

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN090718\
 Data File : VN051052.D
 Acq On : 7 Sep 2018 14:36
 Operator : MD\SY
 Sample : VN0907MBSD01
 Misc : 5.00µg/10mL/100µL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0907MBSD01

Manual Integrations
 APPROVED

MMDadoda
 9/10/2018 11:53:41 AM

Quant Time: Sep 08 00:26:34 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N082118W.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 22 05:38:12 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	598464	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	856377	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	789672	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	392070	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	351053	48.73	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.46%	
35) Dibromofluoromethane	7.59	113	334969	49.17	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.34%	
50) Toluene-d8	10.09	98	1262554	49.57	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.14%	
62) 4-Bromofluorobenzene	12.40	95	418652	49.46	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.92%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	168323	21.02	ug/l	99
3) Chloromethane	2.06	50	175817	17.80	ug/l	100
4) Vinyl Chloride	2.18	62	181030	19.35	ug/l	100
5) Bromomethane	2.56	94	102694	18.64	ug/l	98
6) Chloroethane	2.70	64	105129	19.44	ug/l	99
7) Trichlorofluoromethane	3.01	101	241074	20.12	ug/l	99
8) Diethyl Ether	3.41	74	86646	21.27	ug/l	97
9) 1,1,2-Trichlorotrifluoroet	3.76	101	146397	19.56	ug/l	98
10) Methyl Iodide	3.95	142	104176	20.19	ug/l	100
11) Tert butyl alcohol	4.79	59	58260	126.99	ug/l	99
12) 1,1-Dichloroethene	3.73	96	136903	20.37	ug/l	95
13) Acrolein	3.61	56	21303	91.73	ug/l	96
14) Allyl chloride	4.32	41	205316	19.60	ug/l	98
15) Acrylonitrile	4.99	53	262043	112.39	ug/l	99
16) Acetone	3.82	43	184066	103.76	ug/l	96
17) Carbon Disulfide	4.05	76	407569	18.09	ug/l	100
18) Methyl Acetate	4.33	43	153383	22.55	ug/l	99
19) Methyl tert-butyl Ether	5.05	73	370686	21.92	ug/l	99
20) Methylene Chloride	4.55	84	157501	19.40	ug/l	98
21) trans-1,2-Dichloroethene	5.04	96	142427	19.59	ug/l	98
22) Diisopropyl ether	5.95	45	429867	20.59	ug/l	97
23) Vinyl Acetate	5.90	43	1390080	103.41	ug/l	99
24) 1,1-Dichloroethane	5.85	63	261271	19.50	ug/l	100
25) 2-Butanone	6.84	43	294906	101.57	ug/l	99
26) 2,2-Dichloropropane	6.83	77	201423	18.71	ug/l	98
27) cis-1,2-Dichloroethene	6.83	96	155377	19.82	ug/l	99
28) Bromochloromethane	7.20	49	102407	17.98	ug/l	96
29) Tetrahydrofuran	7.22	42	201985	121.34	ug/l	99
30) Chloroform	7.37	83	262081	19.75	ug/l	100
31) Cyclohexane	7.65	56	236220	19.68	ug/l	98
32) 1,1,1-Trichloroethane	7.57	97	221484	19.43	ug/l	99
36) 1,1-Dichloropropene	7.79	75	196281	19.42	ug/l	99
37) Ethyl Acetate	6.93	43	133857	23.06	ug/l	99
38) Carbon Tetrachloride	7.78	117	198246	19.41	ug/l	98

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN090718\
 Data File : VN051052.D
 Acq On : 7 Sep 2018 14:36
 Operator : MD\SY
 Sample : VN0907MBSD01
 Misc : 5.00µg/10mL/100µL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleID :
 VN0907MBSD01

Manual Integrations
 APPROVED

MMDadoda
 9/10/2018 11:53:41 AM

Quant Time: Sep 08 00:26:34 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N082118W.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 22 05:38:12 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	211963	19.39	ug/l	99
40) Benzene	8.04	78	618600	20.30	ug/l	100
41) Methacrylonitrile	7.18	41	62105	19.77	ug/l	91
42) 1,2-Dichloroethane	8.13	62	184292	20.23	ug/l	98
43) Isopropyl Acetate	8.17	43	224366	22.48	ug/l #	88
44) Trichloroethene	8.84	130	164028	20.41	ug/l	94
45) 1,2-Dichloropropane	9.12	63	157013	19.60	ug/l	99
46) Dibromomethane	9.21	93	96809	20.57	ug/l	97
47) Bromodichloromethane	9.40	83	195424	19.83	ug/l	96
48) Methyl methacrylate	9.20	41	111771	21.97	ug/l	99
49) 1,4-Dioxane	9.20	88	35821	516.58	ug/l	97
51) 4-Methyl-2-Pentanone	9.99	43	660268	110.85	ug/l	99
52) Toluene	10.16	92	379383	21.02	ug/l	99
53) t-1,3-Dichloropropene	10.38	75	194440	19.82	ug/l	98
54) cis-1,3-Dichloropropene	9.84	75	226010	20.12	ug/l	98
55) 1,1,2-Trichloroethane	10.56	97	139862	20.87	ug/l	99
56) Ethyl methacrylate	10.43	69	171973	21.15	ug/l	96
57) 1,3-Dichloropropane	10.71	76	232785	21.05	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.70	63	323109	93.02	ug/l	98
59) 2-Hexanone	10.75	43	435412	109.81	ug/l	99
60) Dibromochloromethane	10.90	129	151532	20.20	ug/l	99
61) 1,2-Dibromoethane	11.01	107	139284	21.50	ug/l	100
64) Tetrachloroethene	10.63	164	149609	19.95	ug/l	100
65) Chlorobenzene	11.44	112	413895	20.05	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.51	131	151793	20.10	ug/l	100
67) Ethyl Benzene	11.51	91	678932	20.23	ug/l	99
68) m/p-Xylenes	11.62	106	534764	41.99	ug/l	99
69) o-Xylene	11.95	106	263785	21.54	ug/l	99
70) Styrene	11.96	104	407271	19.66	ug/l	99
71) Bromoform	12.13	173	109369	21.06	ug/l #	99
73) Isopropylbenzene	12.25	105	693911	21.37	ug/l	100
74) N-amyl acetate	12.07	43	225975	27.70	ug/l	94
75) 1,1,2,2-Tetrachloroethane	12.50	83	189479	23.62	ug/l	97
76) 1,2,3-Trichloropropane	12.55	75	146013m	21.26	ug/l	
77) Bromobenzene	12.53	156	178206	20.20	ug/l	99
78) n-propylbenzene	12.59	91	794594	21.91	ug/l	99
79) 2-Chlorotoluene	12.67	91	461194	20.42	ug/l	99
80) 1,3,5-Trimethylbenzene	12.73	105	562224	21.46	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.30	75	44451	21.88	ug/l	93
82) 4-Chlorotoluene	12.77	91	457519	20.52	ug/l	99
83) tert-Butylbenzene	12.99	119	505862	22.30	ug/l	98
84) 1,2,4-Trimethylbenzene	13.04	105	573688	21.77	ug/l	100
85) sec-Butylbenzene	13.17	105	644378	21.68	ug/l	99
86) p-Isopropyltoluene	13.29	119	559337	22.08	ug/l	99
87) 1,3-Dichlorobenzene	13.28	146	298475	19.93	ug/l	100
88) 1,4-Dichlorobenzene	13.36	146	289040	19.61	ug/l	98
89) n-Butylbenzene	13.62	91	427507	21.10	ug/l	99
90) Hexachloroethane	13.88	117	98297	20.47	ug/l	99
91) 1,2-Dichlorobenzene	13.65	146	294273	20.37	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	14.27	75	25742	22.08	ug/l	93

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN090718\
 Data File : VN051052.D
 Acq On : 7 Sep 2018 14:36
 Operator : MD\SY
 Sample : VN0907MBSD01
 Misc : 5.00µ/10mL/100uL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0907MBSD01

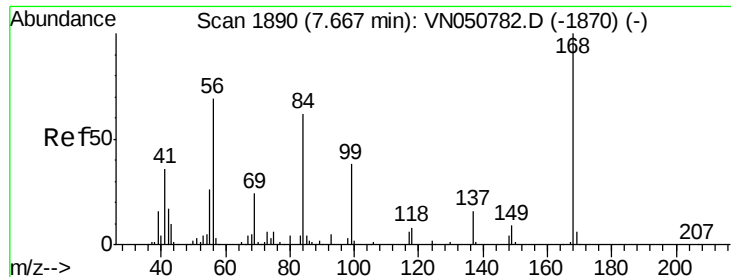
Manual Integrations
 APPROVED

MMDadoda
 9/10/2018 11:53:41 AM

Quant Time: Sep 08 00:26:34 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N082118W.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 22 05:38:12 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	123271	19.15	ug/l	98
94) Hexachlorobutadiene	15.01	225	93498	21.19	ug/l	99
95) Naphthalene	15.13	128	251518	19.72	ug/l	100
96) 1,2,3-Trichlorobenzene	15.32	180	125612	19.95	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN051052.D

Acq: 7 Sep 2018 14:36

Instrument :

MSVOA_N

ClientSampleId :

VN0907MBSD01

Tot Ion:168 Resp: 598464

Ion Ratio Lower Upper

168 100

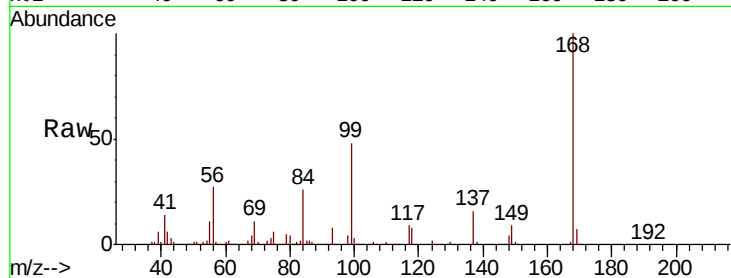
99 48.2 39.6 59.4

Manual Integrations

APPROVED

MMDadoda

9/10/2018 11:53:41 AM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

300000

250000

200000

150000

100000

50000

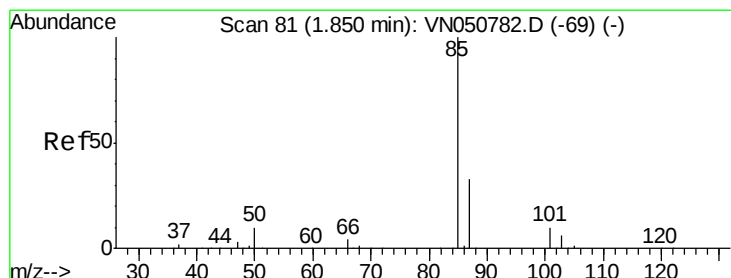
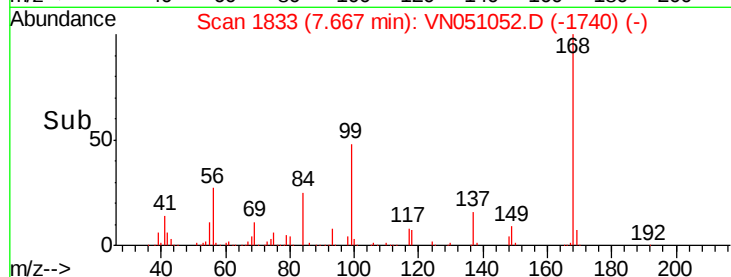
0

7.67

7.60

7.70

Time-->



#2

Dichlorodifluoromethane

Concen: 21.02 ug/l

RT: 1.85 min Scan# 24

Delta R.T. 0.00 min

Lab File: VN051052.D

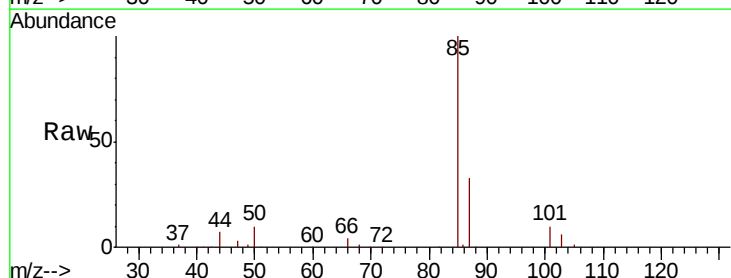
Acq: 7 Sep 2018 14:36

Tgt Ion: 85 Resp: 168323

Ion Ratio Lower Upper

85 100

87 33.2 16.4 49.1



Abundance Ion 84.90 (84.60 to 85.60): VN

Ion 86.90 (86.60 to 87.60): VN

100000

50000

0

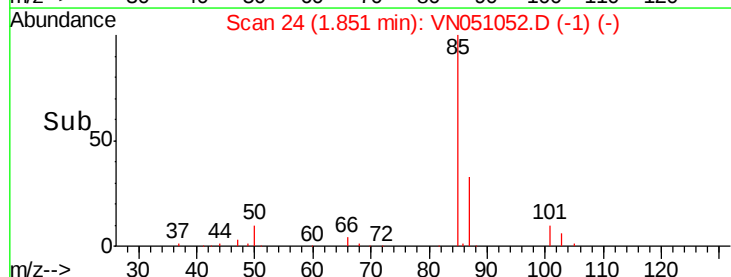
1.85

1.80

1.90

1.95

Time-->





#3

Chloromethane

Concen: 17.80 ug/l

RT: 2.06 min Scan# 88

Delta R.T. 0.00 min

Lab File: VN051052.D

Acq: 7 Sep 2018 14:36

Instrument :

MSVOA_N

ClientSampleId :

VN0907MBS01

Tot Ion: 50 Resp: 175817

Ion Ratio Lower Upper

50 100

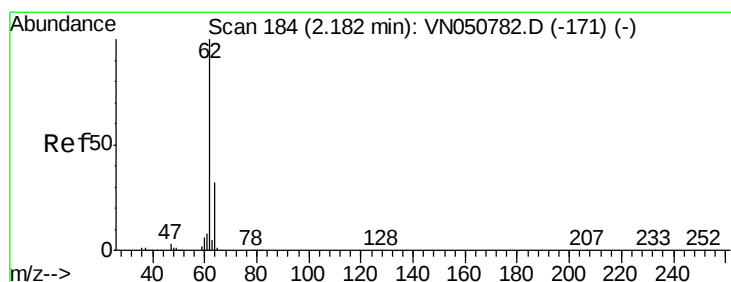
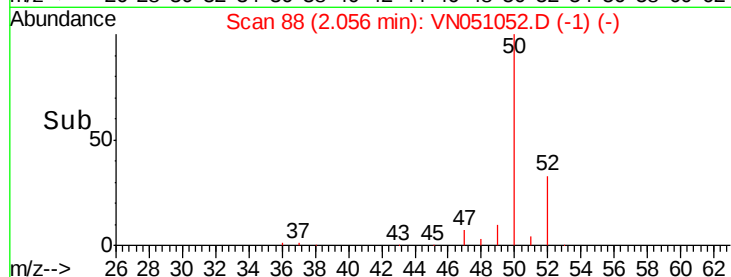
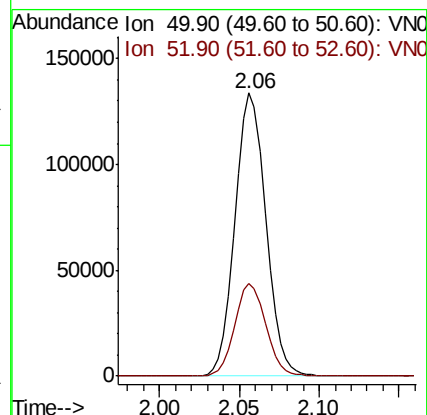
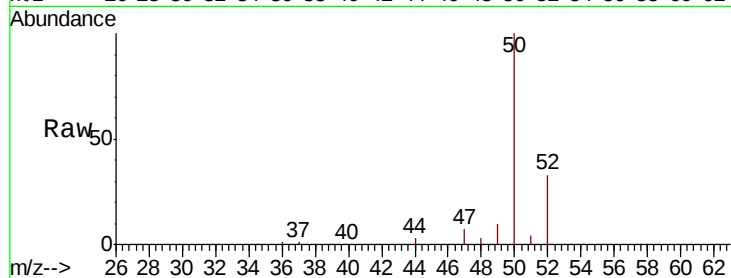
52 32.8 26.3 39.5

Manual Integrations

APPROVED

MMDadoda

9/10/2018 11:53:41 AM



#4

Vinyl Chloride

Concen: 19.35 ug/l

RT: 2.18 min Scan# 127

Delta R.T. 0.00 min

Lab File: VN051052.D

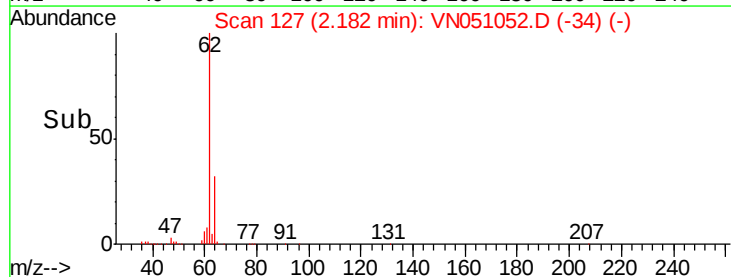
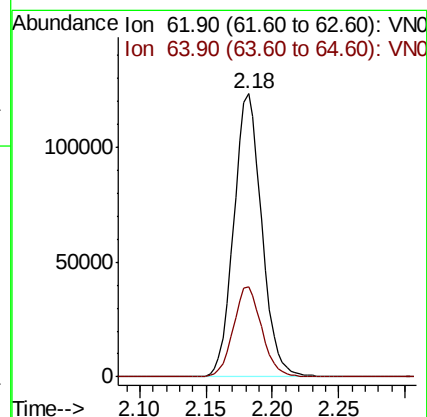
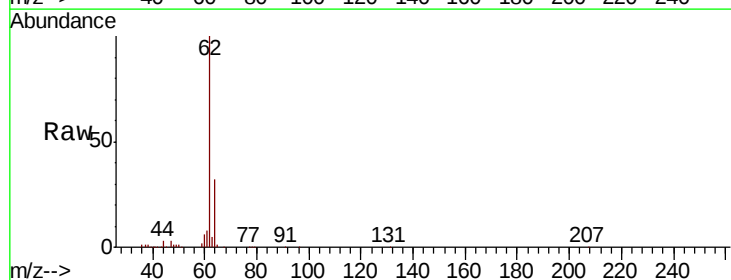
Acq: 7 Sep 2018 14:36

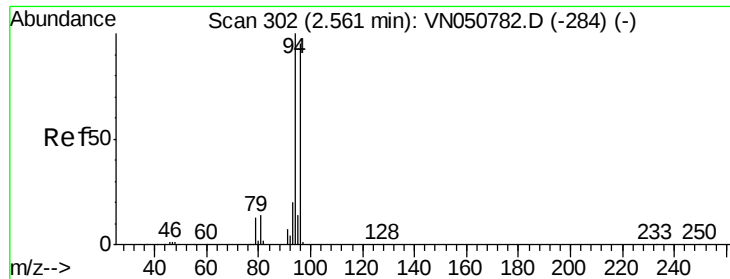
Tgt Ion: 62 Resp: 181030

Ion Ratio Lower Upper

62 100

64 31.8 25.4 38.2





#5

Bromomethane

Concen: 18.64 ug/l

RT: 2.56 min Scan# 245

Delta R.T. 0.00 min

Lab File: VN051052.D

Acq: 7 Sep 2018 14:36

Instrument :

MSVOA_N

ClientSampleId :

VN0907MBSD01

Tot Ion: 94 Resp: 102694

Ion Ratio Lower Upper

94 100

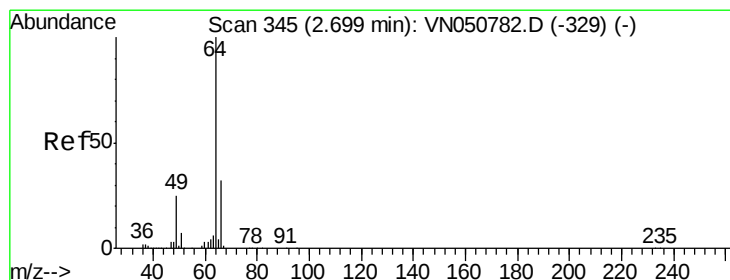
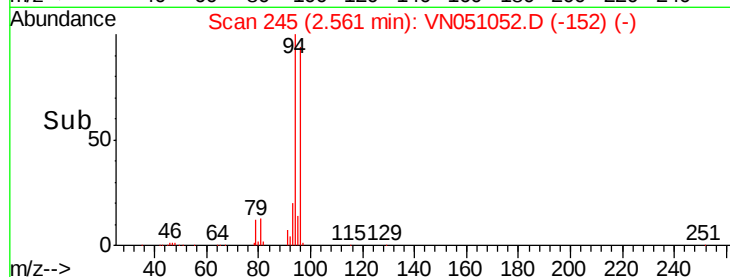
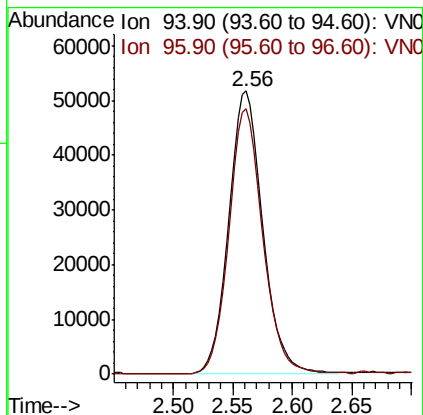
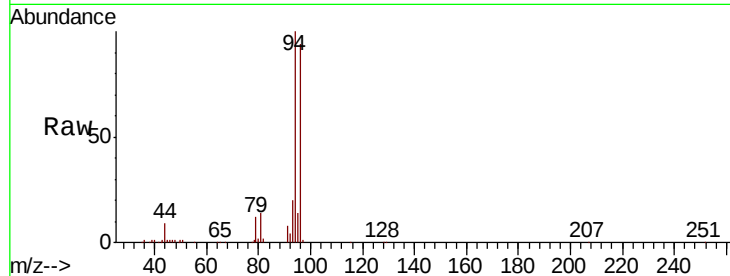
96 93.7 76.2 114.2

Manual Integrations

APPROVED

MMDadoda

9/10/2018 11:53:41 AM



#6

Chloroethane

Concen: 19.44 ug/l

RT: 2.70 min Scan# 288

Delta R.T. 0.00 min

Lab File: VN051052.D

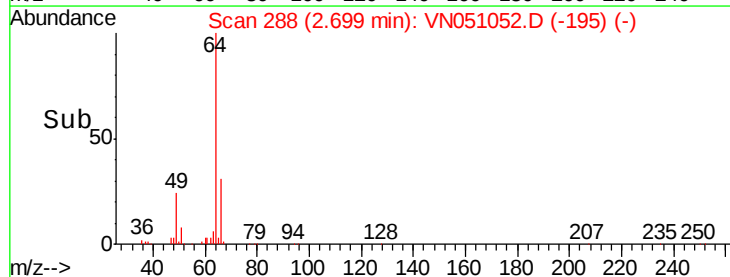
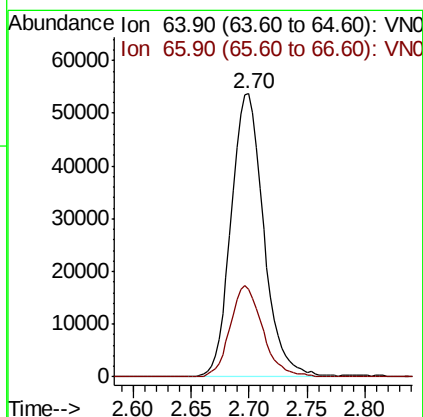
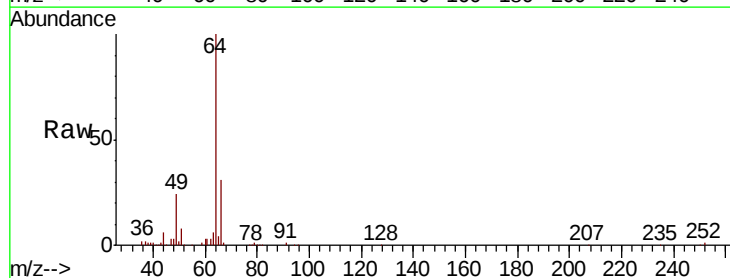
Acq: 7 Sep 2018 14:36

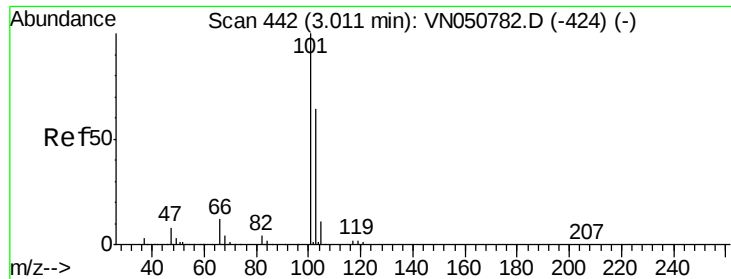
Tgt Ion: 64 Resp: 105129

Ion Ratio Lower Upper

64 100

66 30.9 25.3 37.9





#7

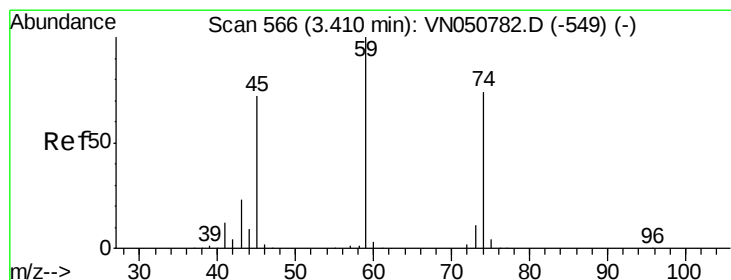
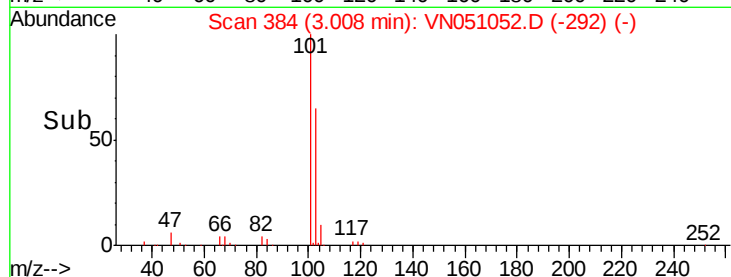
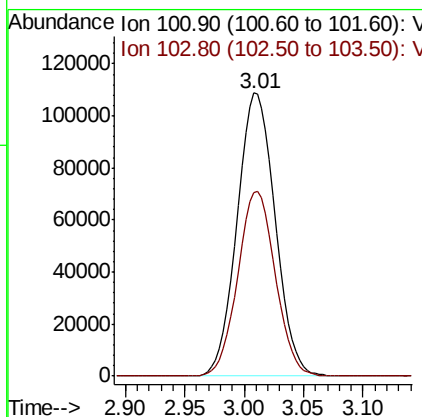
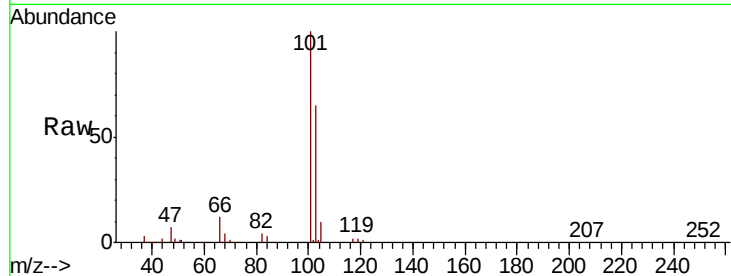
Trichlorofluoromethane
 Concen: 20.12 ug/l
 RT: 3.01 min Scan# 384
 Delta R.T. -0.00 min
 Lab File: VN051052.D
 Acq: 7 Sep 2018 14:36

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0907MBSD01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
101	100		241074		
103	65.0	51.6	77.4		

Manual Integrations
 APPROVED

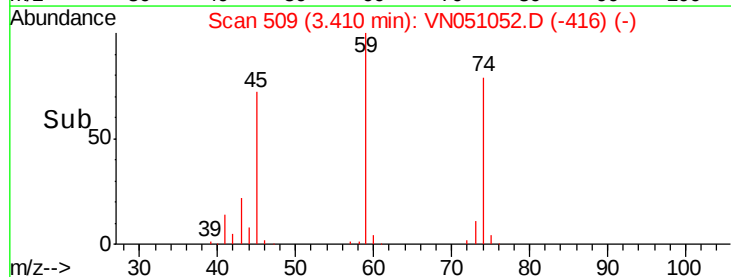
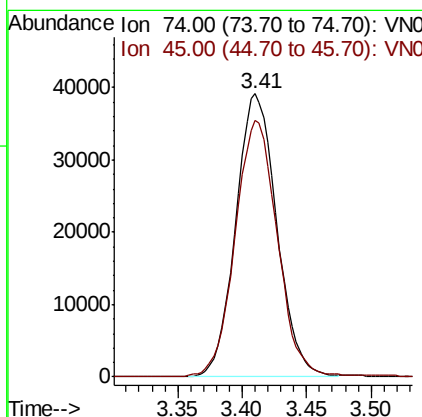
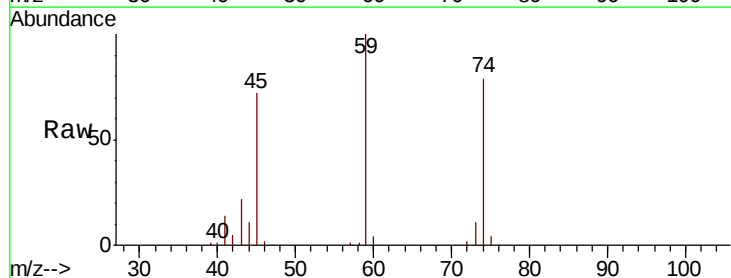
MMDadoda
 9/10/2018 11:53:41 AM



#8

Diethyl Ether
 Concen: 21.27 ug/l
 RT: 3.41 min Scan# 509
 Delta R.T. 0.00 min
 Lab File: VN051052.D
 Acq: 7 Sep 2018 14:36

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
74	100		86646		
45	93.1	48.2	144.6		





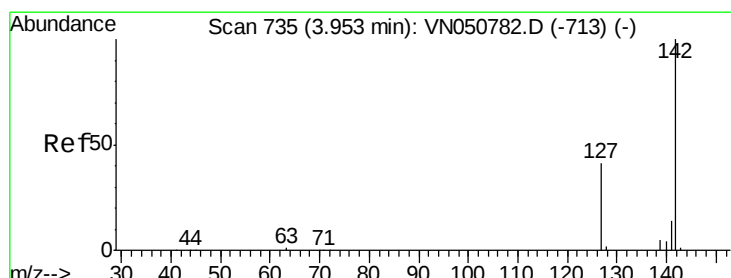
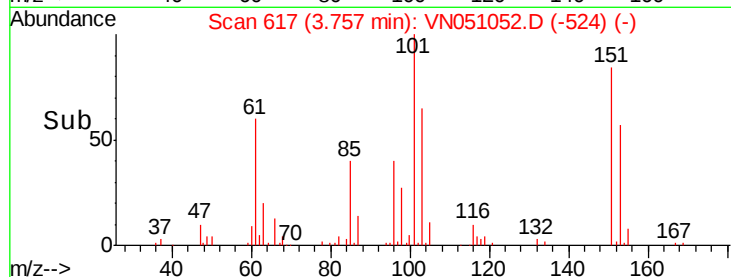
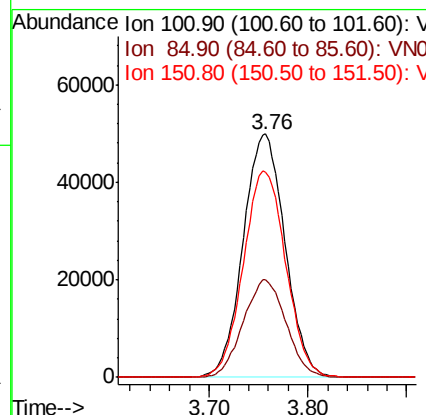
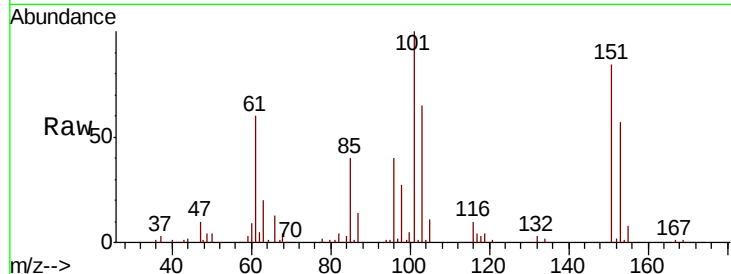
#9
 1,1,2-Trichlorotrifluoroethane
 Concen: 19.56 ug/l
 RT: 3.76 min Scan# 617
 Delta R.T. 0.00 min
 Lab File: VN051052.D
 Acq: 7 Sep 2018 14:36

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0907MBSD01

Tot Ion	Ratio	Lower	Upper
101	100		
85	40.8	33.7	50.5
151	86.2	67.4	101.2

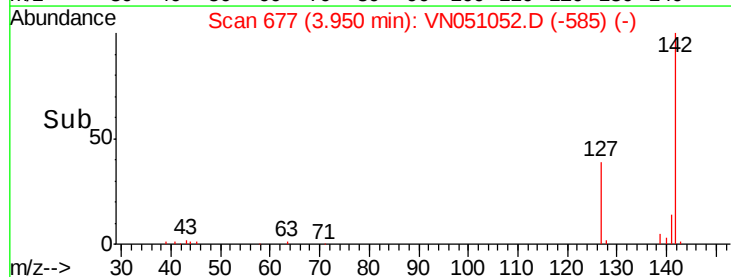
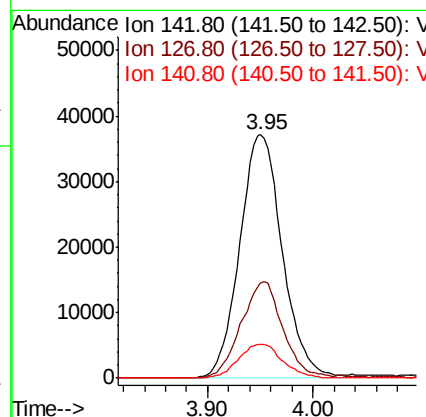
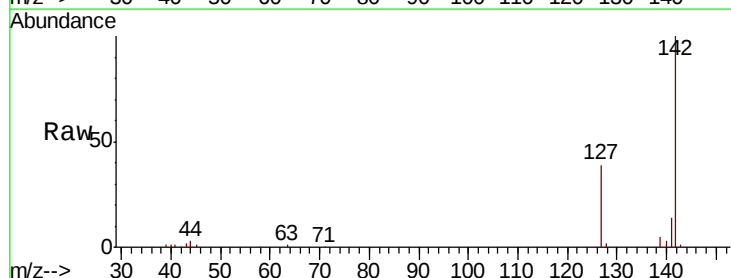
Manual Integrations
 APPROVED

