

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN112119\
 Data File : VN059344.D
 Acq On : 21 Nov 2019 18:24
 Operator : JC/SP
 Sample : K5957-08MS
 Misc : 4.99µL/100µL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-4-(12-14)MS

Manual Integrations
 APPROVED

MMDadoda
 11/22/2019 3:12:50 PM

Quant Time: Nov 22 07:08:55 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N112019W.M
 Quant Title : SW846 8260
 QLast Update : Thu Nov 21 08:44:45 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	415186	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	654535	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	576742	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	295454	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.00	65	261791	52.55	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.10%	
35) Dibromofluoromethane	7.57	113	209070	53.24	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.48%	
50) Toluene-d8	10.08	98	840862	53.86	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.72%	
62) 4-Bromofluorobenzene	12.40	95	317371	58.14	ug/l	0.00
Spiked Amount	50.000		Recovery	=	116.28%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.83	85	222637	41.886	ug/l	99
3) Chloromethane	2.04	50	264892	40.680	ug/l	99
4) Vinyl Chloride	2.17	62	290447	43.323	ug/l	99
5) Bromomethane	2.50	94	65153	17.505	ug/l	98
6) Chloroethane	2.62	64	81552	22.289	ug/l	99
7) Trichlorofluoromethane	2.94	101	234939	32.543	ug/l	98
8) Diethyl Ether	3.38	74	130191	44.111	ug/l	98
9) 1,1,2-Trichlorotrifluoroet	3.71	101	188976	42.808	ug/l	99
10) Methyl Iodide	3.91	142	225744	41.146	ug/l	98
11) Tert butyl alcohol	4.84	59	215144m	215.710	ug/l	
12) 1,1-Dichloroethene	3.69	96	189699	42.334	ug/l	92
13) Acrolein	3.58	56	185335	203.564	ug/l	99
14) Allyl chloride	4.28	41	322725	38.552	ug/l	97
15) Acrylonitrile	4.96	53	565861	214.579	ug/l	100
16) Acetone	3.80	43	439167	196.615	ug/l	97
17) Carbon Disulfide	4.00	76	588851	41.953	ug/l	100
18) Methyl Acetate	4.29	43	338621	45.681	ug/l	98
19) Methyl tert-butyl Ether	5.01	73	645964	44.632	ug/l	100
20) Methylene Chloride	4.52	84	210202	41.726	ug/l	98
21) trans-1,2-Dichloroethene	5.00	96	207386	43.669	ug/l	98
22) Diisopropyl ether	5.92	45	688120	43.659	ug/l	99
23) Vinyl Acetate	5.86	43	2740666	221.126	ug/l	100
24) 1,1-Dichloroethane	5.81	63	388865	43.833	ug/l	99
25) 2-Butanone	6.82	43	730734	210.387	ug/l	99
26) 2,2-Dichloropropane	6.79	77	323133	42.065	ug/l	100
27) cis-1,2-Dichloroethene	6.80	96	229771	42.882	ug/l	100
28) Bromochloromethane	7.17	49	161526	44.948	ug/l	96
29) Tetrahydrofuran	7.19	42	504313	209.986	ug/l	98
30) Chloroform	7.35	83	365419	42.427	ug/l	98
31) Cyclohexane	7.63	56	369731	42.151	ug/l	99
32) 1,1,1-Trichloroethane	7.54	97	316178	42.745	ug/l	99
36) 1,1-Dichloropropene	7.77	75	295489	43.730	ug/l	99
37) Ethyl Acetate	6.91	43	294484	40.551	ug/l	98
38) Carbon Tetrachloride	7.75	117	278362	43.032	ug/l	100

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN112119\
 Data File : VN059344.D
 Acq On : 21 Nov 2019 18:24
 Operator : JC/SP
 Sample : K5957-08MS
 Misc : 4.99µL/10mL/100µL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleID :
 MW-4-(12-14)MS

Manual Integrations
 APPROVED

MMDadoda
 11/22/2019 3:12:50 PM

Quant Time: Nov 22 07:08:55 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N112019W.M
 Quant Title : SW846 8260
 QLast Update : Thu Nov 21 08:44:45 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.07	83	365322	44.835	ug/l	99
40) Benzene	8.02	78	870906	43.914	ug/l	99
41) Methacrylonitrile	7.16	41	129033m	40.025	ug/l	
42) 1,2-Dichloroethane	8.10	62	282417	43.058	ug/l	99
43) Isopropyl Acetate	8.15	43	480924	43.333	ug/l #	92
44) Trichloroethene	8.82	130	218910	43.554	ug/l	97
45) 1,2-Dichloropropane	9.10	63	230788	43.641	ug/l	97
46) Dibromomethane	9.19	93	139781	43.092	ug/l	99
47) Bromodichloromethane	9.39	83	280112	43.118	ug/l	100
48) Methyl methacrylate	9.19	41	216716	42.940	ug/l	98
49) 1,4-Dioxane	9.20	88	75091	989.968	ug/l	96
51) 4-Methyl-2-Pentanone	9.98	43	1418788	218.404	ug/l	99
52) Toluene	10.15	92	529125	44.372	ug/l	100
53) t-1,3-Dichloropropene	10.37	75	334241	44.260	ug/l	99
54) cis-1,3-Dichloropropene	9.83	75	368308	44.945	ug/l	100
55) 1,1,2-Trichloroethane	10.56	97	202641	43.706	ug/l	98
56) Ethyl methacrylate	10.43	69	321720	41.476	ug/l	98
57) 1,3-Dichloropropane	10.70	76	352429	43.612	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.69	63	628890	221.648	ug/l	100
59) 2-Hexanone	10.75	43	1075670	226.134	ug/l	100
60) Dibromochloromethane	10.90	129	211029	43.193	ug/l	100
61) 1,2-Dibromoethane	11.00	107	210309	43.594	ug/l	99
64) Tetrachloroethene	10.63	164	189106	42.395	ug/l	98
65) Chlorobenzene	11.43	112	540234	43.563	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.51	131	195144	43.316	ug/l	99
67) Ethyl Benzene	11.51	91	1010533	45.638	ug/l	100
68) m/p-Xylenes	11.62	106	753821	91.620	ug/l	99
69) o-Xylene	11.95	106	362455	46.016	ug/l	99
70) Styrene	11.96	104	586329	47.175	ug/l	99
71) Bromoform	12.13	173	150295	44.050	ug/l #	99
73) Isopropylbenzene	12.25	105	980357	40.505	ug/l	100
74) N-amyl acetate	12.07	43	373873m	38.437	ug/l	
75) 1,1,2,2-Tetrachloroethane	12.51	83	355304	44.378	ug/l	90
76) 1,2,3-Trichloropropane	12.56	75	279558m	40.957	ug/l	
77) Bromobenzene	12.53	156	229509	39.095	ug/l	95
78) n-propylbenzene	12.59	91	1186116	43.264	ug/l	99
79) 2-Chlorotoluene	12.68	91	671530	39.906	ug/l	98
80) 1,3,5-Trimethylbenzene	12.73	105	846807	41.620	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.30	75	113016	41.413	ug/l #	80
82) 4-Chlorotoluene	12.77	91	688418	39.533	ug/l	97
83) tert-Butylbenzene	12.99	119	713599	41.528	ug/l	99
84) 1,2,4-Trimethylbenzene	13.04	105	937790	47.053	ug/l	100
85) sec-Butylbenzene	13.17	105	1044355	45.219	ug/l	97
86) p-Isopropyltoluene	13.29	119	889896	43.300	ug/l	100
87) 1,3-Dichlorobenzene	13.28	146	415159	39.711	ug/l #	81
88) 1,4-Dichlorobenzene	13.36	146	410337	39.670	ug/l #	81
89) n-Butylbenzene	13.62	91	883511	49.006	ug/l	97
90) Hexachloroethane	13.88	117	185089	47.554	ug/l	84
91) 1,2-Dichlorobenzene	13.66	146	401395	39.684	ug/l #	66
92) 1,2-Dibromo-3-Chloropropan	14.27	75	64490	37.886	ug/l	96

