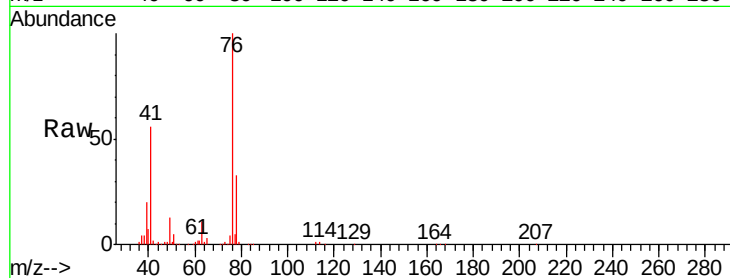
#57
 1,3-Dichloropropane
 Concen: 20.965 ug/l
 RT: 10.71 min Scan# 2779
 Delta R.T. 0.00 min
 Lab File: VN053101.D
 Acq: 21 Dec 2018 14:51

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1221MBS01

Tgt Ion: 76 Resp: 341903
 Ion Ratio Lower Upper
 76 100
 78 32.4 25.8 38.8

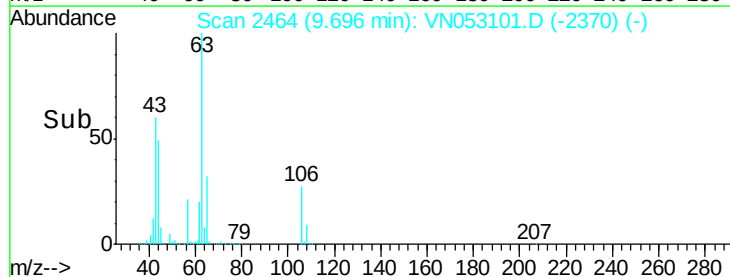
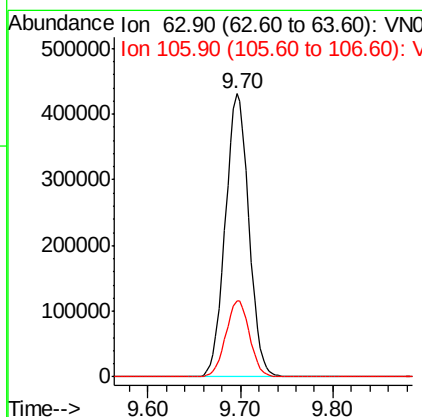
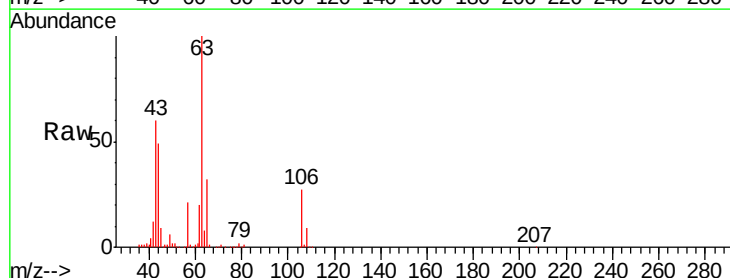
Manual Integrations
 APPROVED

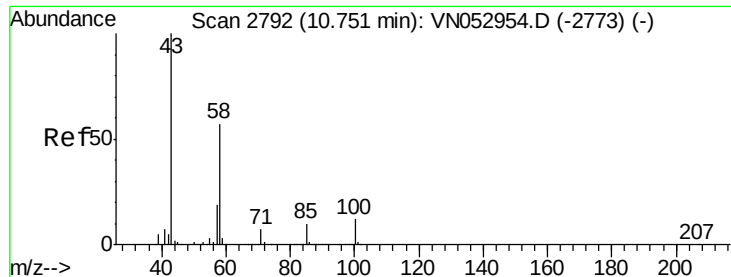
MMDadoda
 12/22/2018 10:06:31 AM



#58
 2-Chloroethyl Vinyl ether
 Concen: 109.828 ug/l
 RT: 9.70 min Scan# 2464
 Delta R.T. 0.00 min
 Lab File: VN053101.D
 Acq: 21 Dec 2018 14:51

Tgt Ion: 63 Resp: 758994
 Ion Ratio Lower Upper
 63 100
 106 27.1 21.0 31.6





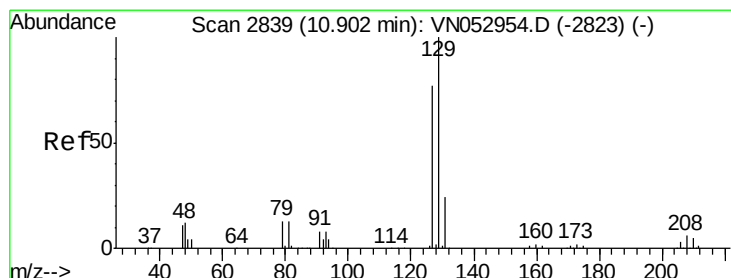
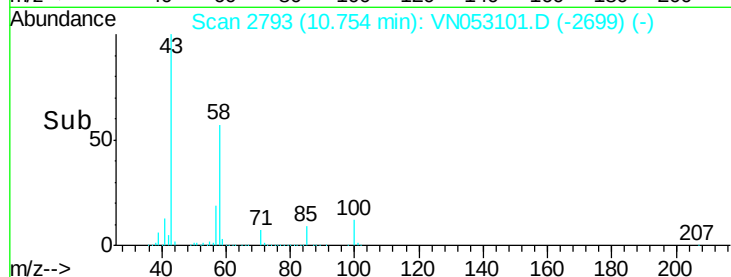
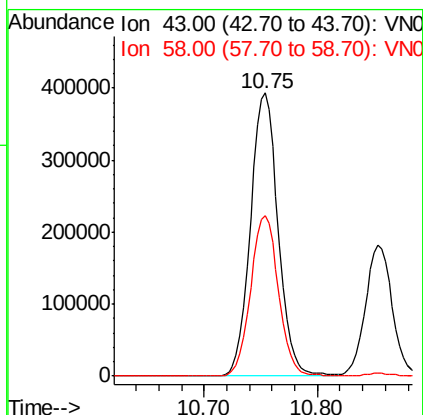
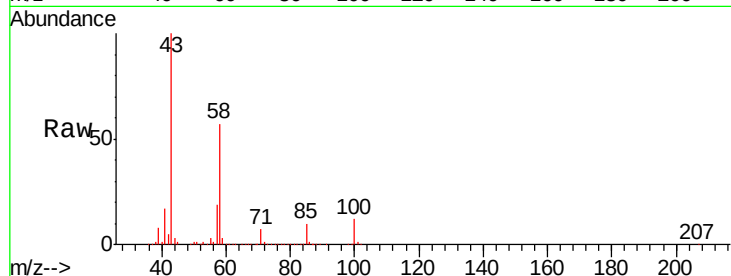
#59
2-Hexanone
Concen: 122.970 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.00 min
Lab File: VN053101.D
Acq: 21 Dec 2018 14:51

Instrument :
MSVOA_N
ClientSampleId :
VN1221MBS01

Tgt Ion: 43 Resp: 665069
Ion Ratio Lower Upper
43 100
58 57.3 28.1 84.3

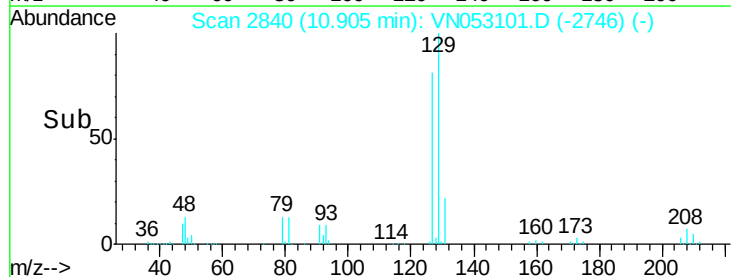
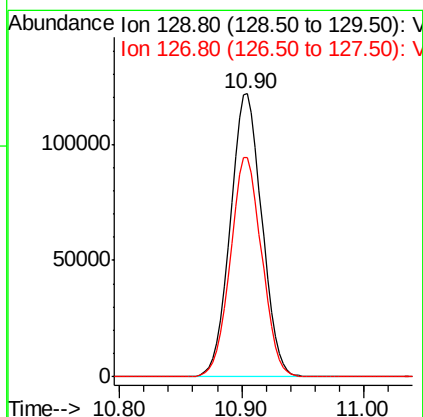
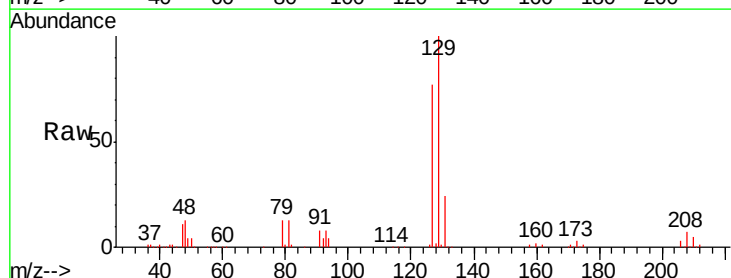
Manual Integrations
APPROVED

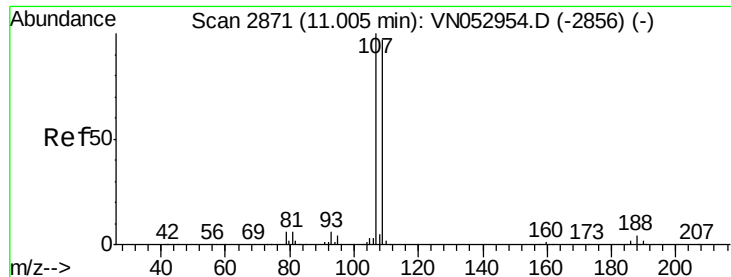
MMDadoda
12/22/2018 10:06:31 AM



#60
Dibromochloromethane
Concen: 20.149 ug/l
RT: 10.90 min Scan# 2840
Delta R.T. 0.00 min
Lab File: VN053101.D
Acq: 21 Dec 2018 14:51

Tgt Ion: 129 Resp: 219353
Ion Ratio Lower Upper
129 100
127 77.1 38.6 116.0





#61

1,2-Dibromoethane

Concen: 20.888 ug/l

RT: 11.01 min Scan# 2872

Delta R.T. 0.00 min

Lab File: VN053101.D

Acq: 21 Dec 2018 14:51

Instrument :

MSVOA_N

ClientSampleId :

VN1221MBS01

Tgt Ion: 107 Resp: 201758

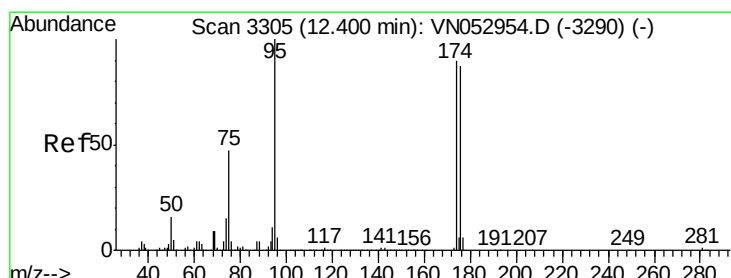
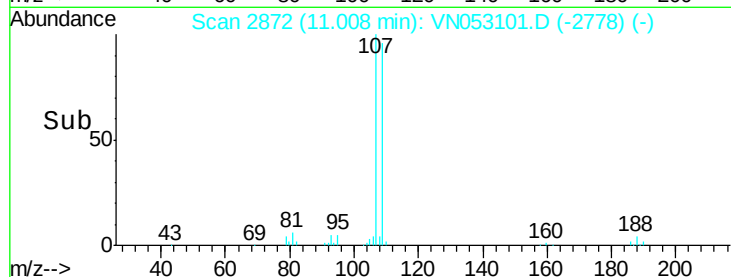
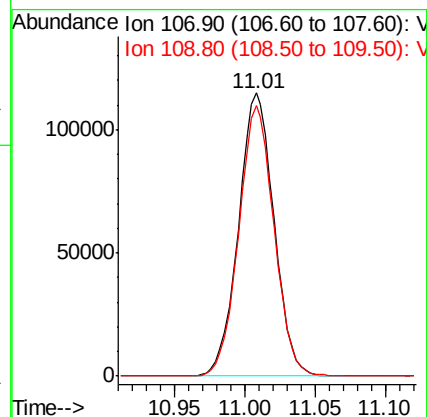
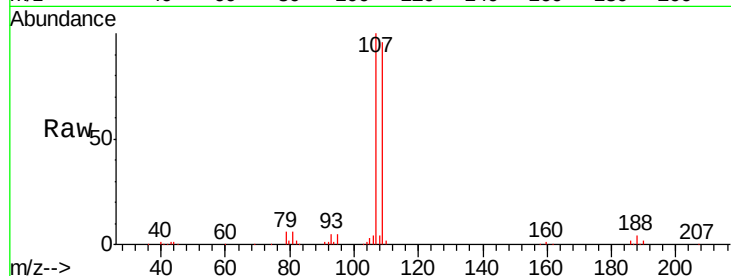
Ion Ratio Lower Upper

107 100

109 95.2 75.4 113.0

Manual Integrations
APPROVED

MMDadoda
12/22/2018 10:06:31 AM



#62

4-Bromofluorobenzene

Concen: 20.888 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN053101.D

Acq: 21 Dec 2018 14:51

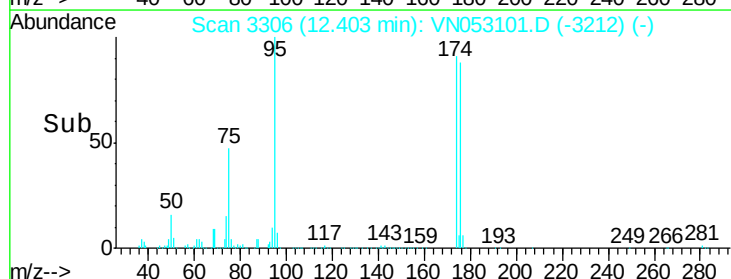
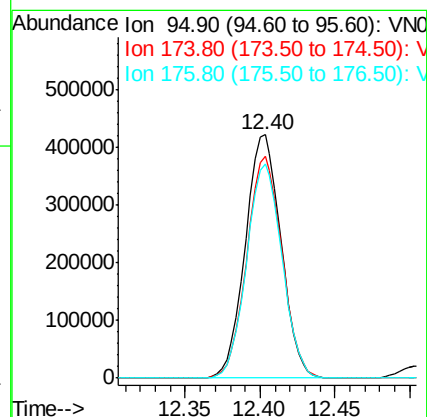
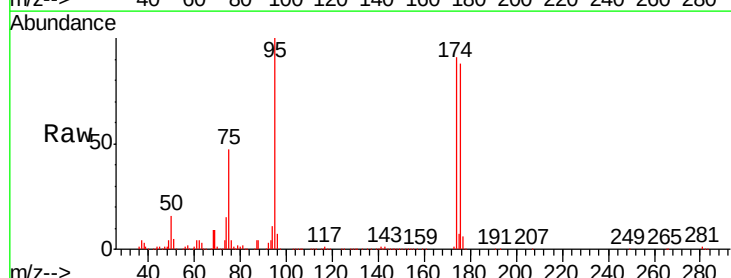
Tgt Ion: 95 Resp: 701536