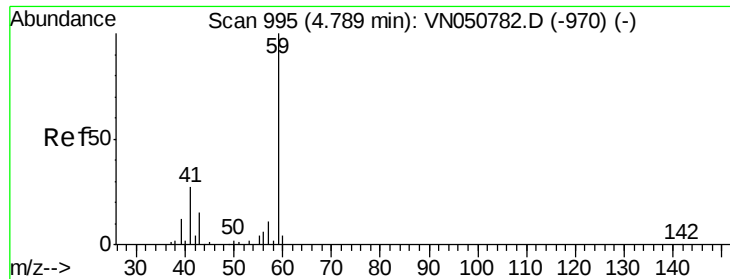
MMDadoda
 9/10/2018 11:53:41 AM



#10
 Methyl Iodide
 Concen: 20.19 ug/l
 RT: 3.95 min Scan# 677
 Delta R.T. -0.00 min
 Lab File: VN051052.D
 Acq: 7 Sep 2018 14:36

Tgt Ion	Ratio	Lower	Upper
142	100		
127	39.3	31.7	47.5
141	14.3	11.4	17.0





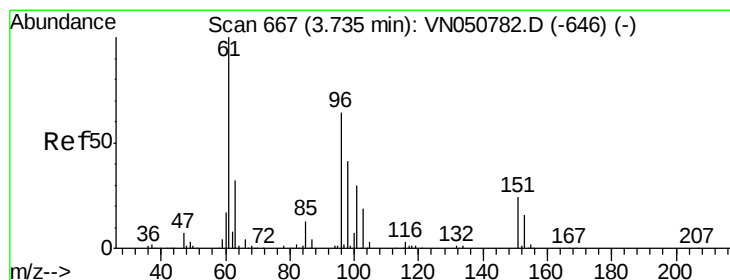
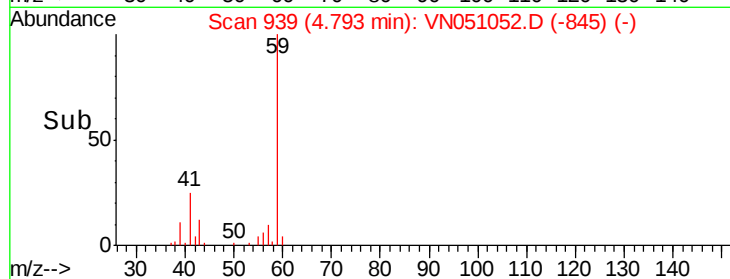
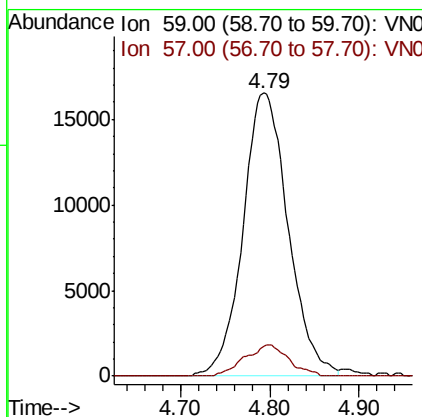
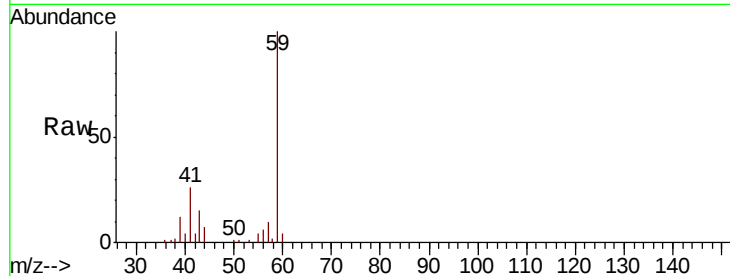
#11
Tert butyl alcohol
Concen: 126.99 ug/l
RT: 4.79 min Scan# 939
Delta R.T. 0.00 min
Lab File: VN051052.D
Acq: 7 Sep 2018 14:36

Instrument :
MSVOA_N
ClientSampleId :
VN0907MBSD01

Tot Ion	59	Resp	58260
Ion Ratio	100	Lower	Upper
57	10.8	8.3	12.5

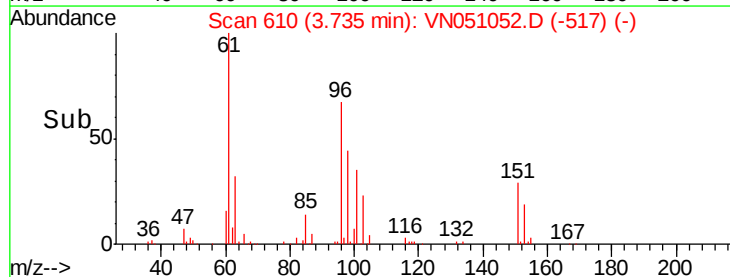
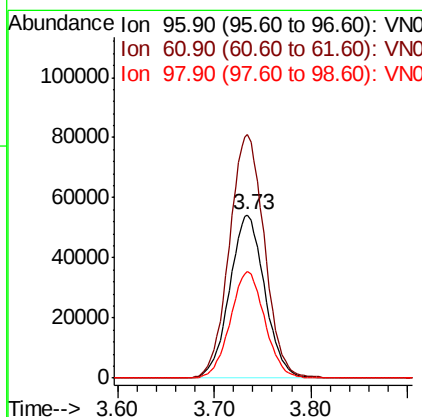
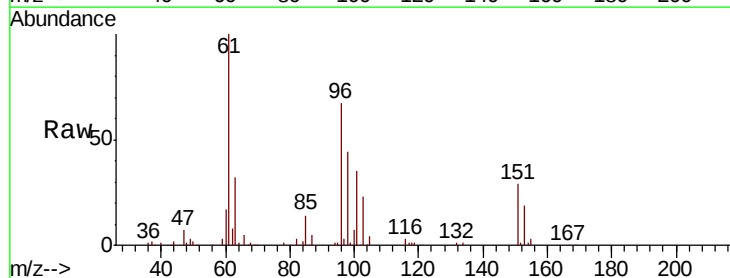
Manual Integrations
APPROVED

MMDadoda
9/10/2018 11:53:41 AM



#12
1,1-Dichloroethene
Concen: 20.37 ug/l
RT: 3.73 min Scan# 610
Delta R.T. 0.00 min
Lab File: VN051052.D
Acq: 7 Sep 2018 14:36

Tgt Ion	96	Resp	136903
Ion Ratio	100	Lower	Upper
61	148.8	124.9	187.3
98	65.4	51.1	76.7





#13

Acrolein

Concen: 91.73 ug/l

RT: 3.61 min Scan# 571

Delta R.T. 0.00 min

Lab File: VN051052.D

Acq: 7 Sep 2018 14:36

Instrument :

MSVOA_N

ClientSampleId :

VN0907MBSD01

Tot Ion: 56 Resp: 21303

Ion Ratio Lower Upper

56 100

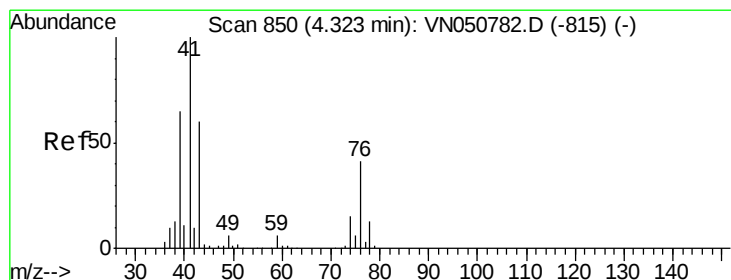
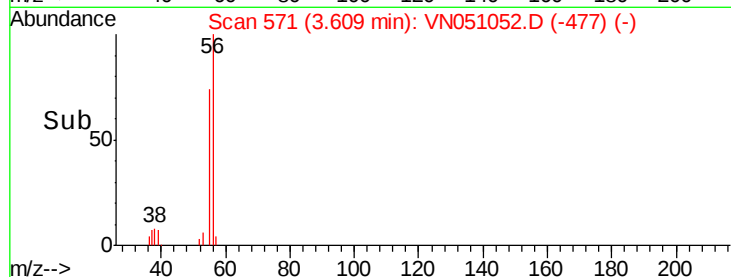
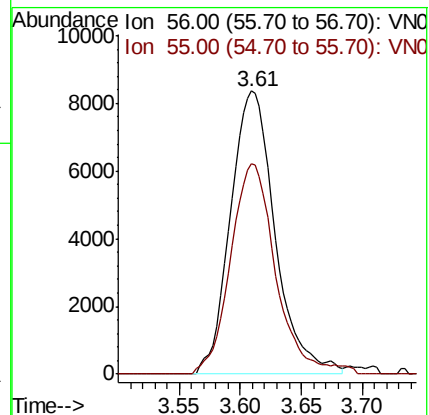
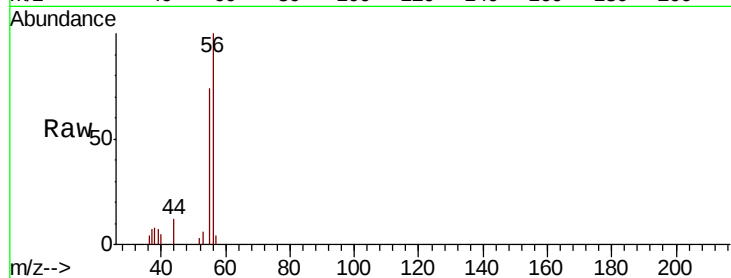
55 75.2 57.7 86.5

Manual Integrations

APPROVED

MMDadoda

9/10/2018 11:53:41 AM



#14

Allyl chloride

Concen: 19.60 ug/l

RT: 4.32 min Scan# 793

Delta R.T. 0.00 min

Lab File: VN051052.D

Acq: 7 Sep 2018 14:36

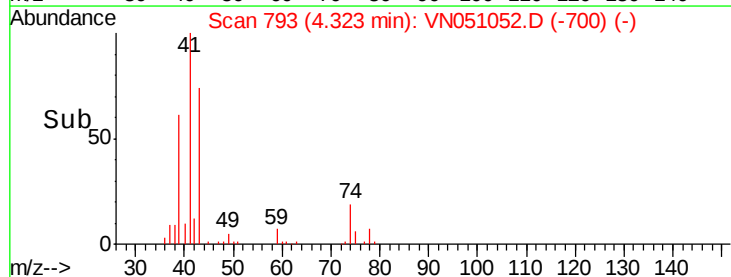
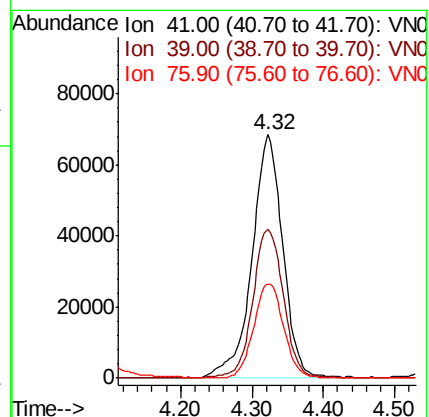
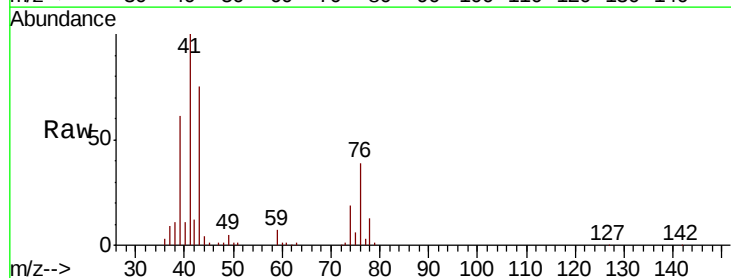
Tgt Ion: 41 Resp: 205316

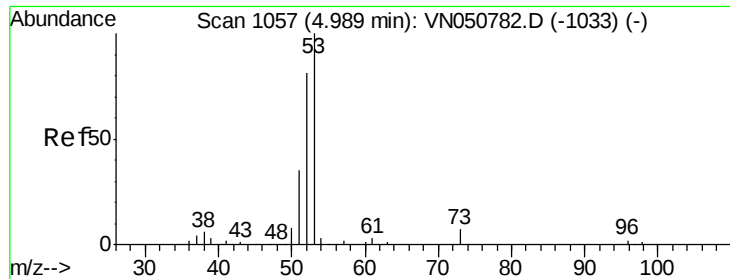
Ion Ratio Lower Upper

41 100

39 60.9 50.2 75.2

76 37.8 29.8 44.8





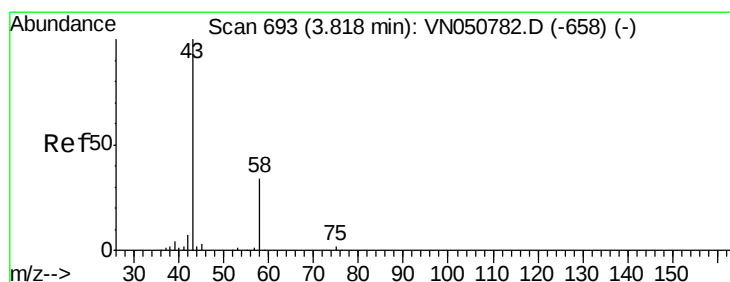
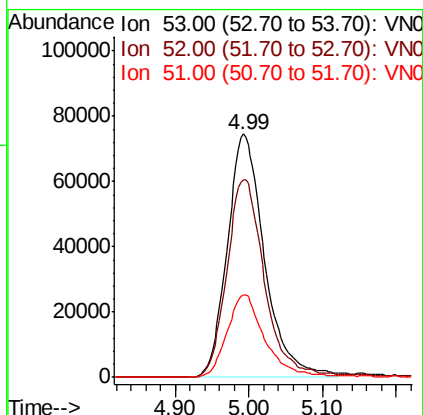
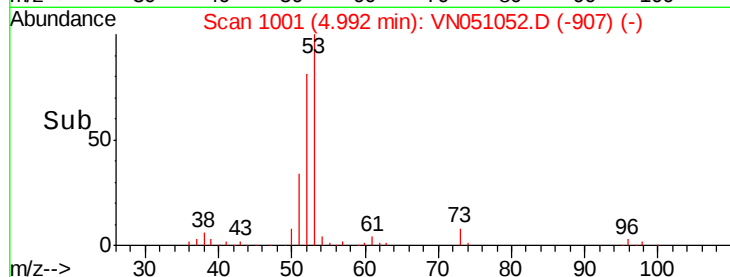
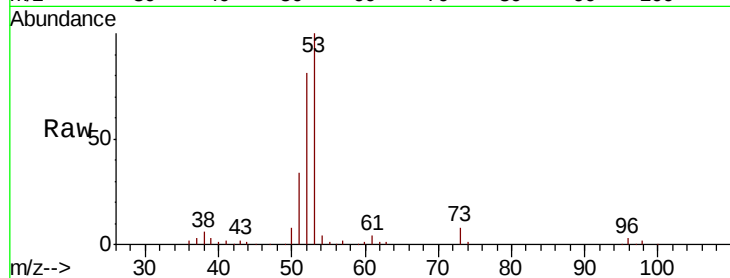
#15
 Acrylonitrile
 Concen: 112.39 ug/l
 RT: 4.99 min Scan# 1001
 Delta R.T. 0.00 min
 Lab File: VN051052.D
 Acq: 7 Sep 2018 14:36

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0907MBSD01

Tot Ion	Ratio	Lower	Upper
53	100		
52	81.9	65.9	98.9
51	34.4	28.6	43.0

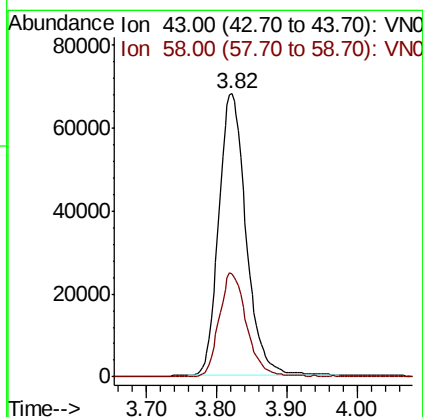
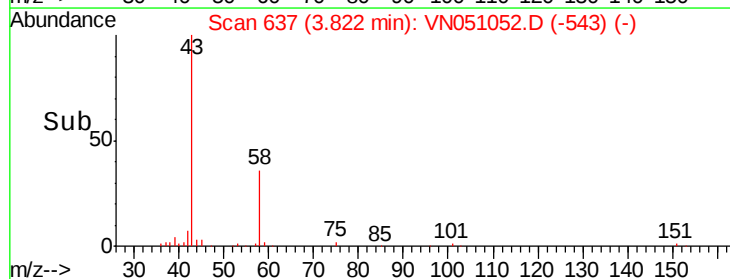
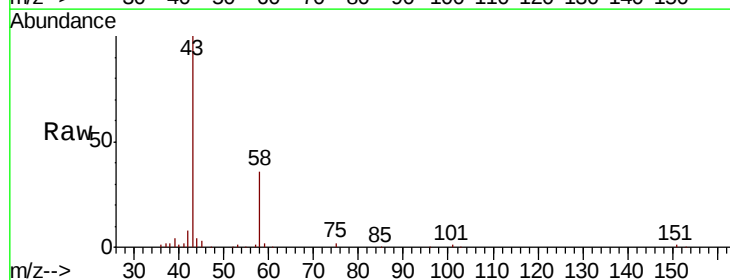
Manual Integrations
 APPROVED

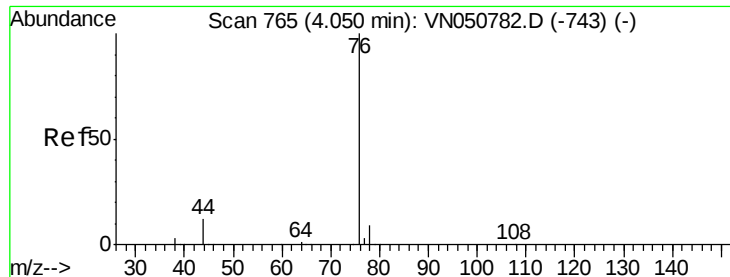
MMDadoda
 9/10/2018 11:53:41 AM



#16
 Acetone
 Concen: 103.76 ug/l
 RT: 3.82 min Scan# 637
 Delta R.T. 0.00 min
 Lab File: VN051052.D
 Acq: 7 Sep 2018 14:36

Tgt Ion	Ratio	Lower	Upper
43	100		
58	36.5	27.2	40.8





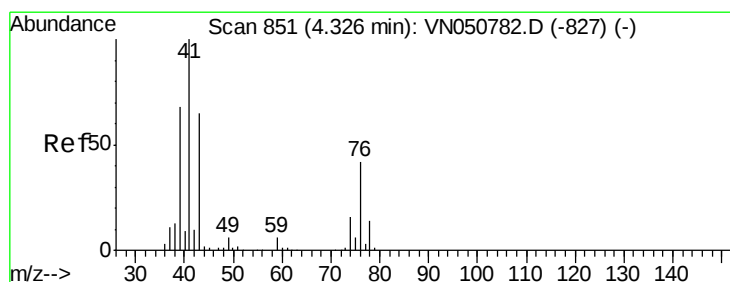
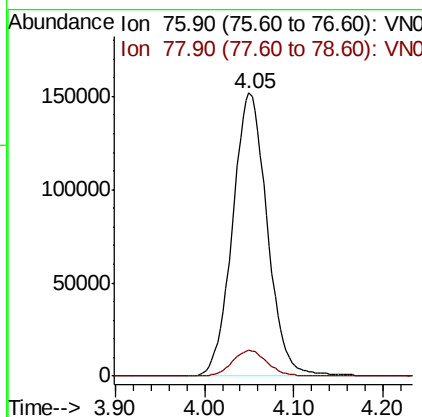
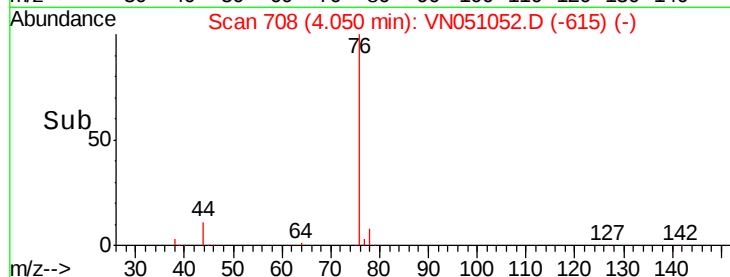
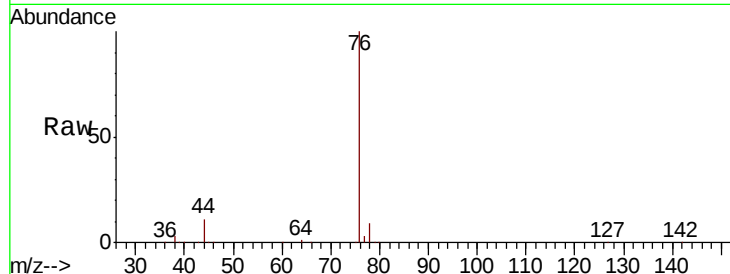
#17
Carbon Disulfide
Concen: 18.09 ug/l
RT: 4.05 min Scan# 708
Delta R.T. 0.00 min
Lab File: VN051052.D
Acq: 7 Sep 2018 14:36

Instrument :
MSVOA_N
ClientSampleId :
VN0907MBSD01

Tot Ion	Ratio	Lower	Upper
76	100		
78	9.1	7.3	10.9

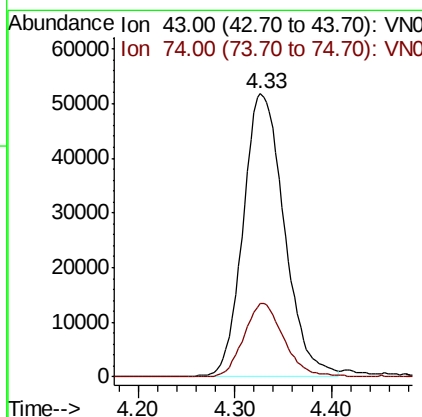
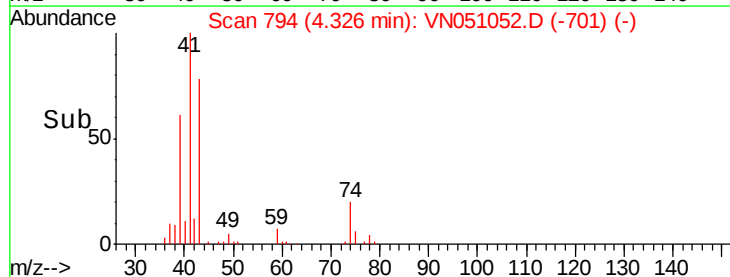
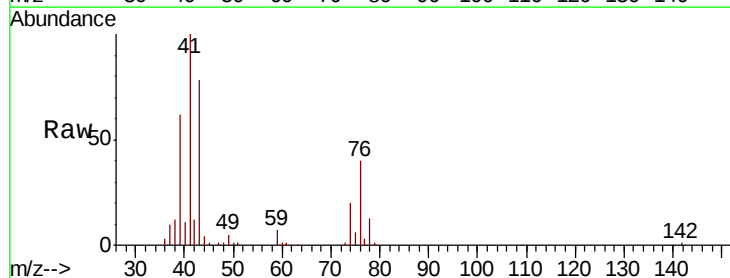
Manual Integrations
APPROVED

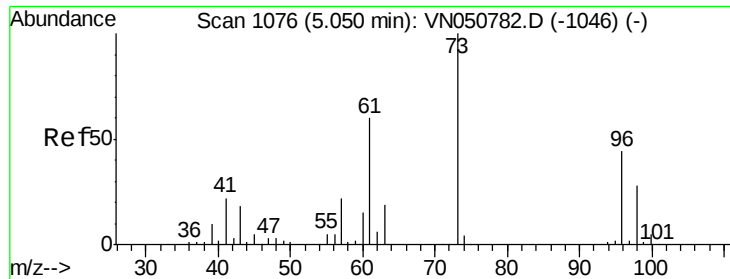
MMDadoda
9/10/2018 11:53:41 AM



#18
Methyl Acetate
Concen: 22.55 ug/l
RT: 4.33 min Scan# 794
Delta R.T. 0.00 min
Lab File: VN051052.D
Acq: 7 Sep 2018 14:36

Tgt Ion	Ratio	Lower	Upper
43	100		
74	25.3	19.8	29.8





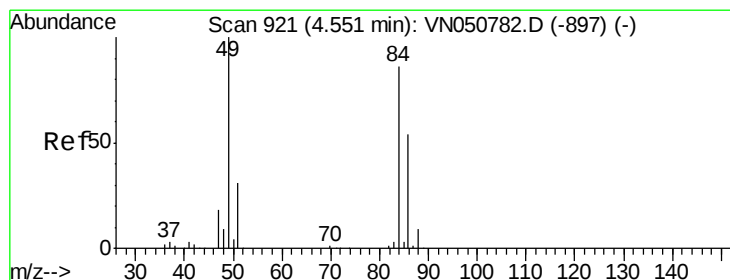
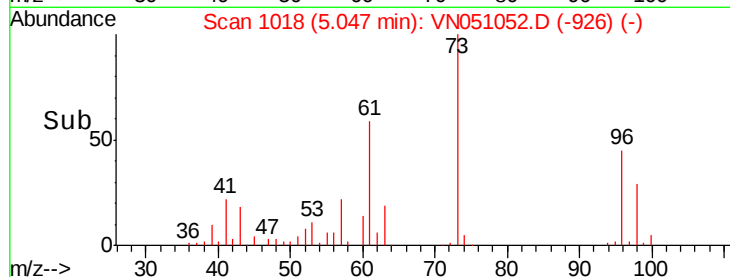
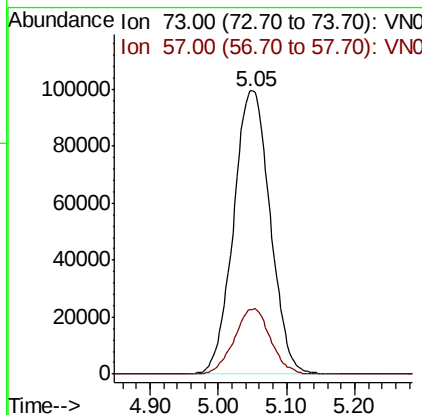
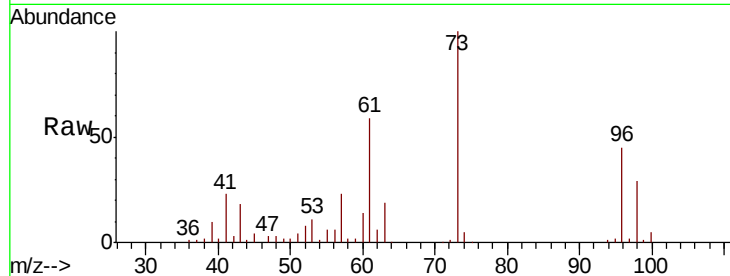
#19
Methvl tert-butvl Ether
Concen: 21.92 ug/l
RT: 5.05 min Scan# 1018
Delta R.T. -0.00 min
Lab File: VN051052.D
Acq: 7 Sep 2018 14:36

Instrument :
MSVOA_N
ClientSampleId :
VN0907MBS01

Tot Ion: 73 Resp: 370686
Ion Ratio Lower Upper
73 100
57 22.8 17.8 26.8

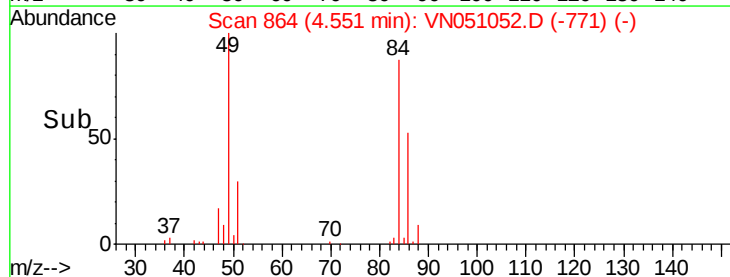
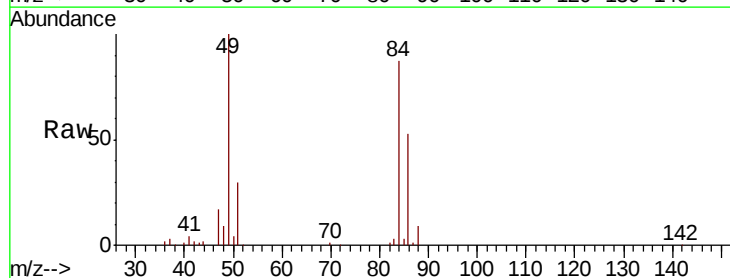
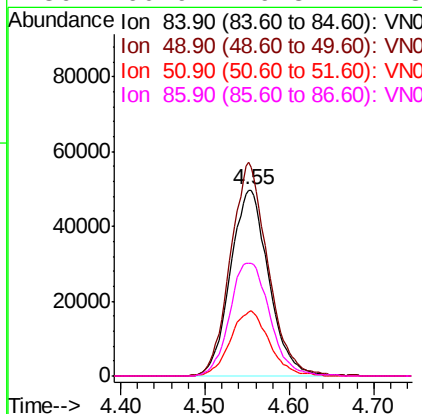
Manual Integrations
APPROVED

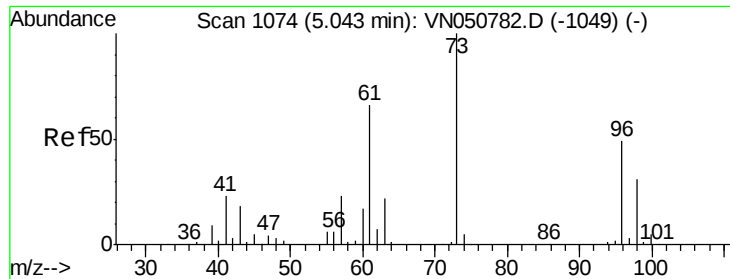
MMDadoda
9/10/2018 11:53:41 AM



#20
Methylene Chloride
Concen: 19.40 ug/l
RT: 4.55 min Scan# 864
Delta R.T. 0.00 min
Lab File: VN051052.D
Acq: 7 Sep 2018 14:36

Tgt Ion: 84 Resp: 157501
Ion Ratio Lower Upper
84 100
49 114.9 93.2 139.8
51 34.6 29.0 43.6
86 60.9 49.8 74.8





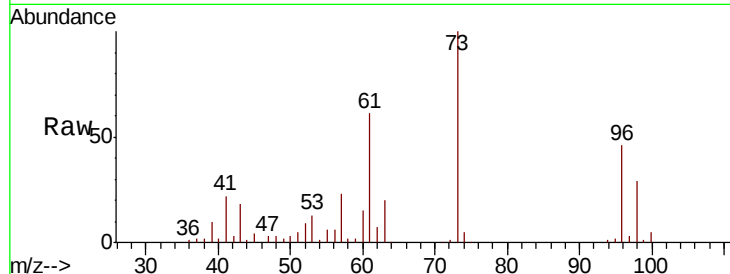
#21
trans-1,2-Dichloroethene
Concen: 19.59 ug/l
RT: 5.04 min Scan# 1017
Delta R.T. 0.00 min
Lab File: VN051052.D
Acq: 7 Sep 2018 14:36

Instrument :
MSVOA_N
ClientSampled :
VN0907MBSD01

Tot Ion	Ratio	Lower	Upper
96	100		
61	130.6	107.4	161.0
98	63.1	50.7	76.1

Manual Integrations
APPROVED

MMDadoda
9/10/2018 11:53:41 AM

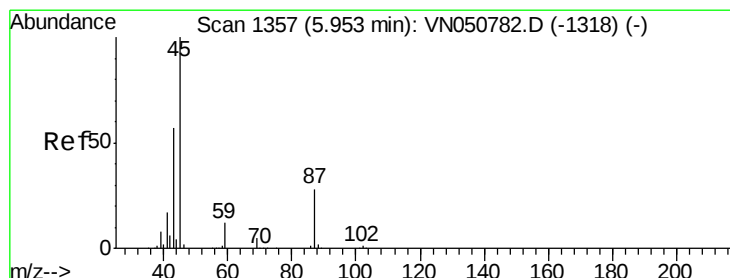
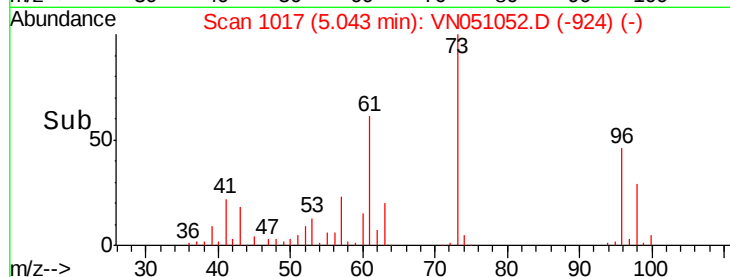
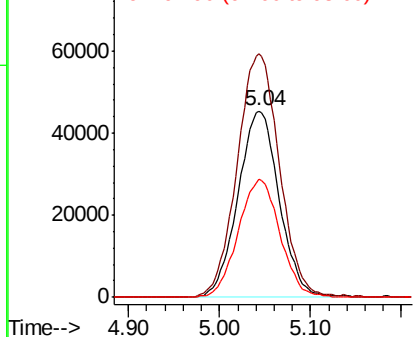


Abundance

Ion 95.90 (95.60 to 96.60): VNO

Ion 60.90 (60.60 to 61.60): VNO

Ion 97.90 (97.60 to 98.60): VNO



#22
Diisopropyl ether
Concen: 20.59 ug/l
RT: 5.95 min Scan# 1300
Delta R.T. 0.00 min
Lab File: VN051052.D
Acq: 7 Sep 2018 14:36

Tgt Ion	Ratio	Lower	Upper
45	100		
43	60.6	45.9	68.9
87	29.8	22.7	34.1
59	12.0	9.3	13.9

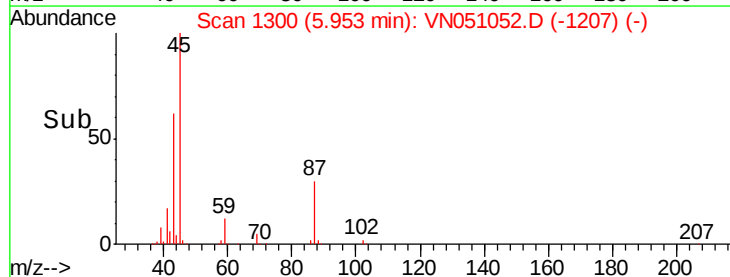
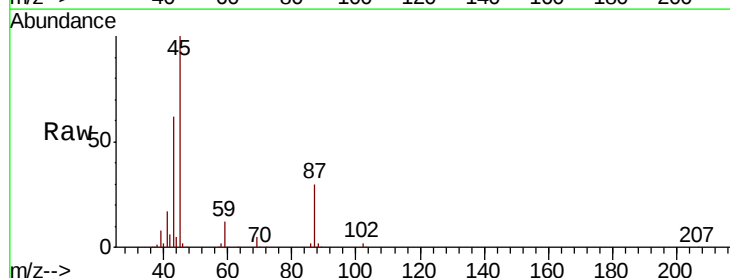
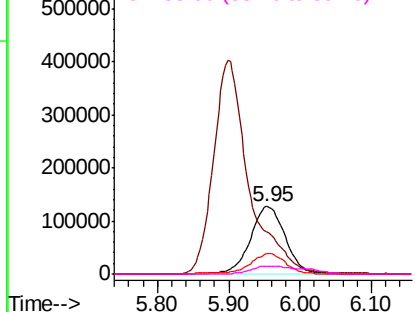
Abundance