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN112119\
 Data File : VN059344.D
 Acq On : 21 Nov 2019 18:24
 Operator : JC/SP
 Sample : K5957-08MS
 Misc : 4.99g/10mL/100uL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-4-(12-14)MS

Manual Integrations
 APPROVED

MMDadoda
 11/22/2019 3:12:50 PM

Quant Time: Nov 22 07:08:55 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N112019W.M
 Quant Title : SW846 8260
 QLast Update : Thu Nov 21 08:44:45 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	265680	42.688	ug/l #	88
94) Hexachlorobutadiene	15.01	225	161002	44.180	ug/l	100
95) Naphthalene	15.13	128	767338	44.428	ug/l	100
96) 1,2,3-Trichlorobenzene	15.30	180	258520	42.177	ug/l	94

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

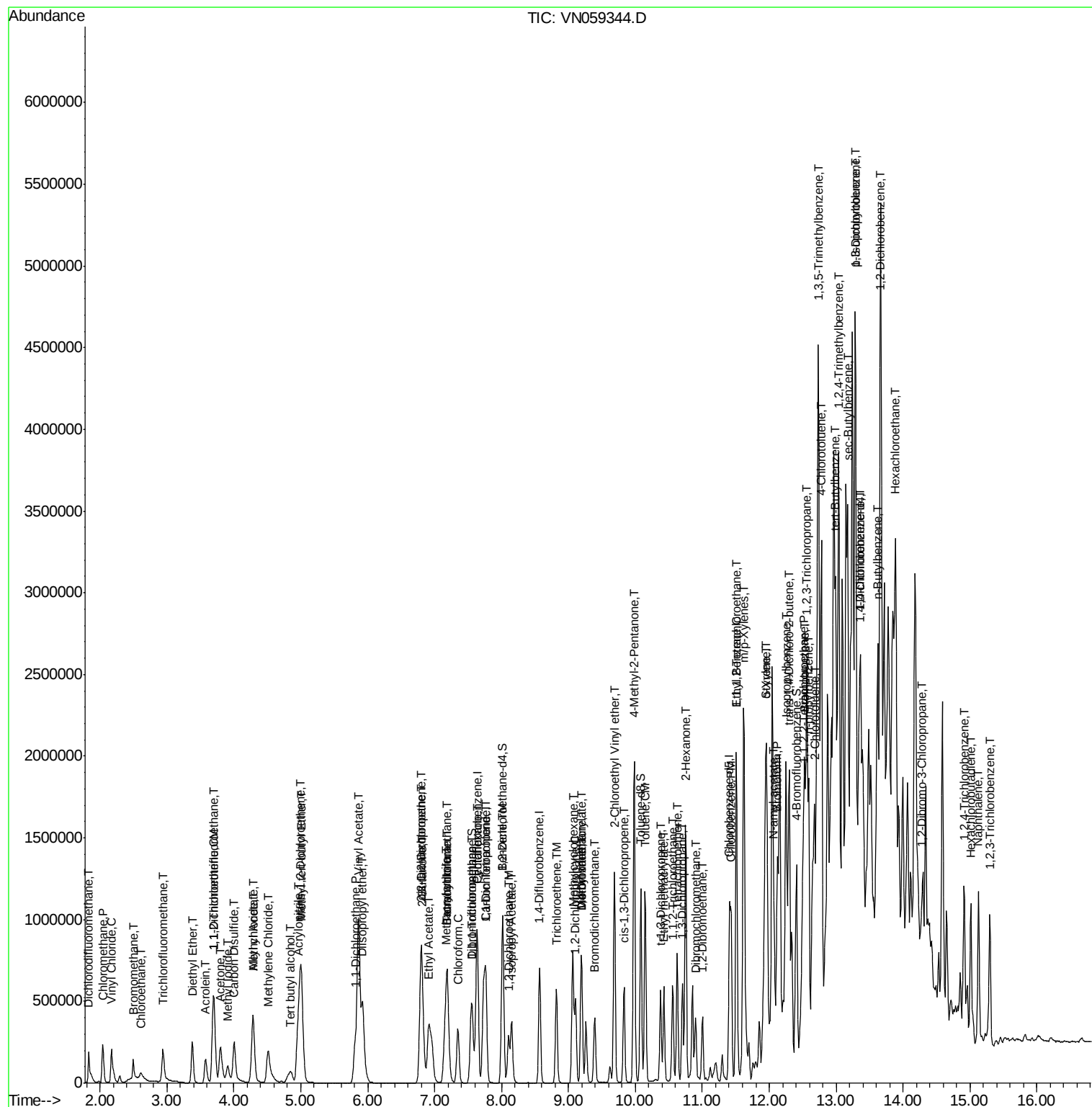
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN112119\
Data File : VN059344.D
Acq On : 21 Nov 2019 18:24
Operator : JC/SP
Sample : K5957-08MS
Misc : 4.99q/10mL/100uL/5.00mL/MSVOA_N/MEOH
ALS Vial : 19 Sample Multiplier: 1

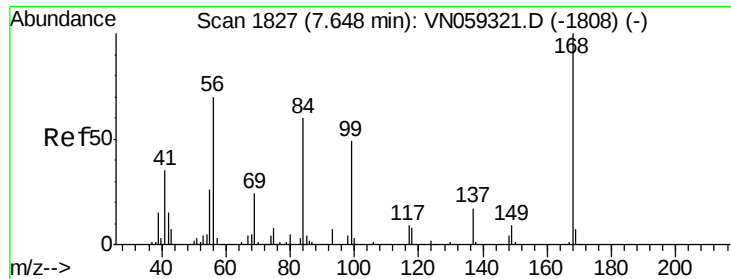
Instrument :
MSVOA_N
ClientSampleId :
MW-4-(12-14)MS

Manual Integrations
APPROVED

MMDadoda
11/22/2019 3:12:50 PM

Quant Time: Nov 22 07:08:55 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N112019W.M
Quant Title : SW846 8260
QLast Update : Thu Nov 21 08:44:45 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. -0.00 min

Lab File: VN059344.D

Acq: 21 Nov 2019 18:24

Instrument :

MSVOA_N

ClientSampleId :