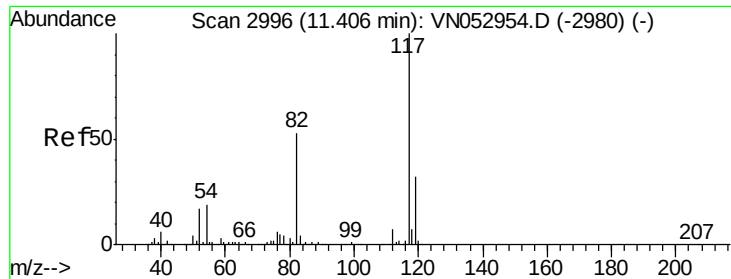
Ion Ratio Lower Upper

95 100

174 90.0 0.0 178.8

176 87.4 0.0 173.8





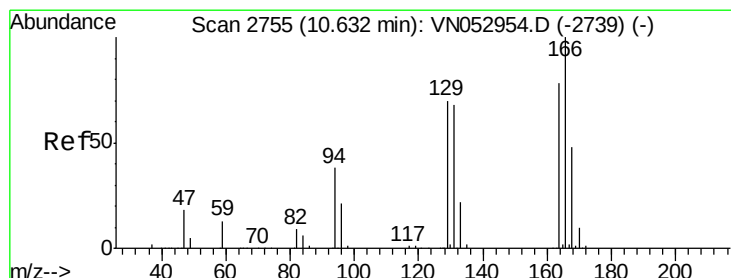
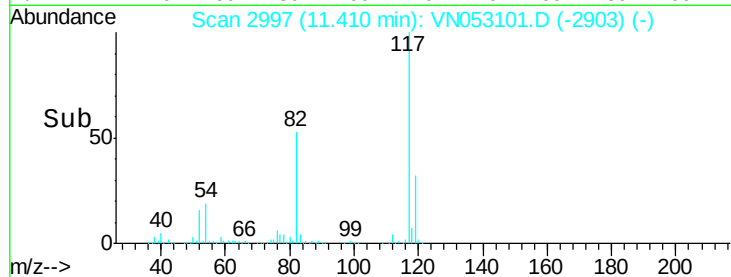
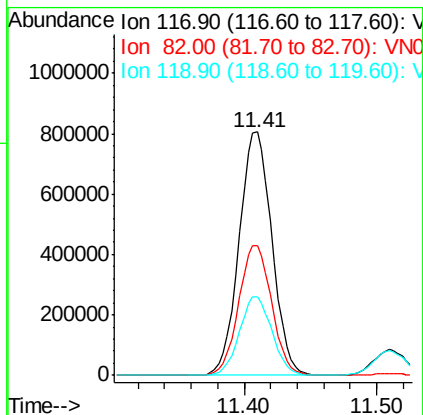
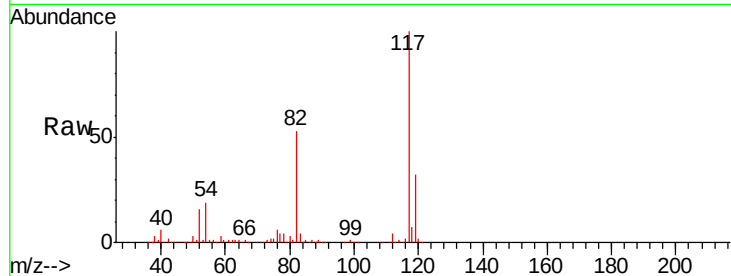
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN053101.D
Acq: 21 Dec 2018 14:51

Instrument :
MSVOA_N
ClientSampleId :
VN1221MBS01

Tgt Ion:117 Resp: 1383977
Ion Ratio Lower Upper
117 100
82 53.1 42.8 64.2
119 32.2 25.5 38.3

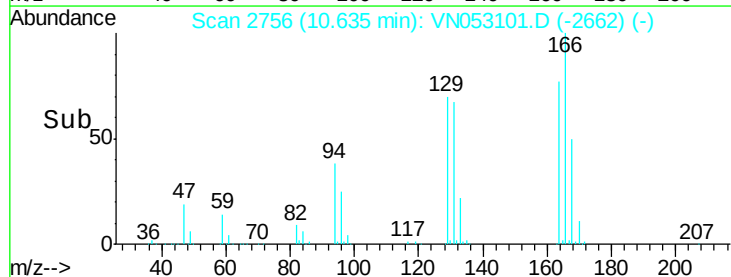
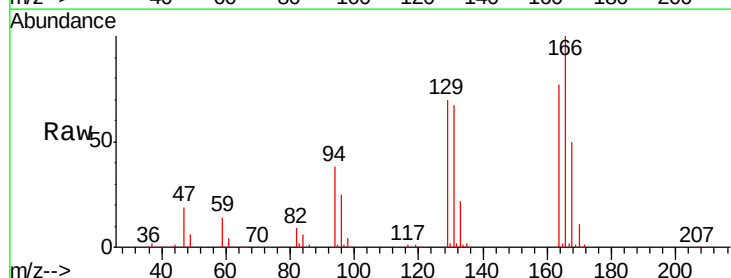
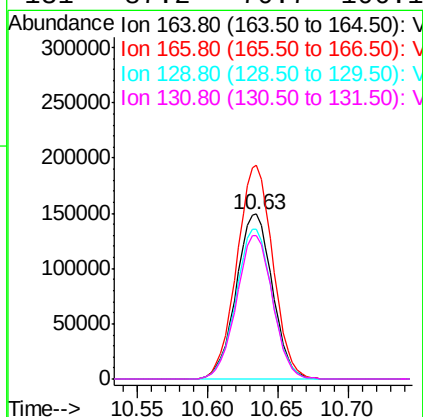
Manual Integrations
APPROVED

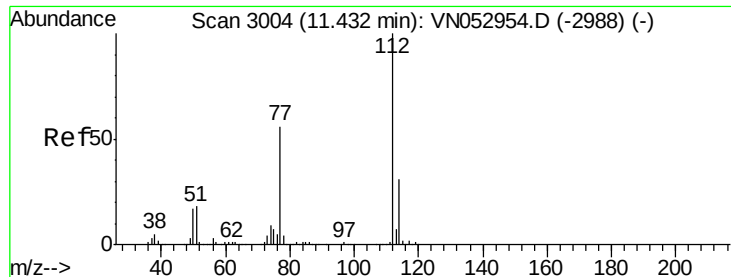
MMDadoda
12/22/2018 10:06:31 AM



#64
Tetrachloroethene
Concen: 17.938 ug/l
RT: 10.63 min Scan# 2756
Delta R.T. 0.00 min
Lab File: VN053101.D
Acq: 21 Dec 2018 14:51

Tgt Ion:164 Resp: 268918
Ion Ratio Lower Upper
164 100
166 129.8 102.9 154.3
129 90.7 73.7 110.5
131 87.2 70.7 106.1





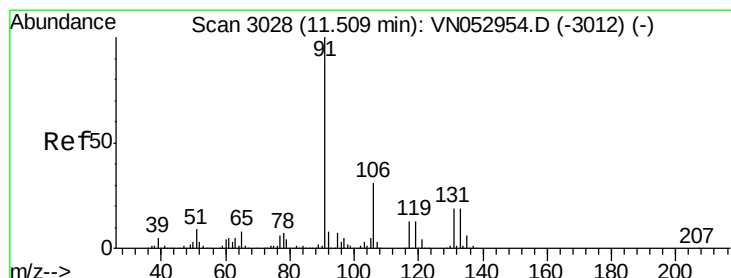
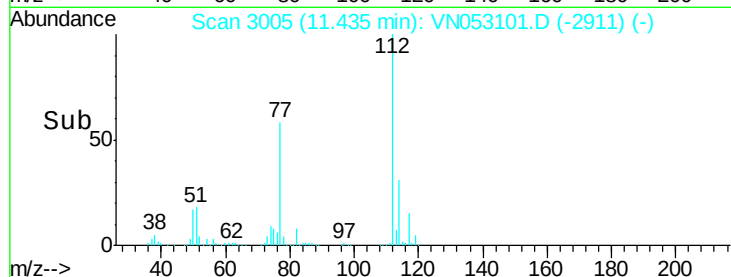
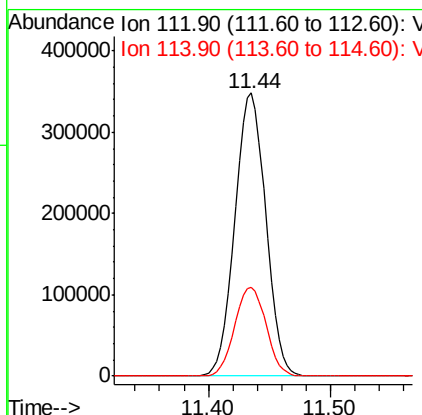
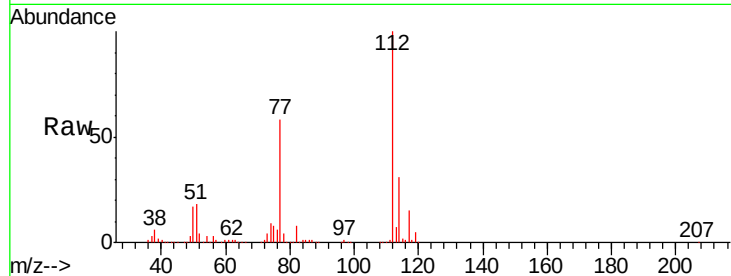
#65
Chlorobenzene
Concen: 19.911 ug/l
RT: 11.44 min Scan# 3005
Delta R.T. 0.00 min
Lab File: VN053101.D
Acq: 21 Dec 2018 14:51

Instrument :
MSVOA_N
ClientSampleId :
VN1221MBS01

Tgt Ion	Ratio	Resp	Lower	Upper
112	100	610839		
114	31.4	25.5	38.3	

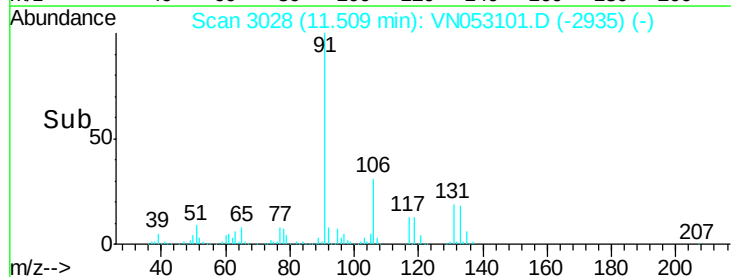
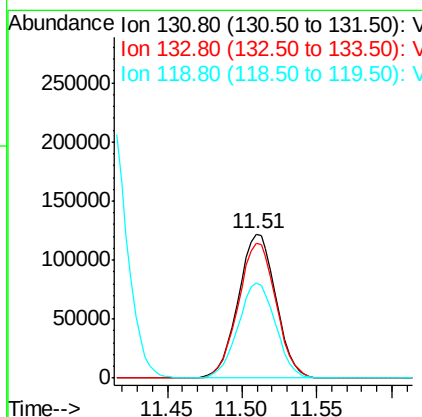
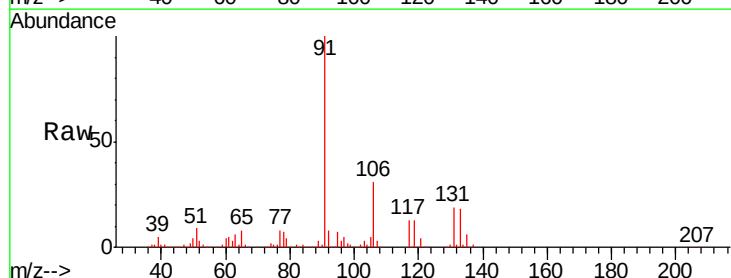
Manual Integrations
APPROVED

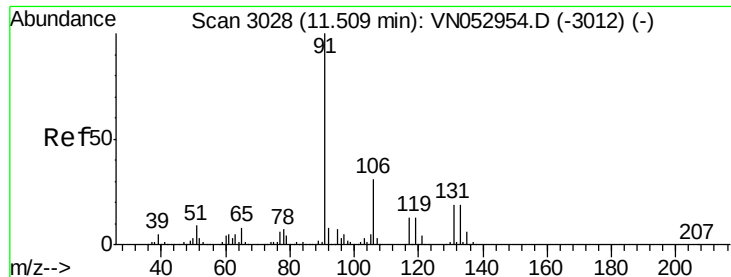
MMDadoda
12/22/2018 10:06:31 AM



#66
1,1,1,2-Tetrachloroethane
Concen: 19.990 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. -0.00 min
Lab File: VN053101.D
Acq: 21 Dec 2018 14:51

Tgt Ion	Ratio	Resp	Lower	Upper
131	100	213261		
133	94.5	47.6	142.9	
119	66.0	33.3	99.8	





#67

Ethyl Benzene

Concen: 20.124 ug/l

RT: 11.51 min Scan# 3029

Delta R.T. 0.00 min

Lab File: VN053101.D

Acq: 21 Dec 2018 14:51

Instrument :

MSVOA_N

ClientSampleId :