Ion 45.00 (44.70 to 45.70): VNO

Ion 43.00 (42.70 to 43.70): VNO

Ion 87.00 (86.70 to 87.70): VNO

Ion 59.00 (58.70 to 59.70): VNO





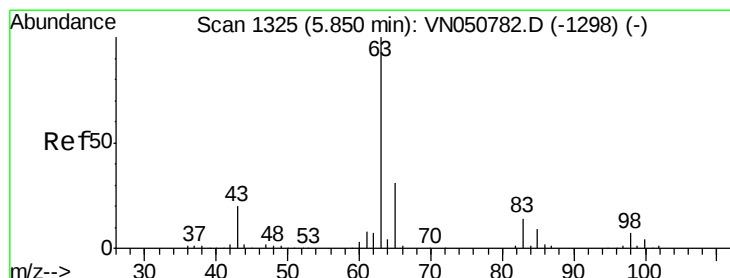
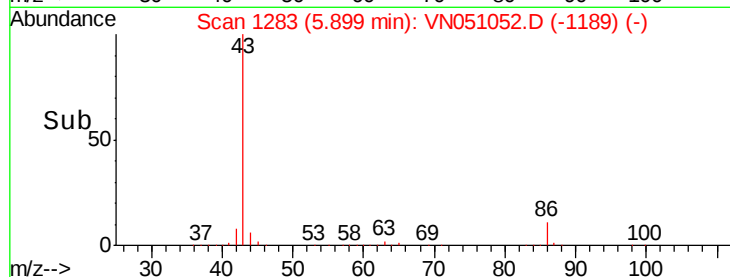
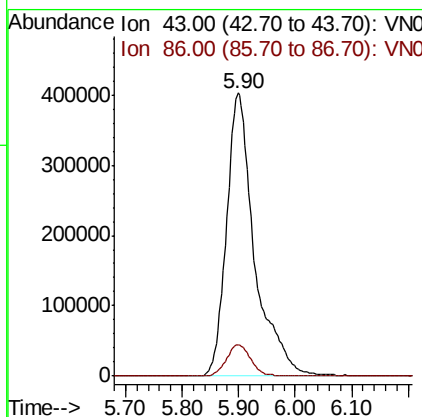
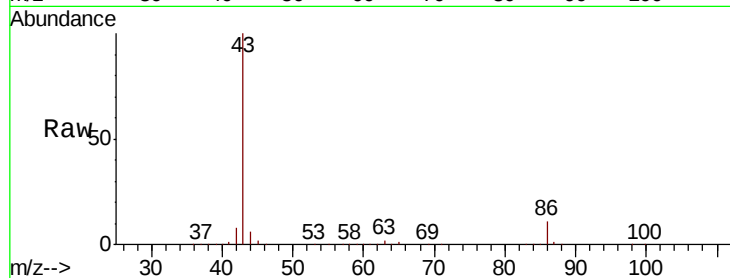
#23
 Vinyl Acetate
 Concen: 103.41 ug/l
 RT: 5.90 min Scan# 1283
 Delta R.T. 0.00 min
 Lab File: VN051052.D
 Acq: 7 Sep 2018 14:36

Instrument :
 MSVOA_N
 ClientSampleID :
 VN0907MBSD01

Tot Ion: 43 Resp: 1390080
 Ion Ratio Lower Upper
 43 100
 86 11.1 8.7 13.1

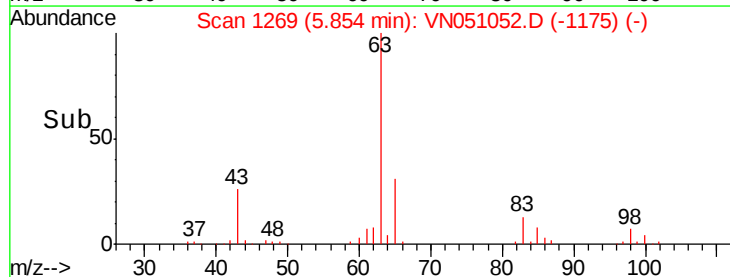
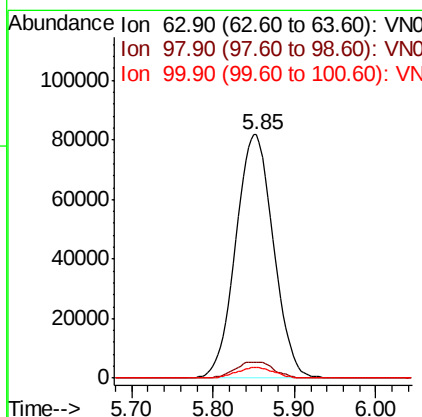
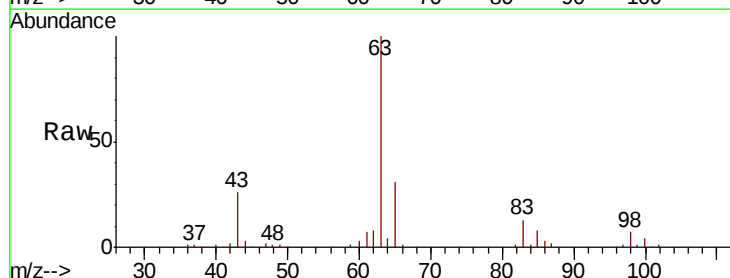
Manual Integrations
 APPROVED

MMDadoda
 9/10/2018 11:53:41 AM



#24
 1,1-Dichloroethane
 Concen: 19.50 ug/l
 RT: 5.85 min Scan# 1269
 Delta R.T. 0.00 min
 Lab File: VN051052.D
 Acq: 7 Sep 2018 14:36

Tgt Ion: 63 Resp: 261271
 Ion Ratio Lower Upper
 63 100
 98 6.5 3.3 9.8
 100 4.3 2.1 6.5





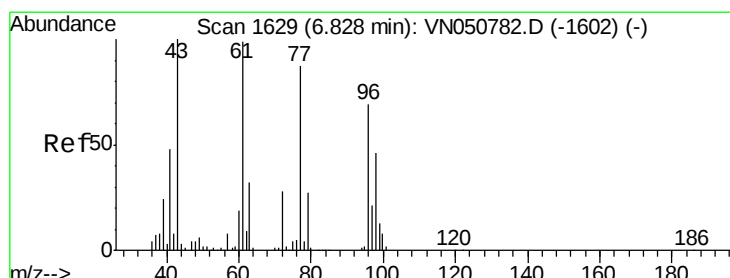
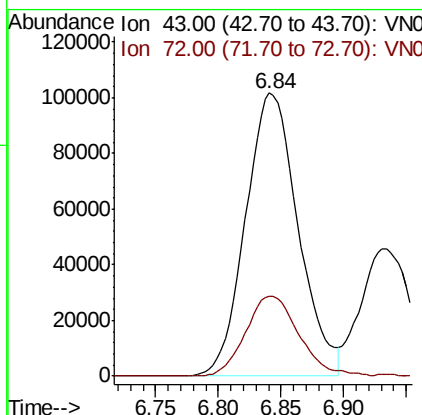
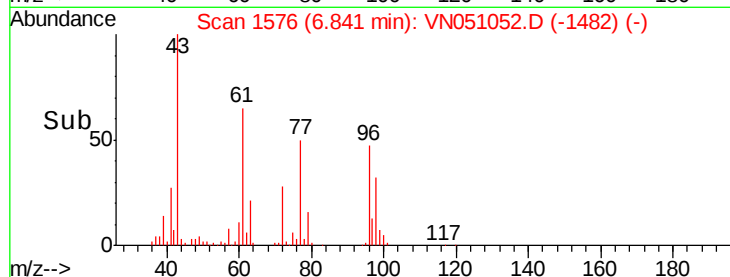
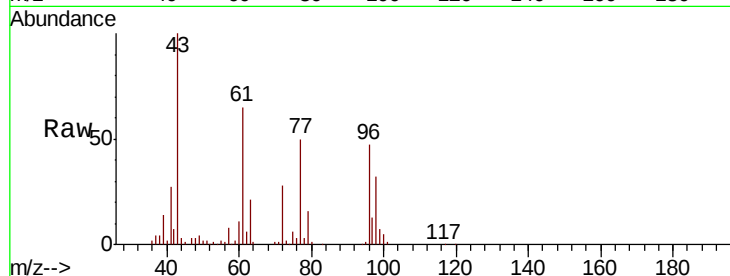
#25
2-Butanone
Concen: 101.57 ug/l
RT: 6.84 min Scan# 1576
Delta R.T. 0.00 min
Lab File: VN051052.D
Acq: 7 Sep 2018 14:36

Instrument :
MSVOA_N
ClientSampleId :
VN0907MBSD01

Tot Ion: 43 Resp: 294906
Ion Ratio Lower Upper
43 100
72 28.3 22.3 33.5

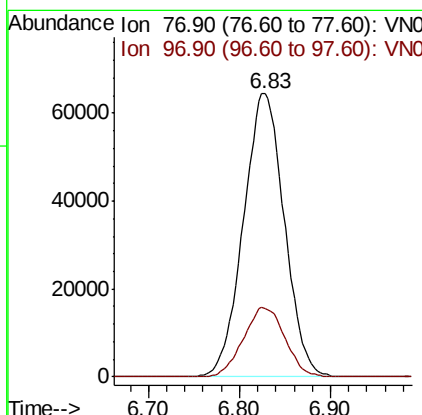
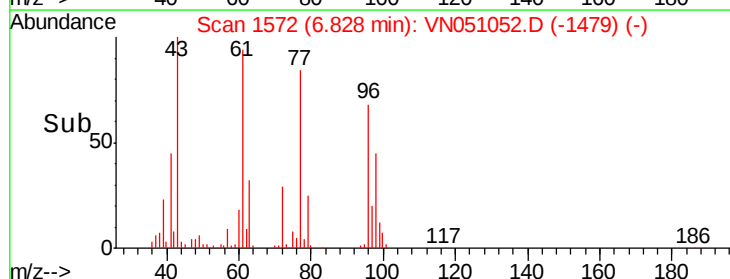
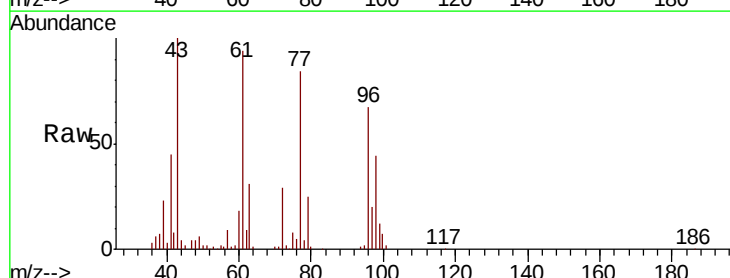
Manual Integrations
APPROVED

MMDadoda
9/10/2018 11:53:41 AM



#26
2,2-Dichloropropane
Concen: 18.71 ug/l
RT: 6.83 min Scan# 1572
Delta R.T. 0.00 min
Lab File: VN051052.D
Acq: 7 Sep 2018 14:36

Tgt Ion: 77 Resp: 201423
Ion Ratio Lower Upper
77 100
97 24.9 12.0 36.0





#27

cis-1,2-Dichloroethene

Concen: 19.82 ug/l

RT: 6.83 min Scan# 1573

Delta R.T. 0.00 min

Lab File: VN051052.D

Acq: 7 Sep 2018 14:36

Instrument :

MSVOA_N

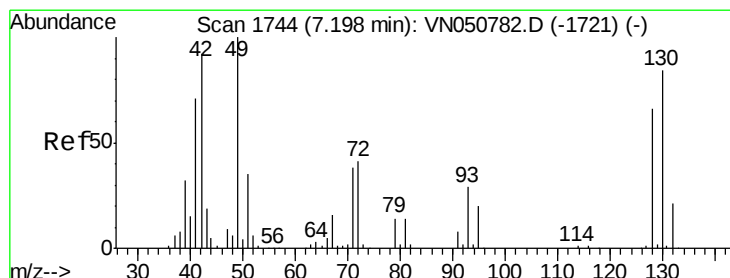
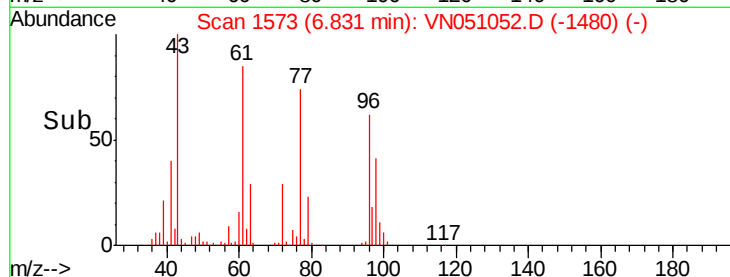
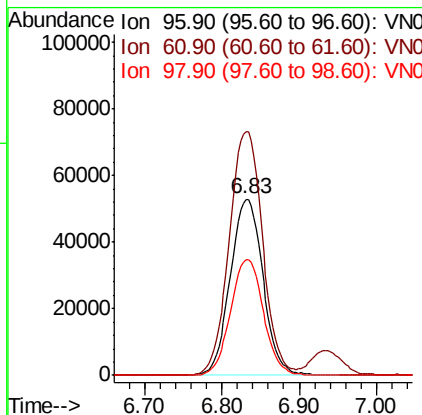
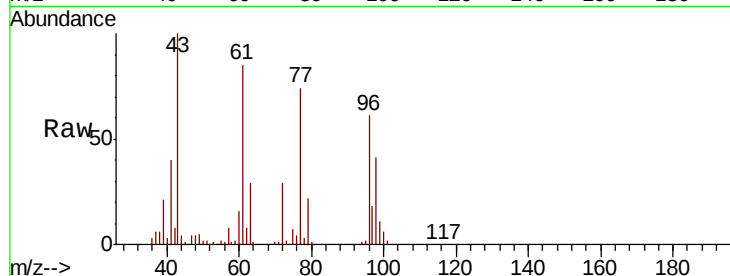
ClientSampleId :

VN0907MBSD01

Tot Ion:	96	Resp:	155377
Ion	Ratio	Lower	Upper
96	100		
61	141.1	0.0	283.4
98	66.1	0.0	129.8

Manual Integrations
APPROVED

MMDadoda
9/10/2018 11:53:41 AM



#28

Bromochloromethane

Concen: 17.98 ug/l

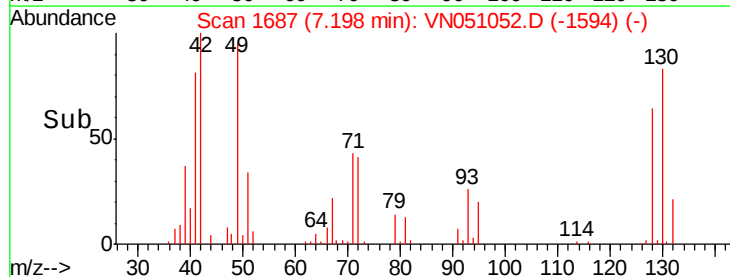
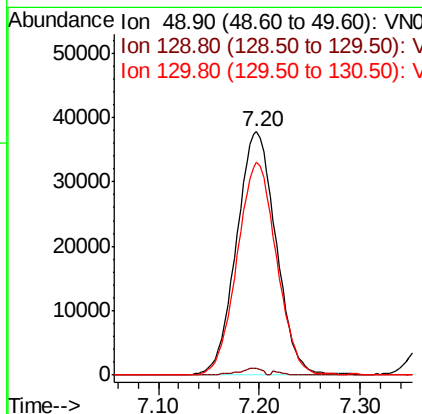
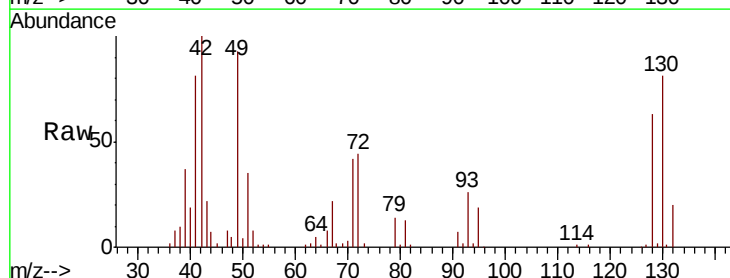
RT: 7.20 min Scan# 1687

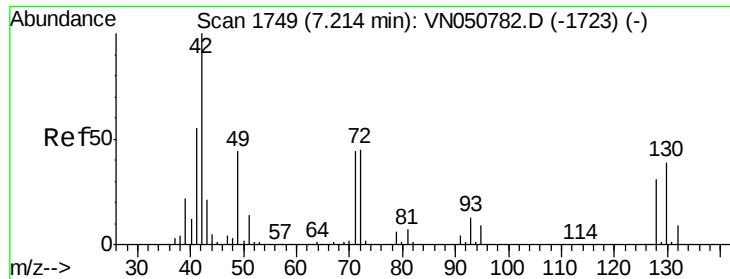
Delta R.T. 0.00 min

Lab File: VN051052.D

Acq: 7 Sep 2018 14:36

Tgt Ion:	49	Resp:	102407
Ion	Ratio	Lower	Upper
49	100		
129	1.6	0.0	4.2
130	87.2	67.1	100.7





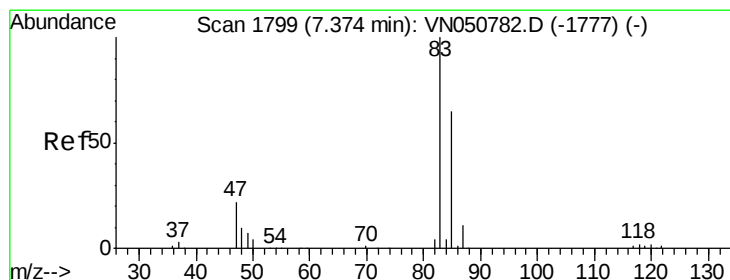
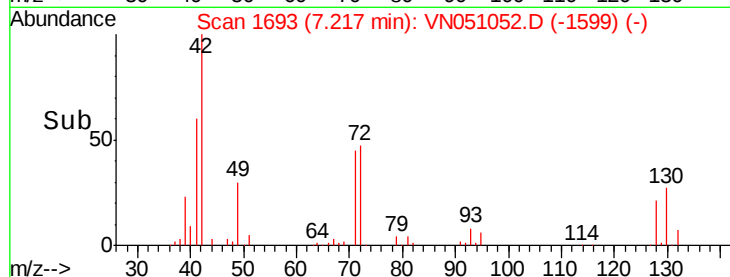
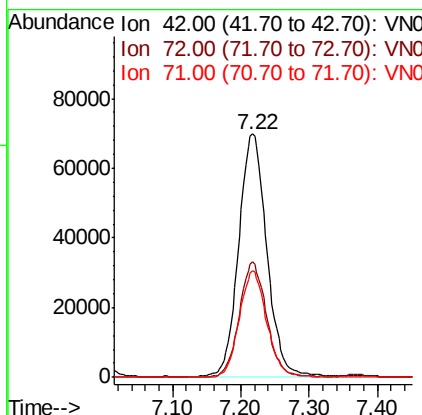
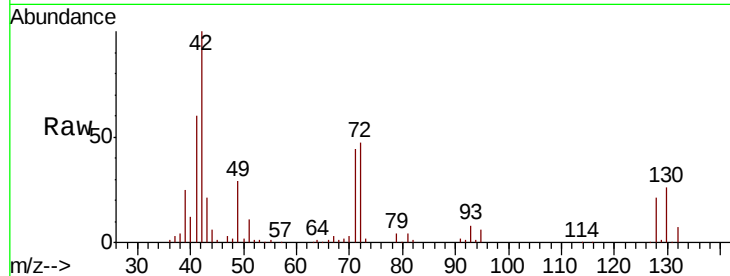
#29
Tetrahydrofuran
Concen: 121.34 ug/l
RT: 7.22 min Scan# 1693
Delta R.T. 0.00 min
Lab File: VN051052.D
Acq: 7 Sep 2018 14:36

Instrument :
MSVOA_N
ClientSampleId :
VN0907MBSD01

Tot Ion	Ratio	Lower	Upper
42	100		
72	45.3	35.5	53.3
71	42.5	33.7	50.5

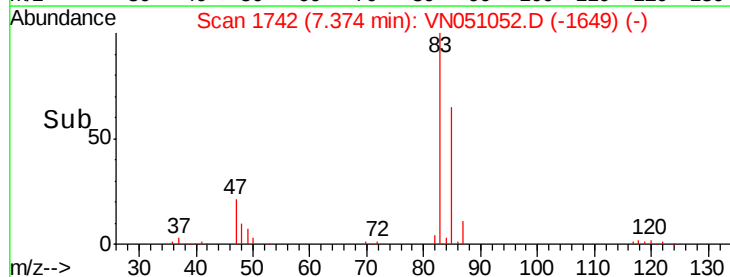
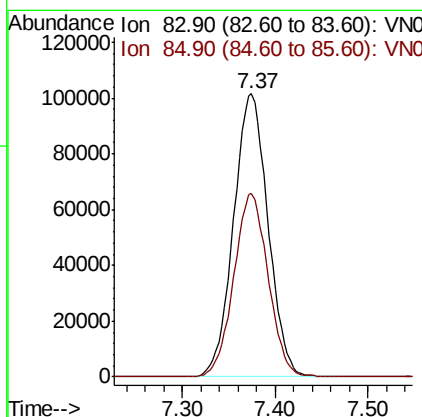
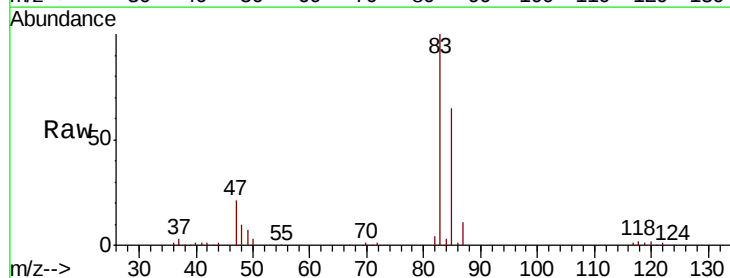
Manual Integrations
APPROVED

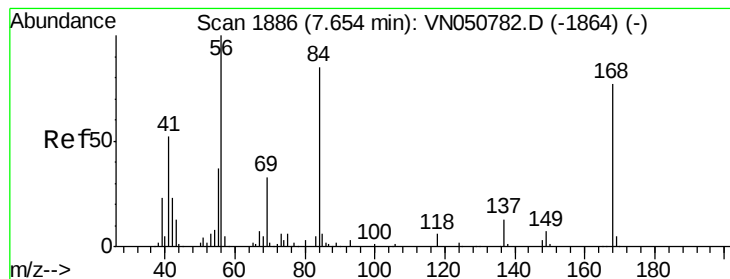
MMDadoda
9/10/2018 11:53:41 AM



#30
Chloroform
Concen: 19.75 ug/l
RT: 7.37 min Scan# 1742
Delta R.T. 0.00 min
Lab File: VN051052.D
Acq: 7 Sep 2018 14:36

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.9	52.2	78.4





#31

Cyclohexane

Concen: 19.68 ug/l

RT: 7.65 min Scan# 1829

Delta R.T. 0.00 min

Lab File: VN051052.D

Acq: 7 Sep 2018 14:36

Instrument :

MSVOA_N

ClientSampleID :

VN0907MBSD01

Tot Ion: 56 Resp: 236220

Ion Ratio Lower Upper

56 100

69 35.9 26.2 39.4

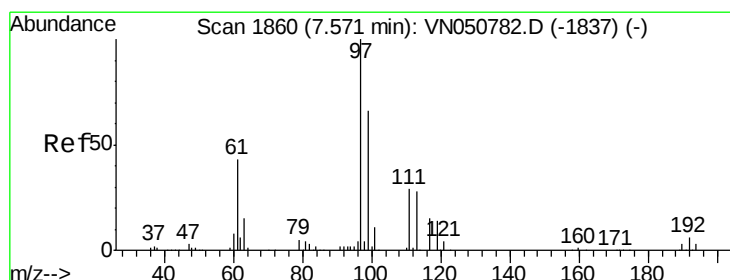
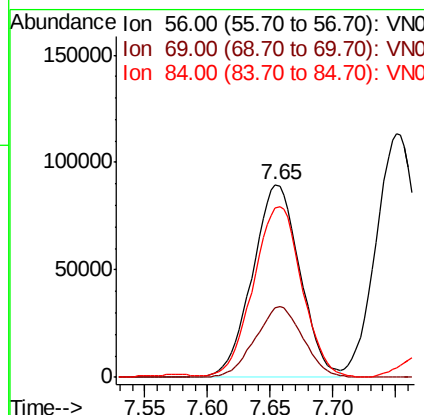
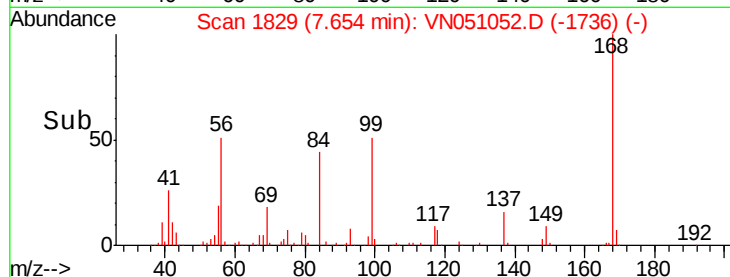
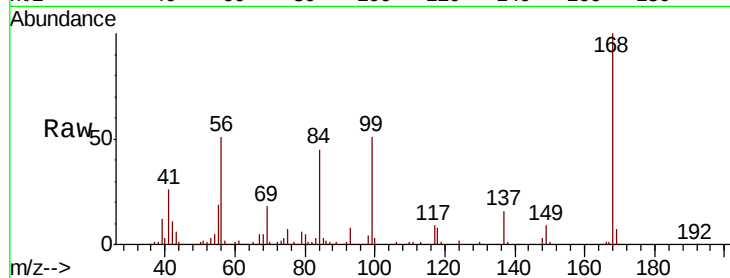
84 86.6 68.3 102.5

Manual Integrations

APPROVED

MMDadoda

9/10/2018 11:53:41 AM



#32

1,1,1-Trichloroethane

Concen: 19.43 ug/l

RT: 7.57 min Scan# 1803

Delta R.T. 0.00 min

Lab File: VN051052.D

Acq: 7 Sep 2018 14:36

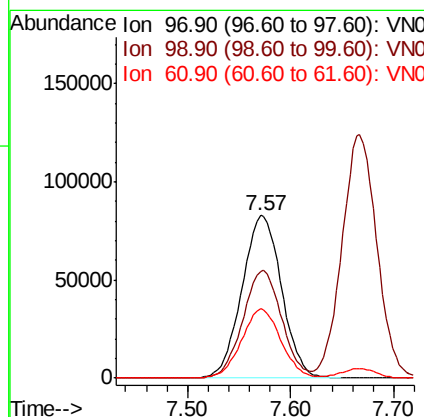
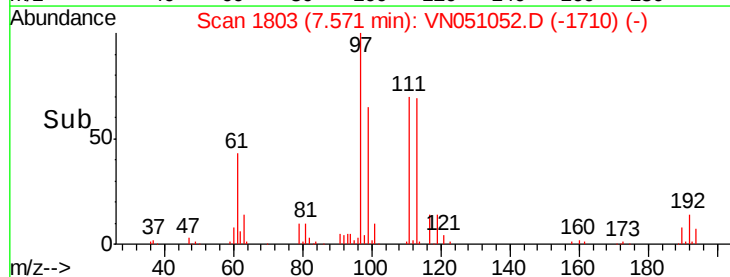
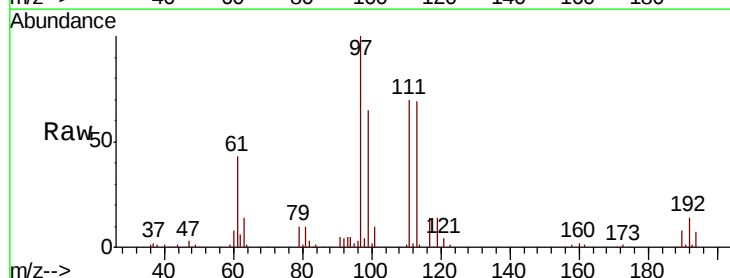
Tgt Ion: 97 Resp: 221484

Ion Ratio Lower Upper

97 100

99 64.8 51.8 77.6

61 42.3 34.9 52.3





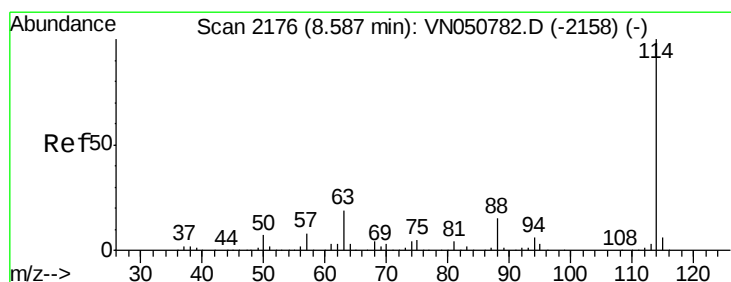
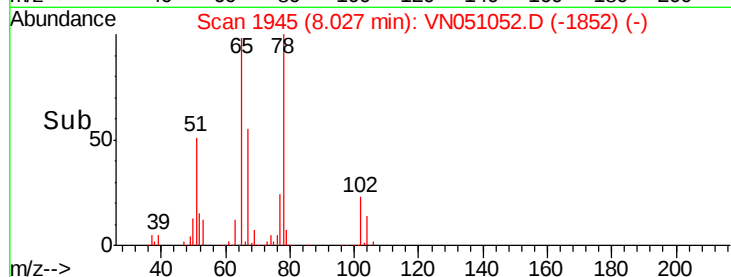
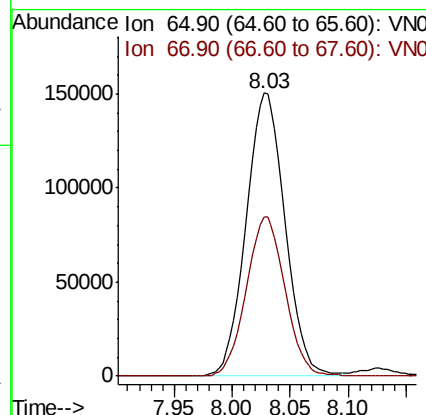
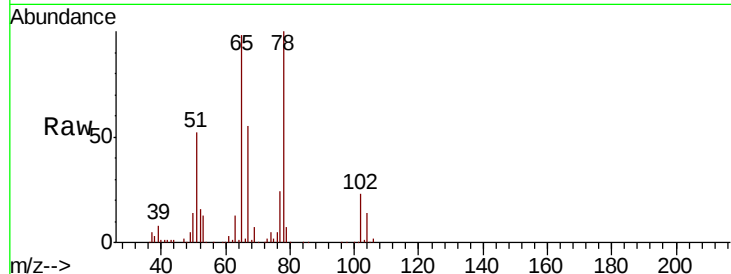
#33
 1,2-Dichloroethane-d4
 Concen: 48.73 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN051052.D
 Acq: 7 Sep 2018 14:36

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0907MBSD01

Tot Ion	Ratio	Resp	Lower	Upper
65	100			
67	55.9	0.0	110.4	

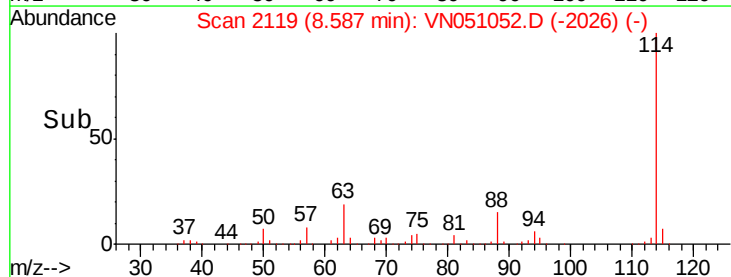
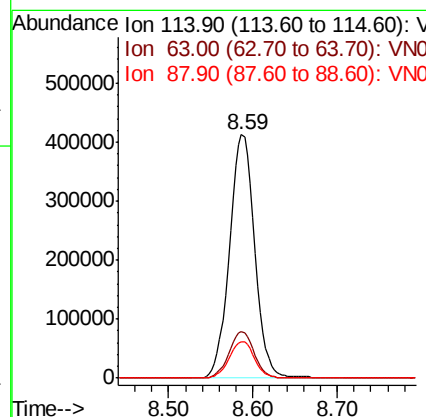
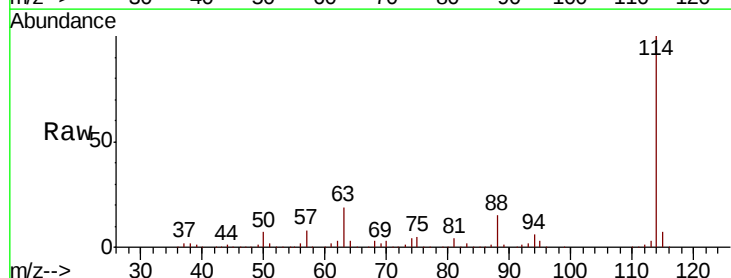
Manual Integrations
 APPROVED

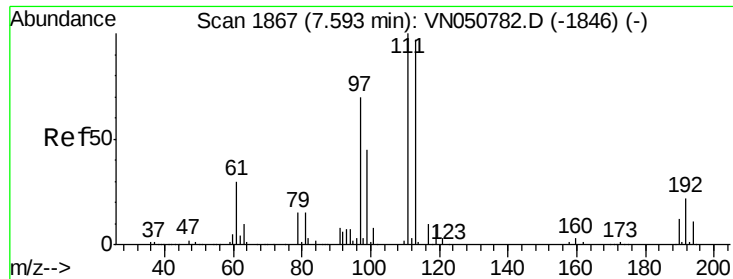
MMDadoda
 9/10/2018 11:53:41 AM



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN051052.D
 Acq: 7 Sep 2018 14:36

Tgt Ion	Ratio	Resp	Lower	Upper
114	100			
63	19.0	0.0	38.6	
88	15.1	0.0	30.6	





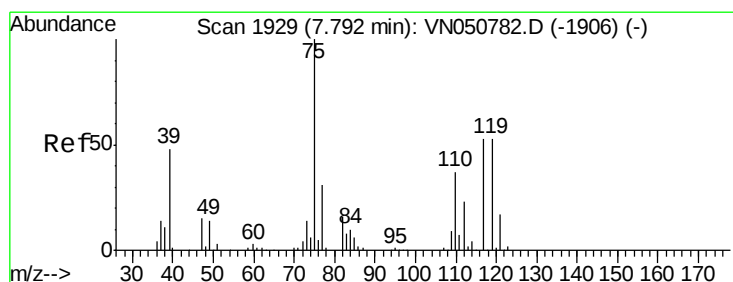
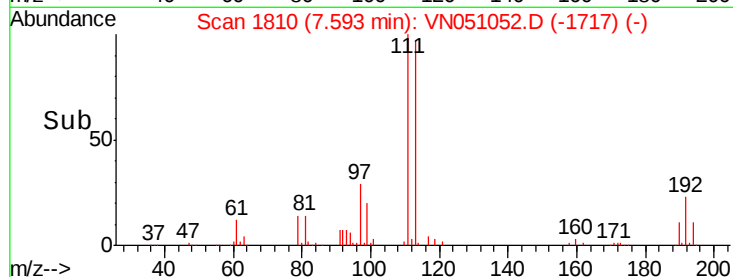
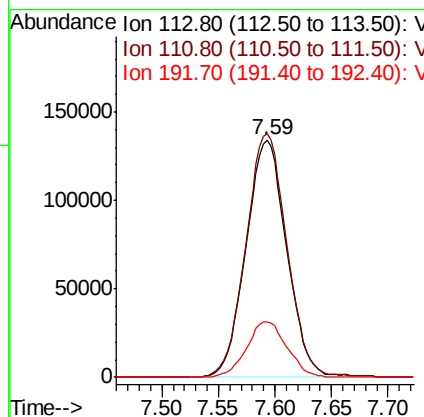
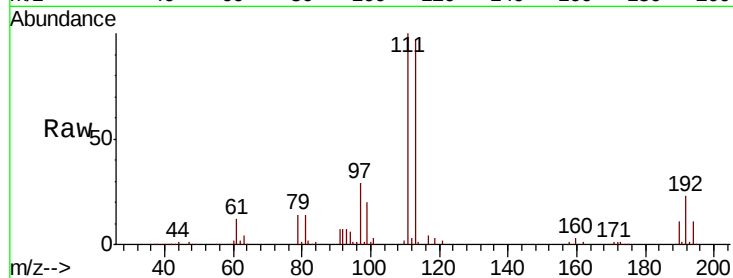
#35
 Dibromofluoromethane
 Concen: 49.17 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN051052.D
 Acq: 7 Sep 2018 14:36