MW-4-(12-14)MS

Tot Ion:168 Resp: 415186

Ion Ratio Lower Upper

168 100

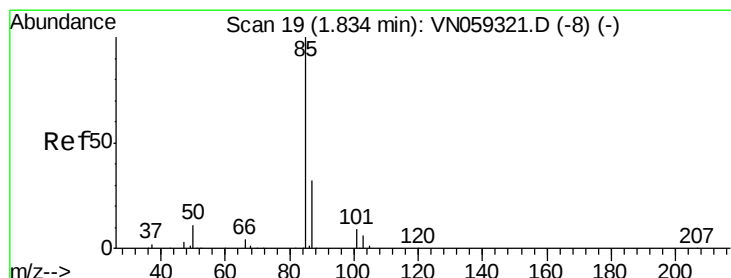
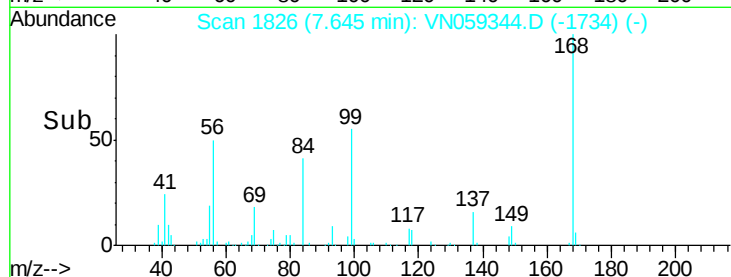
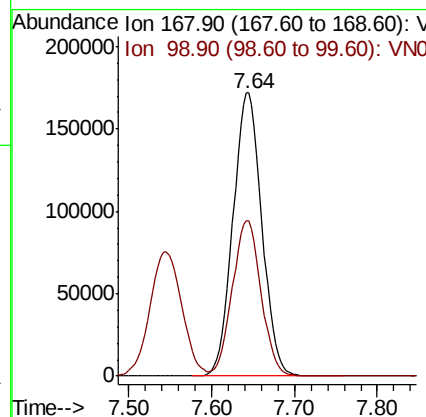
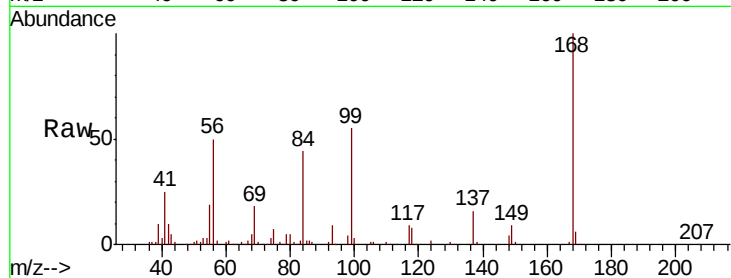
99 54.7 44.6 66.8

Manual Integrations

APPROVED

MMDadoda

11/22/2019 3:12:50 PM



#2

Dichlorodifluoromethane

Concen: 41.886 ug/l

RT: 1.83 min Scan# 18

Delta R.T. -0.00 min

Lab File: VN059344.D

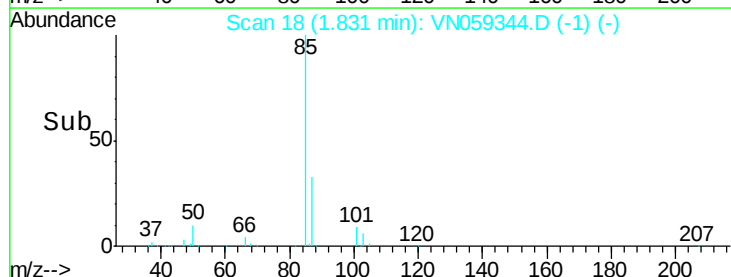
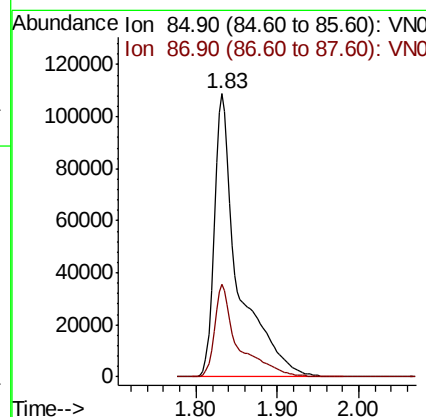
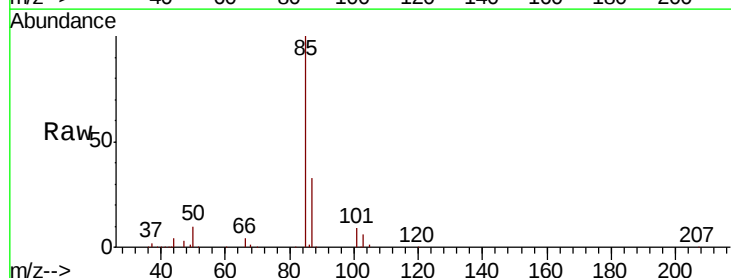
Acq: 21 Nov 2019 18:24

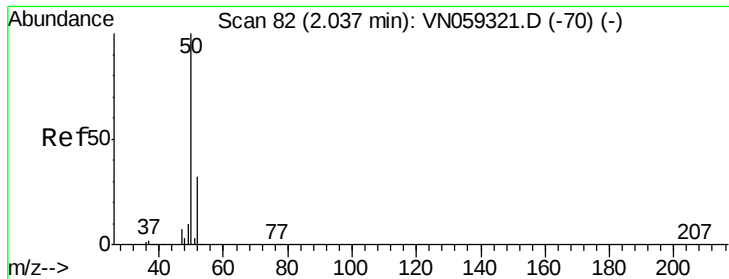
Tgt Ion: 85 Resp: 222637

Ion Ratio Lower Upper

85 100

87 32.5 16.0 48.0





#3

Chloromethane

Concen: 40.680 ug/l

RT: 2.04 min Scan# 83

Delta R.T. 0.00 min

Lab File: VN059344.D

Acq: 21 Nov 2019 18:24

Instrument :

MSVOA_N

ClientSampleId :