VN1221MBS01

Tgt Ion: 91 Resp: 1061721

Ion Ratio Lower Upper

91 100

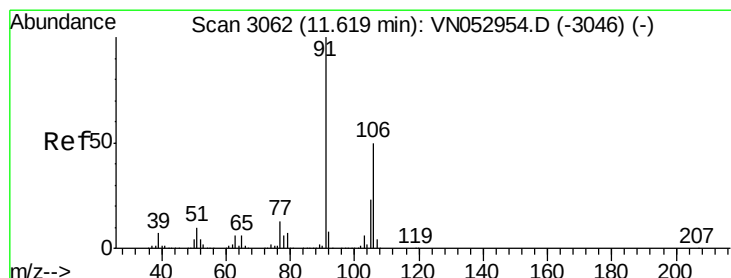
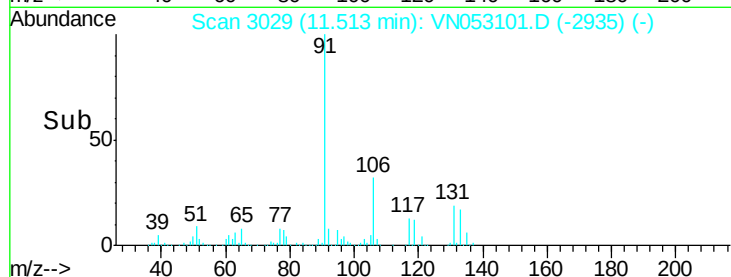
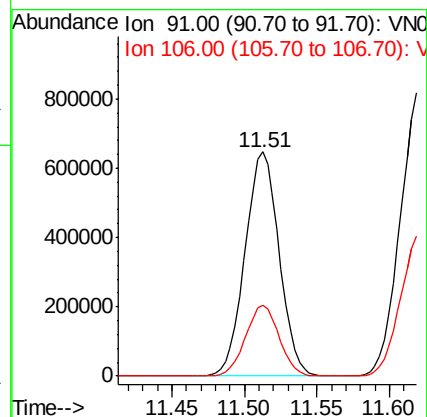
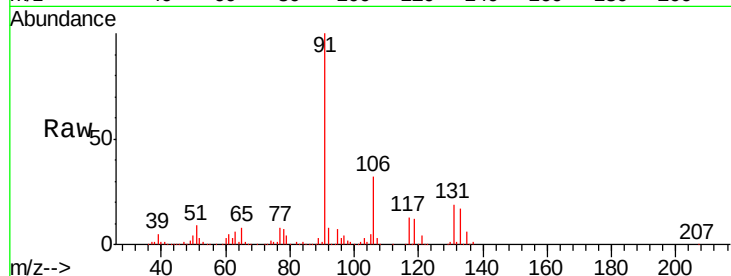
106 31.6 24.9 37.3

Manual Integrations

APPROVED

MMDadoda

12/22/2018 10:06:31 AM



#68

m/p-Xylenes

Concen: 40.196 ug/l

RT: 11.62 min Scan# 3063

Delta R.T. 0.00 min

Lab File: VN053101.D

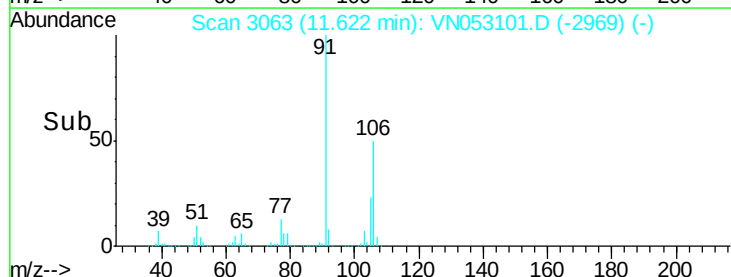
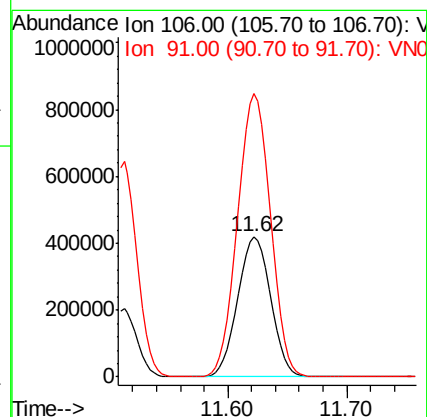
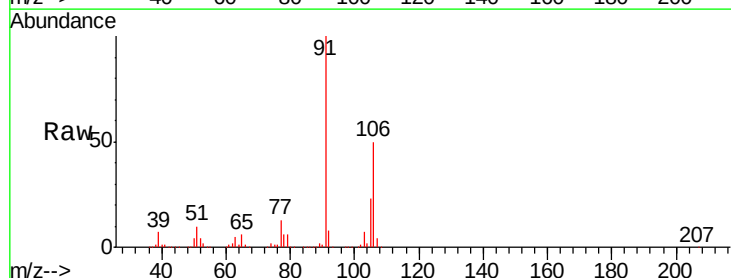
Acq: 21 Dec 2018 14:51

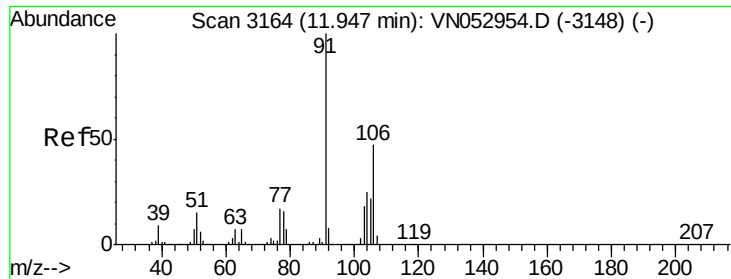
Tgt Ion: 106 Resp: 806214

Ion Ratio Lower Upper

106 100

91 202.2 162.2 243.4





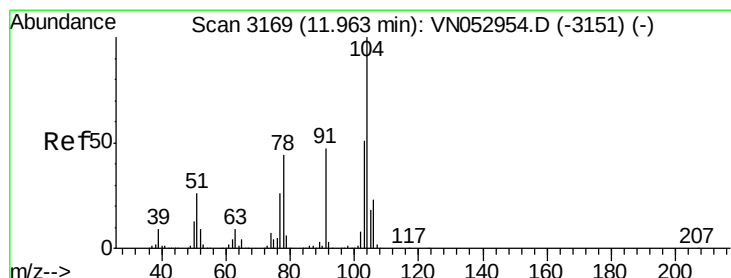
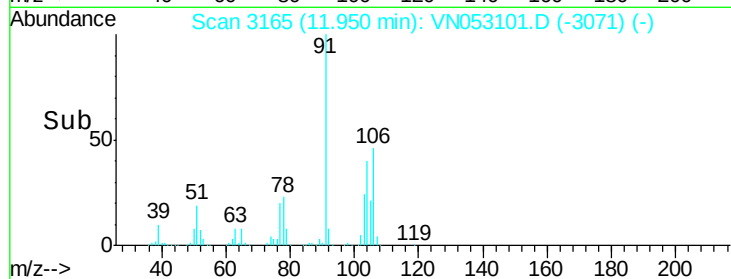
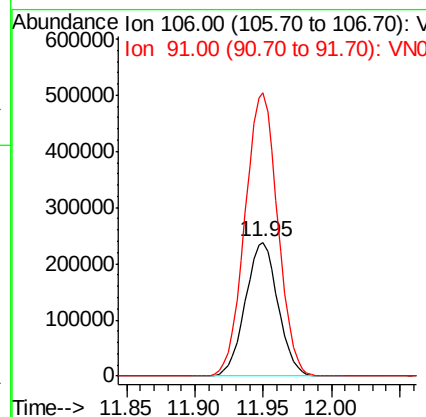
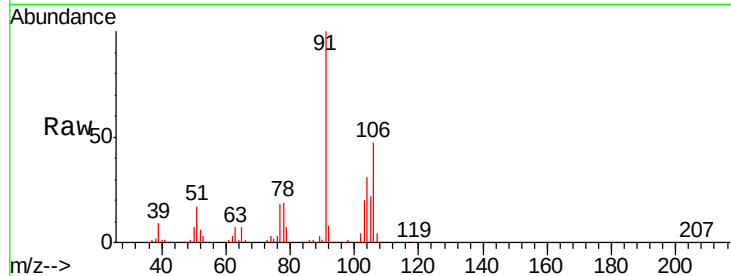
#69
o-Xylene
Concen: 20.435 ug/l
RT: 11.95 min Scan# 3165
Delta R.T. 0.00 min
Lab File: VN053101.D
Acq: 21 Dec 2018 14:51

Instrument :
MSVOA_N
ClientSampleId :
VN1221MBS01

Tgt Ion	Ratio	Lower	Upper
106	100		
91	213.7	106.6	319.8

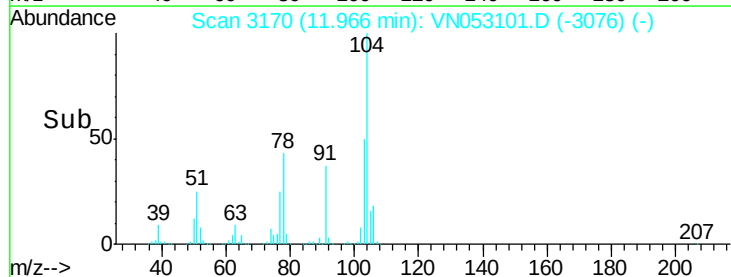
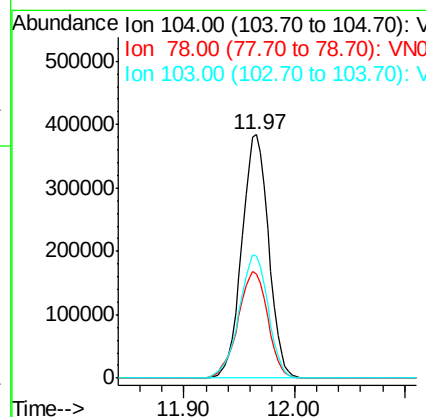
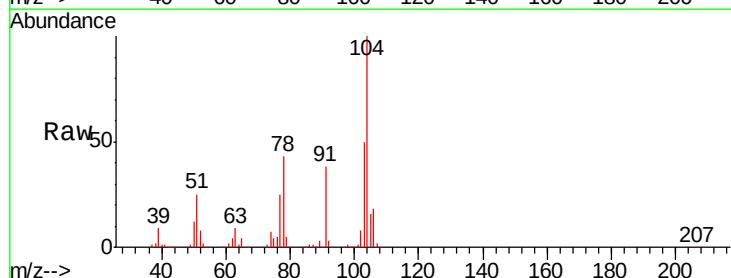
Manual Integrations
APPROVED

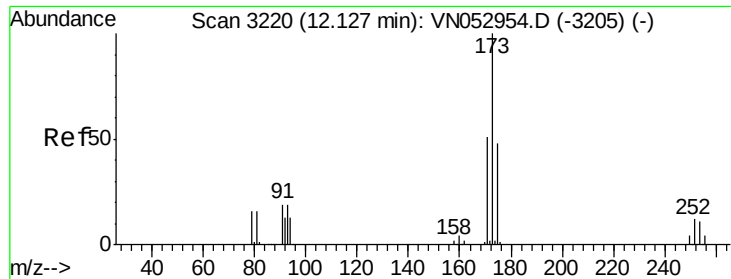
MMDadoda
12/22/2018 10:06:31 AM



#70
Styrene
Concen: 20.568 ug/l
RT: 11.97 min Scan# 3170
Delta R.T. 0.00 min
Lab File: VN053101.D
Acq: 21 Dec 2018 14:51

Tgt Ion	Ratio	Lower	Upper
104	100		
78	48.6	38.9	58.3
103	55.2	44.3	66.5





#71

Bromoform

Concen: 19.560 ug/l

RT: 12.13 min Scan# 3220

Delta R.T. -0.00 min

Lab File: VN053101.D

Acq: 21 Dec 2018 14:51

Instrument :

MSVOA_N

ClientSampleId :

VN1221MBS01

Tgt Ion:173 Resp: 150747

Ion Ratio Lower Upper

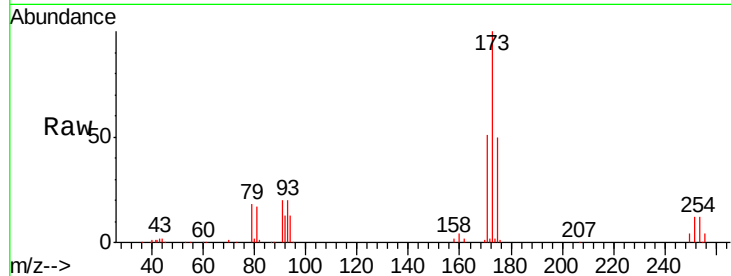
173 100

175 49.4 24.3 72.9

254 0.1 0.1 0.1#

Manual Integrations
APPROVED

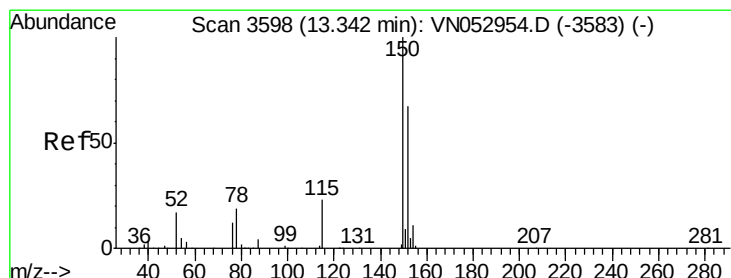
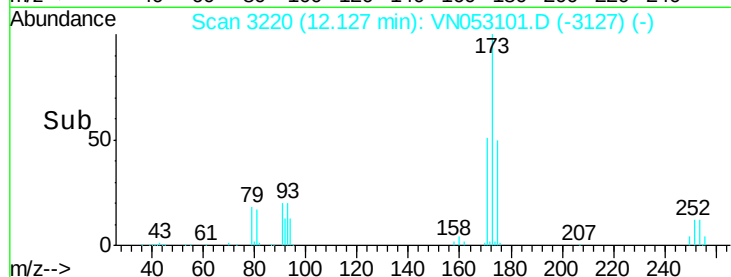
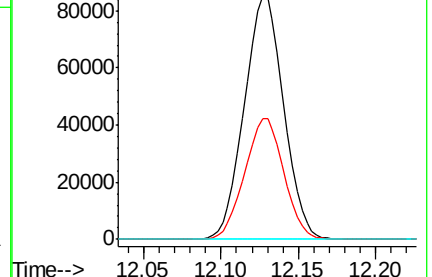
MMDadoda
12/22/2018 10:06:31 AM