Instrument :
 MSVOA_N
 ClientSampled :
 VN0907MBSD01

Tot Ion	Ratio	Resp	Lower	Upper
113	100			
111	103.8	82.6	123.8	
192	23.4	18.0	27.0	

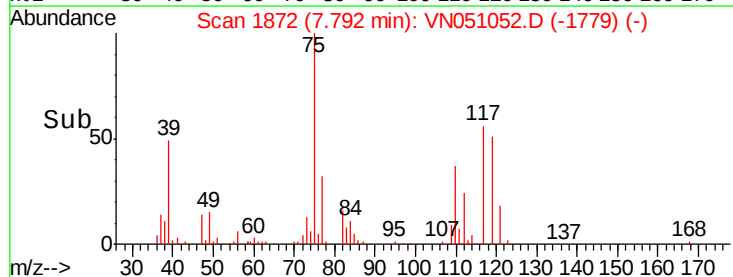
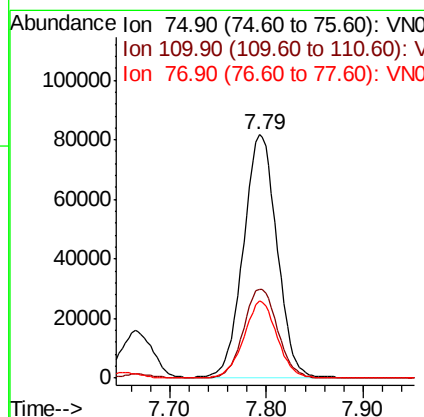
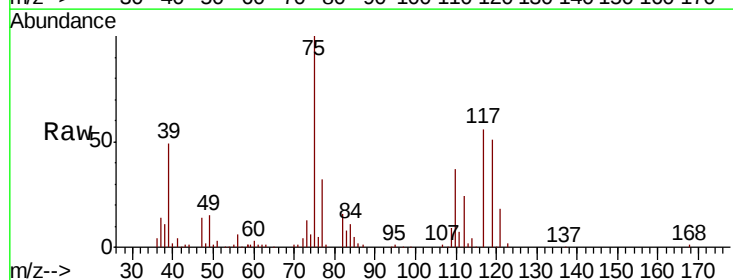
Manual Integrations
 APPROVED

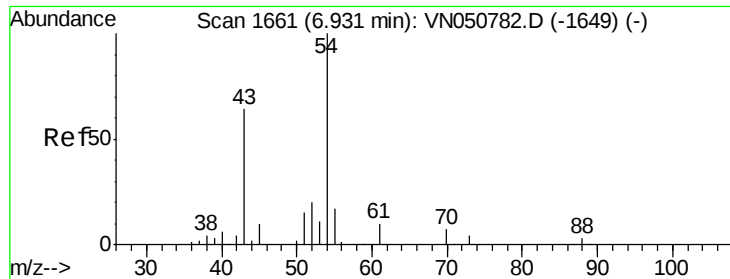
MMDadoda
 9/10/2018 11:53:41 AM



#36
 1,1-Dichloropropene
 Concen: 19.42 ug/l
 RT: 7.79 min Scan# 1872
 Delta R.T. 0.00 min
 Lab File: VN051052.D
 Acq: 7 Sep 2018 14:36

Tgt Ion	Ratio	Resp	Lower	Upper
75	100			
110	37.4	18.1	54.4	
77	31.5	24.8	37.2	





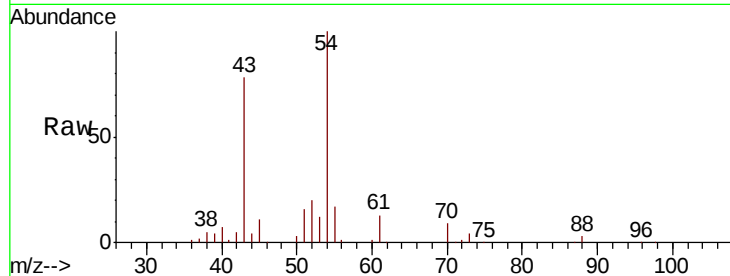
#37
Ethyl Acetate
Concen: 23.06 ug/l
RT: 6.93 min Scan# 1604
Delta R.T. 0.00 min
Lab File: VN051052.D
Acq: 7 Sep 2018 14:36

Instrument :
MSVOA_N
ClientSampleId :
VN0907MBSD01

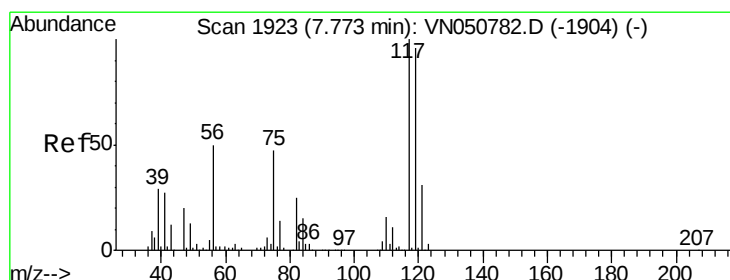
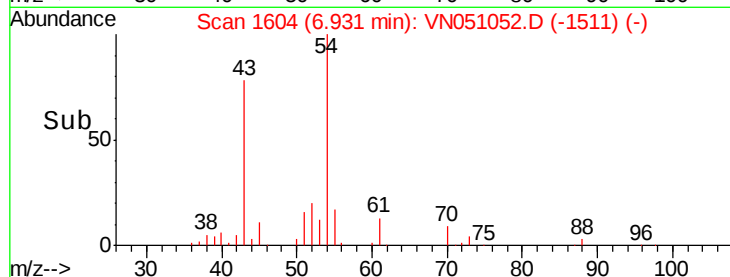
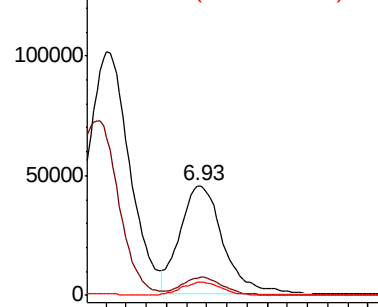
Tot Ion	Ratio	Lower	Upper
43	100		
61	15.5	12.0	18.0
70	11.4	8.6	13.0

Manual Integrations
APPROVED

MMDadoda
9/10/2018 11:53:41 AM

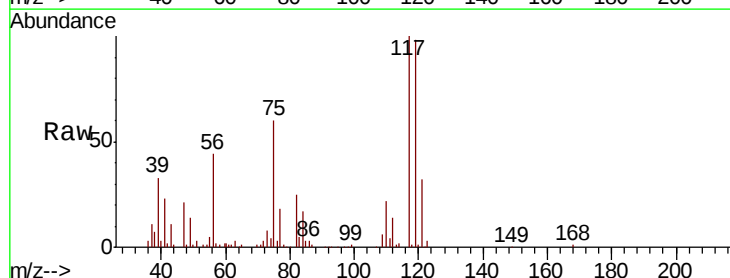


Abundance Ion 43.00 (42.70 to 43.70): VN050782.D (-1649) (-)
Ion 60.90 (60.60 to 61.60): VN050782.D (-1649) (-)
Ion 70.00 (69.70 to 70.70): VN050782.D (-1649) (-)

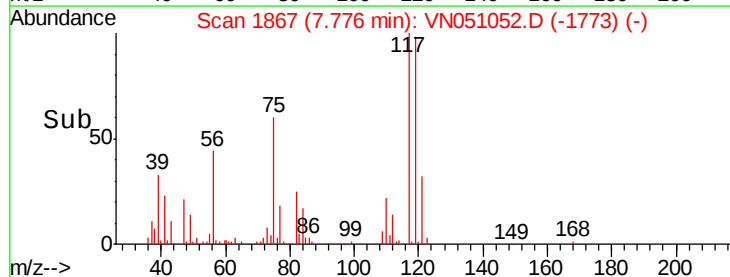
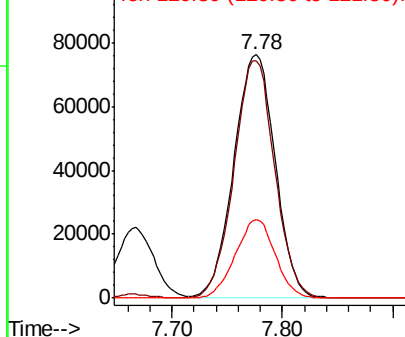


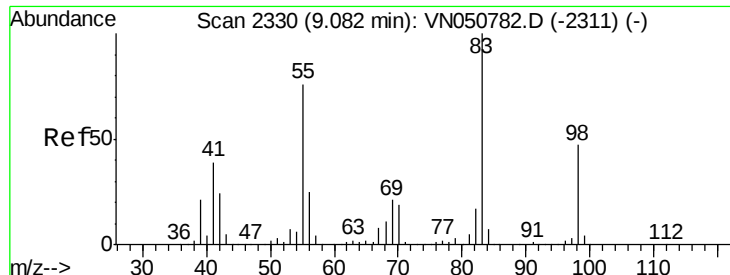
#38
Carbon Tetrachloride
Concen: 19.41 ug/l
RT: 7.78 min Scan# 1867
Delta R.T. 0.00 min
Lab File: VN051052.D
Acq: 7 Sep 2018 14:36

Tgt Ion	Ratio	Lower	Upper
117	100		
119	97.3	76.3	114.5
121	32.1	24.6	36.8



Abundance Ion 116.80 (116.50 to 117.50): VN050782.D (-1904) (-)
Ion 118.80 (118.50 to 119.50): VN050782.D (-1904) (-)
Ion 120.80 (120.50 to 121.50): VN050782.D (-1904) (-)





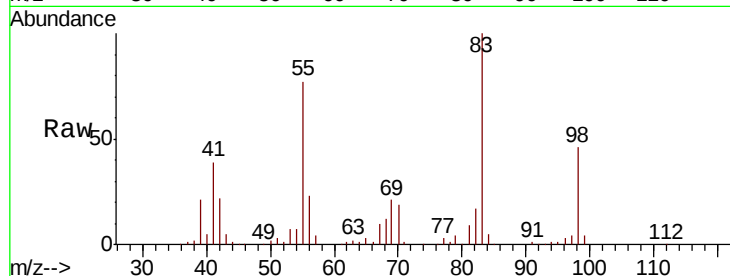
#39
Methvlcvclohexane
Concen: 19.39 ug/l
RT: 9.08 min Scan# 2273
Delta R.T. 0.00 min
Lab File: VN051052.D
Acq: 7 Sep 2018 14:36

Instrument :
MSVOA_N
ClientSampled :
VN0907MBSD01

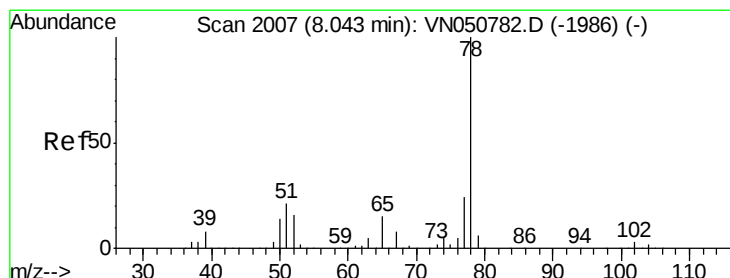
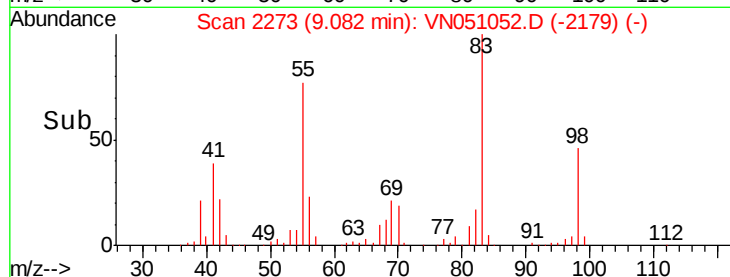
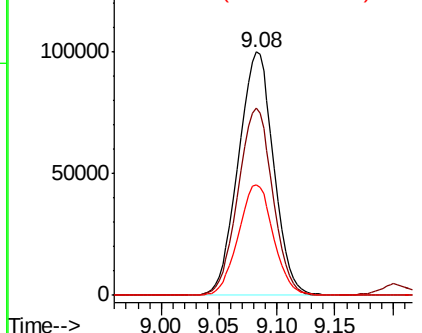
Tot Ion	Ratio	Lower	Upper
83	100		
55	77.1	61.0	91.4
98	45.5	37.5	56.3

Manual Integrations
APPROVED

MMDadoda
9/10/2018 11:53:41 AM

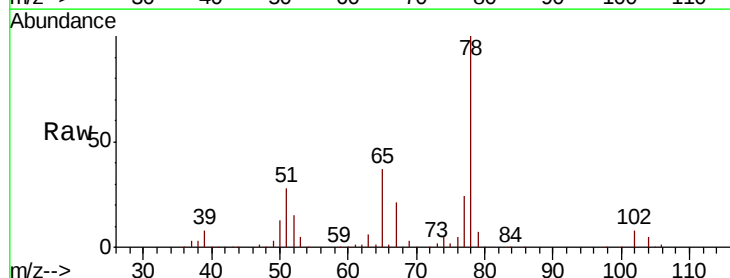


Abundance Ion 83.00 (82.70 to 83.70): VN0
Ion 55.00 (54.70 to 55.70): VN0
Ion 98.00 (97.70 to 98.70): VN0

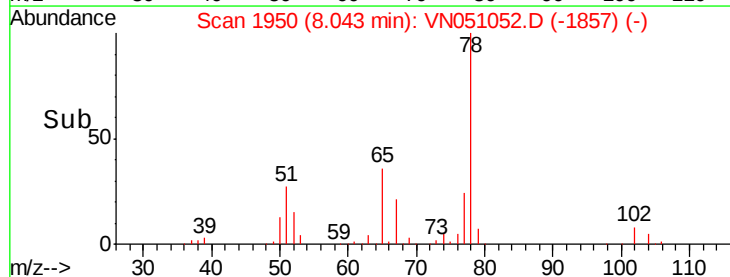
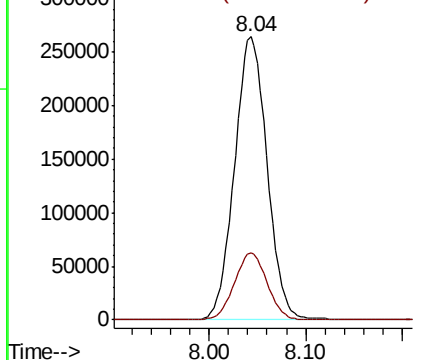


#40
Benzene
Concen: 20.30 ug/l
RT: 8.04 min Scan# 1950
Delta R.T. 0.00 min
Lab File: VN051052.D
Acq: 7 Sep 2018 14:36

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.9	19.0	28.4



Abundance Ion 78.00 (77.70 to 78.70): VN0
Ion 77.00 (76.70 to 77.70): VN0





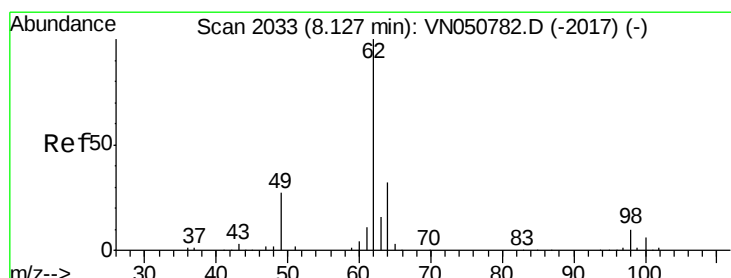
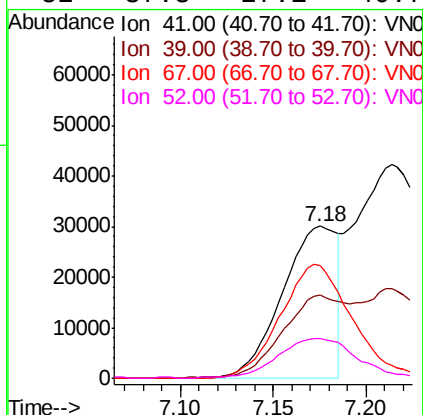
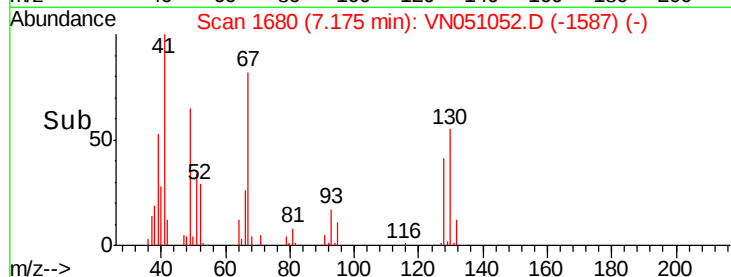
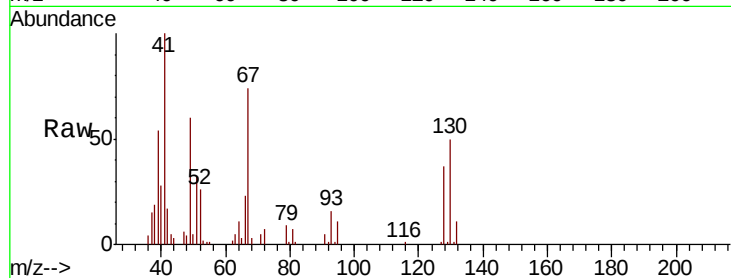
#41
Methacrylonitrile
Concen: 19.77 ug/l
RT: 7.18 min Scan# 1680
Delta R.T. 0.00 min
Lab File: VN051052.D
Acq: 7 Sep 2018 14:36

Instrument :
MSVOA_N
ClientSampleId :
VN0907MBSD01

Tot Ion	41	Resp	62105
Ion	Ratio	Lower	Upper
41	100		
39	63.2	45.4	68.0
67	98.3	70.6	106.0
52	37.8	27.1	40.7

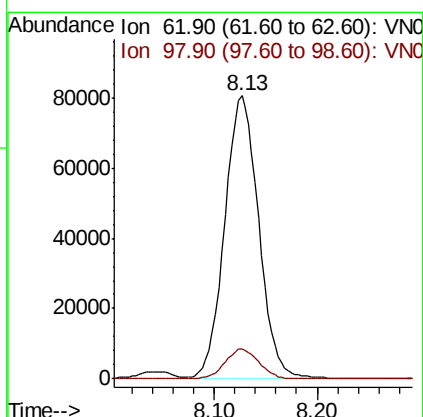
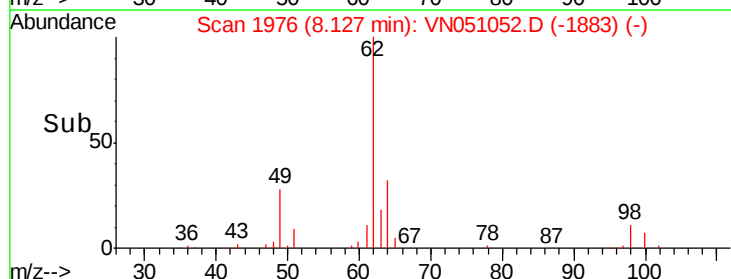
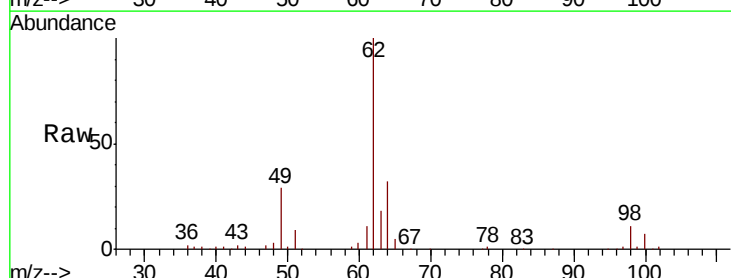
Manual Integrations
APPROVED

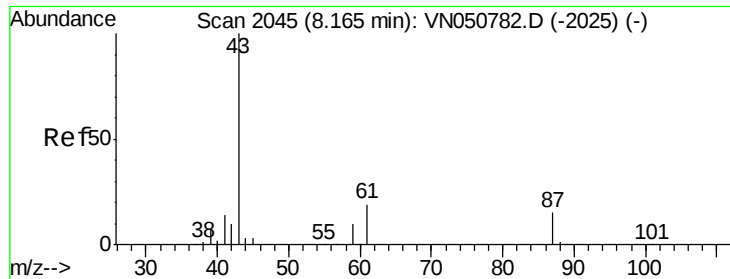
MMDadoda
9/10/2018 11:53:41 AM



#42
1,2-Dichloroethane
Concen: 20.23 ug/l
RT: 8.13 min Scan# 1976
Delta R.T. 0.00 min
Lab File: VN051052.D
Acq: 7 Sep 2018 14:36

Tgt Ion	62	Resp	184292
Ion	Ratio	Lower	Upper
62	100		
98	10.5	0.0	19.6





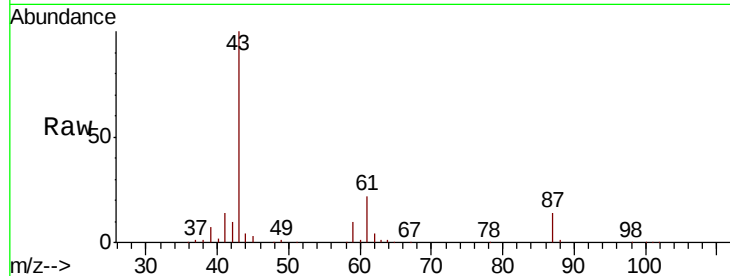
#43
Isopropyl Acetate
Concen: 22.48 ug/l
RT: 8.17 min Scan# 1988
Delta R.T. 0.00 min
Lab File: VN051052.D
Acq: 7 Sep 2018 14:36

Instrument :
MSVOA_N
ClientSampleId :
VN0907MBSD01

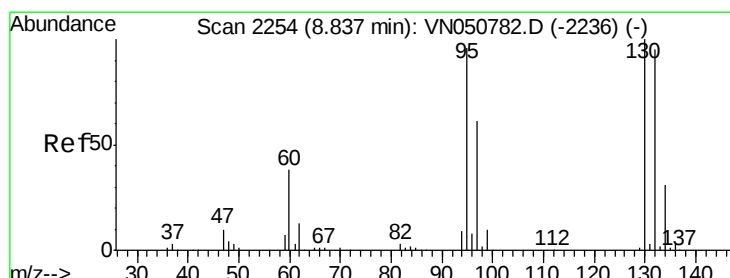
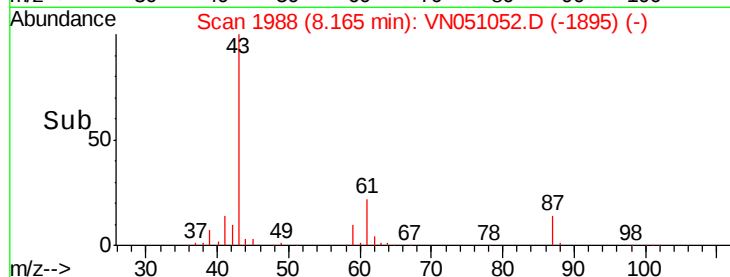
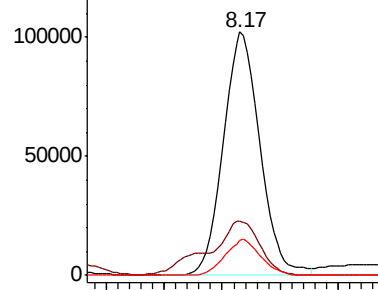
Tot Ion	Ratio	Lower	Upper
43	100		
61	30.7	17.5	26.3#
87	14.4	11.3	16.9

Manual Integrations
APPROVED

MMDadoda
9/10/2018 11:53:41 AM

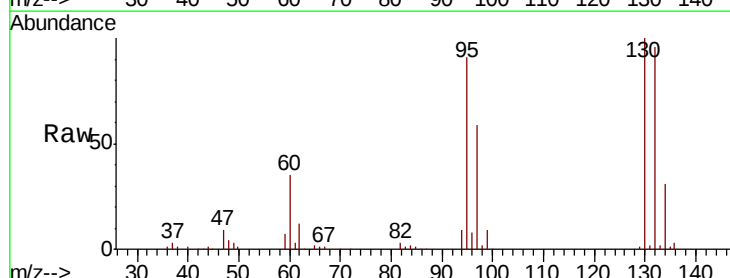


Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 61.00 (60.70 to 61.70): VN0
Ion 87.00 (86.70 to 87.70): VN0

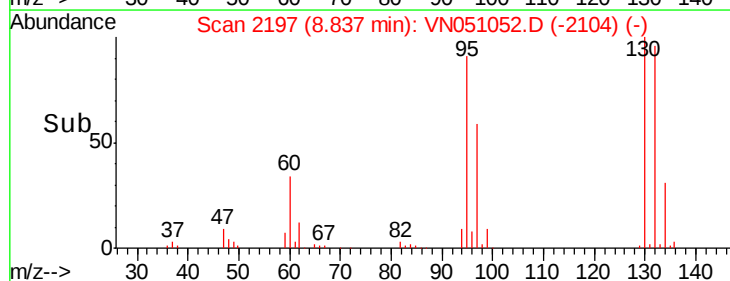
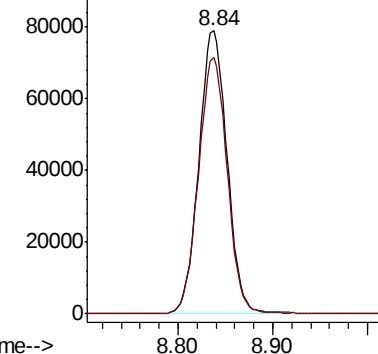


#44
Trichloroethene
Concen: 20.41 ug/l
RT: 8.84 min Scan# 2197
Delta R.T. 0.00 min
Lab File: VN051052.D
Acq: 7 Sep 2018 14:36

Tgt Ion	Ratio	Lower	Upper
130	100		
95	90.8	0.0	193.0



Abundance Ion 129.80 (129.50 to 130.50): V
Ion 94.90 (94.60 to 95.60): VN0





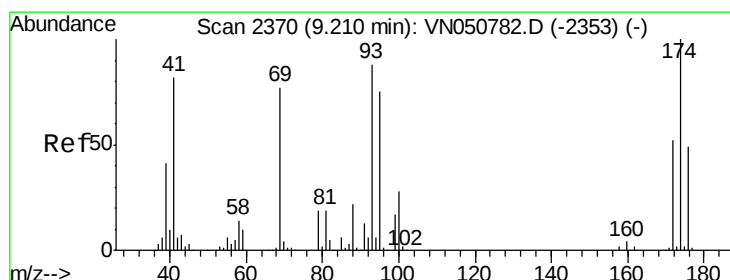
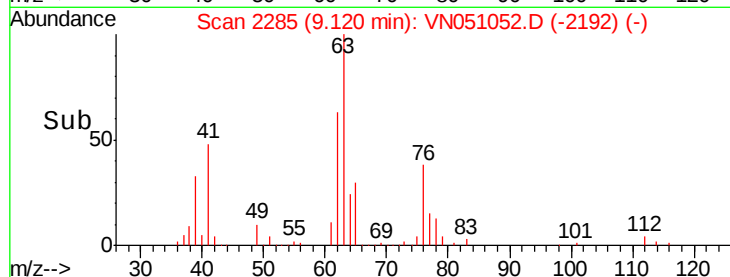
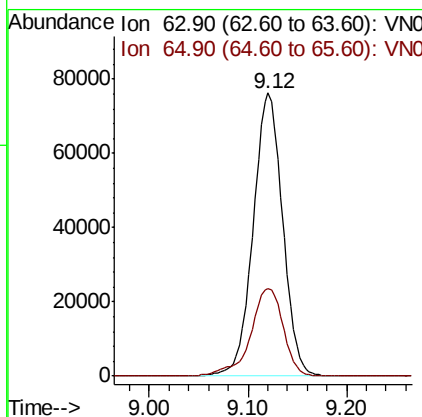
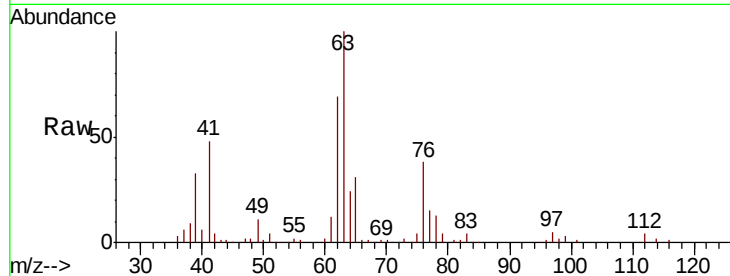
#45
 1,2-Dichloropropane
 Concen: 19.60 ug/l
 RT: 9.12 min Scan# 2285
 Delta R.T. 0.00 min
 Lab File: VN051052.D
 Acq: 7 Sep 2018 14:36

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0907MBSD01

Tot Ion: 63 Resp: 157013
 Ion Ratio Lower Upper
 63 100
 65 30.8 25.0 37.6

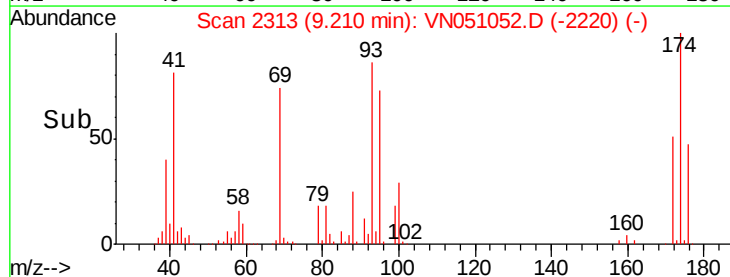
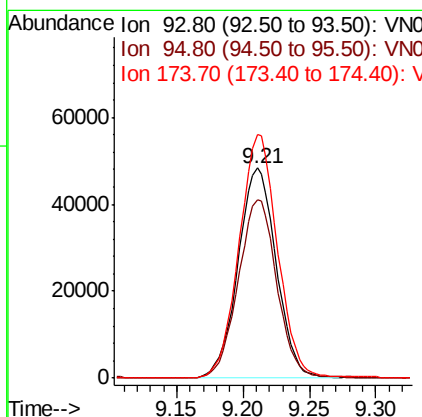
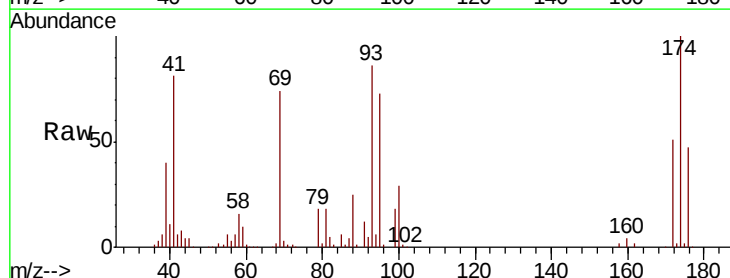
Manual Integrations
 APPROVED

MMDadoda
 9/10/2018 11:53:41 AM



#46
 Dibromomethane
 Concen: 20.57 ug/l
 RT: 9.21 min Scan# 2313
 Delta R.T. 0.00 min
 Lab File: VN051052.D
 Acq: 7 Sep 2018 14:36

Tgt Ion: 93 Resp: 96809
 Ion Ratio Lower Upper
 93 100
 95 85.8 66.7 100.1
 174 116.5 89.8 134.6





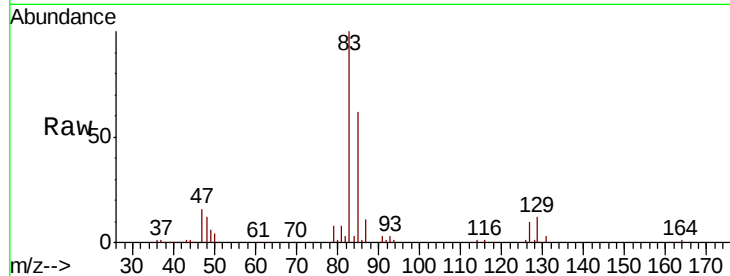
#47
Bromodichloromethane
Concen: 19.83 ug/l
RT: 9.40 min Scan# 2373
Delta R.T. 0.00 min
Lab File: VN051052.D
Acq: 7 Sep 2018 14:36

Instrument :
MSVOA_N
ClientSampleId :
VN0907MBS01

Tot Ion	83	Resp	195424
Ion Ratio	100	Lower	Upper
83	100		
85	62.3	52.6	78.8
127	9.6	7.2	10.8

Manual Integrations
APPROVED

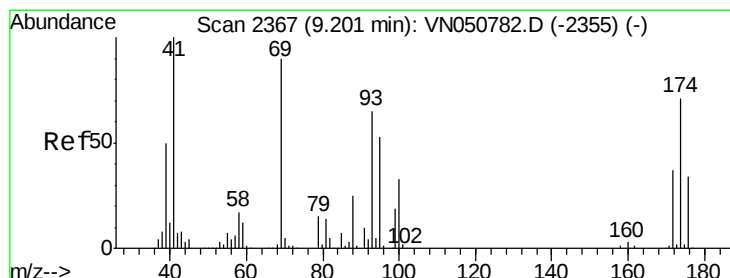
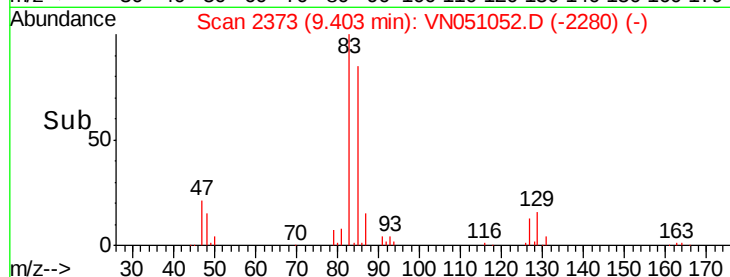
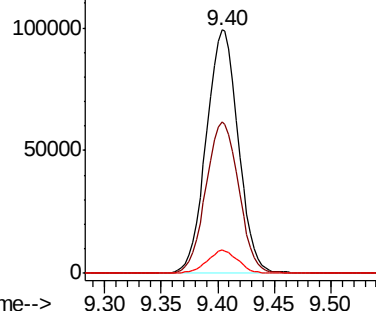
MMDadoda
9/10/2018 11:53:41 AM