MW-4-(12-14)MS

Tot Ion: 50 Resp: 264892

Ion Ratio Lower Upper

50 100

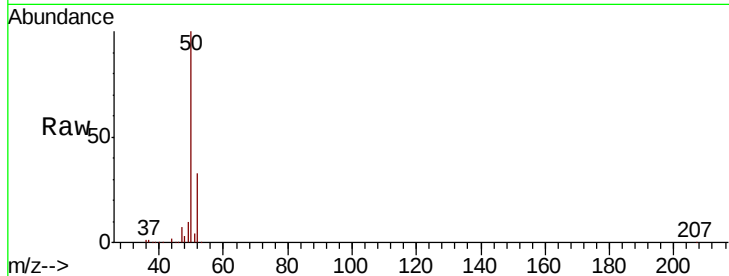
52 33.0 26.0 39.0

Manual Integrations

APPROVED

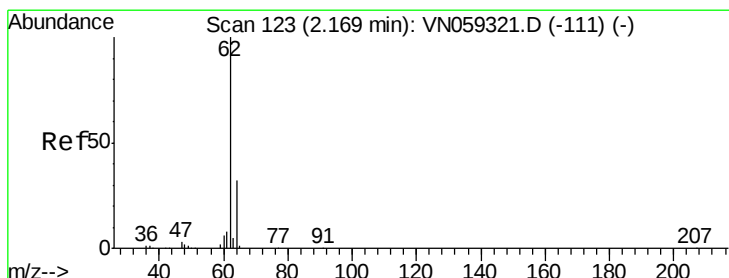
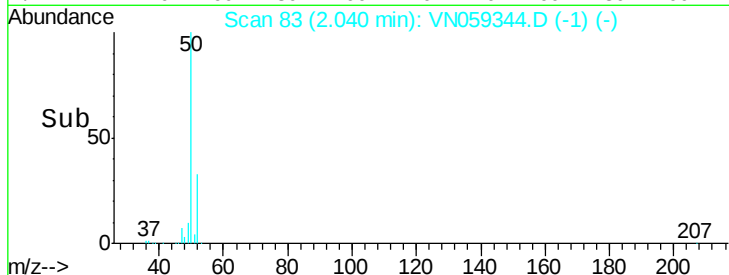
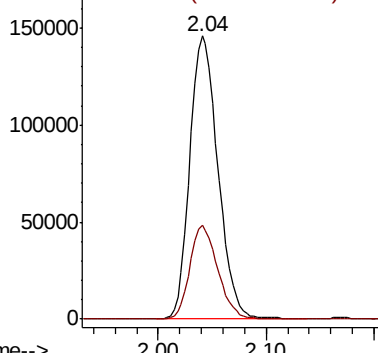
MMDadoda

11/22/2019 3:12:50 PM



Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO



#4

Vinyl Chloride

Concen: 43.323 ug/l

RT: 2.17 min Scan# 124

Delta R.T. 0.00 min

Lab File: VN059344.D

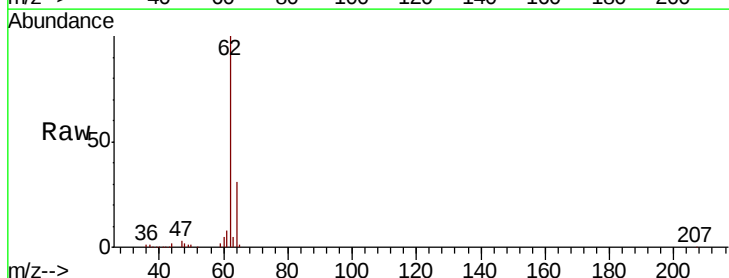
Acq: 21 Nov 2019 18:24

Tgt Ion: 62 Resp: 290447

Ion Ratio Lower Upper

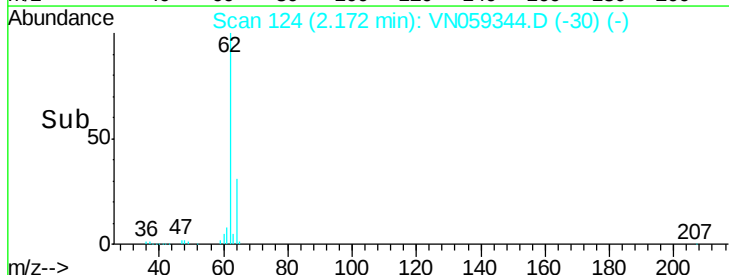
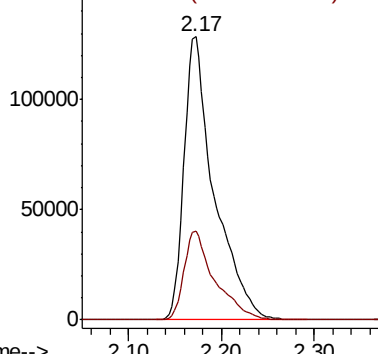
62 100

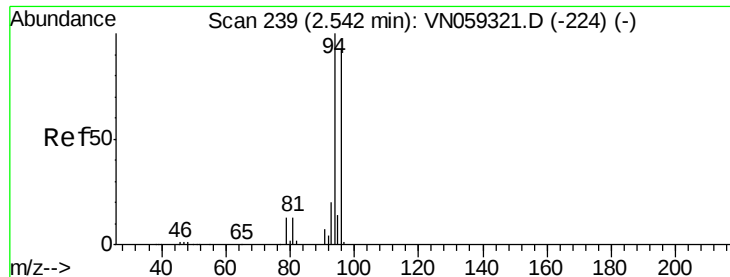
64 31.3 25.4 38.0



Abundance Ion 61.90 (61.60 to 62.60): VNO

Ion 63.90 (63.60 to 64.60): VNO





#5

Bromomethane

Concen: 17.505 ug/l

RT: 2.50 min Scan# 225

Delta R.T. -0.04 min

Lab File: VN059344.D

Acq: 21 Nov 2019 18:24

Instrument :

MSVOA_N

ClientSampleId :

MW-4-(12-14)MS

Tot Ion: 94 Resp: 65153

Ion Ratio Lower Upper

94 100

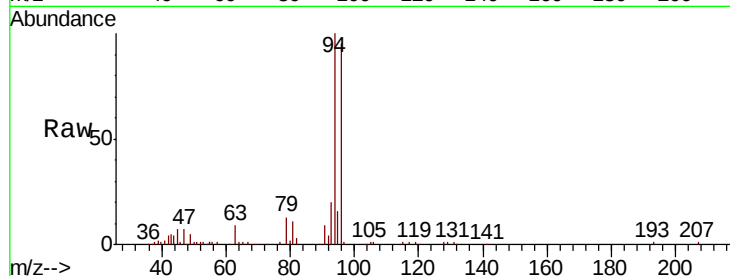
96 95.1 74.5 111.7

Manual Integrations

APPROVED

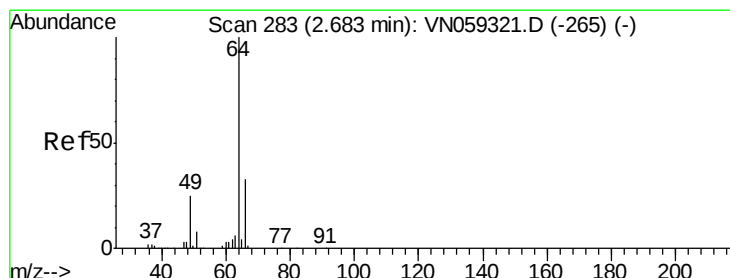
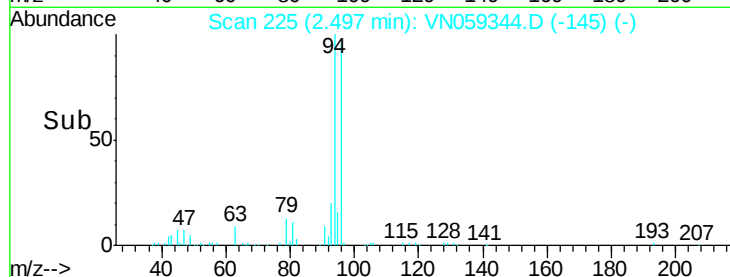
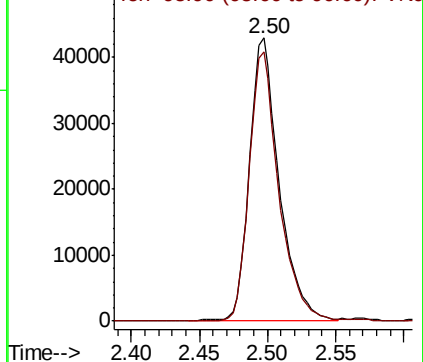
MMDadoda