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: VN053101.D

Acq: 21 Dec 2018 14:51

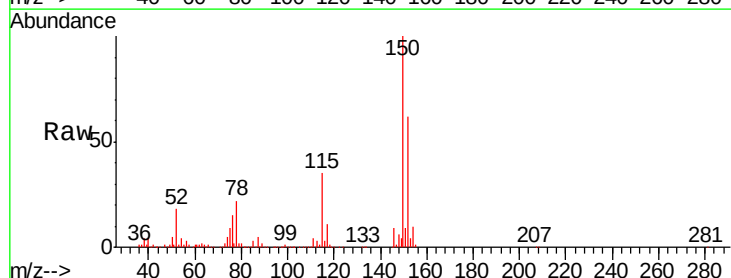
Tgt Ion:152 Resp: 656622

Ion Ratio Lower Upper

152 100

115 56.4 28.3 85.0

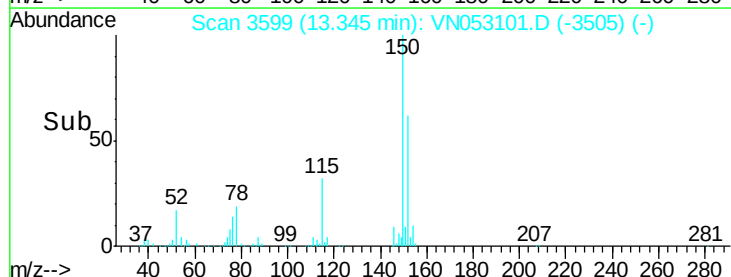
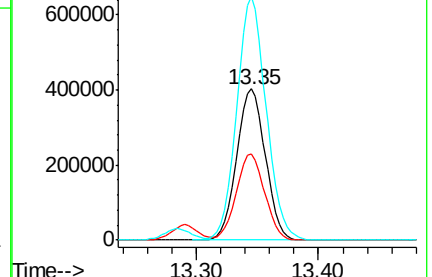
150 164.8 0.0 347.8

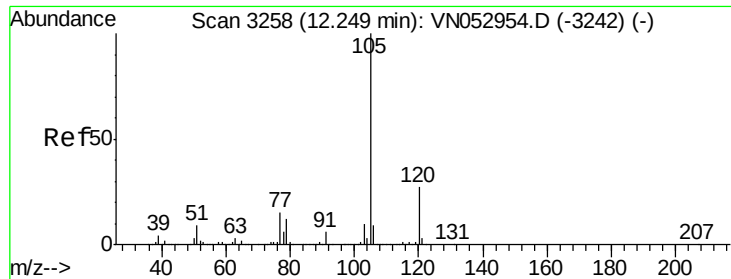


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 20.546 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. -0.00 min

Lab File: VN053101.D

Acq: 21 Dec 2018 14:51

Instrument :

MSVOA_N

ClientSampleId :

VN1221MBS01

Tgt Ion: 105 Resp: 1055530

Ion Ratio Lower Upper

105 100

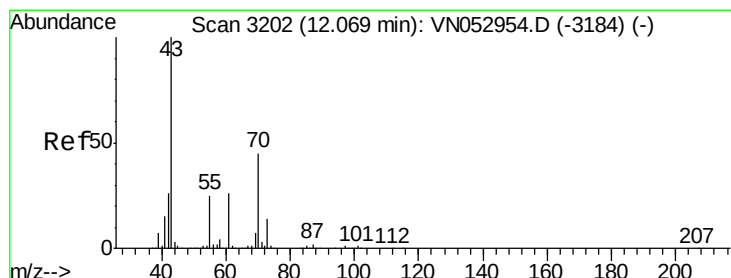
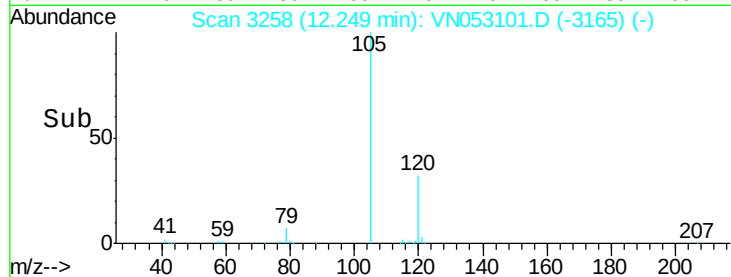
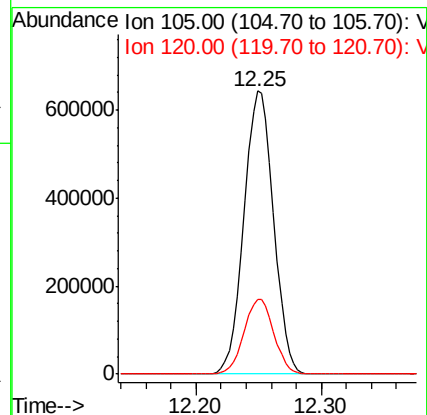
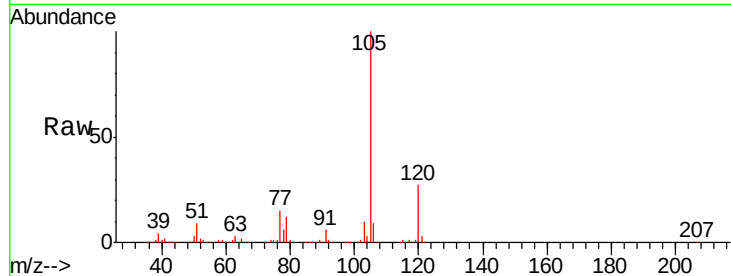
120 26.6 13.3 39.9

Manual Integrations

APPROVED

MMDadoda

12/22/2018 10:06:31 AM



#74

N-ethyl acetate

Concen: 21.944 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. -0.00 min

Lab File: VN053101.D

Acq: 21 Dec 2018 14:51

Tgt Ion: 43 Resp: 313003

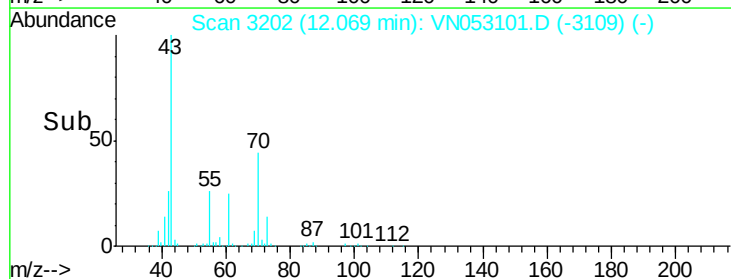
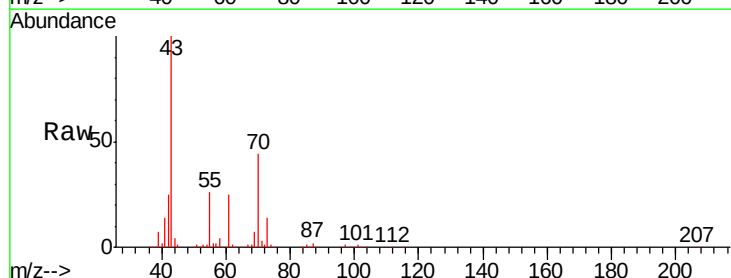
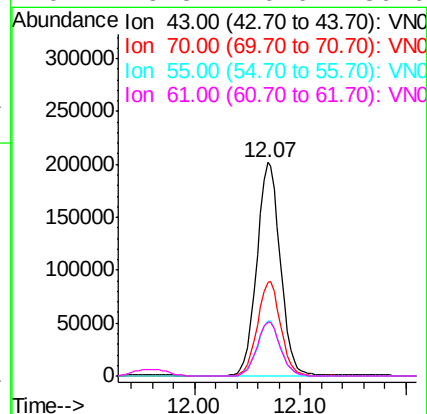
Ion Ratio Lower Upper

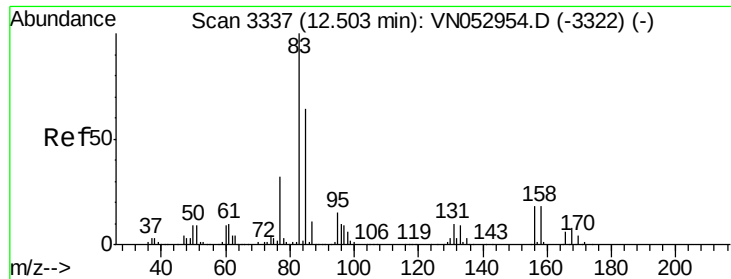
43 100

70 44.0 34.2 51.4

55 25.6 20.3 30.5

61 25.3 20.0 30.0





#75

1,1,2,2-Tetrachloroethane

Concen: 24.128 ug/l

RT: 12.51 min Scan# 3338

Delta R.T. 0.00 min

Lab File: VN053101.D

Acq: 21 Dec 2018 14:51

Instrument :

MSVOA_N

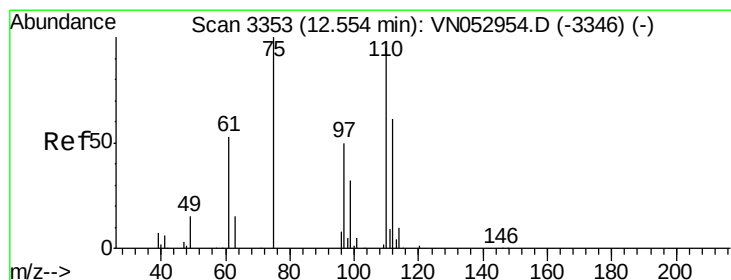
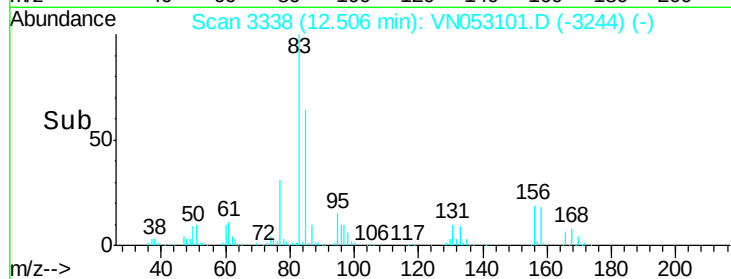
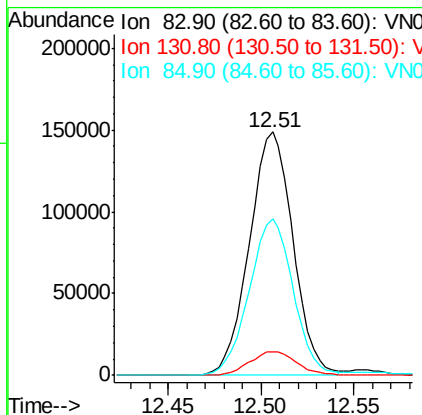
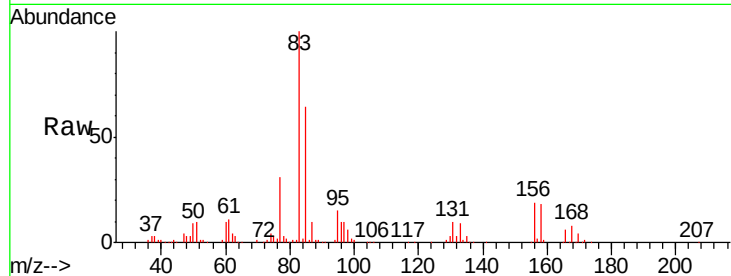
ClientSampleId :

VN1221MBS01

Tgt Ion:	83	Resp:	243181
Ion Ratio	Lower	Upper	
83	100		
131	10.5	5.2	15.6
85	65.1	32.4	97.0

Manual Integrations
APPROVED

MMDadoda
12/22/2018 10:06:31 AM



#76

1,2,3-Trichloropropane

Concen: 19.651 ug/l m

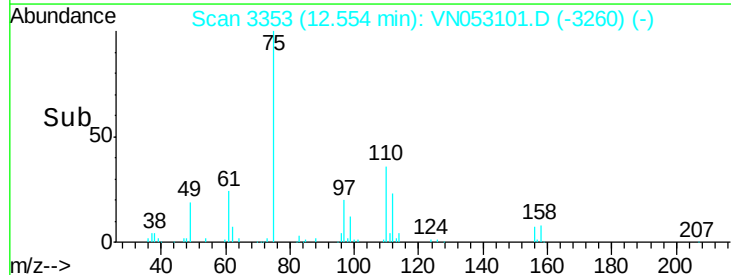
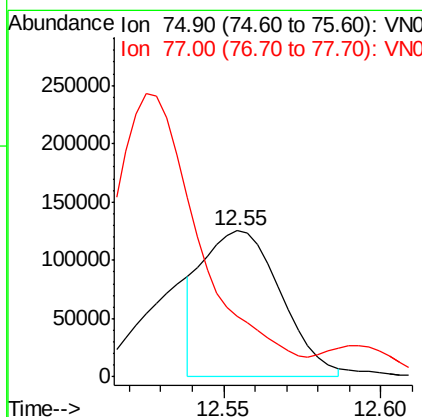
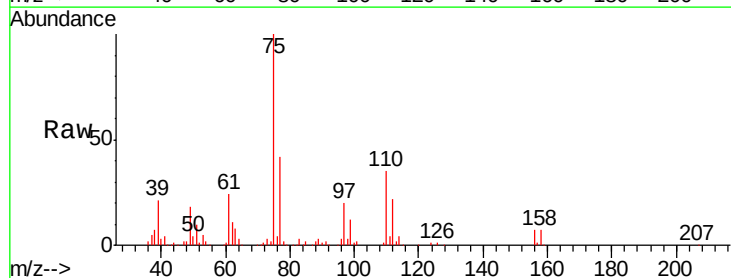
RT: 12.55 min Scan# 3353

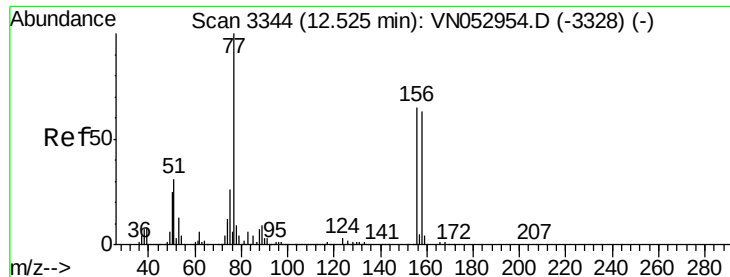
Delta R.T. -0.00 min

Lab File: VN053101.D

Acq: 21 Dec 2018 14:51

Tgt Ion:	75	Resp:	217215
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 20.141 ug/l