Abundance Ion 82.90 (82.60 to 83.60): VN051052.D (-2373) (-)

Ion 84.90 (84.60 to 85.60): VN051052.D (-2373) (-)

Ion 126.80 (126.50 to 127.50): VN051052.D (-2373) (-)



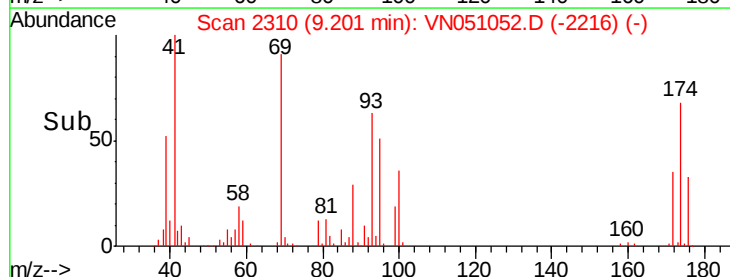
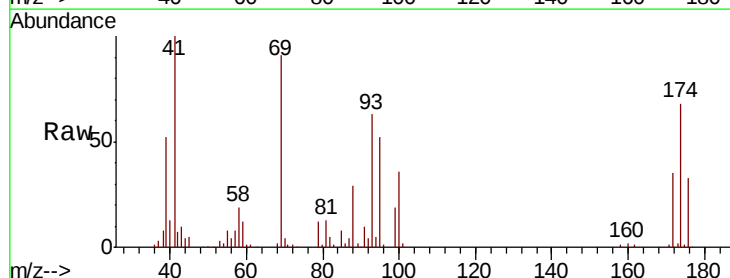
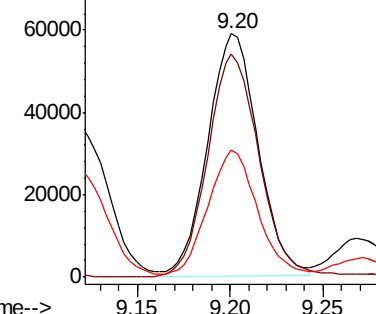
#48
Methyl methacrylate
Concen: 21.97 ug/l
RT: 9.20 min Scan# 2310
Delta R.T. 0.00 min
Lab File: VN051052.D
Acq: 7 Sep 2018 14:36

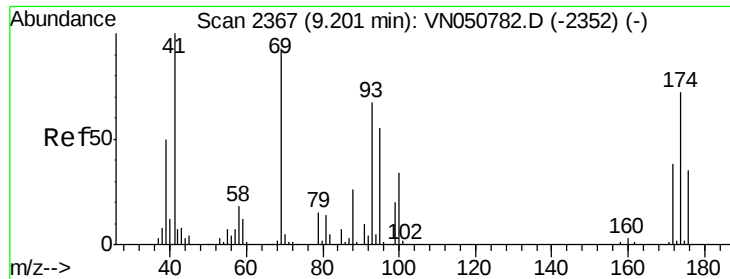
Tgt Ion	41	Resp	111771
Ion Ratio	100	Lower	Upper
41	100		
69	94.1	74.7	112.1
39	51.5	42.2	63.2

Abundance Ion 41.00 (40.70 to 41.70): VN051052.D (-2310) (-)

Ion 69.00 (68.70 to 69.70): VN051052.D (-2310) (-)

Ion 39.00 (38.70 to 39.70): VN051052.D (-2310) (-)





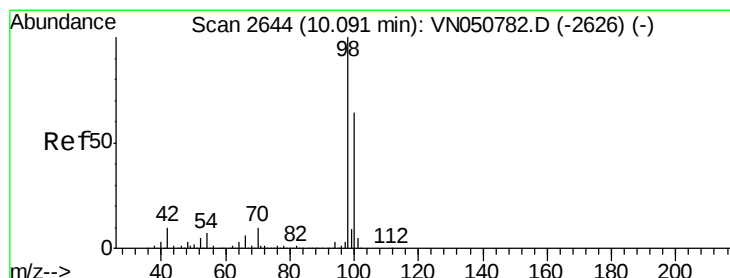
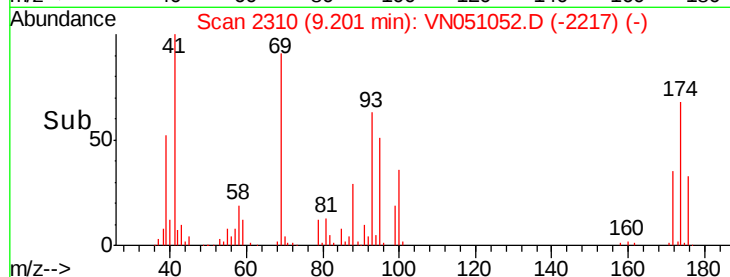
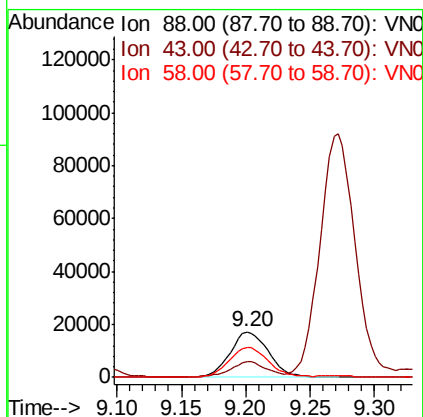
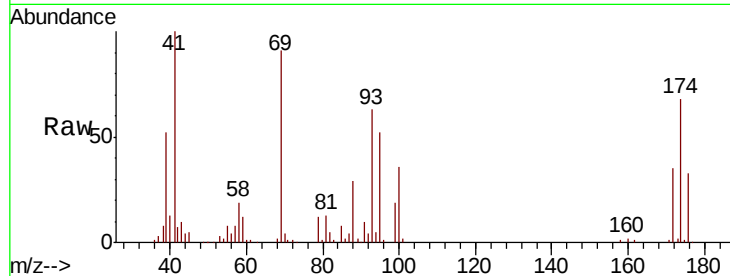
#49
 1,4-Dioxane
 Concen: 516.58 ug/l
 RT: 9.20 min Scan# 2310
 Delta R.T. 0.00 min
 Lab File: VN051052.D
 Acq: 7 Sep 2018 14:36

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0907MBS01

Tot Ion	Ratio	Lower	Upper
88	100		
43	29.9	25.9	38.9
58	66.5	55.0	82.4

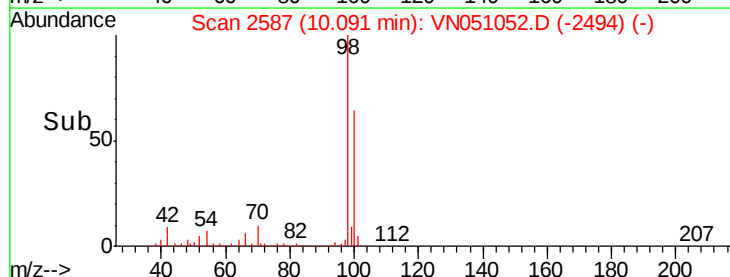
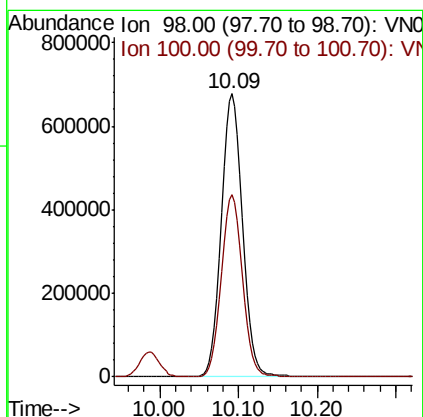
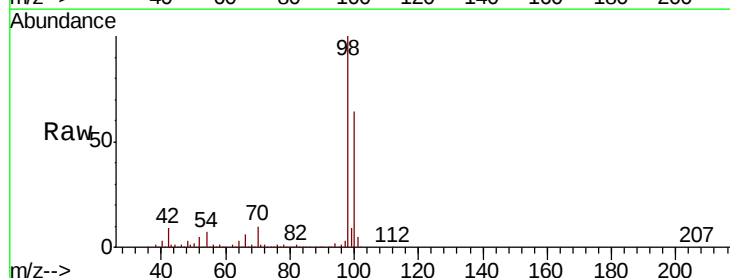
Manual Integrations
 APPROVED

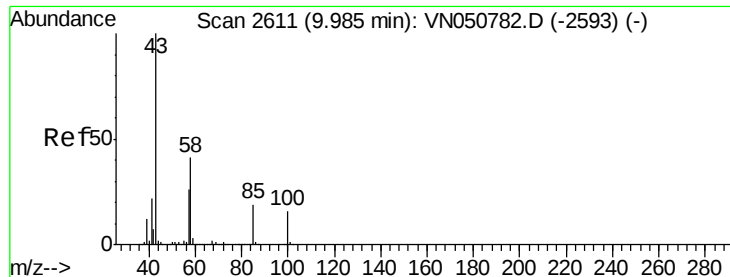
MMDadoda
 9/10/2018 11:53:41 AM



#50
 Toluene-d8
 Concen: 49.57 ug/l
 RT: 10.09 min Scan# 2587
 Delta R.T. 0.00 min
 Lab File: VN051052.D
 Acq: 7 Sep 2018 14:36

Tgt Ion	Ratio	Lower	Upper
98	100		
100	64.1	51.5	77.3





#51

4-Methyl-2-Pentanone

Concen: 110.85 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. 0.00 min

Lab File: VN051052.D

Acq: 7 Sep 2018 14:36

Instrument :

MSVOA_N

ClientSampleID :

VN0907MBSD01

Tot Ion: 43 Resp: 660268

Ion Ratio Lower Upper

43 100

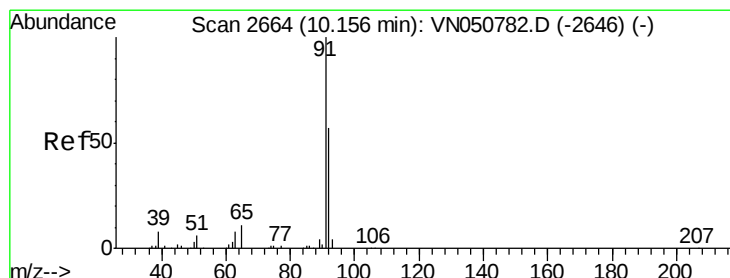
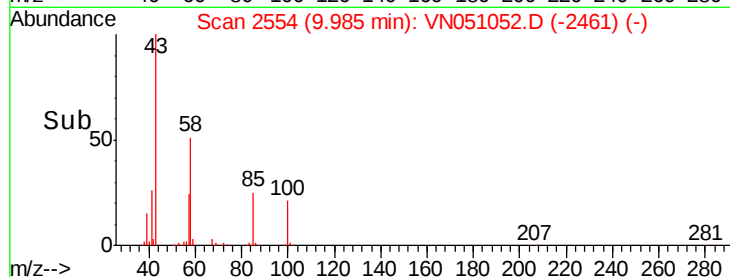
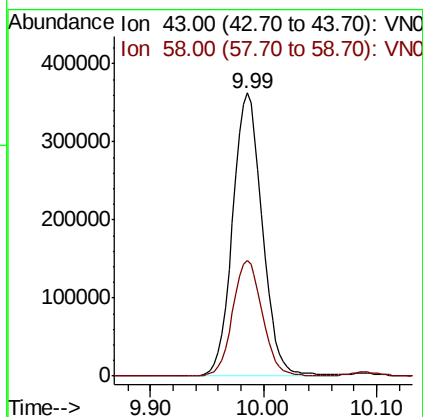
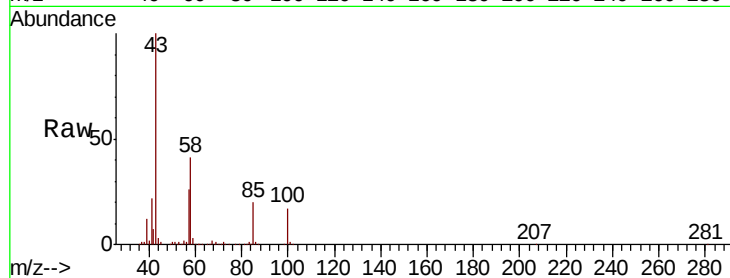
58 40.9 32.4 48.6

Manual Integrations

APPROVED

MMDadoda

9/10/2018 11:53:41 AM



#52

Toluene

Concen: 21.02 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VN051052.D

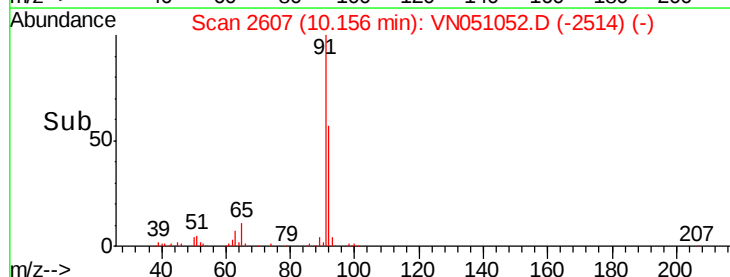
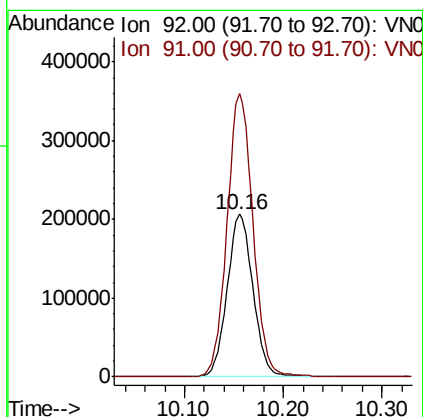
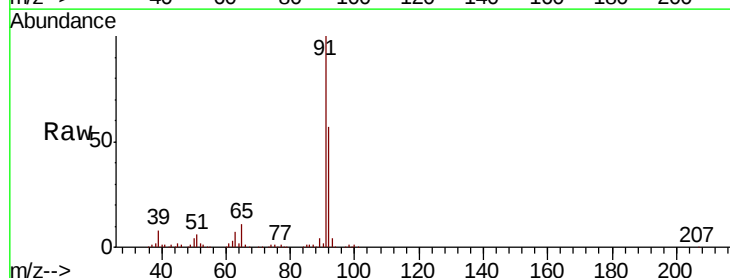
Acq: 7 Sep 2018 14:36

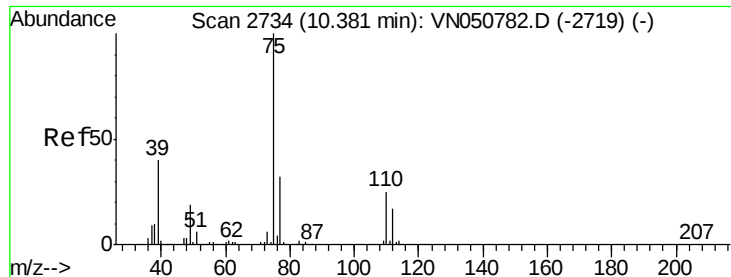
Tgt Ion: 92 Resp: 379383

Ion Ratio Lower Upper

92 100

91 174.9 140.6 211.0





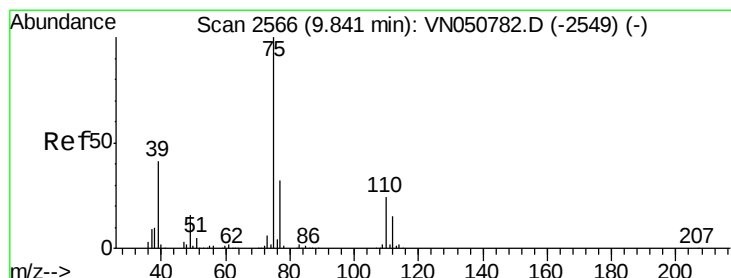
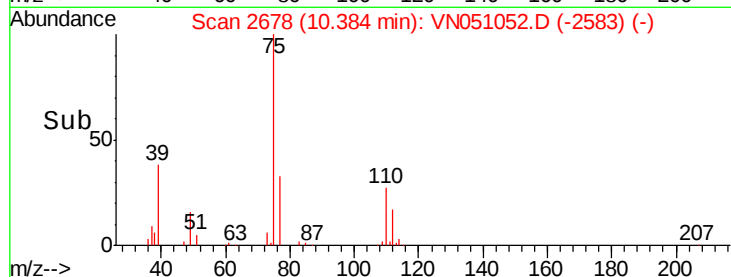
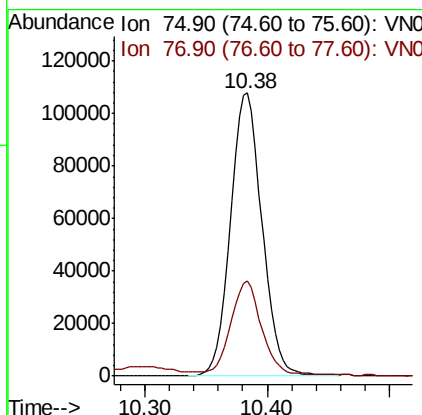
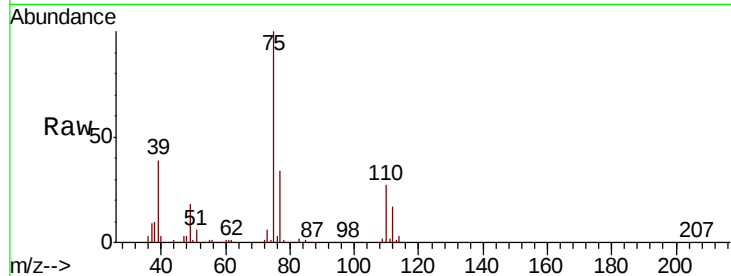
#53
t-1,3-Dichloropropene
Concen: 19.82 ug/l
RT: 10.38 min Scan# 2678
Delta R.T. 0.00 min
Lab File: VN051052.D
Acq: 7 Sep 2018 14:36

Instrument :
MSVOA_N
ClientSampleId :
VN0907MBSD01

Tot Ion	Ratio	Lower	Upper
75	100		
77	33.0	25.7	38.5

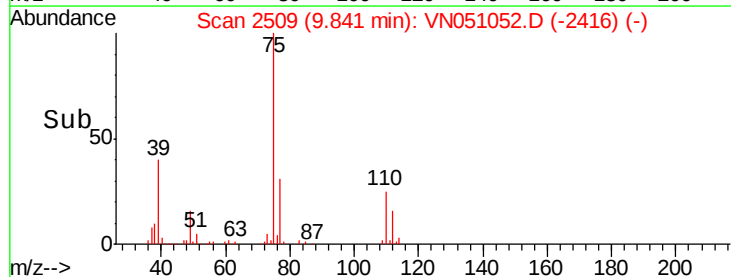
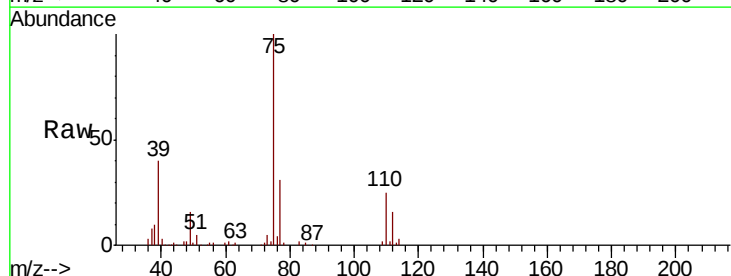
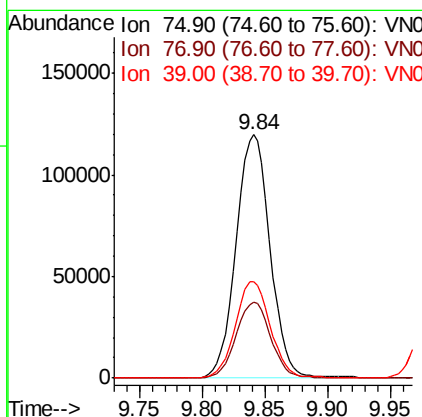
Manual Integrations
APPROVED

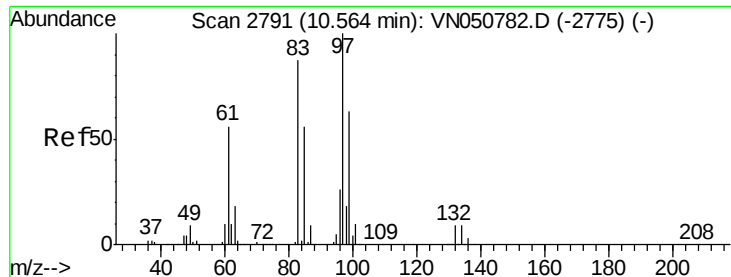
MMDadoda
9/10/2018 11:53:41 AM



#54
cis-1,3-Dichloropropene
Concen: 20.12 ug/l
RT: 9.84 min Scan# 2509
Delta R.T. 0.00 min
Lab File: VN051052.D
Acq: 7 Sep 2018 14:36

Tgt Ion	Ratio	Lower	Upper
75	100		
77	31.2	25.4	38.2
39	39.6	33.0	49.4





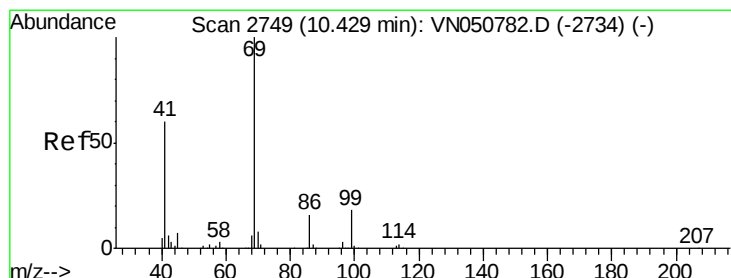
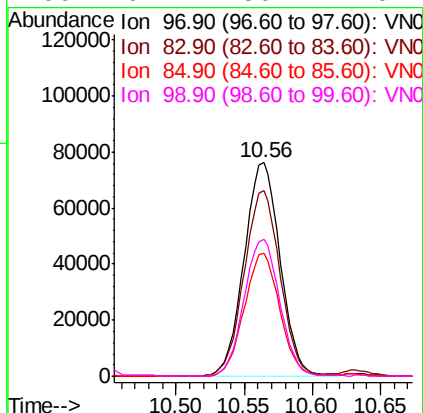
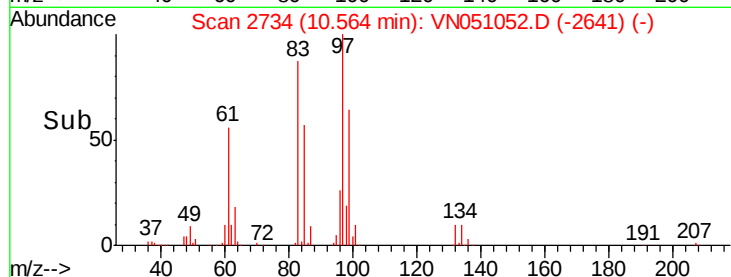
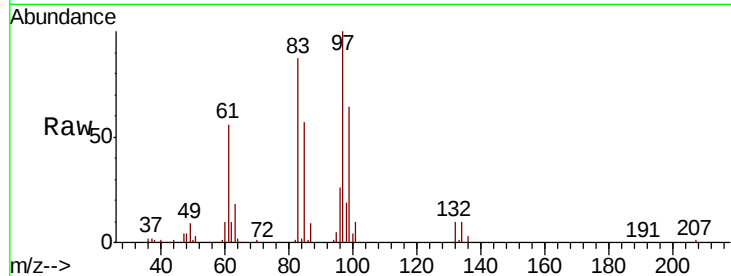
#55
 1,1,2-Trichloroethane
 Concen: 20.87 ug/l
 RT: 10.56 min Scan# 2734
 Delta R.T. 0.00 min
 Lab File: VN051052.D
 Acq: 7 Sep 2018 14:36

Instrument :
 MSVOA_N
 ClientSampled :
 VN0907MBSD01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
97	100		139862		
83	86.7	69.7	104.5		
85	57.4	44.5	66.7		
99	64.1	50.7	76.1		

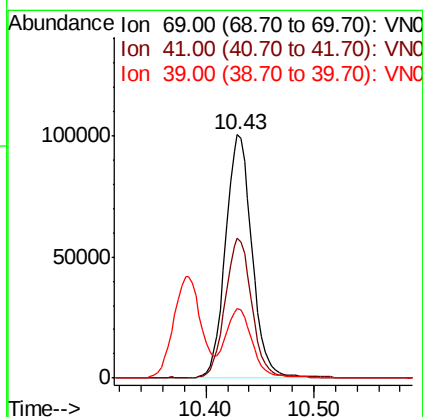
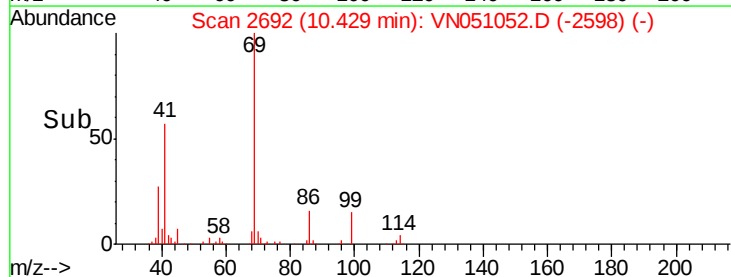
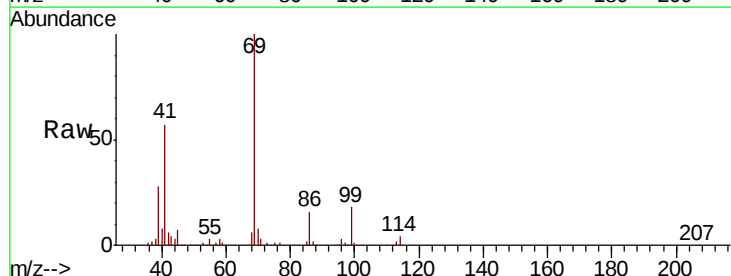
Manual Integrations
 APPROVED

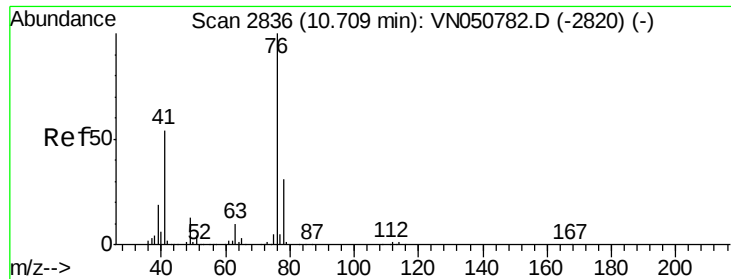
MMDadoda
 9/10/2018 11:53:41 AM



#56
 Ethyl methacrylate
 Concen: 21.15 ug/l
 RT: 10.43 min Scan# 2692
 Delta R.T. 0.00 min
 Lab File: VN051052.D
 Acq: 7 Sep 2018 14:36

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
69	100		171973		
41	57.1	48.3	72.5		
39	28.2	24.0	36.0		





#57

1,3-Dichloropropane

Concen: 21.05 ug/l

RT: 10.71 min Scan# 2779

Delta R.T. 0.00 min

Lab File: VN051052.D

Acq: 7 Sep 2018 14:36

Instrument :

MSVOA_N

ClientSampleId :

VN0907MBSD01

Tot Ion: 76 Resp: 232785

Ion Ratio Lower Upper

76 100

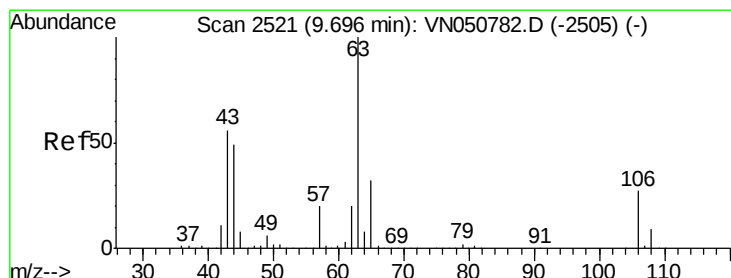
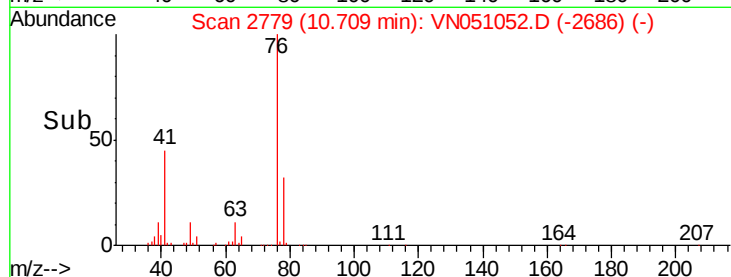
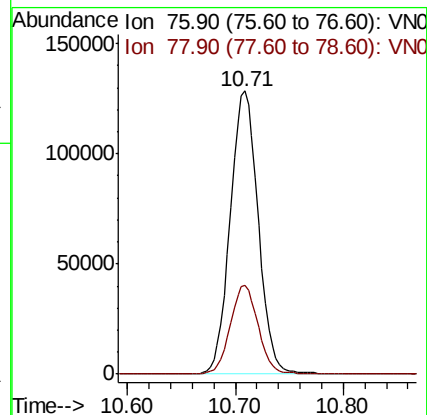
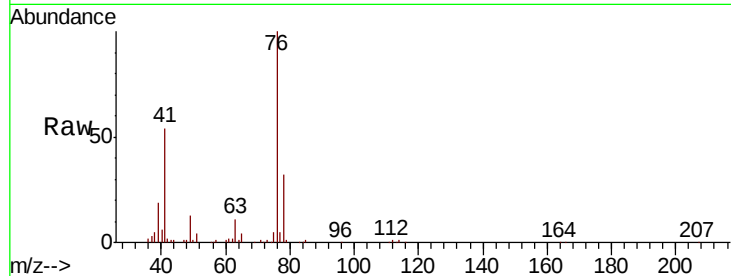
78 31.2 25.5 38.3

Manual Integrations

APPROVED

MMDadoda

9/10/2018 11:53:41 AM



#58

2-Chloroethyl Vinyl ether

Concen: 93.02 ug/l

RT: 9.70 min Scan# 2464

Delta R.T. 0.00 min

Lab File: VN051052.D

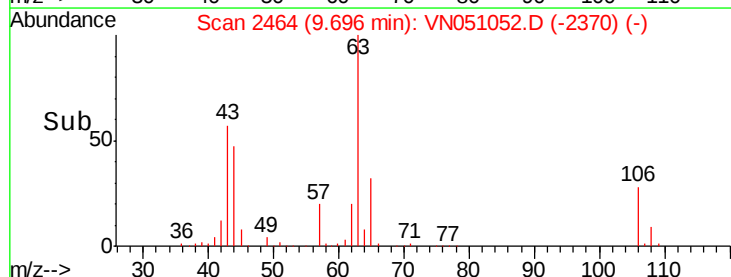
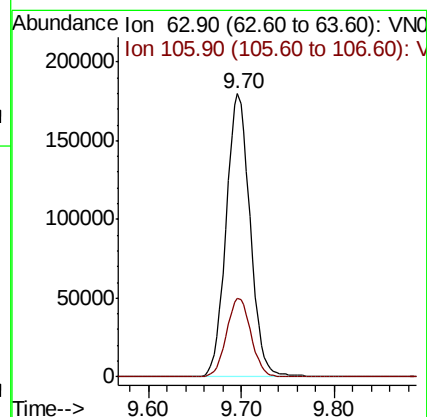
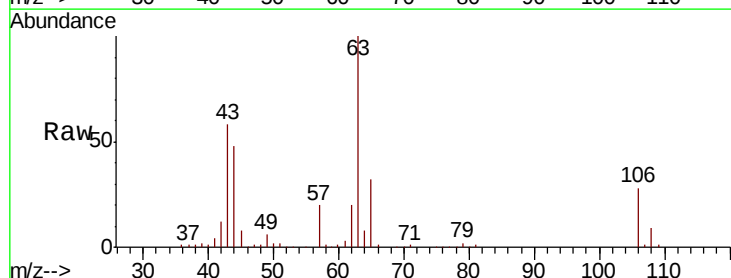
Acq: 7 Sep 2018 14:36

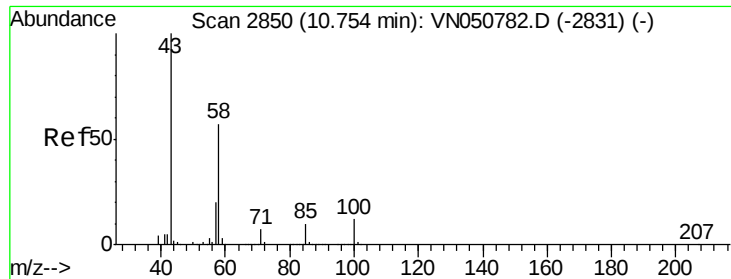
Tgt Ion: 63 Resp: 323109

Ion Ratio Lower Upper

63 100

106 28.2 21.9 32.9





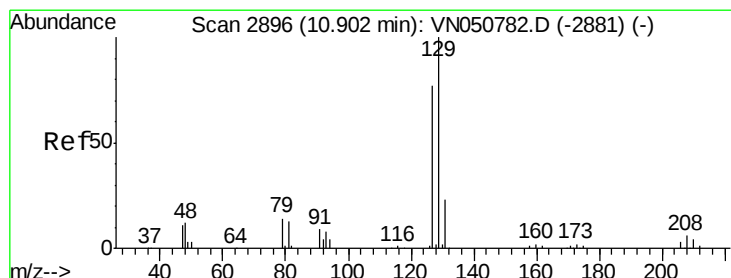
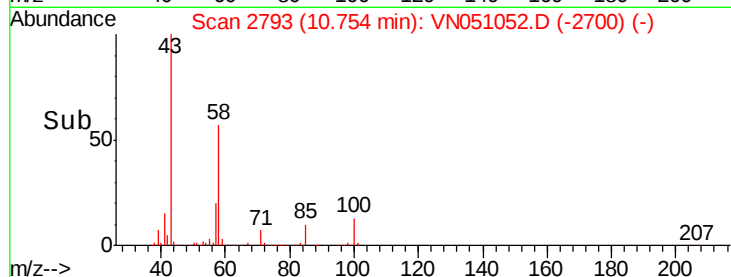
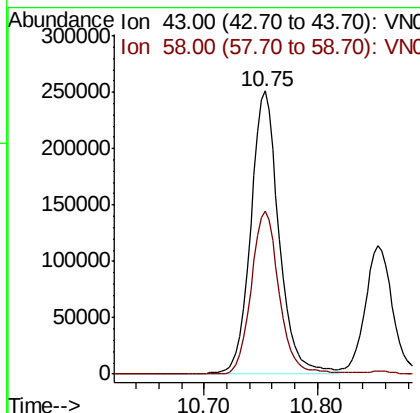
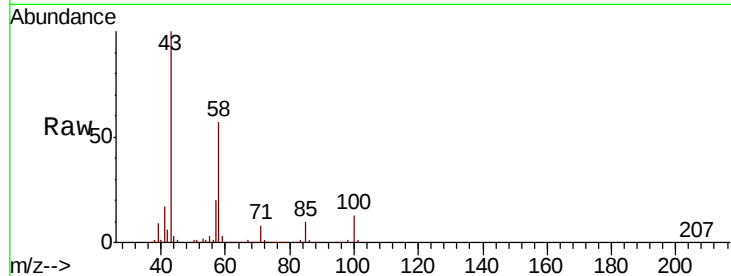
#59
2-Hexanone
Concen: 109.81 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.00 min
Lab File: VN051052.D
Acq: 7 Sep 2018 14:36