11/22/2019 3:12:50 PM



Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO



#6

Chloroethane

Concen: 22.289 ug/l

RT: 2.62 min Scan# 264

Delta R.T. -0.06 min

Lab File: VN059344.D

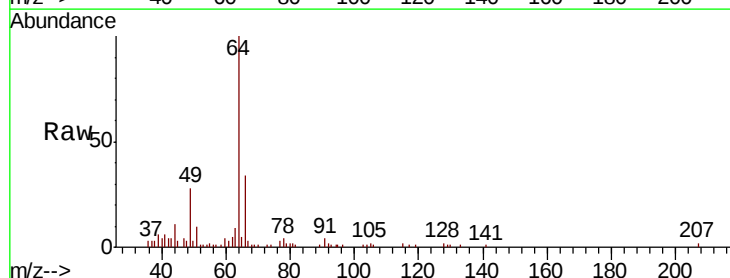
Acq: 21 Nov 2019 18:24

Tgt Ion: 64 Resp: 81552

Ion Ratio Lower Upper

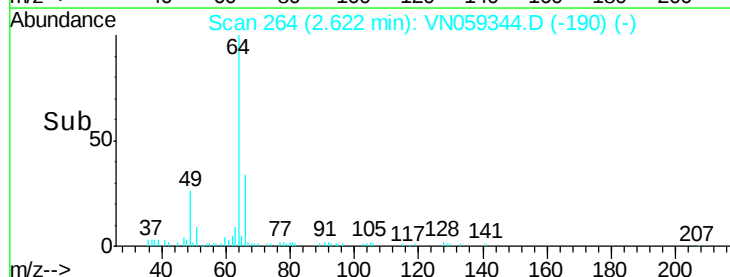
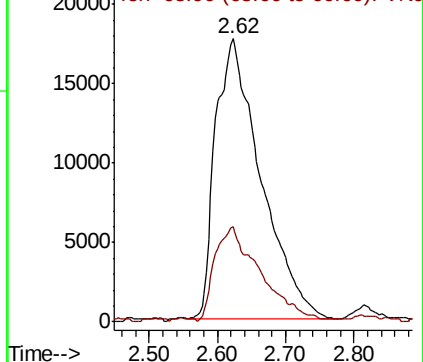
64 100

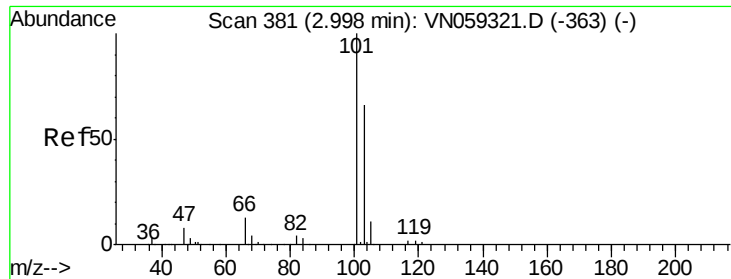
66 33.2 26.2 39.2



Abundance Ion 63.90 (63.60 to 64.60): VNO

Ion 65.90 (65.60 to 66.60): VNO





#7

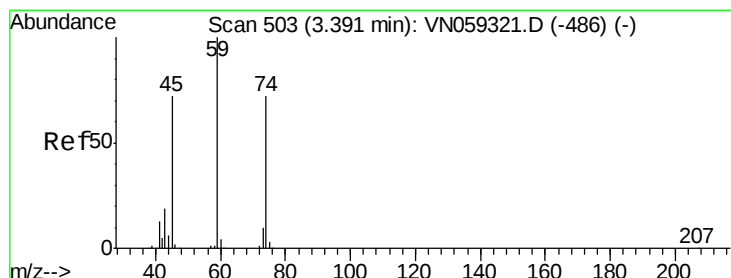
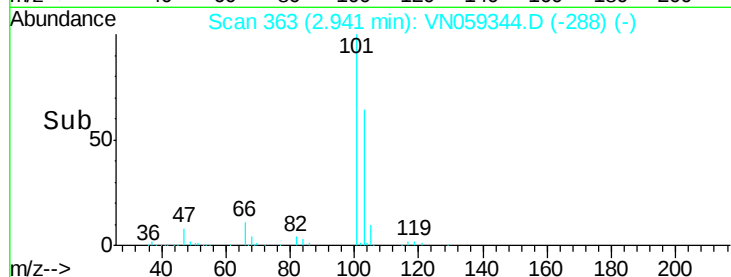
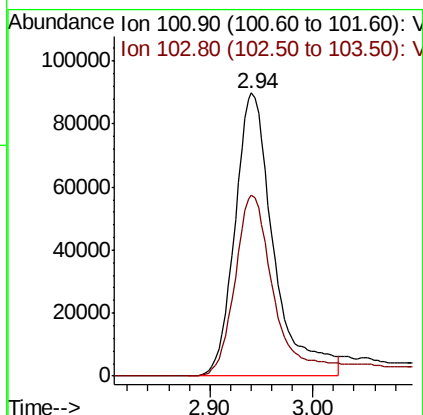
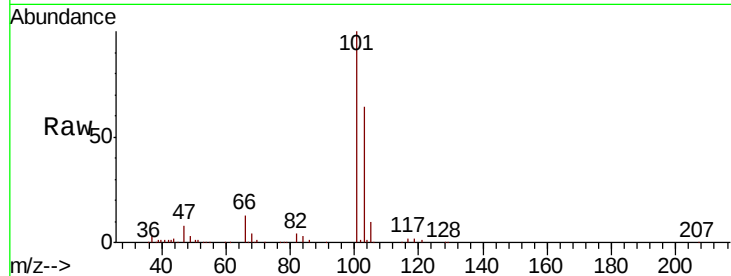
Trichlorofluoromethane
 Concen: 32.543 ug/l
 RT: 2.94 min Scan# 363
 Delta R.T. -0.06 min
 Lab File: VN059344.D
 Acq: 21 Nov 2019 18:24

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-4-(12-14)MS

Tot Ion	Ion	Ratio	Resp	Lower	Upper
101	100		234939		
103	64.1	52.5	78.7		

Manual Integrations
 APPROVED

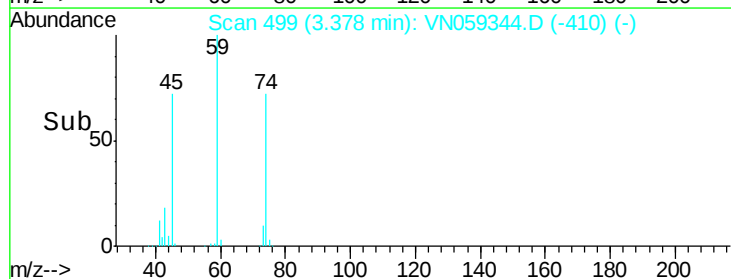
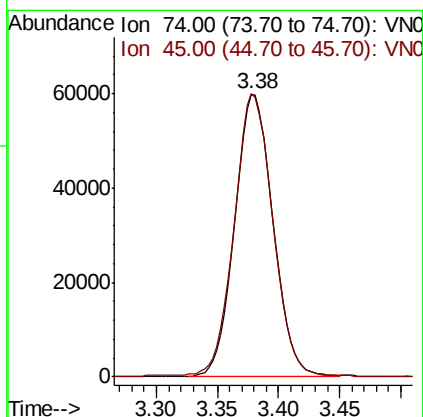
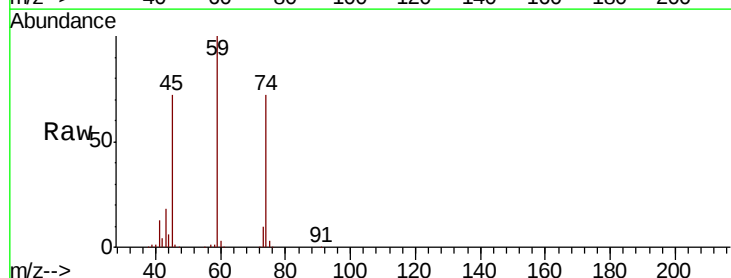
MMDadoda
 11/22/2019 3:12:50 PM