RT: 12.53 min Scan# 3345

Delta R.T. 0.00 min

Lab File: VN053101.D

Acq: 21 Dec 2018 14:51

Instrument :

MSVOA_N

ClientSampleId :

VN1221MBS01

Tgt Ion: 156 Resp: 268979

Ion Ratio Lower Upper

156 100

77 180.1 91.3 273.8

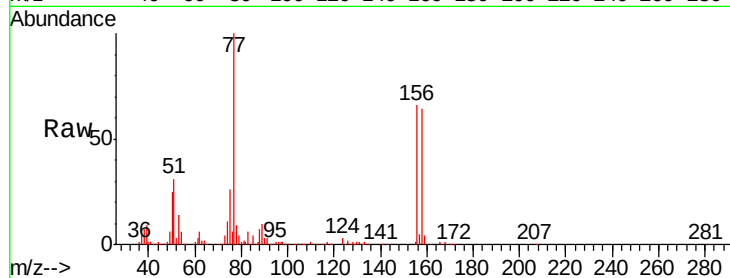
158 97.2 49.0 147.2

Manual Integrations

APPROVED

MMDadoda

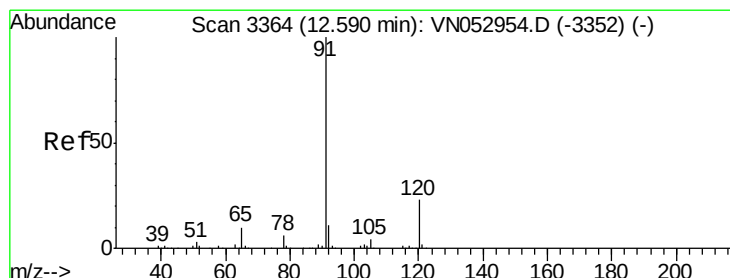
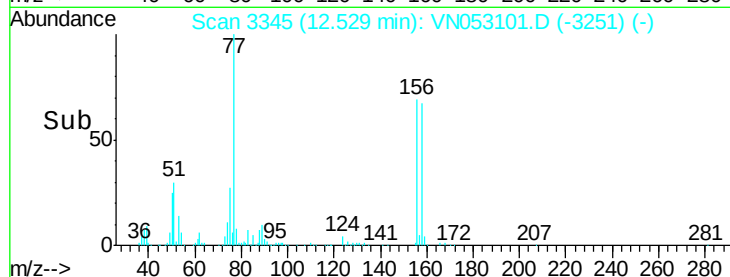
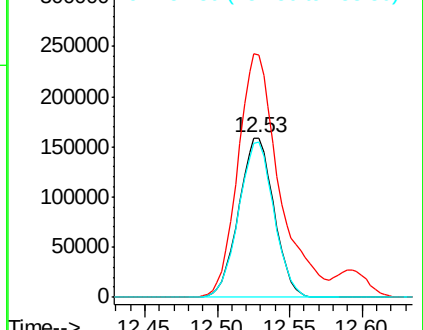
12/22/2018 10:06:31 AM



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VN0

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 20.248 ug/l

RT: 12.59 min Scan# 3365

Delta R.T. 0.00 min

Lab File: VN053101.D

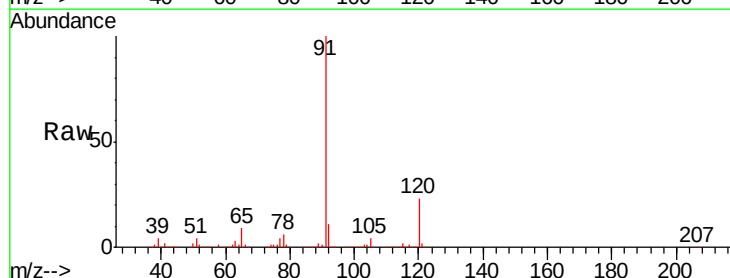
Acq: 21 Dec 2018 14:51

Tgt Ion: 91 Resp: 1184741

Ion Ratio Lower Upper

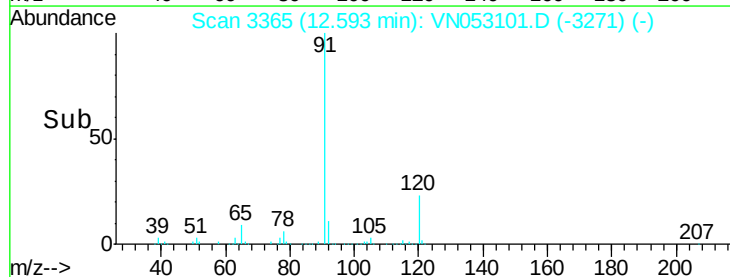
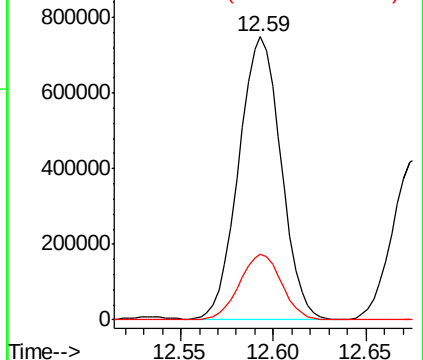
91 100

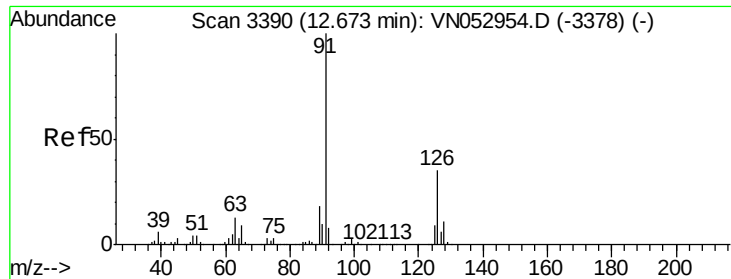
120 23.3 11.5 34.5



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 19.446 ug/l

RT: 12.68 min Scan# 3391

Delta R.T. 0.00 min

Lab File: VN053101.D

Acq: 21 Dec 2018 14:51

Instrument :

MSVOA_N

ClientSampleId :

VN1221MBS01

Tgt Ion: 91 Resp: 705280

Ion Ratio Lower Upper

91 100

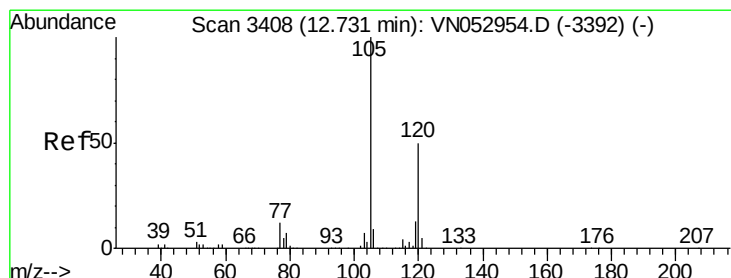
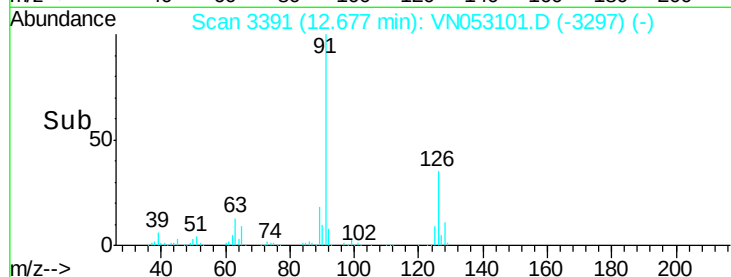
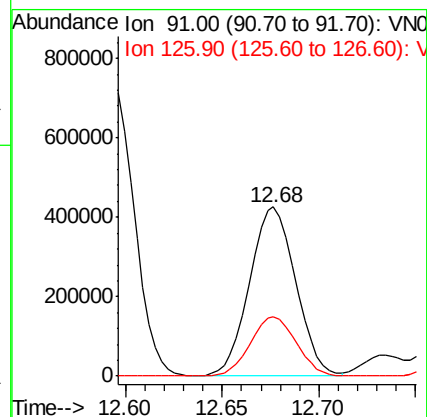
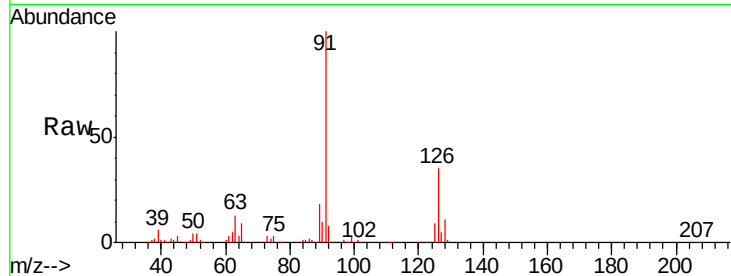
126 35.0 17.4 52.3

Manual Integrations

APPROVED

MMDadoda

12/22/2018 10:06:31 AM



#80

1,3,5-Trimethylbenzene

Concen: 20.242 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN053101.D

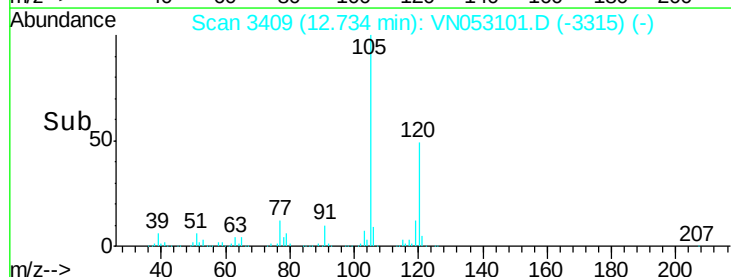
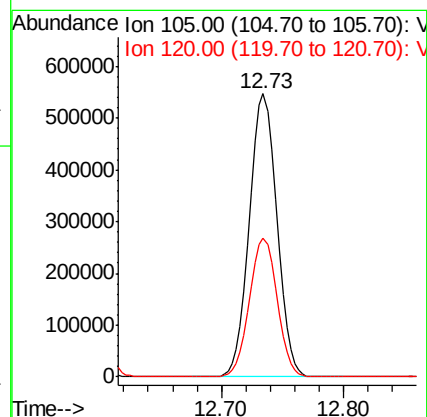
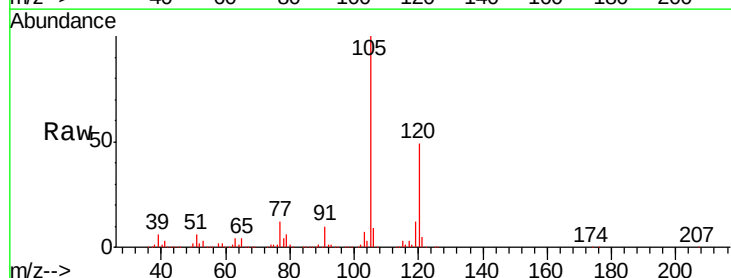
Acq: 21 Dec 2018 14:51

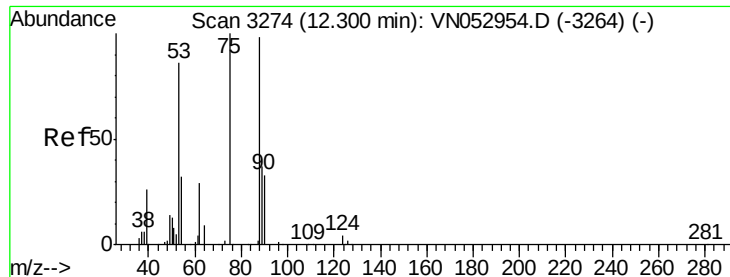
Tgt Ion: 105 Resp: 847628

Ion Ratio Lower Upper

105 100

120 49.3 24.4 73.2





#81

trans-1,4-Dichloro-2-butene

Concen: 19.614 ug/l

RT: 12.30 min Scan# 3274

Delta R.T. -0.00 min

Lab File: VN053101.D

Acq: 21 Dec 2018 14:51

Instrument :

MSVOA_N

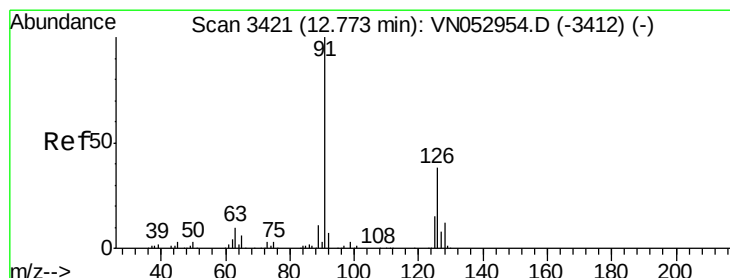
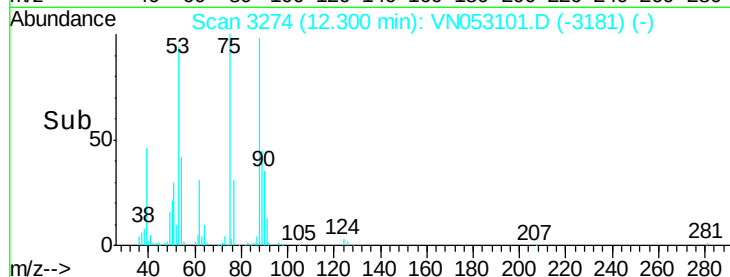
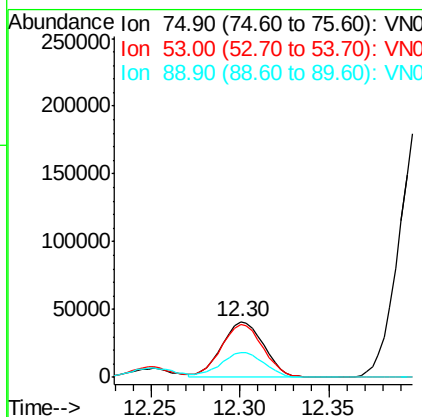
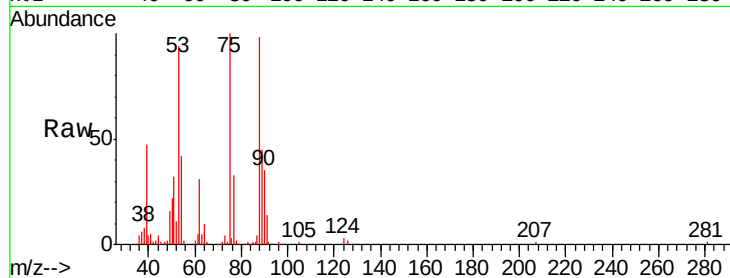
ClientSampleId :