Instrument :
MSVOA_N
ClientSampleId :
VN0907MBSD01

Tot Ion: 43 Resp: 435412
Ion Ratio Lower Upper
43 100
58 57.3 28.3 85.0

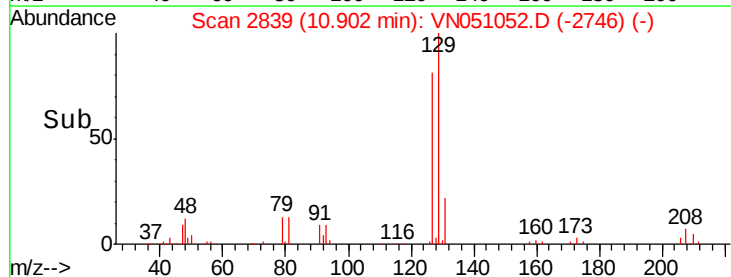
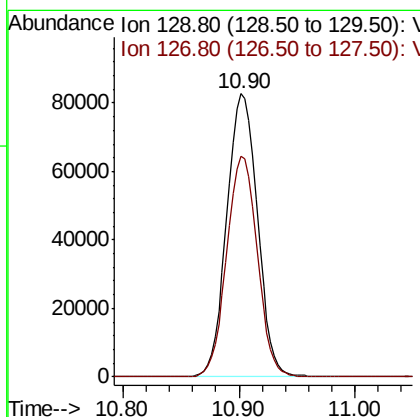
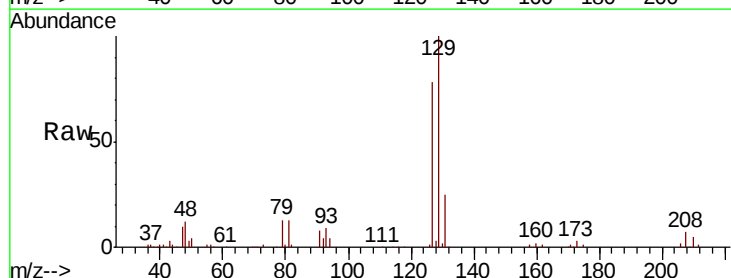
Manual Integrations
APPROVED

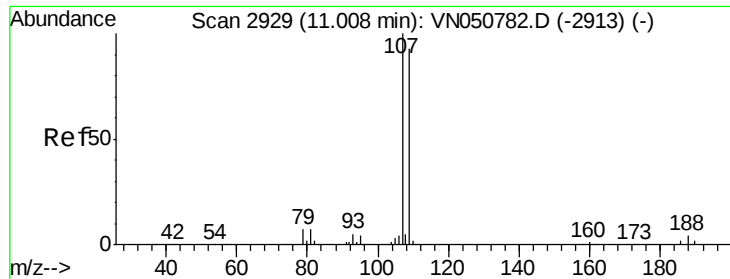
MMDadoda
9/10/2018 11:53:41 AM



#60
Dibromochloromethane
Concen: 20.20 ug/l
RT: 10.90 min Scan# 2839
Delta R.T. 0.00 min
Lab File: VN051052.D
Acq: 7 Sep 2018 14:36

Tgt Ion: 129 Resp: 151532
Ion Ratio Lower Upper
129 100
127 77.6 38.3 114.9





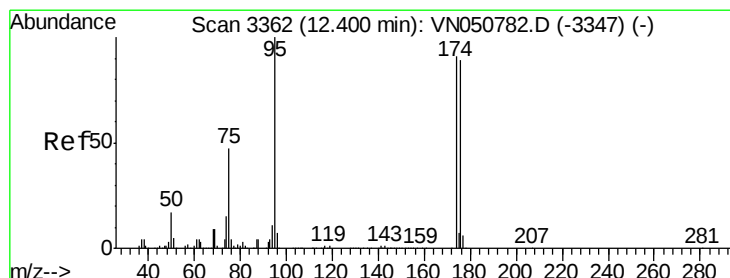
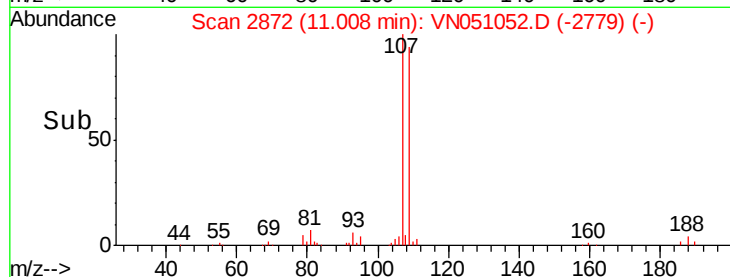
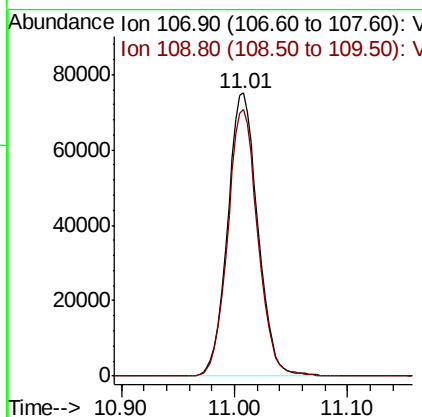
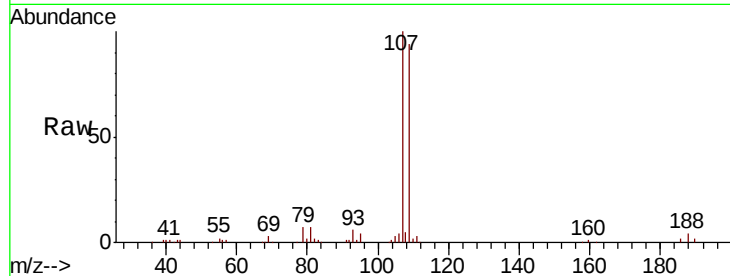
#61
 1,2-Dibromoethane
 Concen: 21.50 ug/l
 RT: 11.01 min Scan# 2872
 Delta R.T. 0.00 min
 Lab File: VN051052.D
 Acq: 7 Sep 2018 14:36

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0907MBSD01

Tot Ion	Ratio	Lower	Upper
107	100		
109	93.9	75.4	113.2

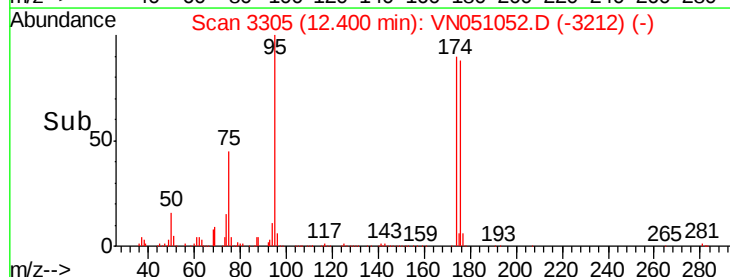
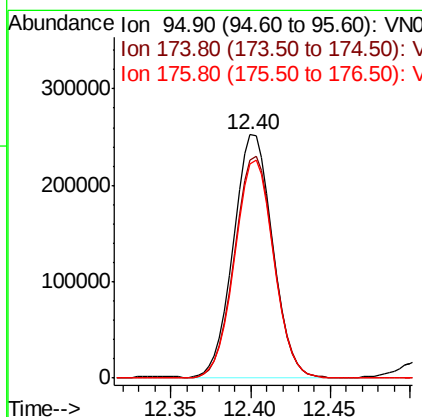
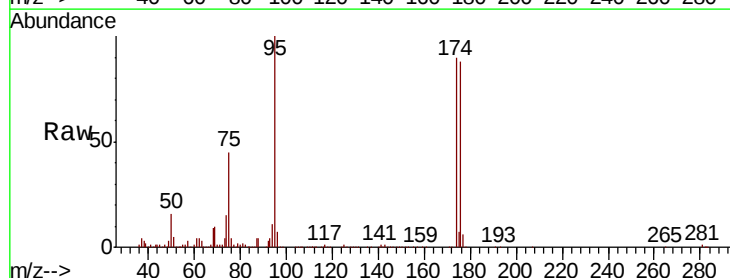
Manual Integrations
 APPROVED

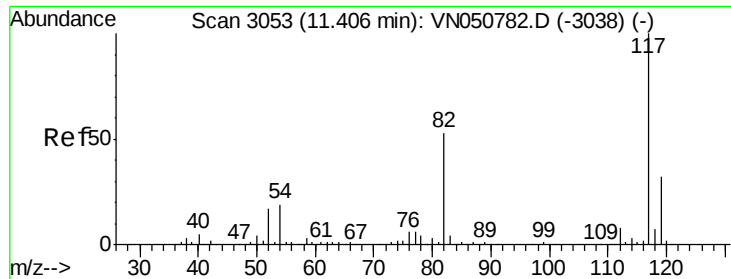
MMDadoda
 9/10/2018 11:53:41 AM



#62
 4-Bromofluorobenzene
 Concen: 49.46 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. 0.00 min
 Lab File: VN051052.D
 Acq: 7 Sep 2018 14:36

Tgt Ion	Ratio	Lower	Upper
95	100		
174	92.2	0.0	183.0
176	90.0	0.0	178.8





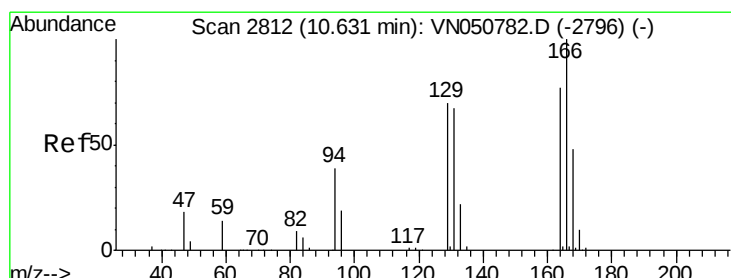
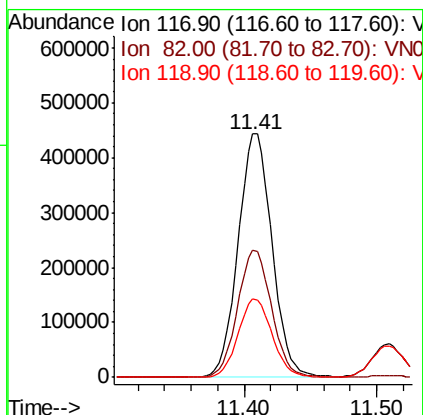
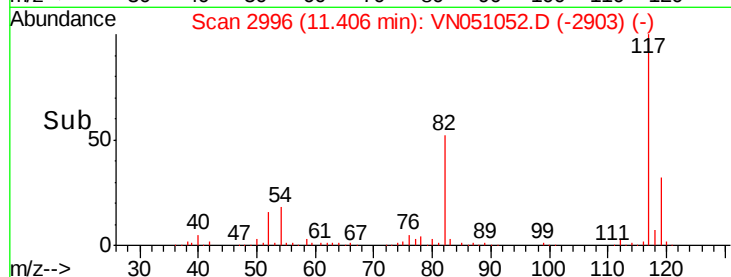
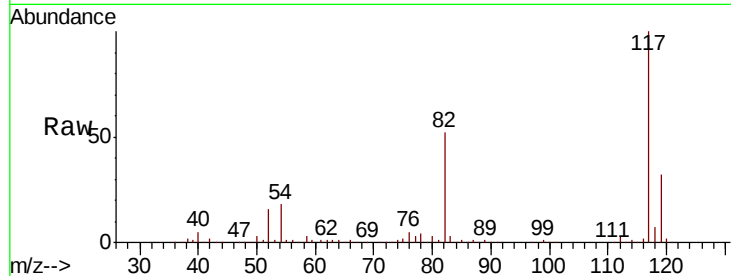
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN051052.D
Acq: 7 Sep 2018 14:36

Instrument :
MSVOA_N
ClientSampleId :
VN0907MBSD01

Tot Ion	Ratio	Lower	Upper
117	100		
82	52.1	42.6	64.0
119	32.1	25.8	38.6

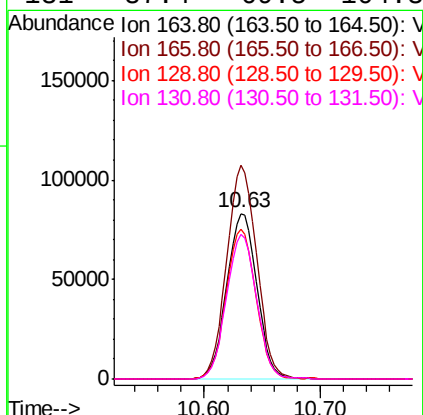
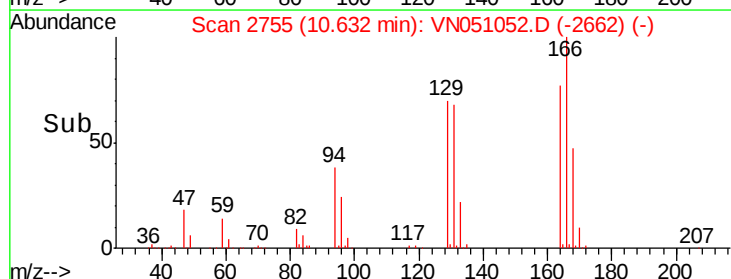
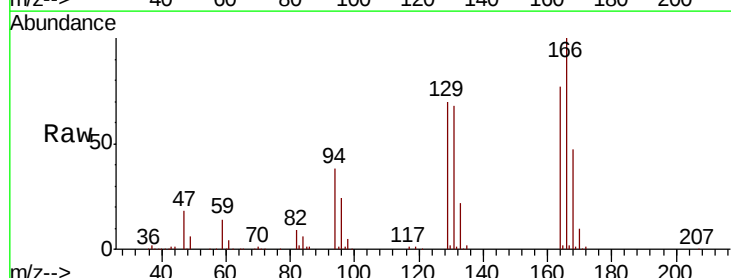
Manual Integrations
APPROVED

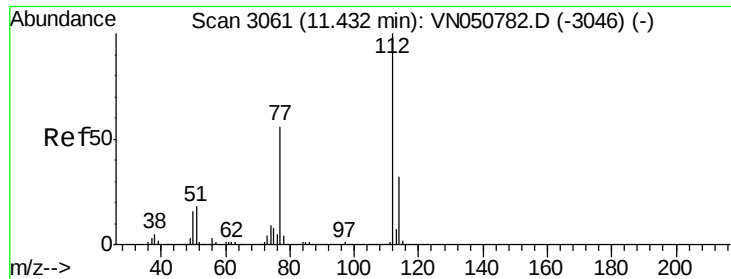
MMDadoda
9/10/2018 11:53:41 AM



#64
Tetrachloroethene
Concen: 19.95 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. 0.00 min
Lab File: VN051052.D
Acq: 7 Sep 2018 14:36

Tgt Ion	Ratio	Lower	Upper
164	100		
166	129.1	103.5	155.3
129	90.8	72.7	109.1
131	87.4	69.5	104.3





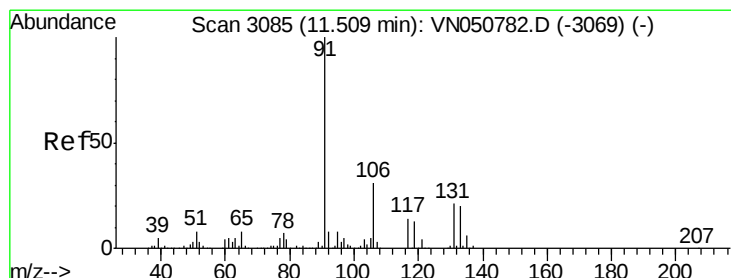
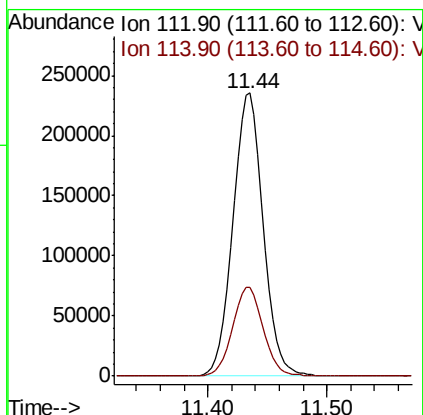
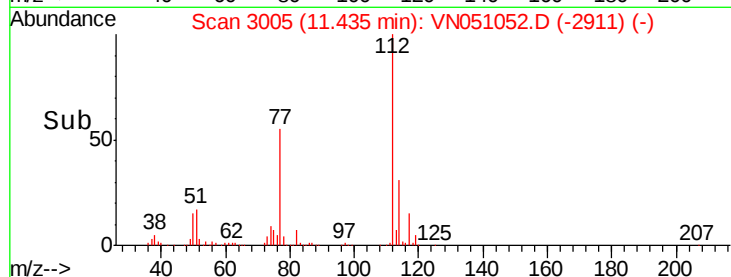
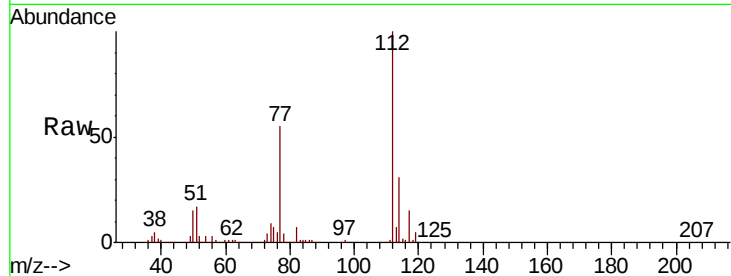
#65
Chlorobenzene
Concen: 20.05 ug/l
RT: 11.44 min Scan# 3005
Delta R.T. 0.00 min
Lab File: VN051052.D
Acq: 7 Sep 2018 14:36

Instrument :
MSVOA_N
ClientSampleId :
VN0907MBSD01

Tot Ion:112 Resp: 413895
Ion Ratio Lower Upper
112 100
114 31.2 25.6 38.4

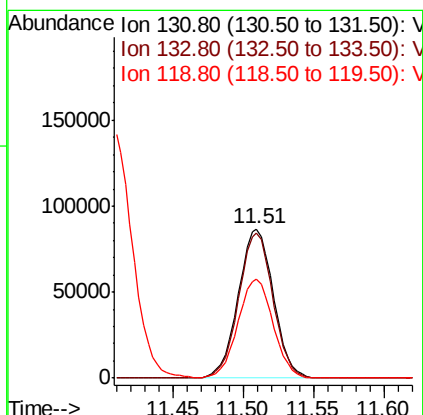
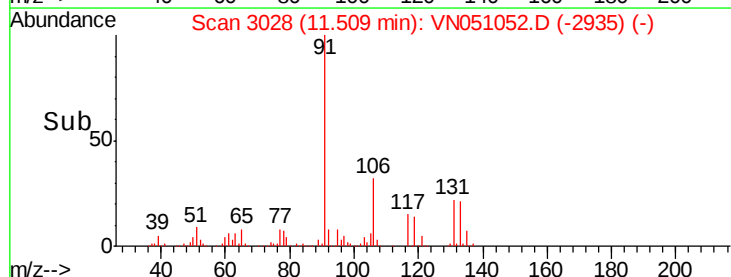
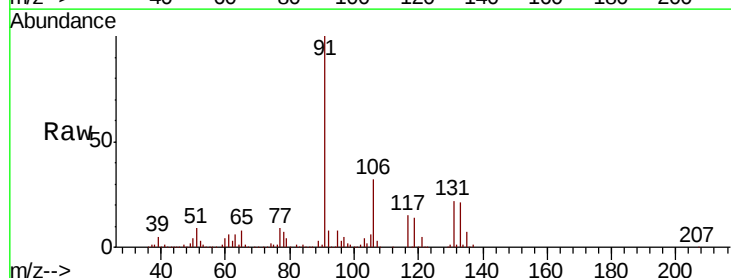
Manual Integrations
APPROVED

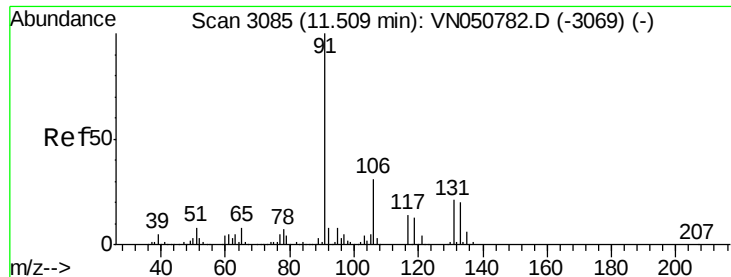
MMDadoda
9/10/2018 11:53:41 AM



#66
1,1,1,2-Tetrachloroethane
Concen: 20.10 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. 0.00 min
Lab File: VN051052.D
Acq: 7 Sep 2018 14:36

Tgt Ion:131 Resp: 151793
Ion Ratio Lower Upper
131 100
133 94.7 47.4 142.3
119 66.2 32.8 98.4





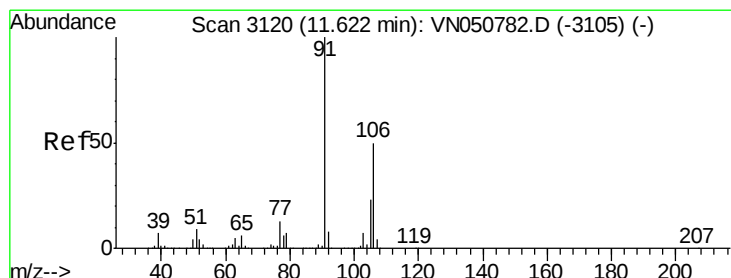
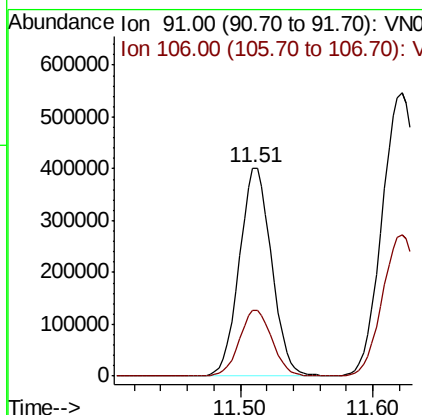
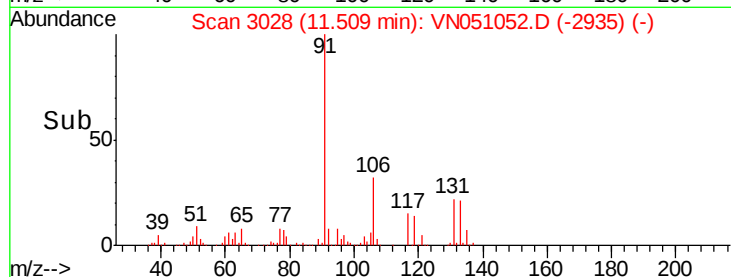
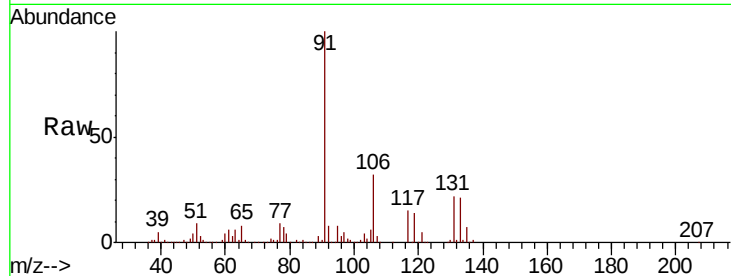
#67
Ethyl Benzene
Concen: 20.23 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. 0.00 min
Lab File: VN051052.D
Acq: 7 Sep 2018 14:36

Instrument :
MSVOA_N
ClientSampled :
VN0907MBSD01

Tot Ion: 91 Resp: 678932
Ion Ratio Lower Upper
91 100
106 31.7 25.0 37.4

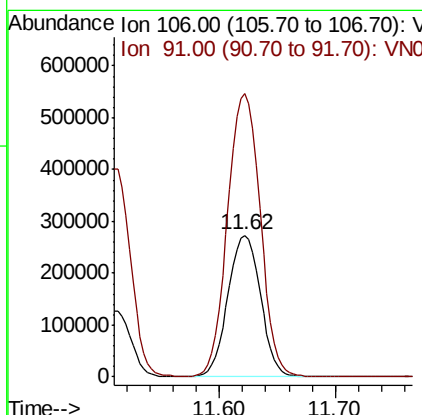
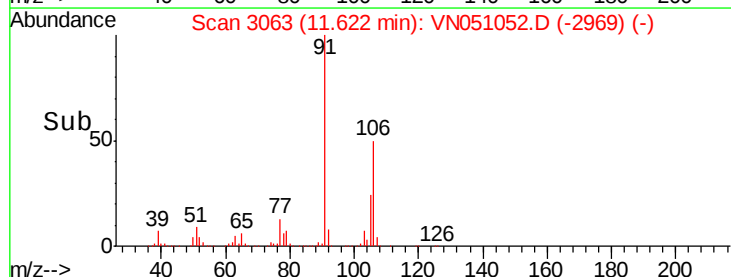
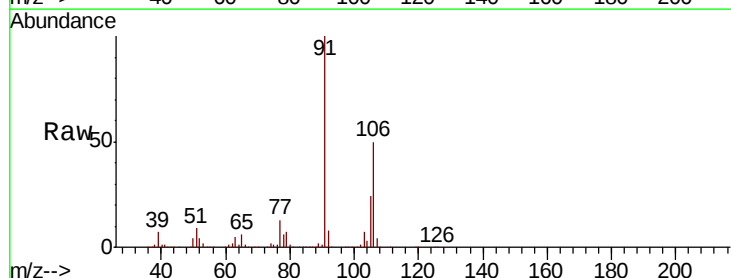
Manual Integrations
APPROVED

MMDadoda
9/10/2018 11:53:41 AM



#68
m/p-Xylenes
Concen: 41.99 ug/l
RT: 11.62 min Scan# 3063
Delta R.T. 0.00 min
Lab File: VN051052.D
Acq: 7 Sep 2018 14:36

Tgt Ion: 106 Resp: 534764
Ion Ratio Lower Upper
106 100
91 200.4 161.0 241.6





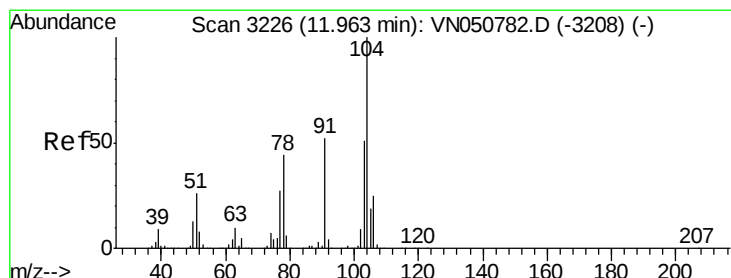
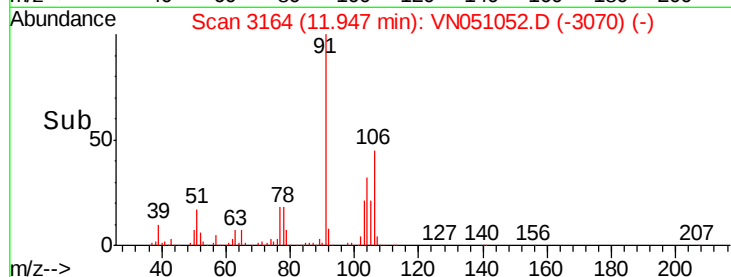
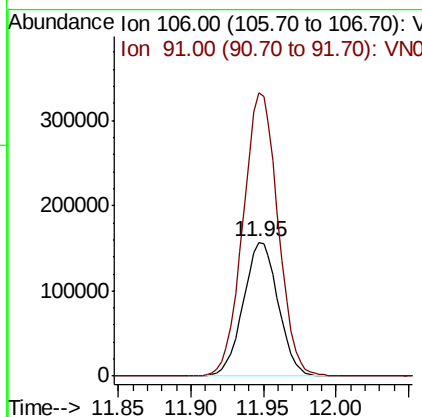
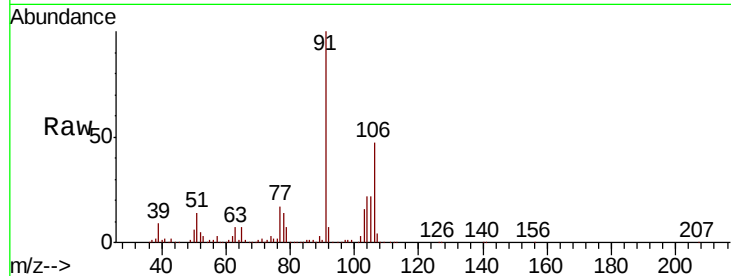
#69
o-Xylene
Concen: 21.54 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. 0.00 min
Lab File: VN051052.D
Acq: 7 Sep 2018 14:36

Instrument :
MSVOA_N
ClientSampled :
VN0907MBSD01

Tot Ion	Ratio	Lower	Upper
106	100		
91	211.8	106.5	319.5

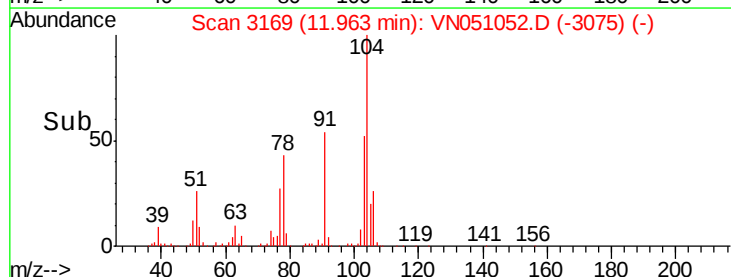
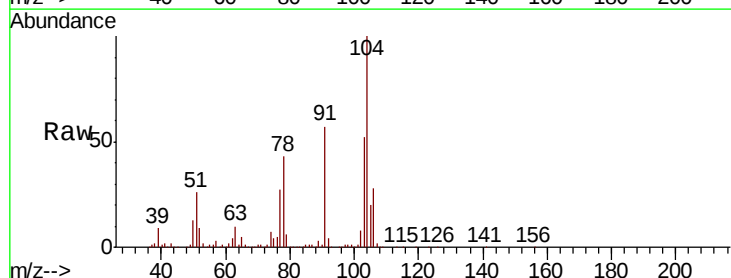
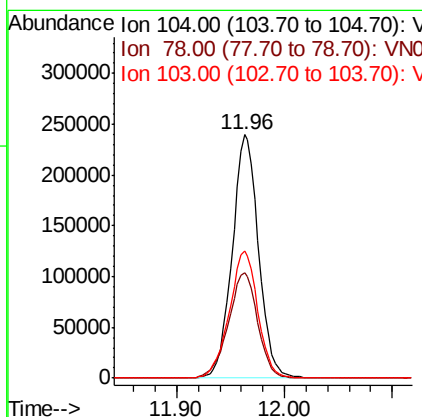
Manual Integrations
APPROVED

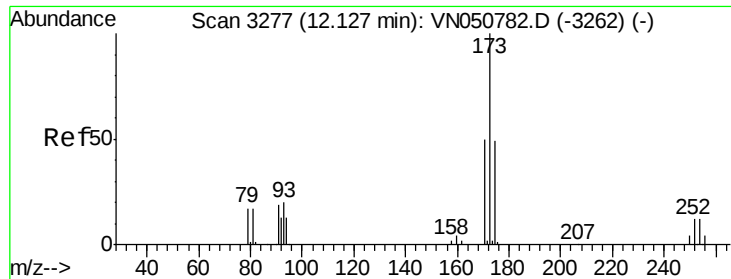
MMDadoda
9/10/2018 11:53:41 AM



#70
Styrene
Concen: 19.66 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. 0.00 min
Lab File: VN051052.D
Acq: 7 Sep 2018 14:36

Tgt Ion	Ratio	Lower	Upper
104	100		
78	48.1	38.2	57.4
103	56.7	44.4	66.6





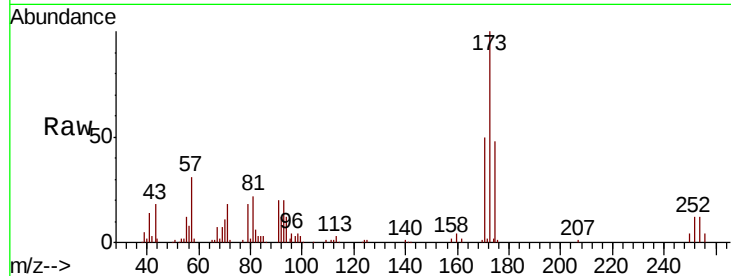
#71
Bromoform
Concen: 21.06 ug/l
RT: 12.13 min Scan# 3220
Delta R.T. 0.00 min
Lab File: VN051052.D
Acq: 7 Sep 2018 14:36

Instrument :
MSVOA_N
ClientSampleId :
VN0907MBS01

Tot Ion	Ratio	Lower	Upper
173	100		
175	48.3	24.4	73.4
254	0.0	0.1	0.1#

Manual Integrations
APPROVED

MMDadoda
9/10/2018 11:53:41 AM

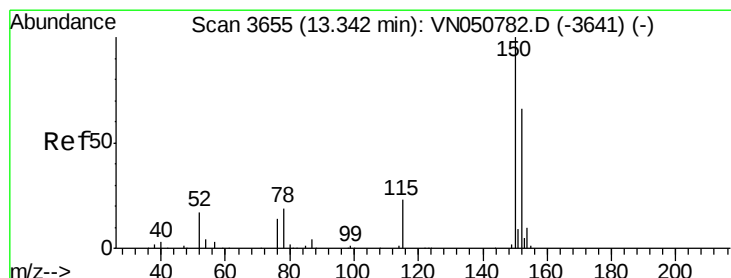
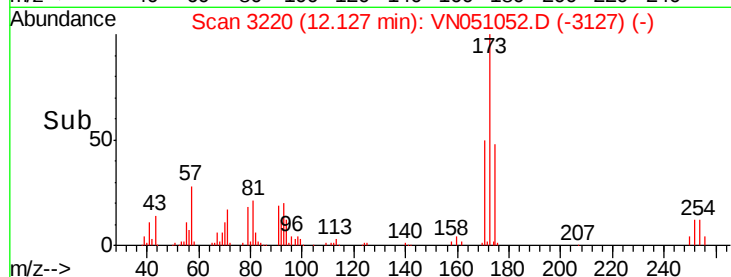
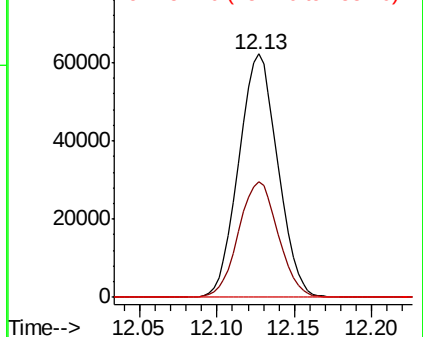