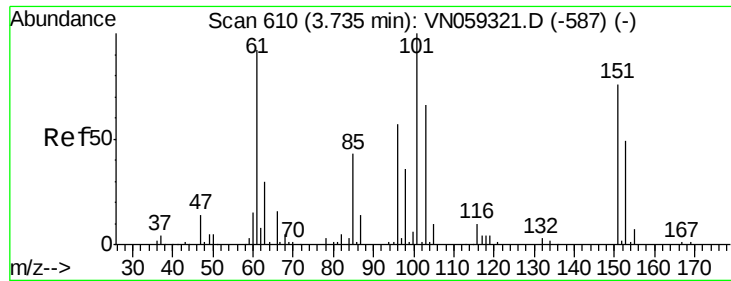


#8

Diethyl Ether
 Concen: 44.111 ug/l
 RT: 3.38 min Scan# 499
 Delta R.T. -0.01 min
 Lab File: VN059344.D
 Acq: 21 Nov 2019 18:24

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
74	100		130191		
45	102.0	51.7	155.2		





#9

1,1,2-Trichlorotrifluoroethane

Concen: 42.808 ug/l

RT: 3.71 min Scan# 601

Delta R.T. -0.03 min

Lab File: VN059344.D

Acq: 21 Nov 2019 18:24

Instrument :

MSVOA_N

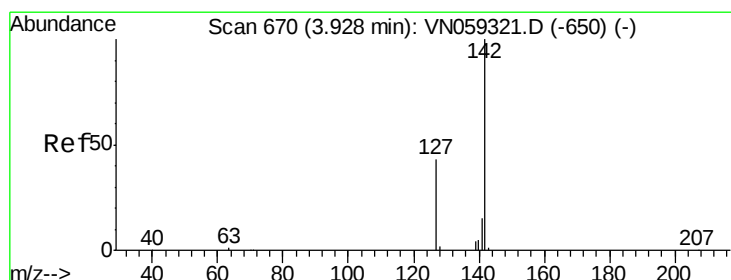
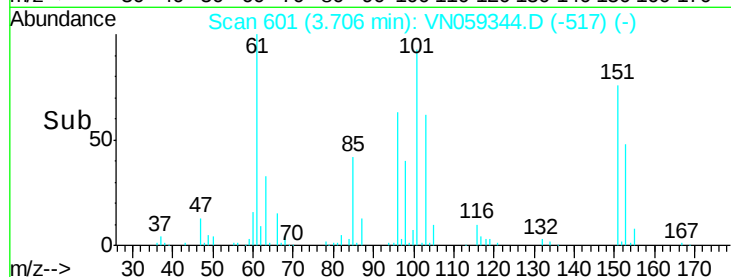
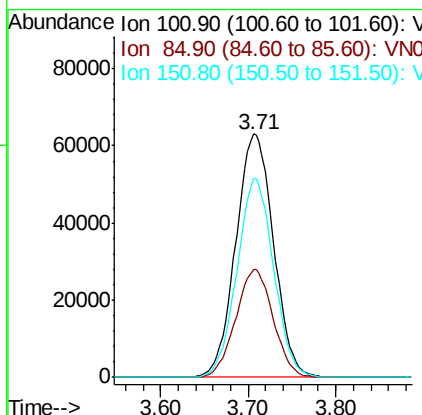
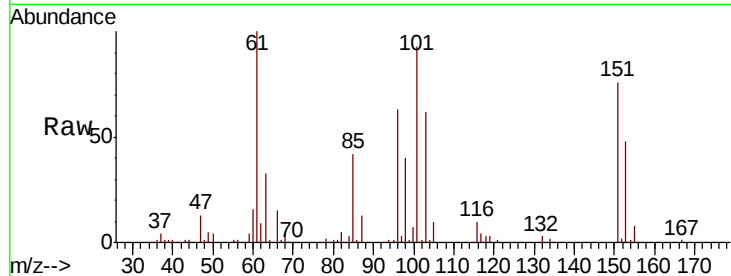
ClientSampleId :

MW-4-(12-14)MS

Tot Ion:	101	Resp:	188976
Ion Ratio	Lower	Upper	
101	100		
85	44.0	34.8	52.2
151	79.0	62.2	93.4

Manual Integrations
APPROVED

MMDadoda
11/22/2019 3:12:50 PM



#10

Methyl Iodide

Concen: 41.146 ug/l

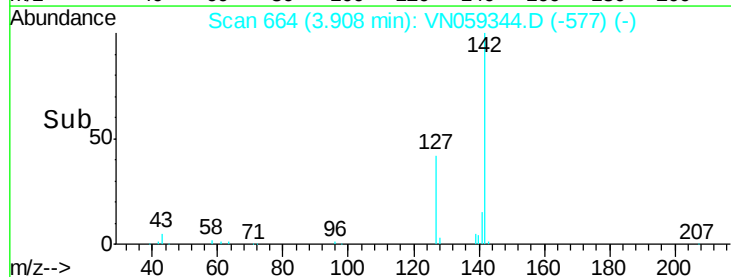
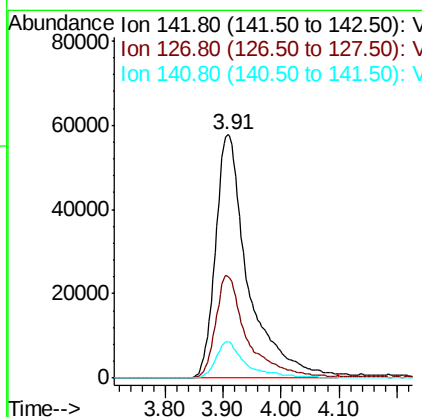
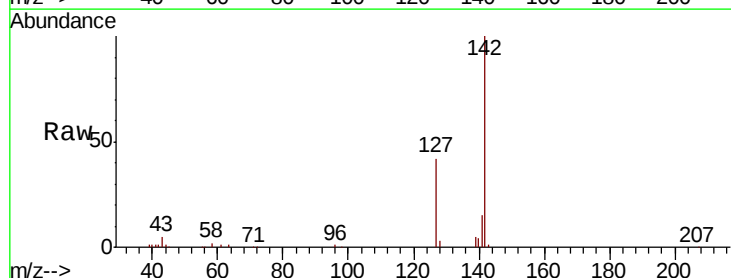
RT: 3.91 min Scan# 664