VN1221MBS01

Tgt Ion:	75	Resp:	67265
Ion	Ratio	Lower	Upper
75	100		
53	95.4	74.7	112.1
89	45.9	36.1	54.1

Manual Integrations
APPROVED

MMDadoda
12/22/2018 10:06:31 AM



#82

4-Chlorotoluene

Concen: 20.172 ug/l

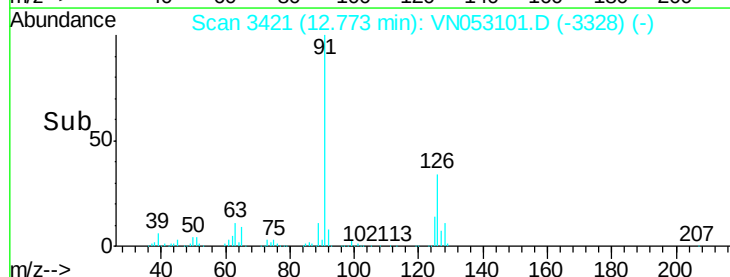
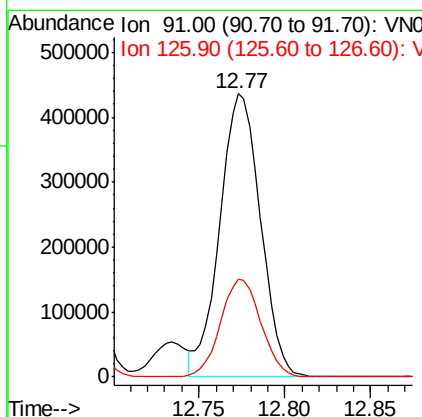
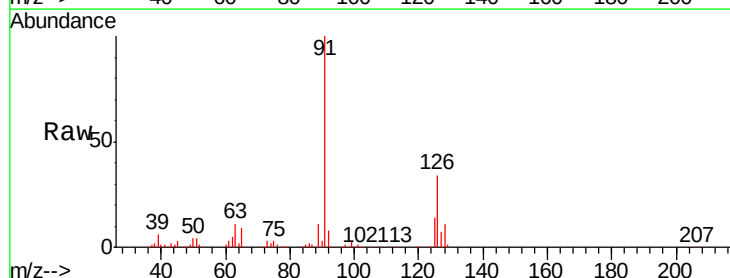
RT: 12.77 min Scan# 3421

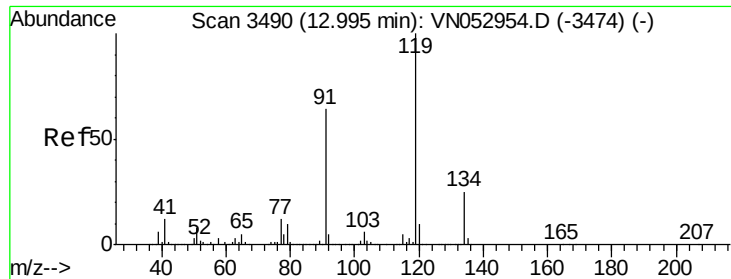
Delta R.T. -0.00 min

Lab File: VN053101.D

Acq: 21 Dec 2018 14:51

Tgt Ion:	91	Resp:	716155
Ion	Ratio	Lower	Upper
91	100		
126	34.5	17.3	51.7





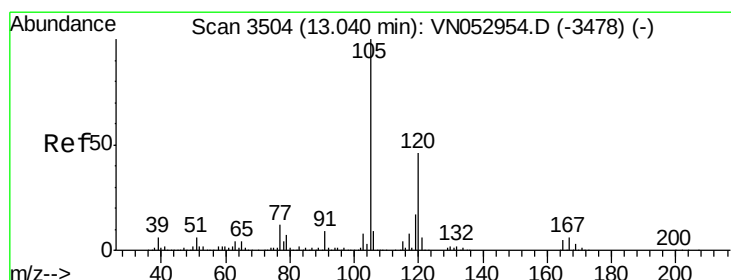
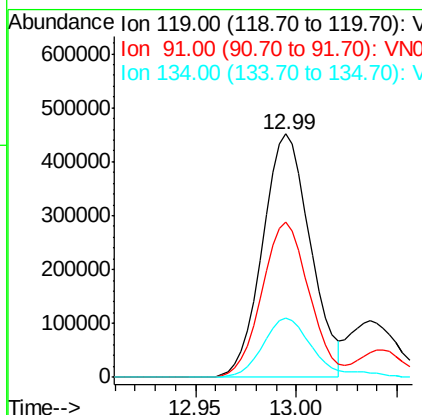
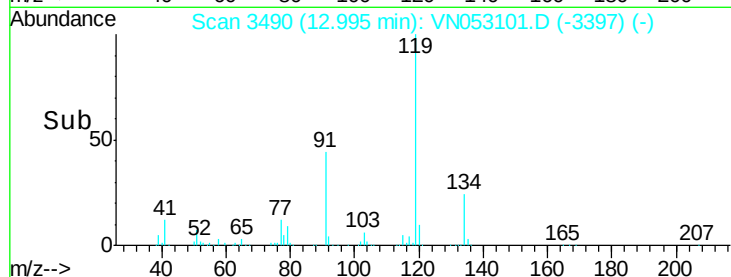
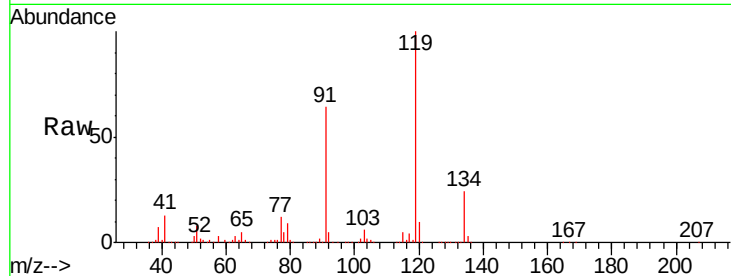
#83
 tert-Butylbenzene
 Concen: 20.087 ug/l
 RT: 12.99 min Scan# 3490
 Delta R.T. -0.00 min
 Lab File: VN053101.D
 Acq: 21 Dec 2018 14:51

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1221MBS01

Tgt Ion	Ratio	Resp	Lower	Upper
119	100	743904		
91	63.2	31.9	95.5	
134	26.0	12.8	38.4	

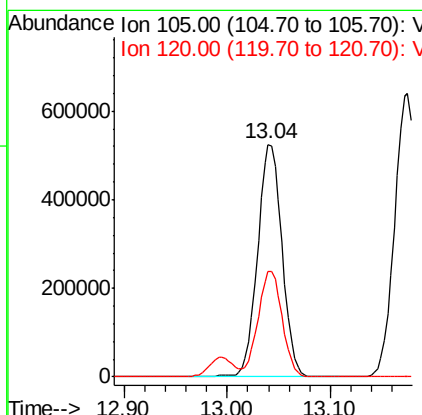
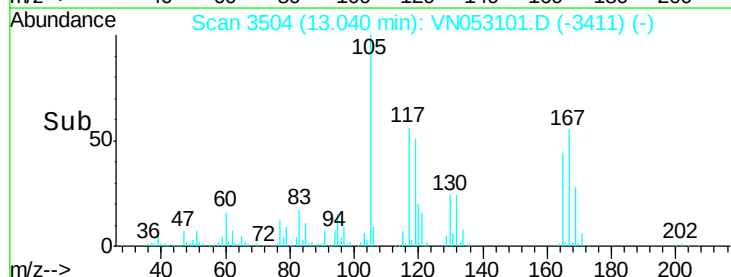
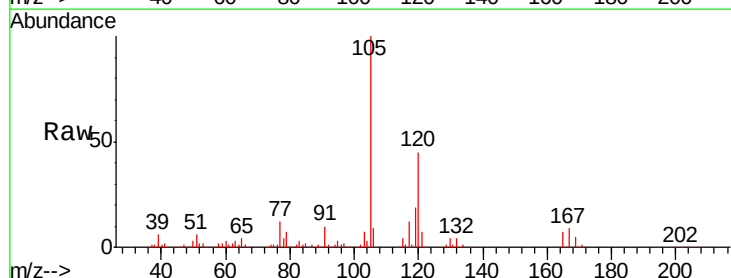
Manual Integrations
 APPROVED

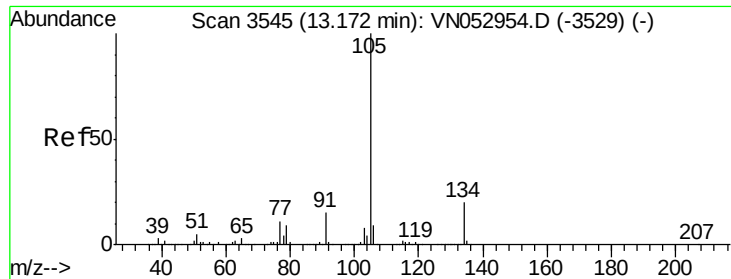
MMDadoda
 12/22/2018 10:06:31 AM



#84
 1,2,4-Trimethylbenzene
 Concen: 20.394 ug/l
 RT: 13.04 min Scan# 3504
 Delta R.T. -0.00 min
 Lab File: VN053101.D
 Acq: 21 Dec 2018 14:51

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	858522		
120	44.9	22.9	68.8	





#85

sec-Butylbenzene

Concen: 19.915 ug/l

RT: 13.17 min Scan# 3546

Delta R.T. 0.00 min

Lab File: VN053101.D

Acq: 21 Dec 2018 14:51

Instrument :

MSVOA_N

ClientSampleId :

VN1221MBS01

Tgt Ion:105 Resp: 997597

Ion Ratio Lower Upper

105 100

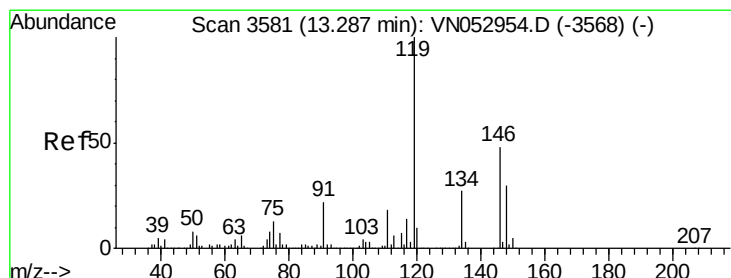
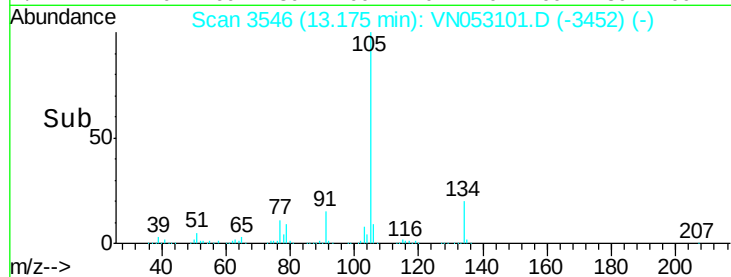
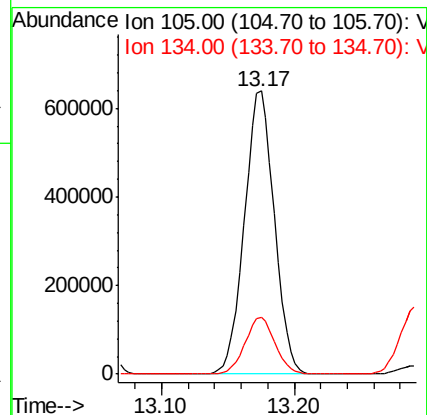
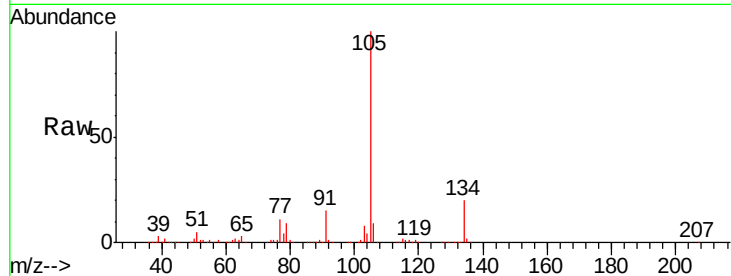
134 20.1 10.1 30.3

Manual Integrations

APPROVED

MMDadoda

12/22/2018 10:06:31 AM



#86

p-Isopropyltoluene

Concen: 19.848 ug/l

RT: 13.29 min Scan# 3582

Delta R.T. 0.00 min

Lab File: VN053101.D

Acq: 21 Dec 2018 14:51

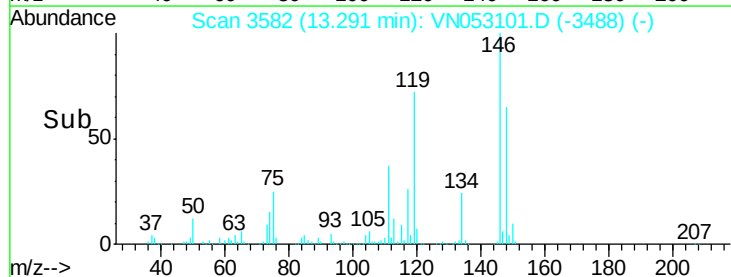
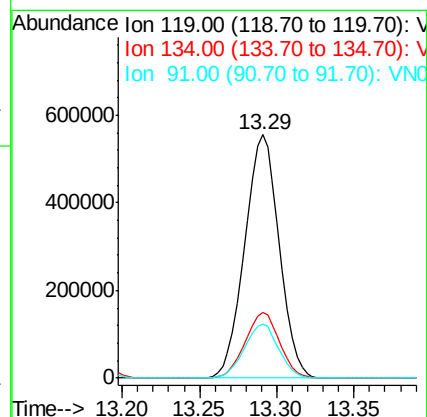
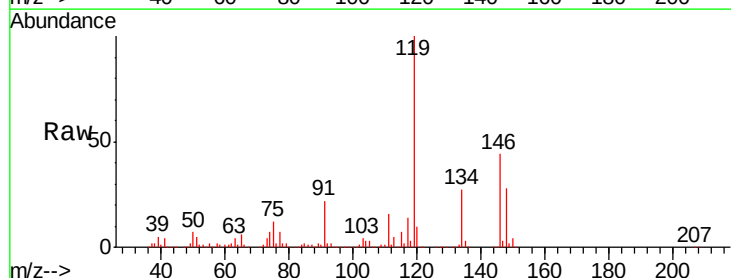
Tgt Ion:119 Resp: 859105