Abundance

Ion 172.70 (172.40 to 173.40): V

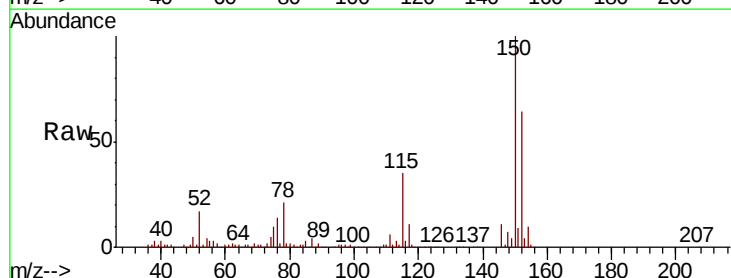
Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 13.35 min Scan# 3599
Delta R.T. 0.00 min
Lab File: VN051052.D
Acq: 7 Sep 2018 14:36

Tgt Ion	Ratio	Lower	Upper
152	100		
115	55.4	27.8	83.4
150	163.2	0.0	351.4

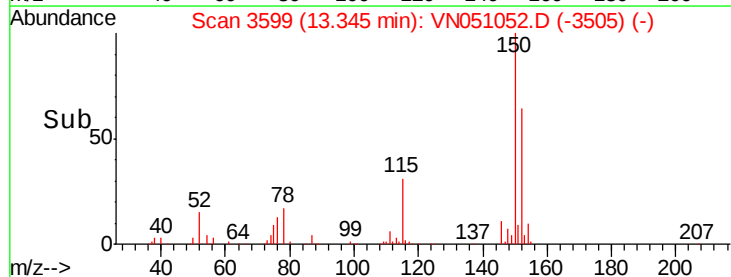
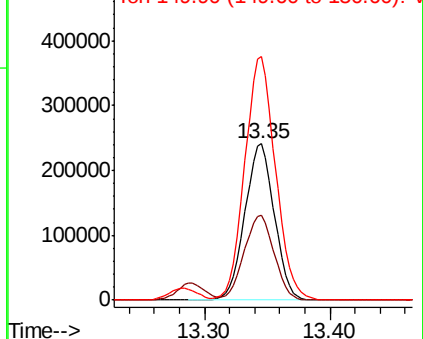


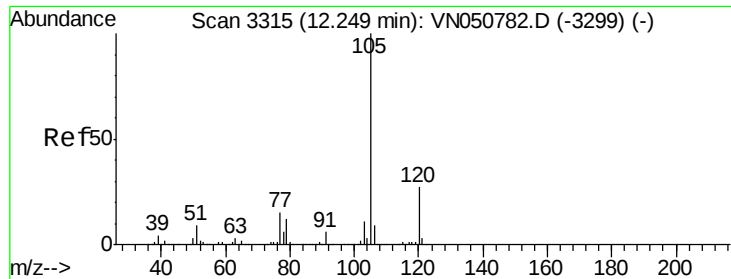
Abundance

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





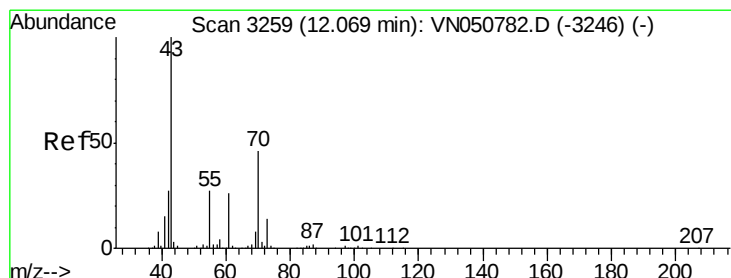
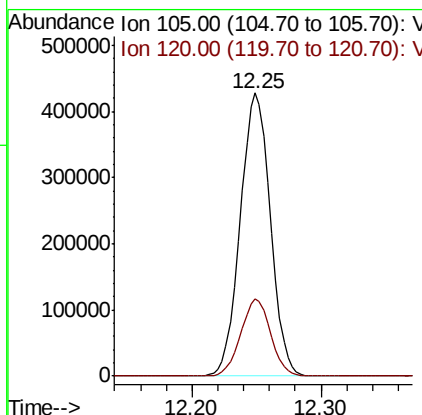
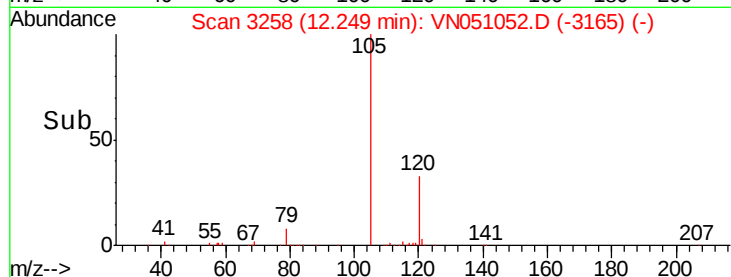
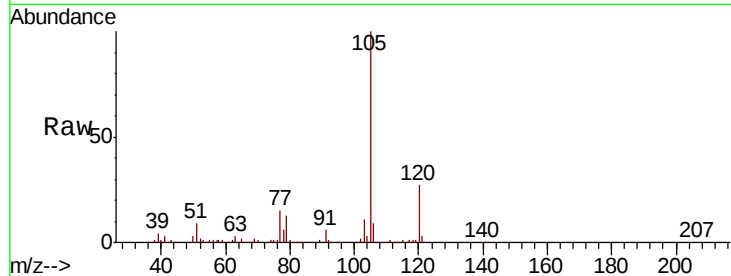
#73
Isopropylbenzene
Concen: 21.37 ug/l
RT: 12.25 min Scan# 3258
Delta R.T. 0.00 min
Lab File: VN051052.D
Acq: 7 Sep 2018 14:36

Instrument :
MSVOA_N
ClientSampleId :
VN0907MBS01

Tot Ion	Ratio	Resp	Lower	Upper
105	100	693911		
120	27.0	13.5	40.4	

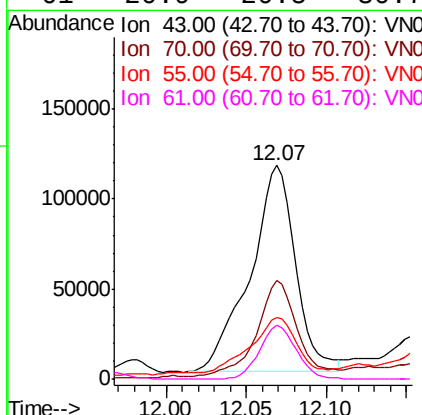
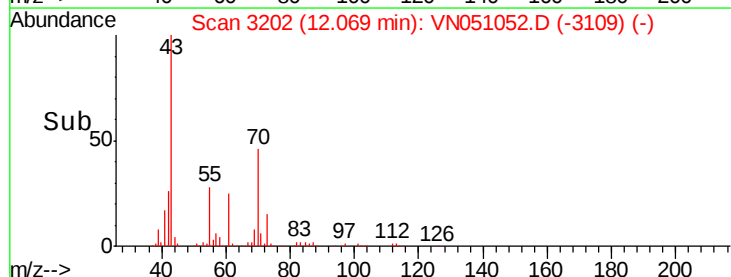
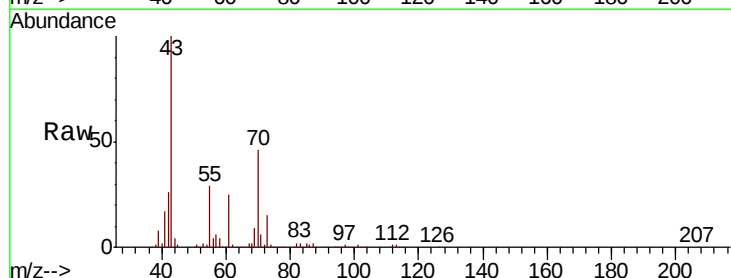
Manual Integrations
APPROVED

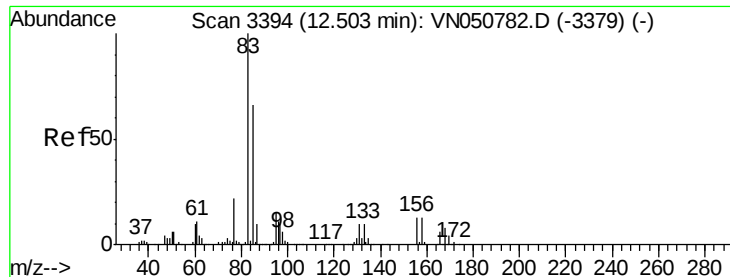
MMDadoda
9/10/2018 11:53:41 AM



#74
N-ethyl acetate
Concen: 27.70 ug/l
RT: 12.07 min Scan# 3202
Delta R.T. 0.00 min
Lab File: VN051052.D
Acq: 7 Sep 2018 14:36

Tgt Ion	Ratio	Resp	Lower	Upper
43	100	225975		
70	40.7	36.2	54.2	
55	28.6	21.8	32.8	
61	20.9	20.5	30.7	





#75

1,1,2,2-Tetrachloroethane

Concen: 23.62 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. 0.00 min

Lab File: VN051052.D

Acq: 7 Sep 2018 14:36

Instrument :

MSVOA_N

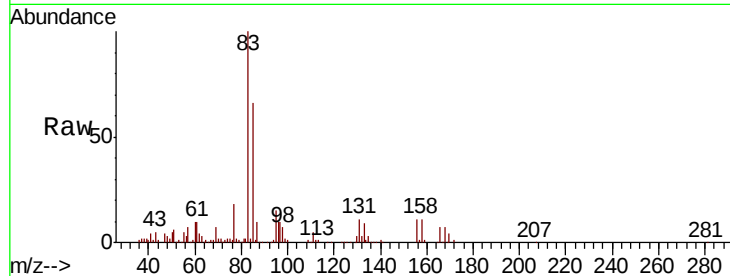
ClientSampleId :

VN0907MBSD01

Tot Ion:	83	Resp:	189479
Ion Ratio	Lower	Upper	
83	100		
131	10.1	5.3	15.9
85	66.8	31.9	95.7

Manual Integrations
APPROVED

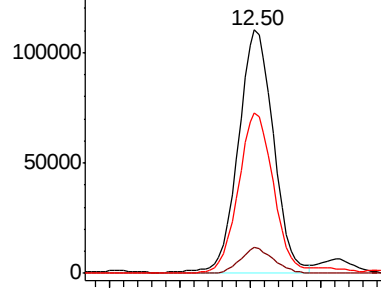
MMDadoda
9/10/2018 11:53:41 AM



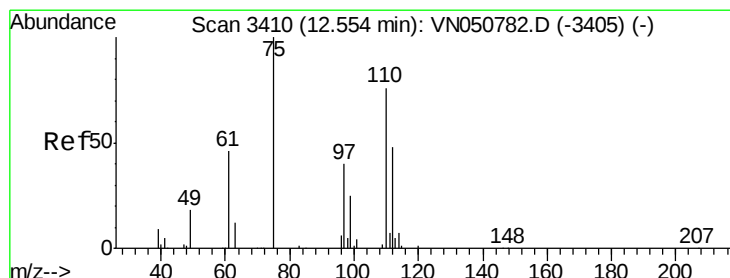
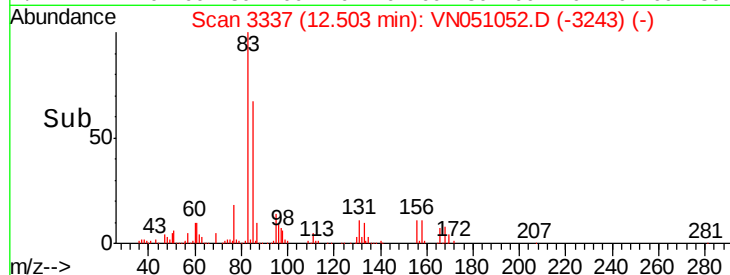
Abundance Ion 82.90 (82.60 to 83.60): VN051052.D (-3337) (-)

Ion 130.80 (130.50 to 131.50): VN051052.D (-3337) (-)

Ion 84.90 (84.60 to 85.60): VN051052.D (-3337) (-)



Time-->



#76

1,2,3-Trichloropropane

Concen: 21.26 ug/l m

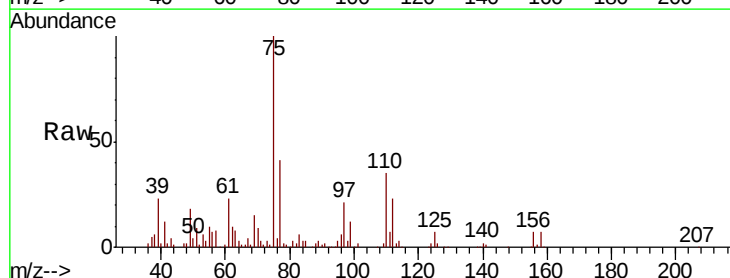
RT: 12.55 min Scan# 3353

Delta R.T. 0.00 min

Lab File: VN051052.D

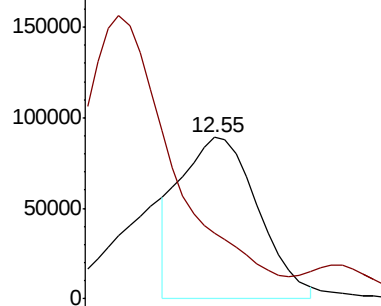
Acq: 7 Sep 2018 14:36

Tgt Ion:	75	Resp:	146013
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0

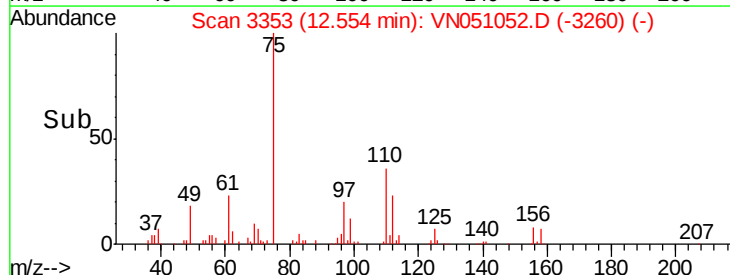


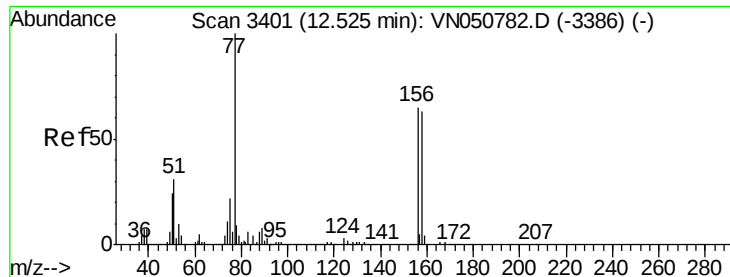
Abundance Ion 74.90 (74.60 to 75.60): VN051052.D (-3353) (-)

Ion 77.00 (76.70 to 77.70): VN051052.D (-3353) (-)



Time-->





#77

Bromobenzene

Concen: 20.20 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. 0.00 min

Lab File: VN051052.D

Acq: 7 Sep 2018 14:36

Instrument :

MSVOA_N

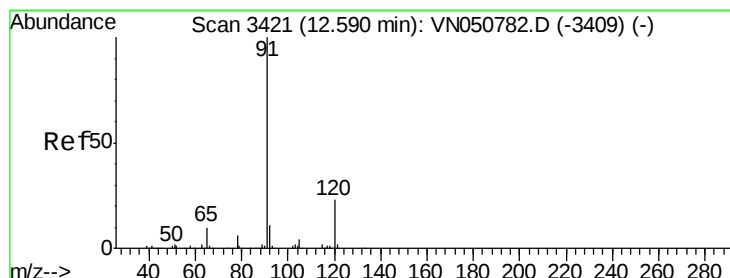
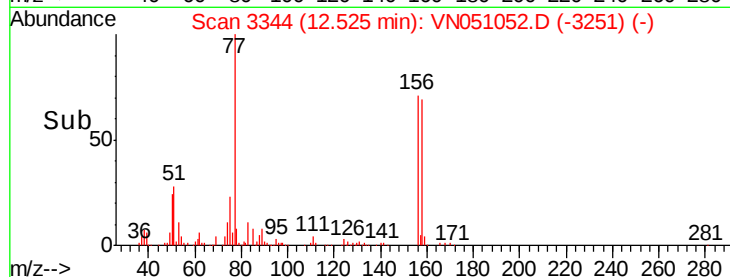
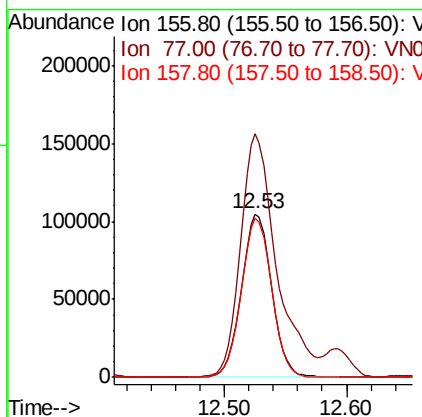
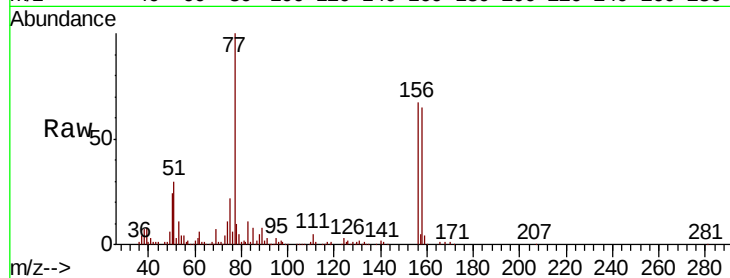
ClientSampleId :

VN0907MBSD01

Tot Ion:	156	Resp:	178206
Ion Ratio	Lower	Upper	
156	100		
77	178.1	89.9	269.7
158	97.7	49.3	147.9

Manual Integrations
APPROVED

MMDadoda
9/10/2018 11:53:41 AM



#78

n-propylbenzene

Concen: 21.91 ug/l

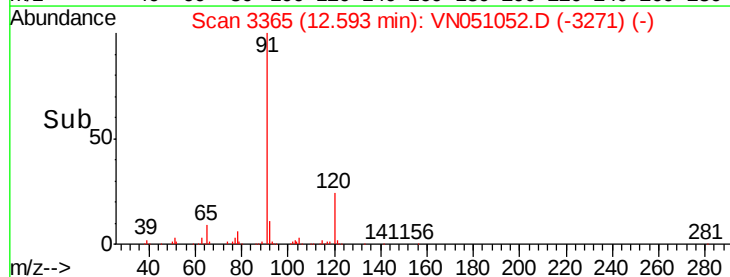
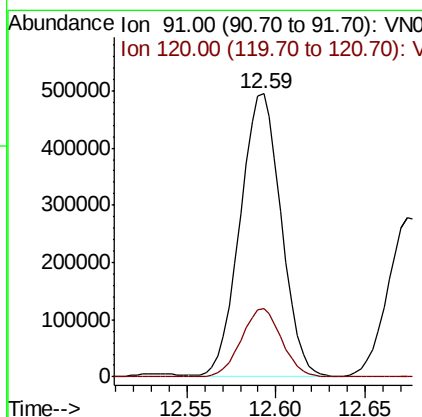
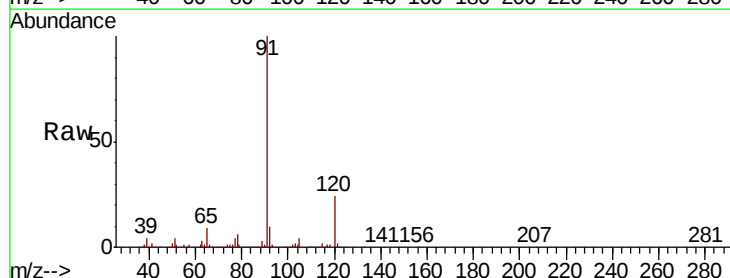
RT: 12.59 min Scan# 3365

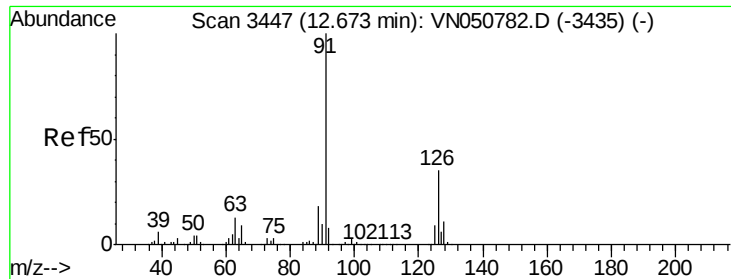
Delta R.T. 0.00 min

Lab File: VN051052.D

Acq: 7 Sep 2018 14:36

Tgt Ion:	91	Resp:	794594
Ion Ratio	Lower	Upper	
91	100		
120	23.7	11.7	35.0





#79

2-Chlorotoluene

Concen: 20.42 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. 0.00 min

Lab File: VN051052.D

Acq: 7 Sep 2018 14:36

Instrument :

MSVOA_N

ClientSampleId :

VN0907MBSD01

Tot Ion: 91 Resp: 461194

Ion Ratio Lower Upper

91 100

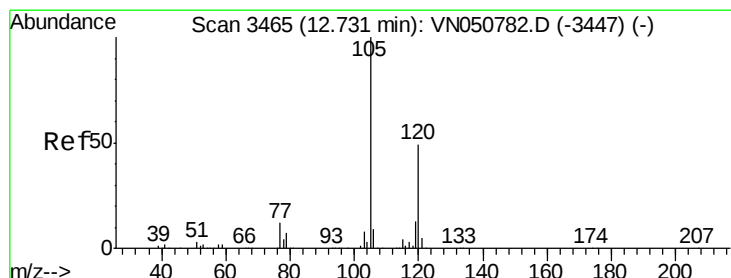
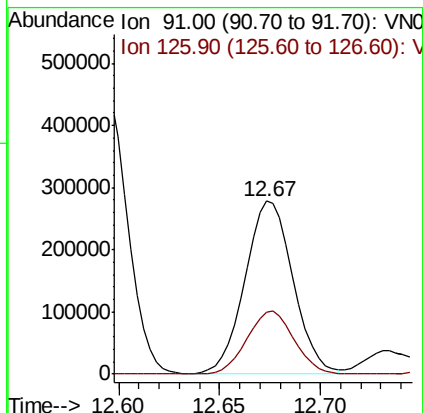
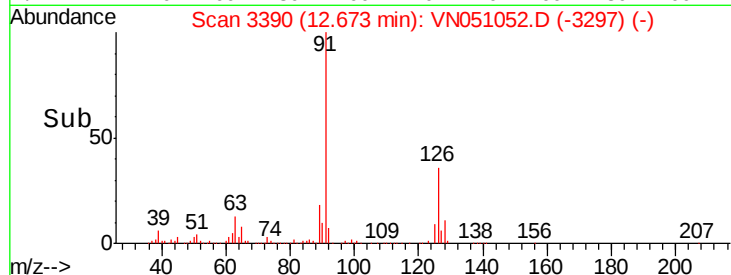
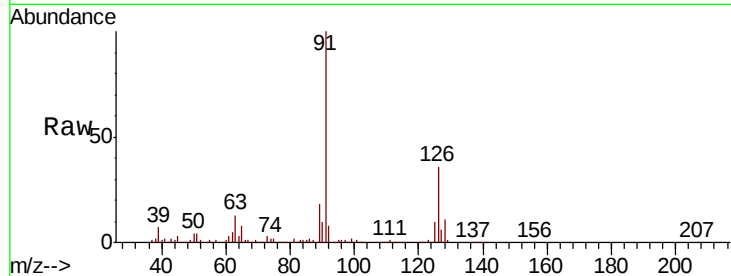
126 36.0 17.8 53.3

Manual Integrations

APPROVED

MMDadoda

9/10/2018 11:53:41 AM



#80

1,3,5-Trimethylbenzene

Concen: 21.46 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN051052.D

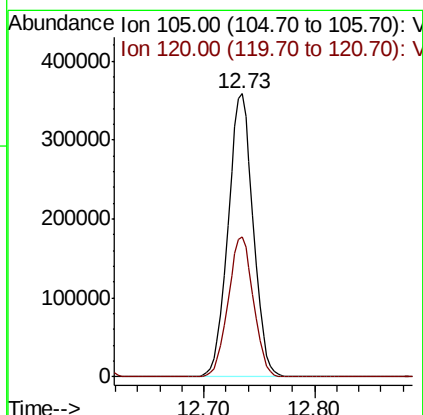
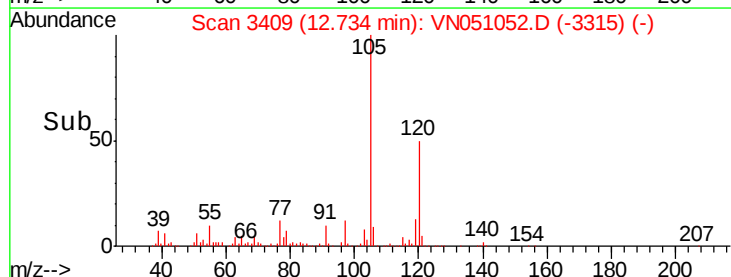
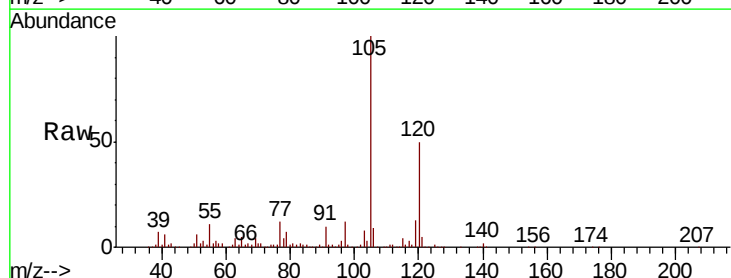
Acq: 7 Sep 2018 14:36

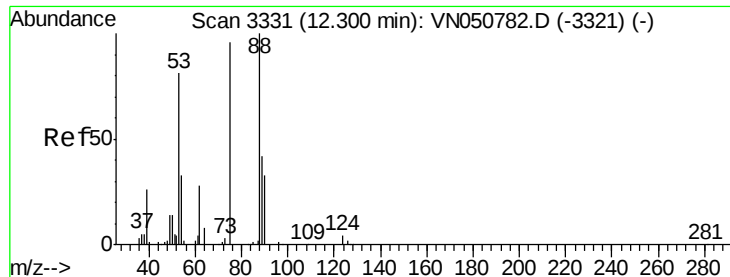
Tgt Ion: 105 Resp: 562224

Ion Ratio Lower Upper

105 100

120 50.2 24.6 74.0





#81

trans-1,4-Dichloro-2-butene

Concen: 21.88 ug/l

RT: 12.30 min Scan# 3274

Delta R.T. 0.00 min

Lab File: VN051052.D

Acq: 7 Sep 2018 14:36

Instrument :

MSVOA_N

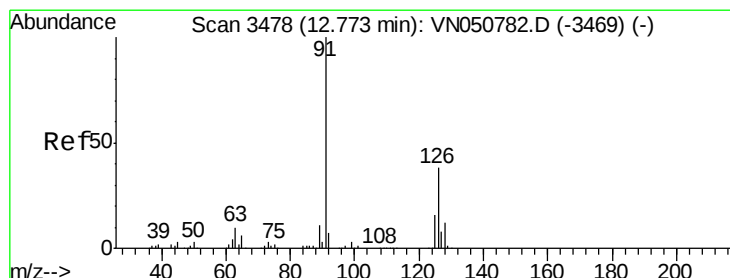
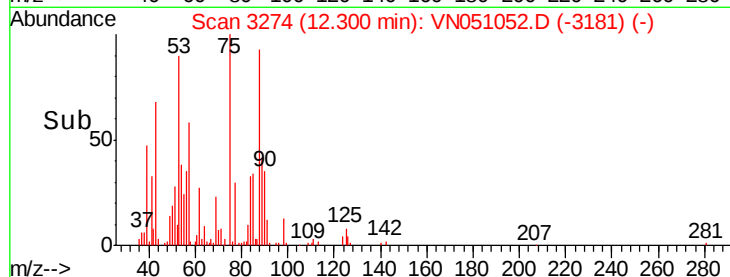
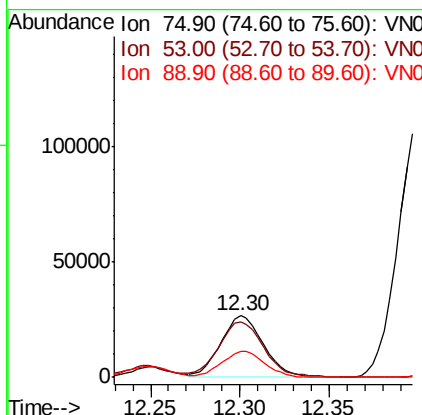
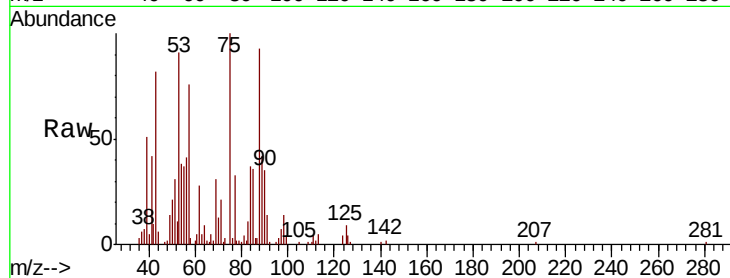
ClientSampleId :

VN0907MBSD01

Tot Ion:	75	Resp:	44451
Ion	Ratio	Lower	Upper
75	100		
53	93.8	68.9	103.3
89	42.7	36.1	54.1

Manual Integrations
APPROVED

MMDadoda
9/10/2018 11:53:41 AM



#82

4-Chlorotoluene

Concen: 20.52 ug/l

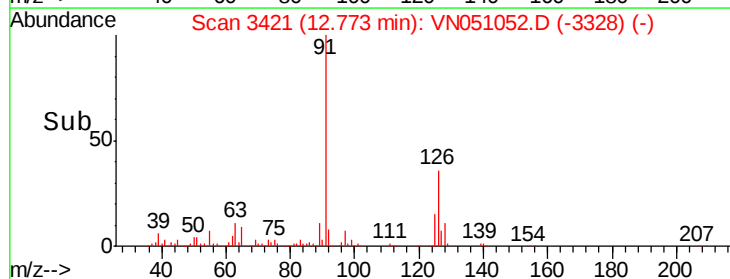
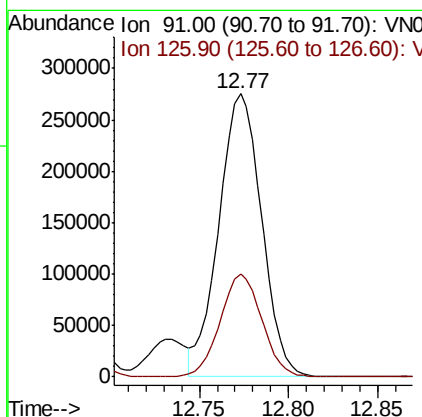
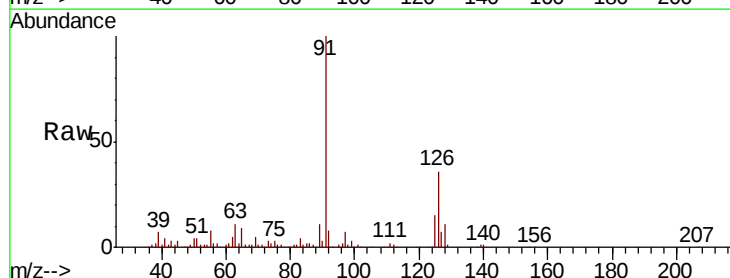
RT: 12.77 min Scan# 3421

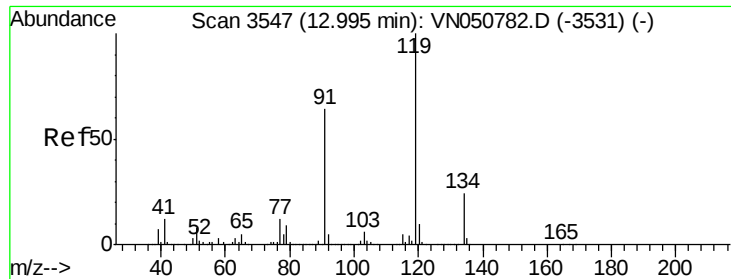
Delta R.T. 0.00 min

Lab File: VN051052.D

Acq: 7 Sep 2018 14:36

Tgt Ion:	91	Resp:	457519
Ion	Ratio	Lower	Upper
91	100		
126	35.6	17.5	52.5





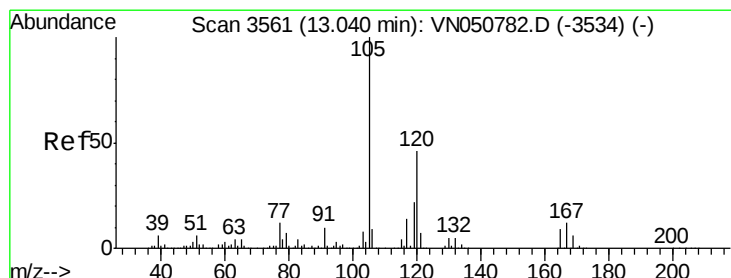
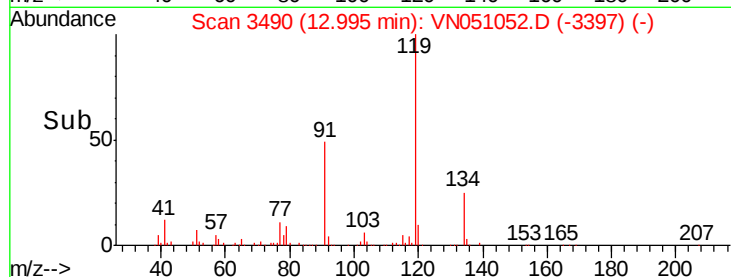
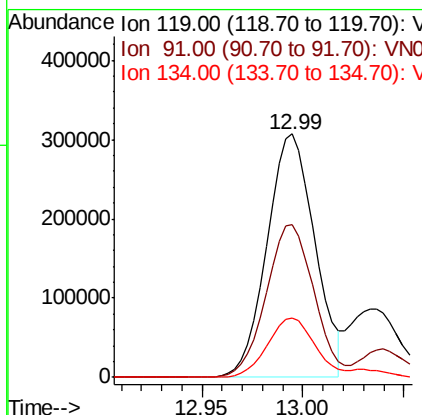
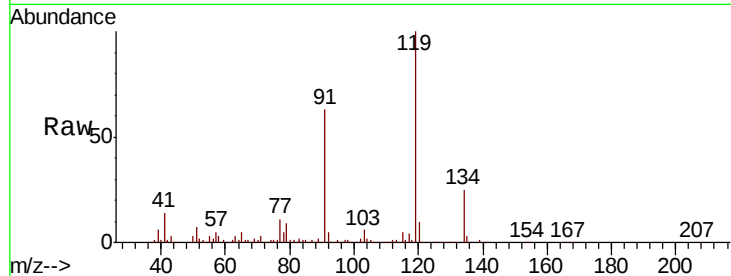
#83
 tert-Butylbenzene
 Concen: 22.30 ug/l
 RT: 12.99 min Scan# 3490
 Delta R.T. 0.00 min
 Lab File: VN051052.D
 Acq: 7 Sep 2018 14:36

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0907MBSD01

Tot Ion	Ratio	Resp	Lower	Upper
119	100	505862		
91	62.1		31.6	94.7
134	24.6		13.4	40.1