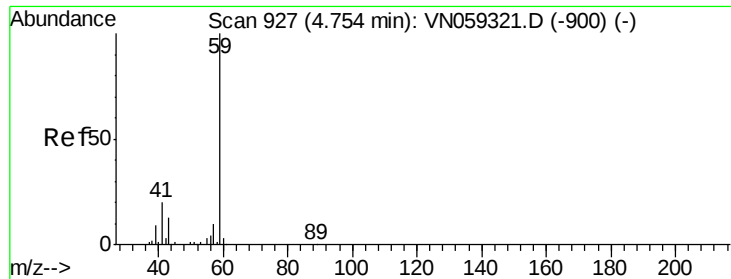
Delta R.T. -0.02 min

Lab File: VN059344.D

Acq: 21 Nov 2019 18:24

Tgt Ion:	142	Resp:	225744
Ion Ratio	Lower	Upper	
142	100		
127	40.3	33.8	50.6
141	13.7	11.2	16.8





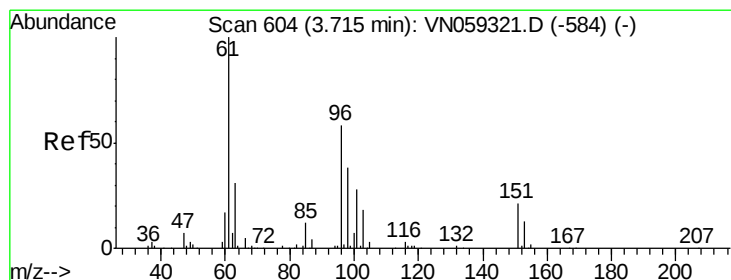
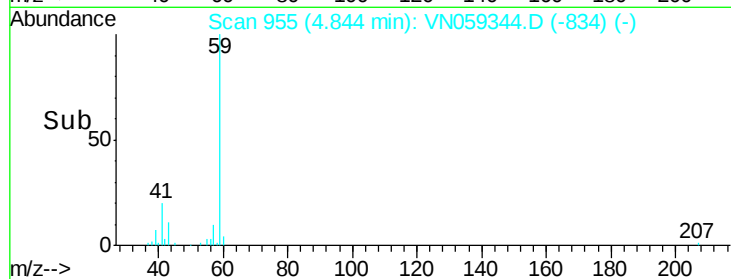
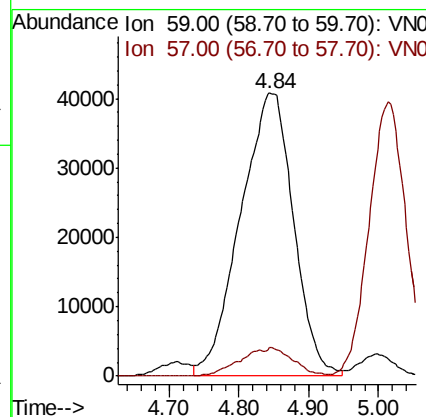
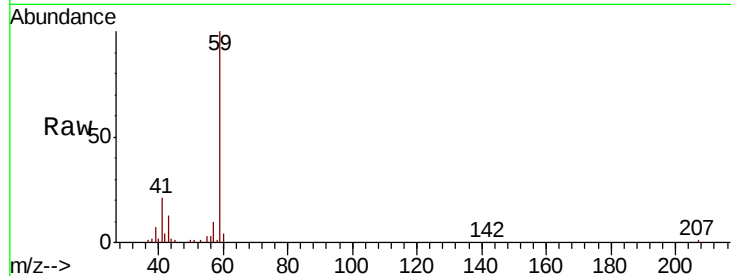
#11
Tert butyl alcohol
Concen: 215.710 ug/l m
RT: 4.84 min Scan# 955
Delta R.T. 0.09 min
Lab File: VN059344.D
Acq: 21 Nov 2019 18:24

Instrument :
MSVOA_N
ClientSampleId :
MW-4-(12-14)MS

Tot Ion	Ratio	Lower	Upper
59	100		
57	0.0	8.2	12.2#

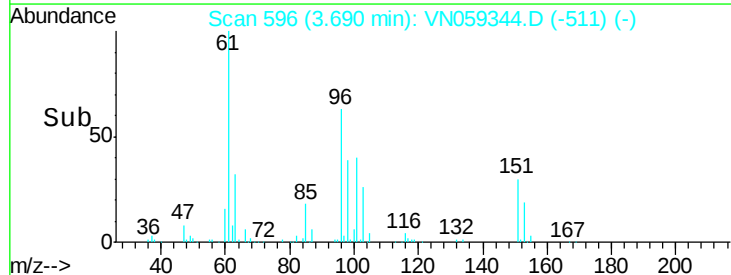
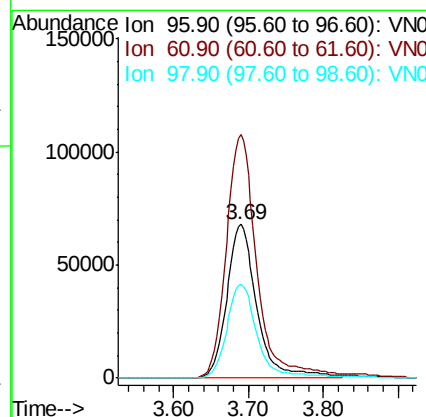
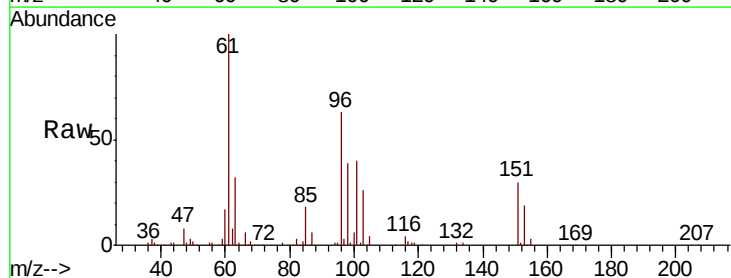
Manual Integrations
APPROVED

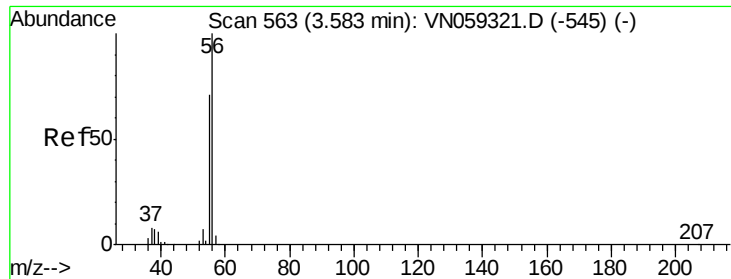
MMDadoda
11/22/2019 3:12:50 PM



#12
1,1-Dichloroethene
Concen: 42.334 ug/l
RT: 3.69 min Scan# 596
Delta R.T. -0.03 min
Lab File: VN059344.D
Acq: 21 Nov 2019 18:24

Tgt Ion	Ratio	Lower	Upper
96	100		
61	158.4	136.8	205.2
98	61.0	51.6	77.4





#13

Acrolein

Concen: 203.564 ug/l

RT: 3.58 min Scan# 561

Delta R.T. -0.01 min

Lab File: VN059344.D

Acq: 21 Nov 2019 18:24

Instrument :

MSVOA_N

ClientSampleId :