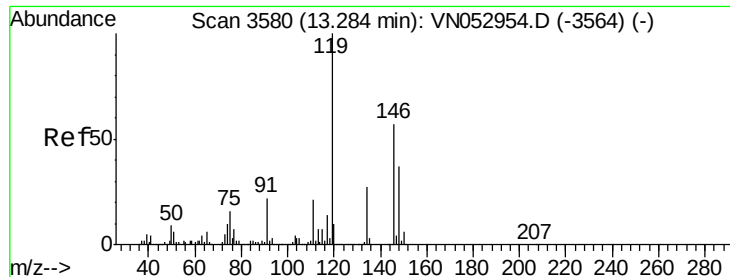
Ion Ratio Lower Upper

119 100

134 27.0 13.4 40.2

91 22.2 11.1 33.3





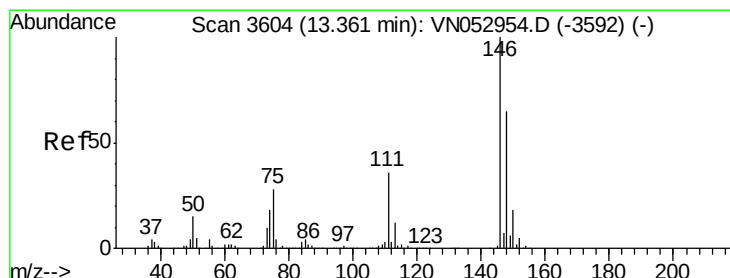
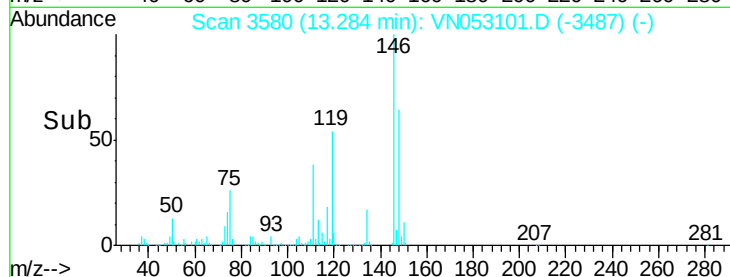
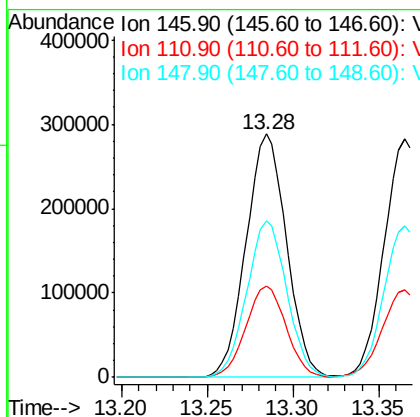
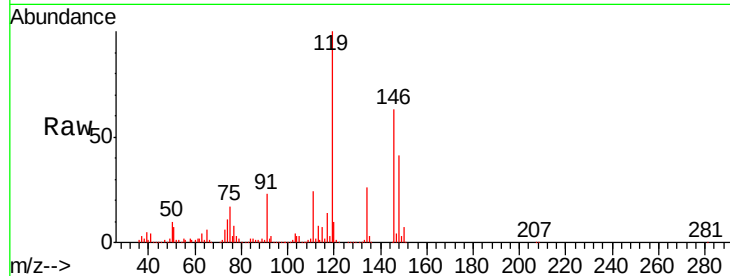
#87
 1,3-Dichlorobenzene
 Concen: 19.929 ug/l
 RT: 13.28 min Scan# 3580
 Delta R.T. -0.00 min
 Lab File: VN053101.D
 Acq: 21 Dec 2018 14:51

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1221MBS01

Tgt Ion	Ratio	Lower	Upper
146	100		
111	37.4	19.1	57.1
148	63.6	32.0	96.0

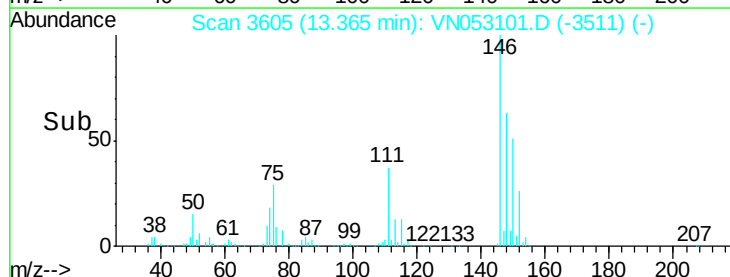
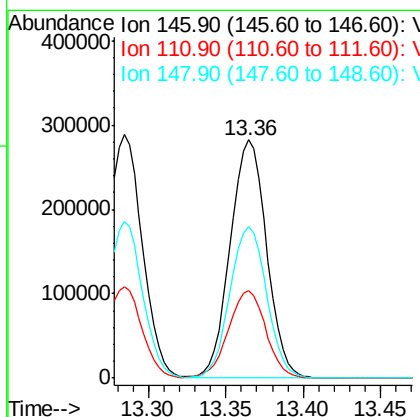
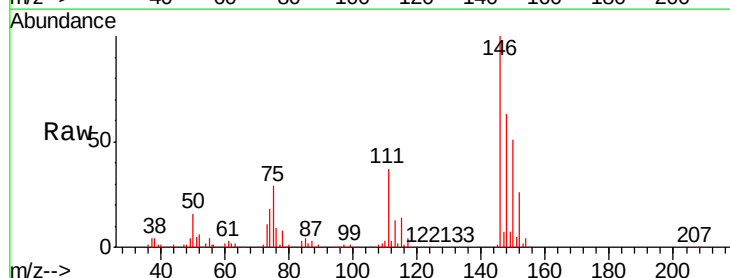
Manual Integrations
 APPROVED

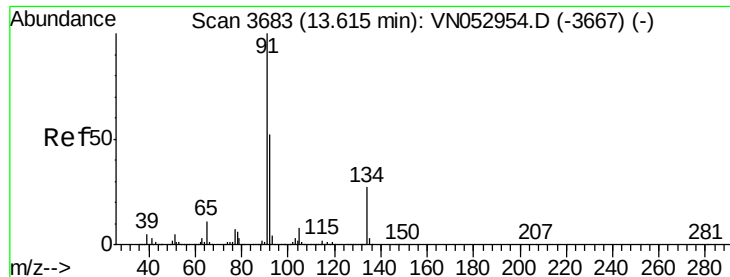
MMDadoda
 12/22/2018 10:06:31 AM



#88
 1,4-Dichlorobenzene
 Concen: 19.243 ug/l
 RT: 13.36 min Scan# 3605
 Delta R.T. 0.00 min
 Lab File: VN053101.D
 Acq: 21 Dec 2018 14:51

Tgt Ion	Ratio	Lower	Upper
146	100		
111	37.9	18.6	55.8
148	64.2	32.1	96.5





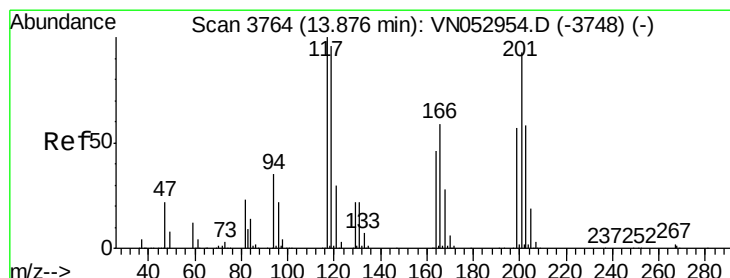
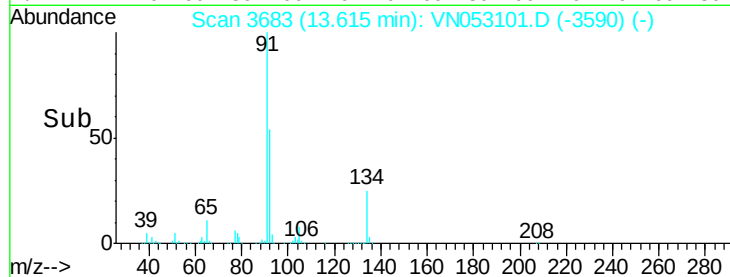
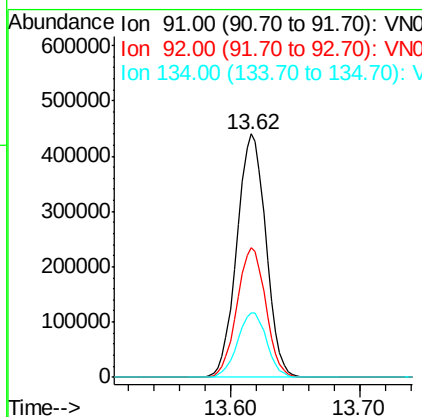
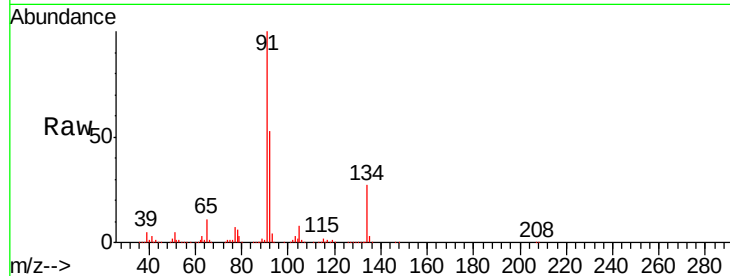
#89
n-Butylbenzene
Concen: 18.447 ug/l
RT: 13.62 min Scan# 3683
Delta R.T. -0.00 min
Lab File: VN053101.D
Acq: 21 Dec 2018 14:51

Instrument :
MSVOA_N
ClientSampleId :
VN1221MBS01

Tgt Ion	Ratio	Lower	Upper
91	100		
92	52.8	26.3	78.9
134	26.6	13.3	39.8

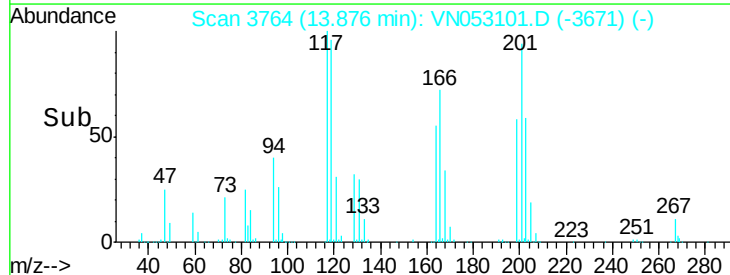
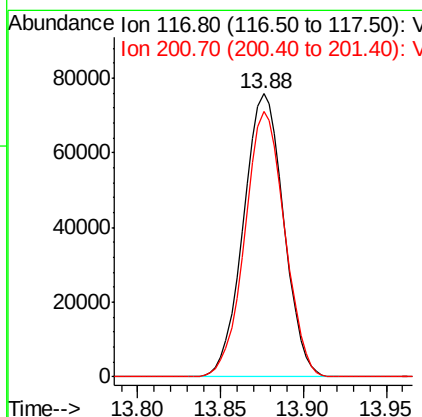
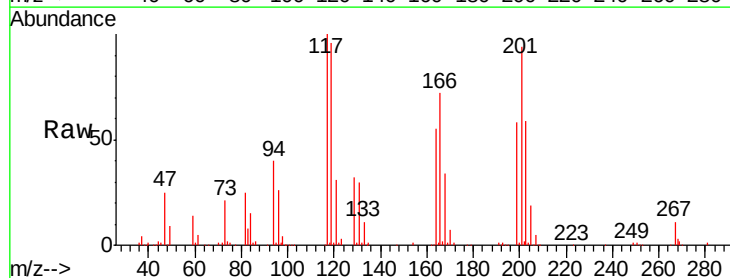
Manual Integrations
APPROVED

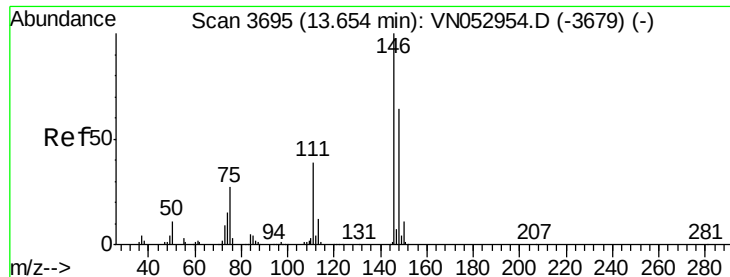
MMDadoda
12/22/2018 10:06:31 AM



#90
Hexachloroethane
Concen: 19.266 ug/l
RT: 13.88 min Scan# 3764
Delta R.T. -0.00 min
Lab File: VN053101.D
Acq: 21 Dec 2018 14:51