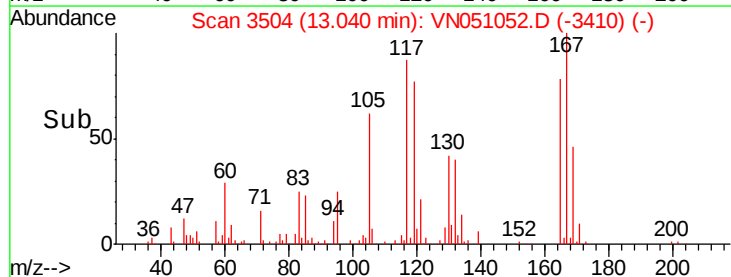
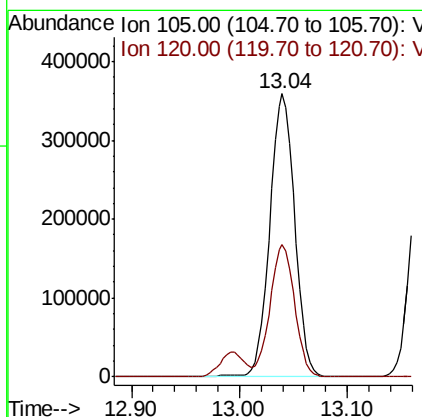
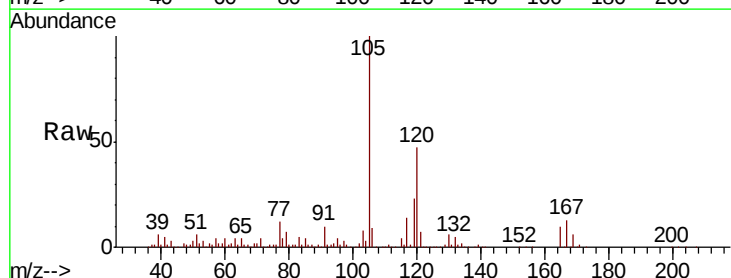
Manual Integrations
 APPROVED

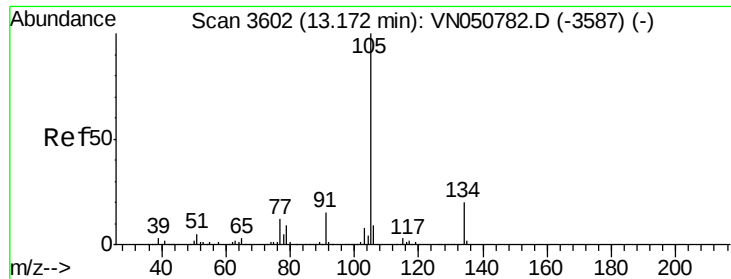
MMDadoda
 9/10/2018 11:53:41 AM



#84
 1,2,4-Trimethylbenzene
 Concen: 21.77 ug/l
 RT: 13.04 min Scan# 3504
 Delta R.T. 0.00 min
 Lab File: VN051052.D
 Acq: 7 Sep 2018 14:36

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	573688		
120	46.2		22.9	68.8





#85

sec-Butylbenzene

Concen: 21.68 ug/l

RT: 13.17 min Scan# 3545

Delta R.T. 0.00 min

Lab File: VN051052.D

Acq: 7 Sep 2018 14:36

Instrument :

MSVOA_N

ClientSampleId :

VN0907MBSD01

Tot Ion:105 Resp: 644378

Ion Ratio Lower Upper

105 100

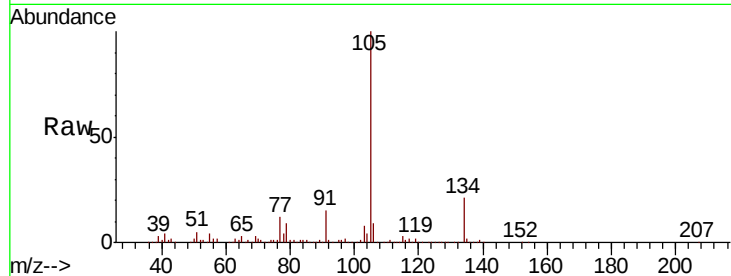
134 21.1 10.3 30.8

Manual Integrations

APPROVED

MMDadoda

9/10/2018 11:53:41 AM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

13.17

400000

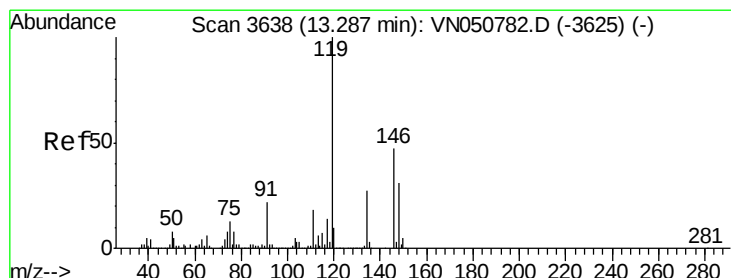
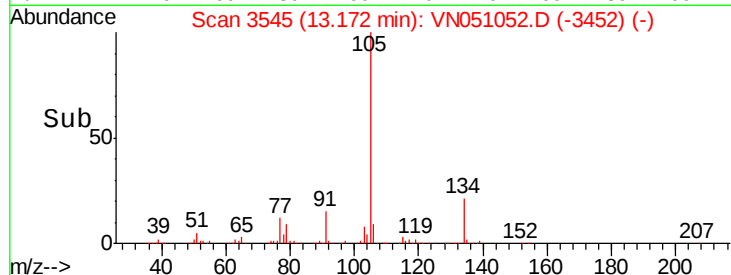
300000

200000

100000

0

Time--> 13.10 13.15 13.20 13.25



#86

p-Isopropyltoluene

Concen: 22.08 ug/l

RT: 13.29 min Scan# 3582

Delta R.T. 0.00 min

Lab File: VN051052.D

Acq: 7 Sep 2018 14:36

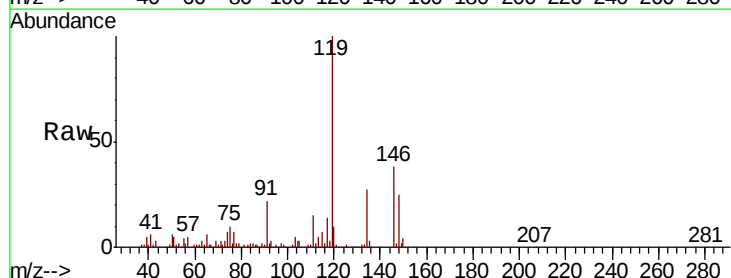
Tgt Ion:119 Resp: 559337

Ion Ratio Lower Upper

119 100

134 27.0 13.7 41.0

91 22.0 11.2 33.5



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V

13.29

500000

400000

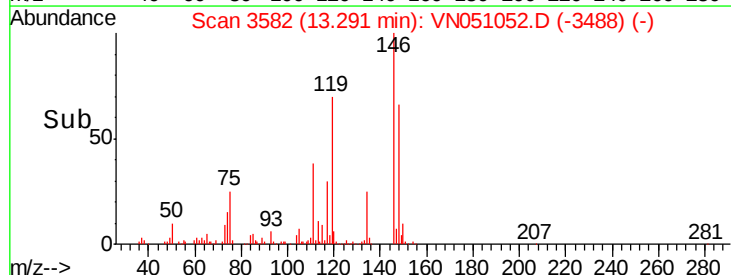
300000

200000

100000

0

Time--> 13.20 13.25 13.30 13.35





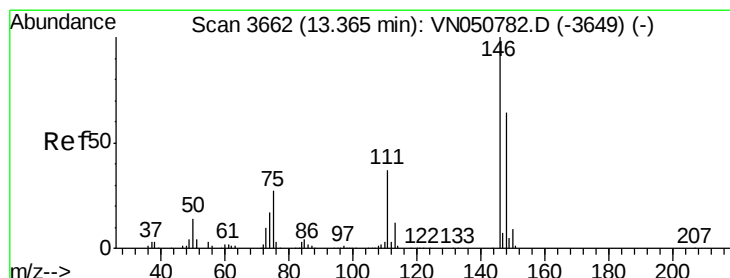
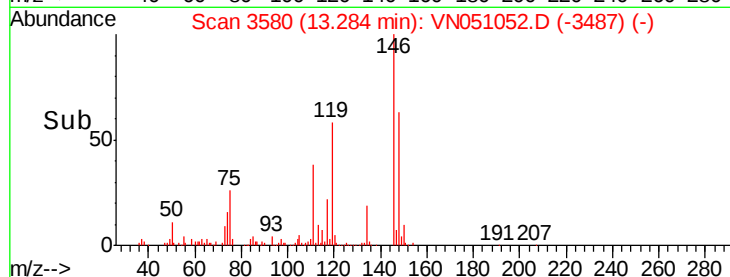
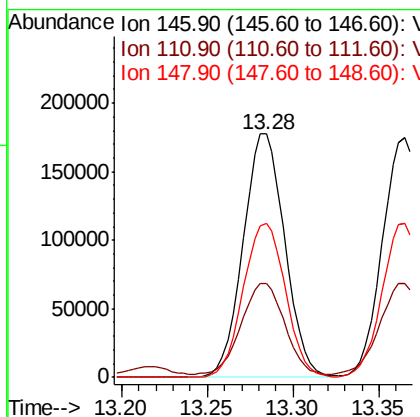
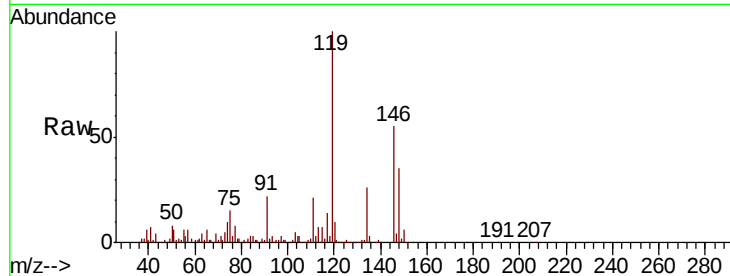
#87
 1,3-Dichlorobenzene
 Concen: 19.93 ug/l
 RT: 13.28 min Scan# 3580
 Delta R.T. 0.00 min
 Lab File: VN051052.D
 Acq: 7 Sep 2018 14:36

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0907MBSD01

Tot Ion	Ratio	Resp	Lower	Upper
146	100	298475		
111	38.7	19.1	57.3	
148	64.3	32.2	96.6	

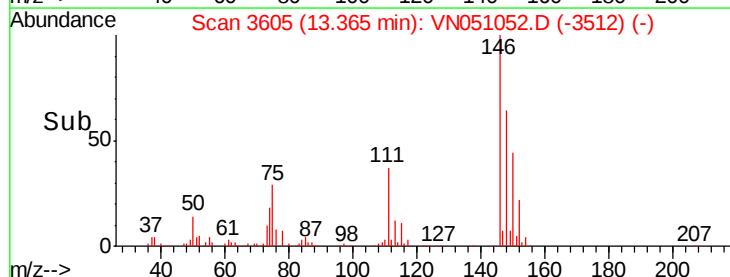
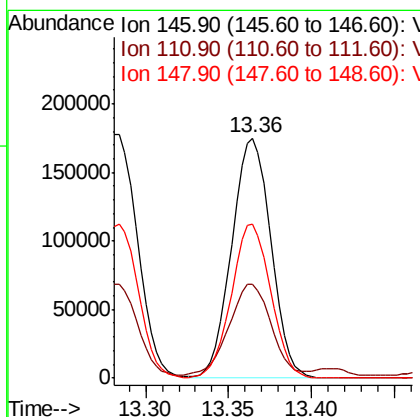
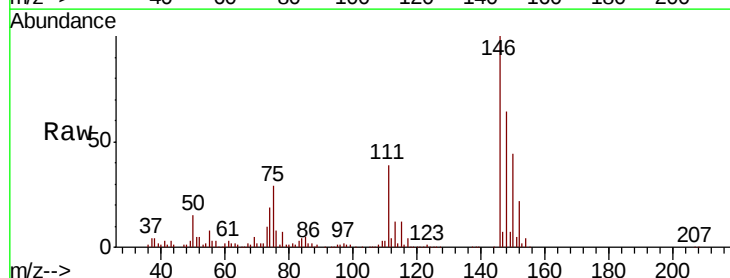
Manual Integrations
 APPROVED

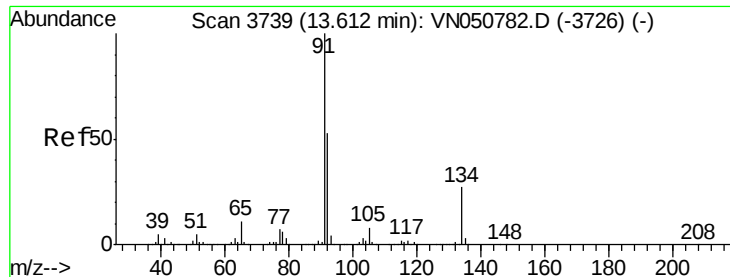
MMDadoda
 9/10/2018 11:53:41 AM



#88
 1,4-Dichlorobenzene
 Concen: 19.61 ug/l
 RT: 13.36 min Scan# 3605
 Delta R.T. 0.00 min
 Lab File: VN051052.D
 Acq: 7 Sep 2018 14:36

Tgt Ion	Ratio	Resp	Lower	Upper
146	100	289040		
111	40.5	18.8	56.3	
148	64.3	32.2	96.6	





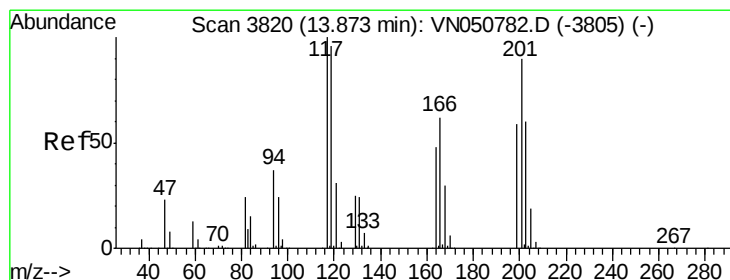
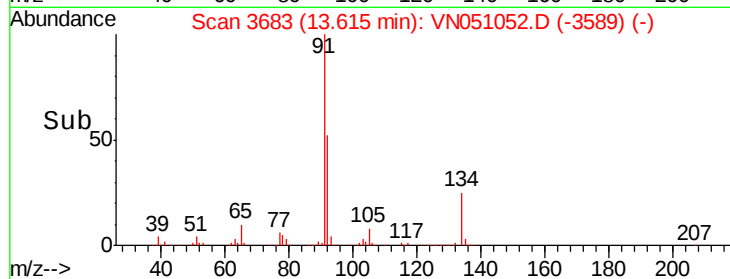
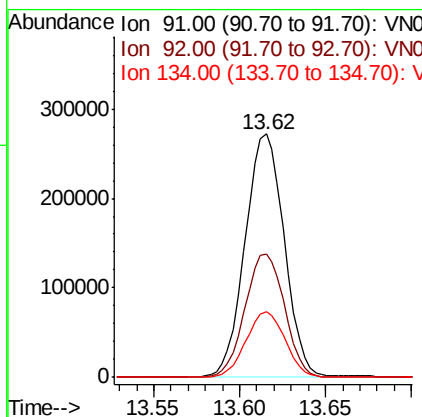
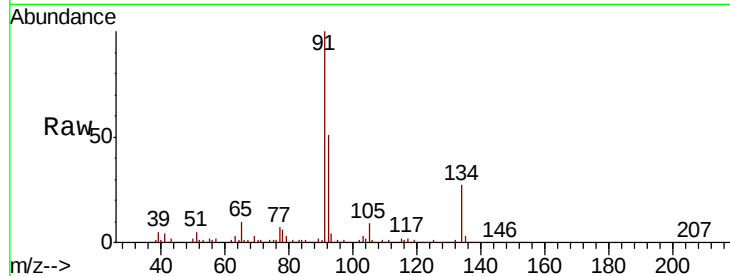
#89
n-Butylbenzene
Concen: 21.10 ug/l
RT: 13.62 min Scan# 3683
Delta R.T. 0.00 min
Lab File: VN051052.D
Acq: 7 Sep 2018 14:36

Instrument :
MSVOA_N
ClientSampled :
VN0907MBSD01

Tot Ion	Ratio	Lower	Upper
91	100		
92	51.7	26.1	78.2
134	27.2	13.2	39.6

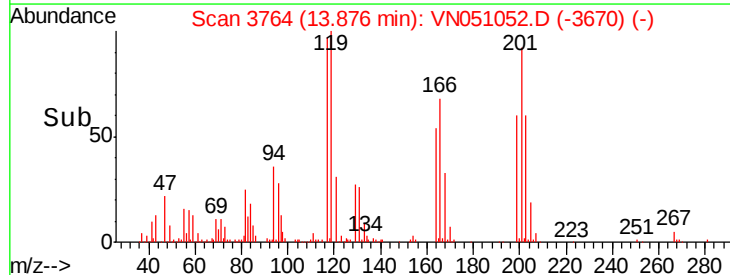
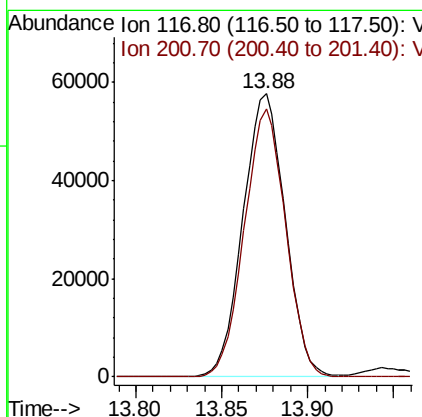
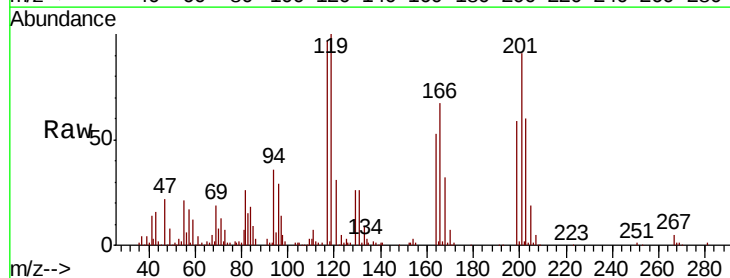
Manual Integrations
APPROVED

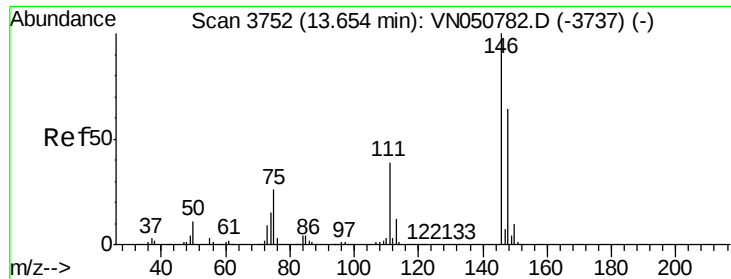
MMDadoda
9/10/2018 11:53:41 AM



#90
Hexachloroethane
Concen: 20.47 ug/l
RT: 13.88 min Scan# 3764
Delta R.T. 0.00 min
Lab File: VN051052.D
Acq: 7 Sep 2018 14:36

Tgt Ion	Ratio	Lower	Upper
117	100		
201	92.5	46.0	137.8





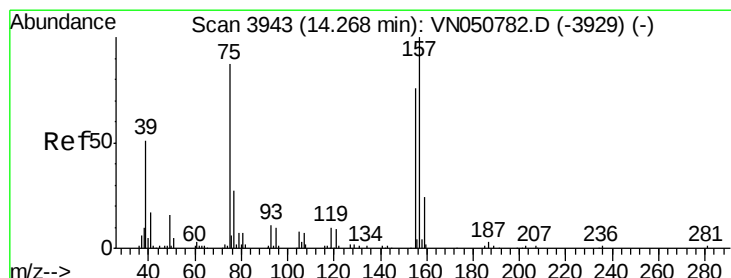
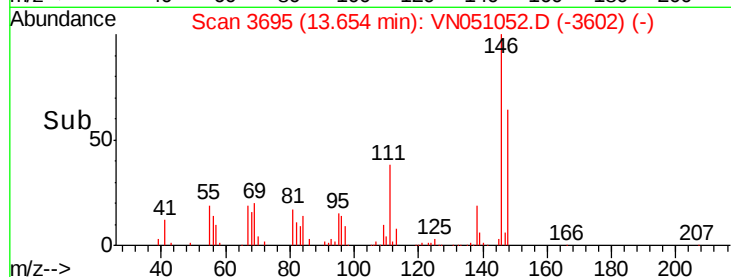
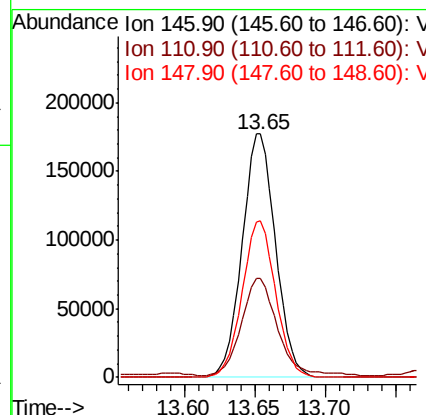
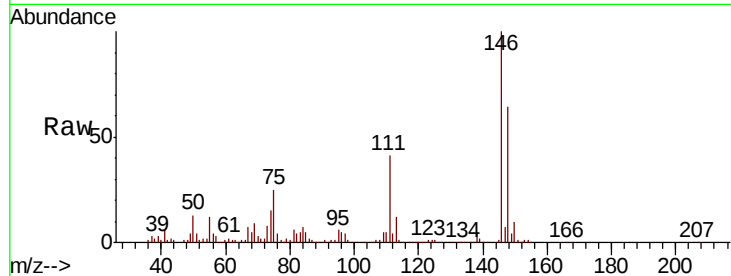
#91
 1,2-Dichlorobenzene
 Concen: 20.37 ug/l
 RT: 13.65 min Scan# 3695
 Delta R.T. 0.00 min
 Lab File: VN051052.D
 Acq: 7 Sep 2018 14:36

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0907MBSD01

Tot Ion	Ratio	Lower	Upper
146	100		
111	43.2	19.8	59.3
148	64.3	32.3	96.8

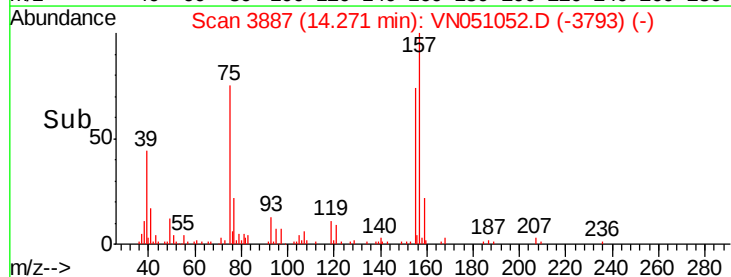
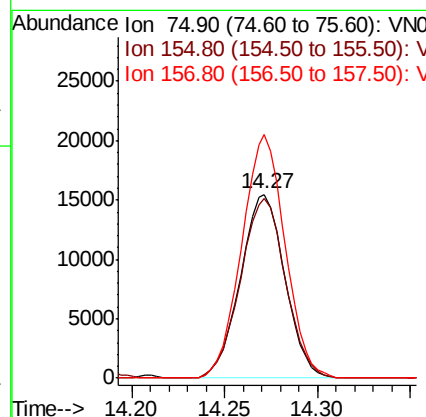
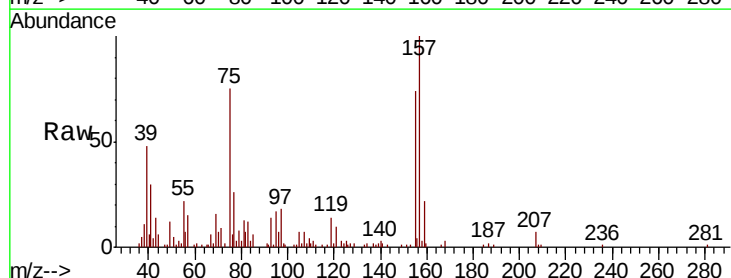
Manual Integrations
 APPROVED

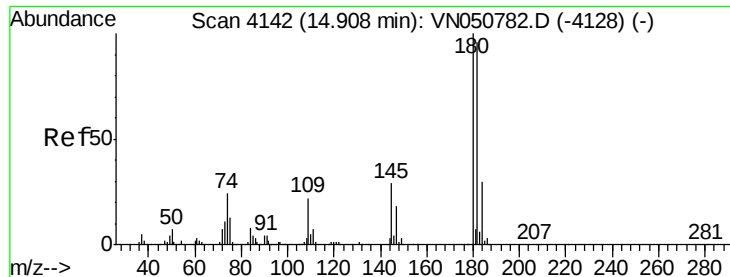
MMDadoda
 9/10/2018 11:53:41 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 22.08 ug/l
 RT: 14.27 min Scan# 3887
 Delta R.T. 0.00 min
 Lab File: VN051052.D
 Acq: 7 Sep 2018 14:36

Tgt Ion	Ratio	Lower	Upper
75	100		
155	99.1	46.4	139.1
157	129.1	60.7	182.0





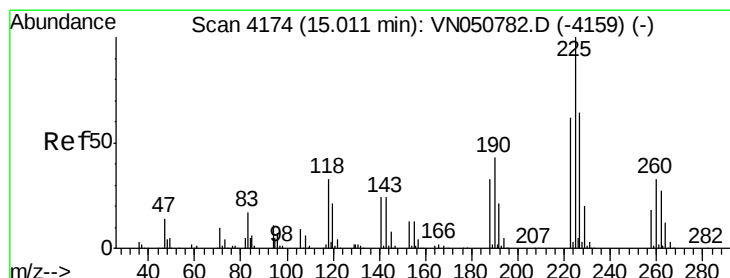
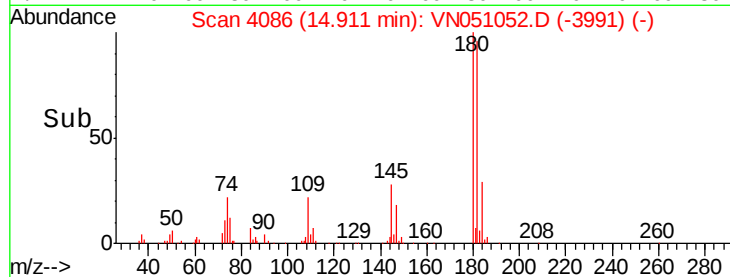
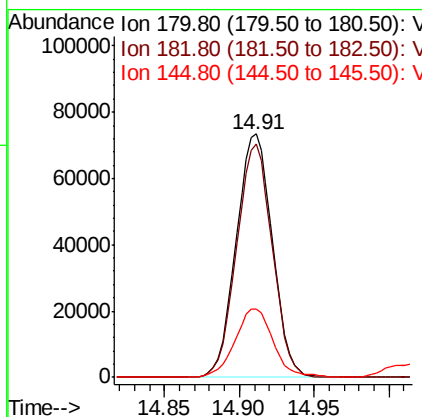
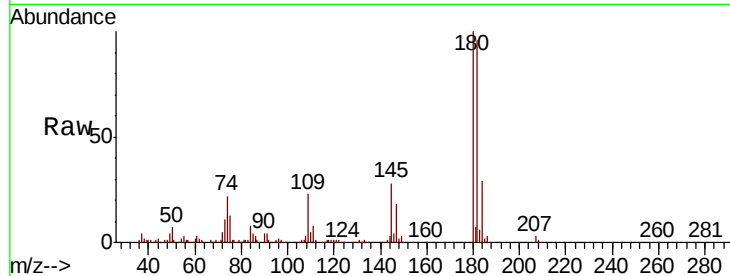
#93
 1,2,4-Trichlorobenzene
 Concen: 19.15 ug/l
 RT: 14.91 min Scan# 4086
 Delta R.T. 0.00 min
 Lab File: VN051052.D
 Acq: 7 Sep 2018 14:36

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0907MBS01

Tot Ion:	180	Resp:	123271
Ion Ratio	Lower	Upper	
180	100		
182	94.5	48.2	144.6
145	30.0	14.1	42.2

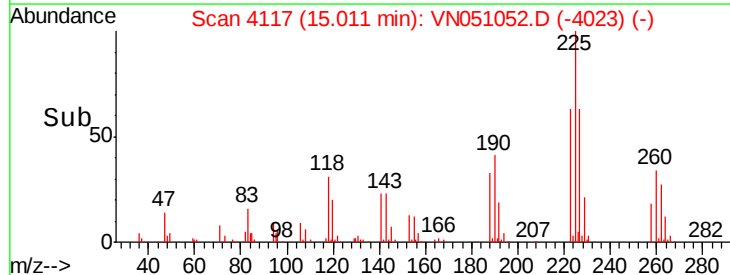
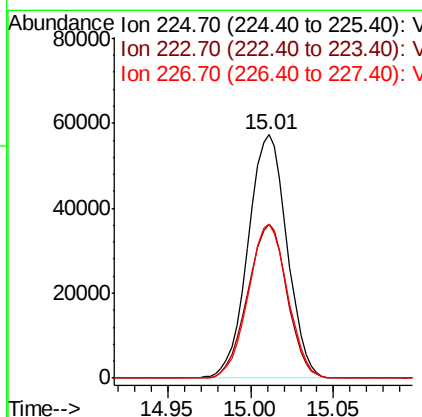
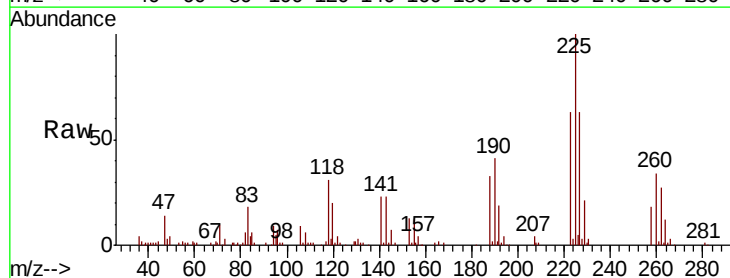
Manual Integrations
 APPROVED

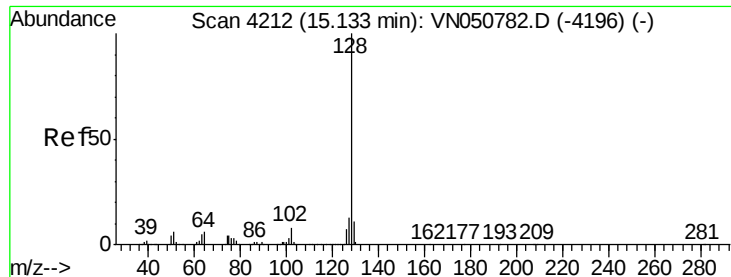
MMDadoda
 9/10/2018 11:53:41 AM



#94
 Hexachlorobutadiene
 Concen: 21.19 ug/l
 RT: 15.01 min Scan# 4117
 Delta R.T. 0.00 min
 Lab File: VN051052.D
 Acq: 7 Sep 2018 14:36

Tgt Ion:	225	Resp:	93498
Ion Ratio	Lower	Upper	
225	100		
223	63.7	31.3	93.8
227	63.6	32.0	96.2





#95

Naphthalene

Concen: 19.72 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN051052.D

Acq: 7 Sep 2018 14:36

Instrument :

MSVOA_N

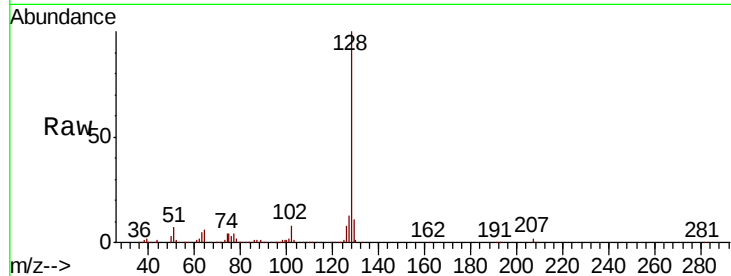
ClientSampleId :

VN0907MBSD01

Tot Ion:	128	Resp:	251518
Ion Ratio	Lower	Upper	
128	100		
127	13.1	10.5	15.7
129	10.9	8.7	13.1

Manual Integrations
APPROVED

MMDadoda
9/10/2018 11:53:41 AM



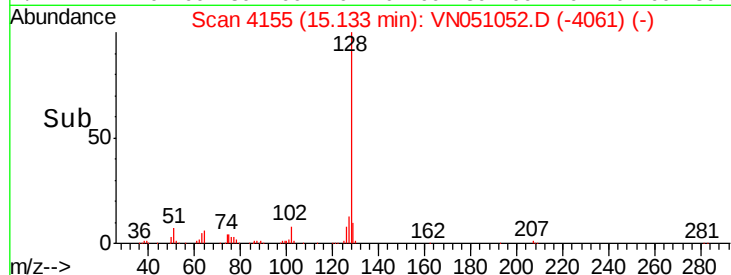
Abundance

Ion 128.00 (127.70 to 128.70): V

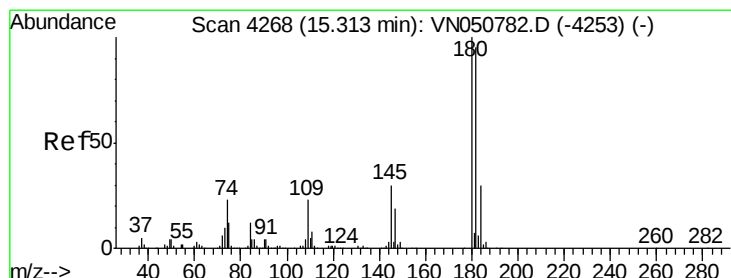
Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

15.13



Time-->



#96

1,2,3-Trichlorobenzene

Concen: 19.95 ug/l

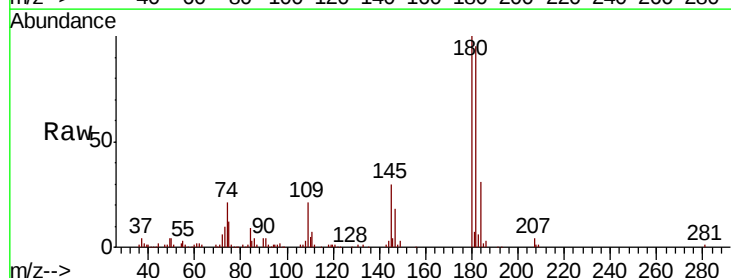
RT: 15.32 min Scan# 4212

Delta R.T. 0.00 min

Lab File: VN051052.D

Acq: 7 Sep 2018 14:36

Tgt Ion:	180	Resp:	125612
Ion Ratio	Lower	Upper	
180	100		
182	96.2	48.0	144.2
145	31.3	15.2	45.6



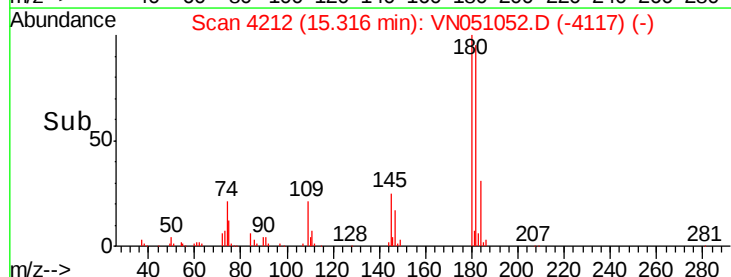
Abundance

Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

15.32



Time-->