Tgt Ion	Ratio	Lower	Upper
117	100		
201	92.6	45.7	137.1





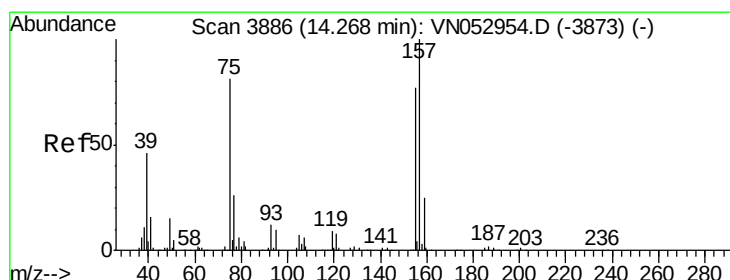
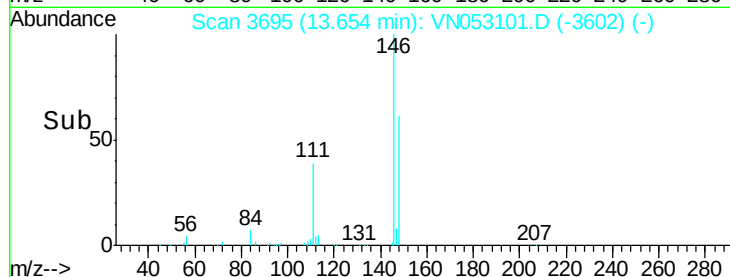
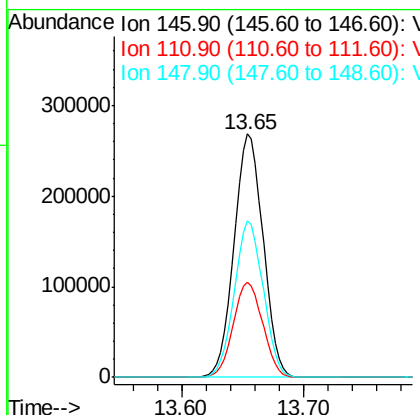
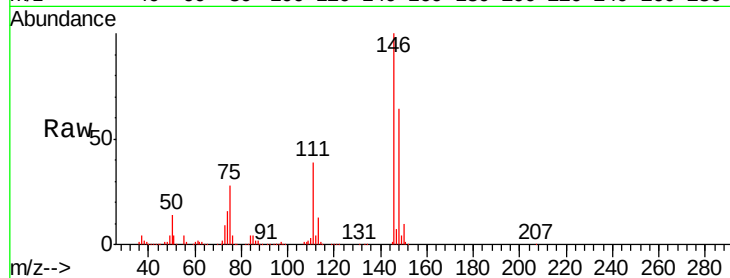
#91
 1,2-Dichlorobenzene
 Concen: 19.961 ug/l
 RT: 13.65 min Scan# 3695
 Delta R.T. -0.00 min
 Lab File: VN053101.D
 Acq: 21 Dec 2018 14:51

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1221MBS01

Tgt Ion	Ratio	Lower	Upper
146	100		
111	39.7	19.7	59.0
148	63.7	32.0	96.0

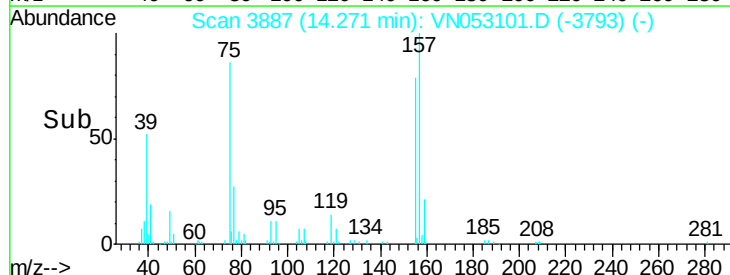
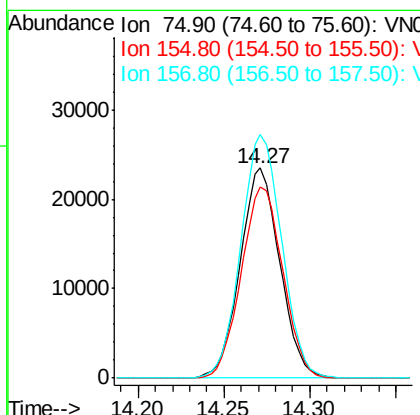
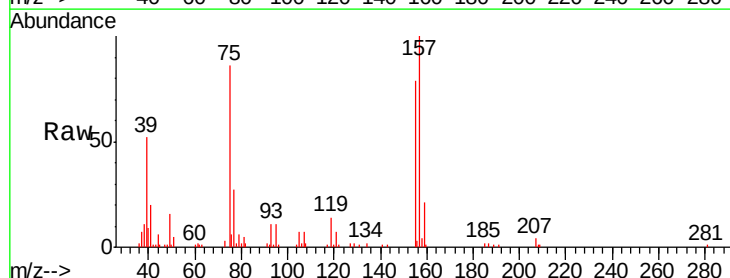
Manual Integrations
 APPROVED

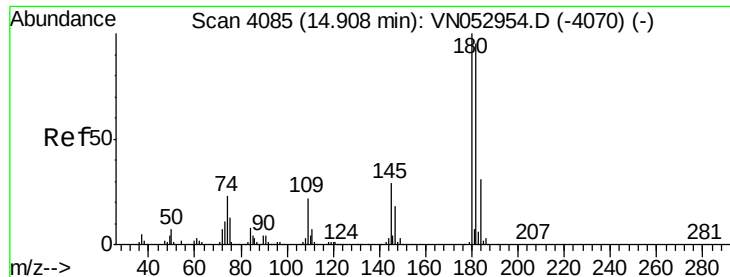
MMDadoda
 12/22/2018 10:06:31 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 21.624 ug/l
 RT: 14.27 min Scan# 3887
 Delta R.T. 0.00 min
 Lab File: VN053101.D
 Acq: 21 Dec 2018 14:51

Tgt Ion	Ratio	Lower	Upper
75	100		
155	94.8	48.2	144.6
157	119.1	61.2	183.5





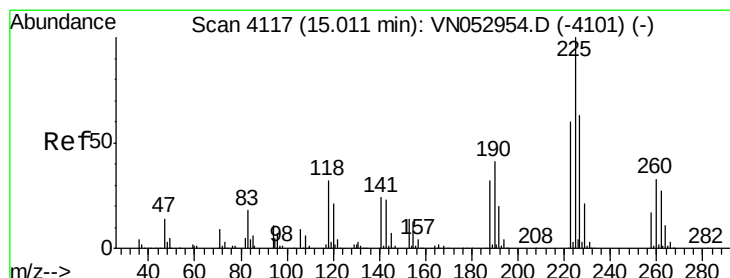
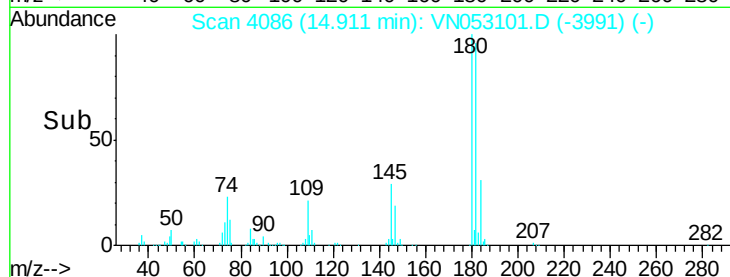
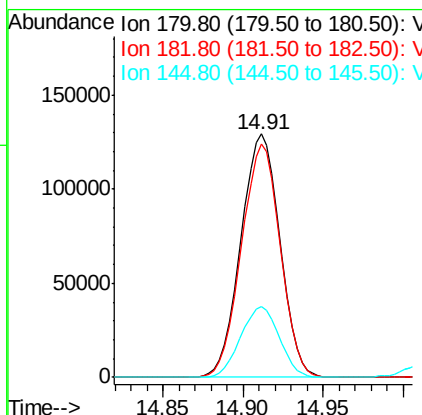
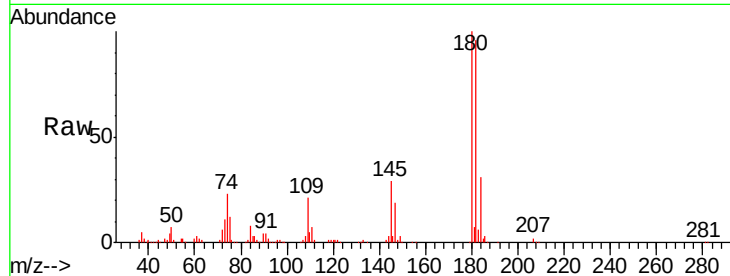
#93
 1,2,4-Trichlorobenzene
 Concen: 18.700 ug/l
 RT: 14.91 min Scan# 4086
 Delta R.T. 0.00 min
 Lab File: VN053101.D
 Acq: 21 Dec 2018 14:51

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1221MBS01

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	215940		
182	95.1	47.8	143.3	
145	28.8	14.2	42.6	

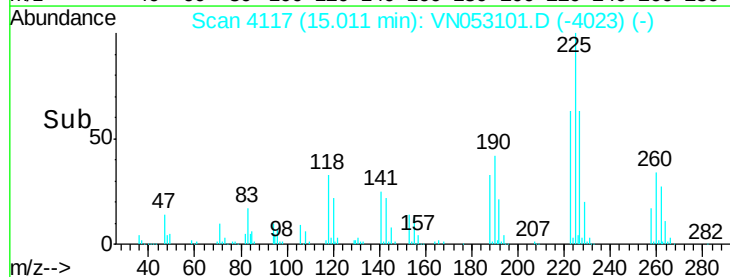
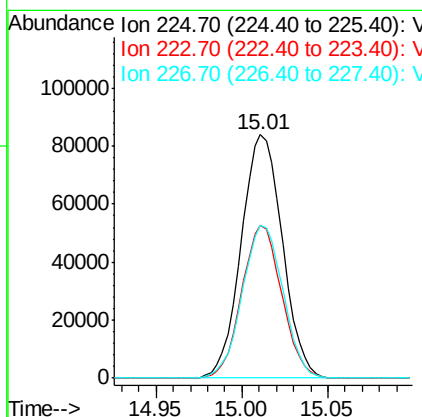
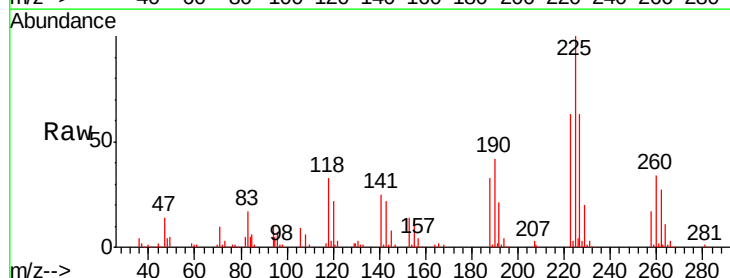
Manual Integrations
 APPROVED

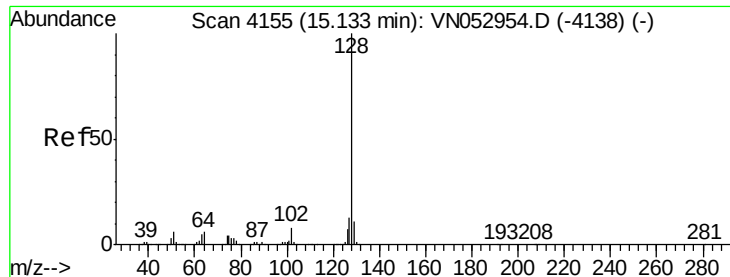
MMDadoda
 12/22/2018 10:06:31 AM



#94
 Hexachlorobutadiene
 Concen: 21.245 ug/l
 RT: 15.01 min Scan# 4117
 Delta R.T. 0.00 min
 Lab File: VN053101.D
 Acq: 21 Dec 2018 14:51

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	139720		
223	61.0	31.5	94.5	
227	62.0	31.9	95.7	





#95

Naphthalene

Concen: 19.254 ug/l

RT: 15.14 min Scan# 4156

Delta R.T. 0.00 min

Lab File: VN053101.D

Acq: 21 Dec 2018 14:51

Instrument :

MSVOA_N

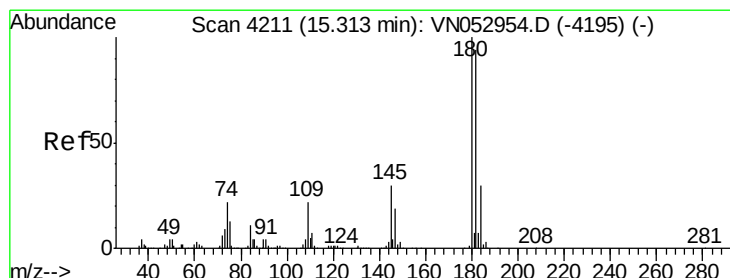
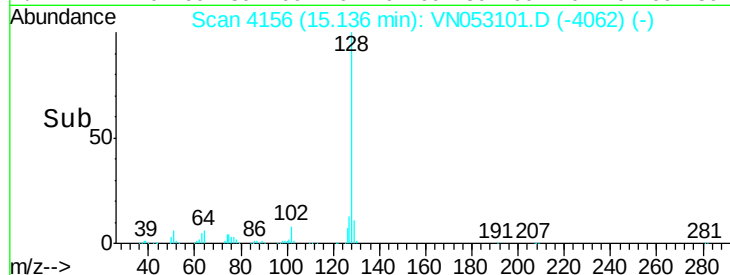
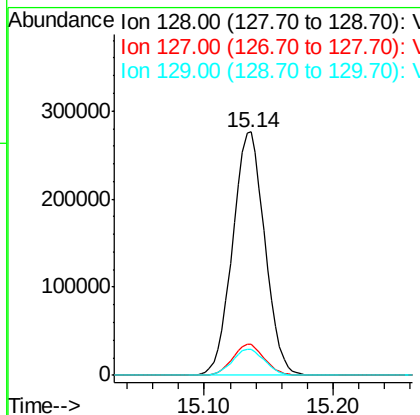
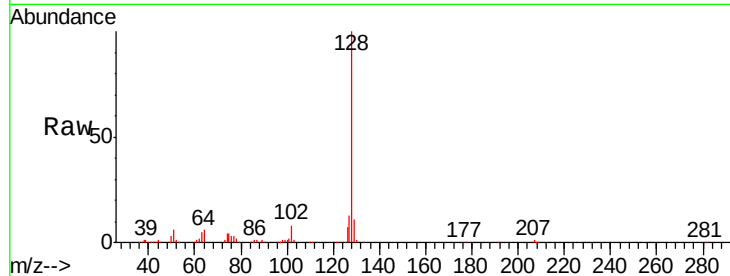
ClientSampleId :

VN1221MBS01

Tgt Ion:	128	Resp:	478448
Ion Ratio	Lower	Upper	
128	100		
127	12.6	10.2	15.4
129	10.9	8.6	13.0

Manual Integrations
APPROVED

MMDadoda
12/22/2018 10:06:31 AM



#96

1,2,3-Trichlorobenzene

Concen: 18.852 ug/l

RT: 15.32 min Scan# 4212

Delta R.T. 0.00 min

Lab File: VN053101.D

Acq: 21 Dec 2018 14:51

Tgt Ion:	180	Resp:	196679
Ion Ratio	Lower	Upper	
180	100		
182	97.1	47.9	143.7
145	30.1	15.0	45.0