MW-4-(12-14)MS

Tot Ion: 56 Resp: 185335

Ion Ratio Lower Upper

56 100

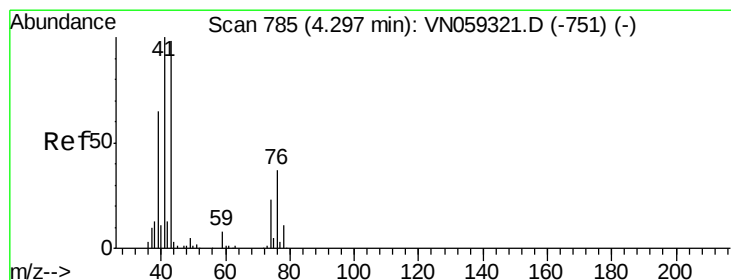
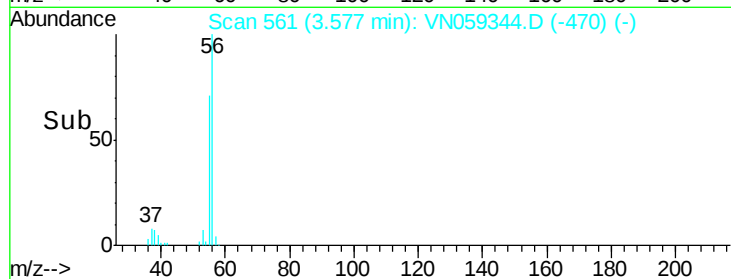
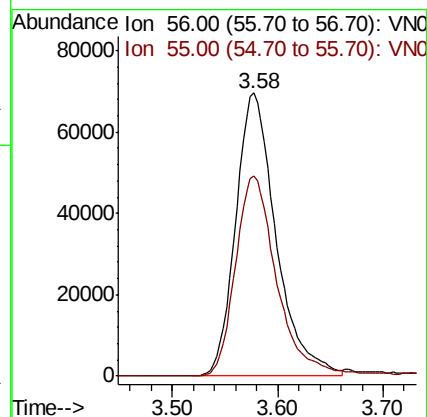
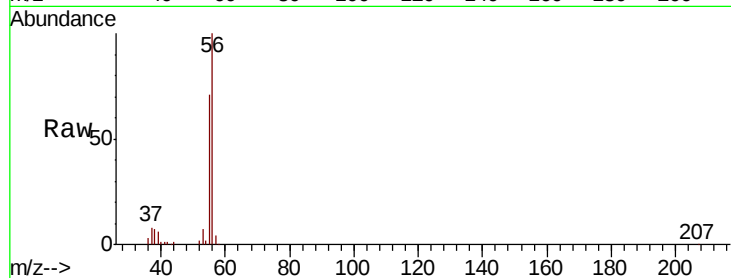
55 72.9 57.4 86.0

Manual Integrations

APPROVED

MMDadoda

11/22/2019 3:12:50 PM



#14

Allyl chloride

Concen: 38.552 ug/l

RT: 4.28 min Scan# 780

Delta R.T. -0.02 min

Lab File: VN059344.D

Acq: 21 Nov 2019 18:24

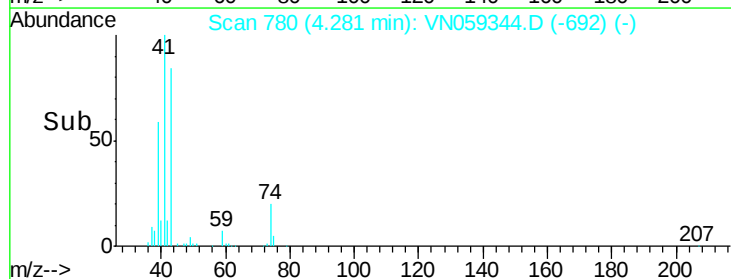
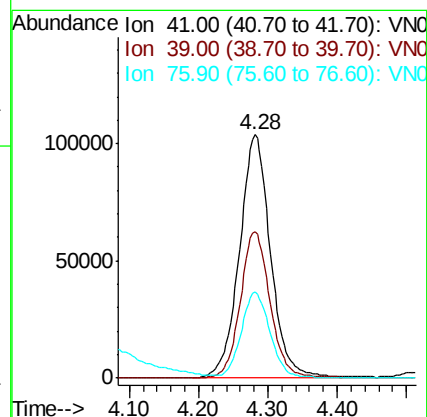
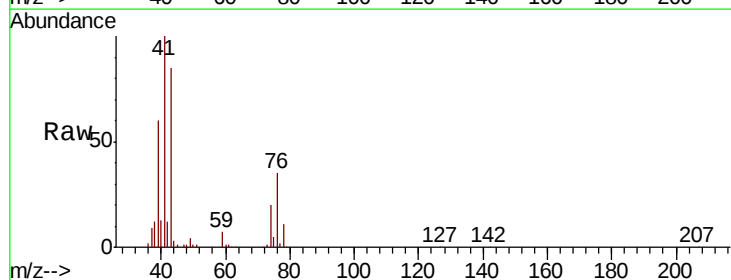
Tgt Ion: 41 Resp: 322725

Ion Ratio Lower Upper

41 100

39 57.2 48.4 72.6

76 32.7 26.2 39.4





#15

Acrylonitrile

Concen: 214.579 ug/l

RT: 4.96 min Scan# 991

Delta R.T. 0.00 min

Lab File: VN059344.D

Acq: 21 Nov 2019 18:24

Instrument :

MSVOA_N

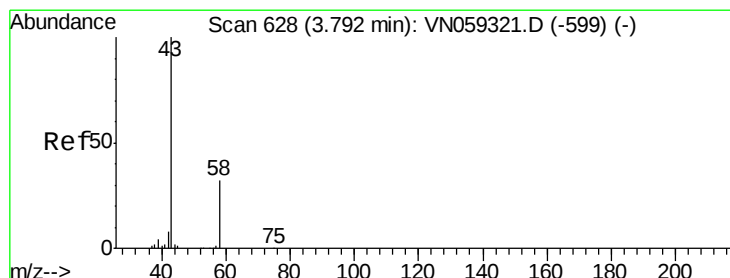
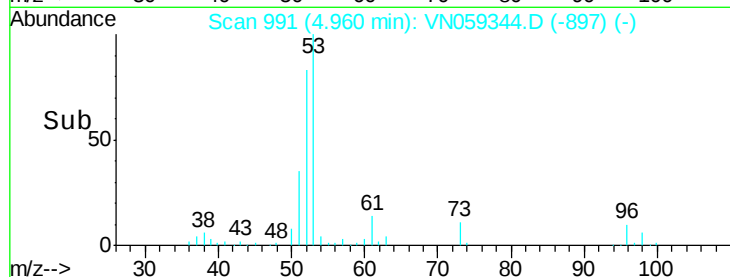
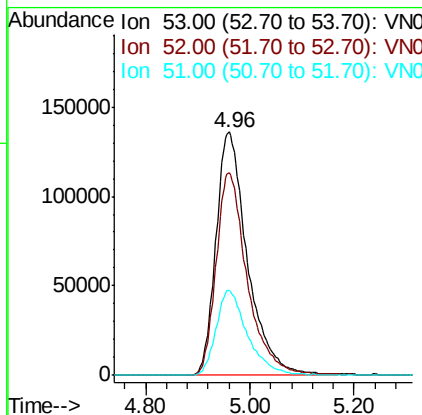
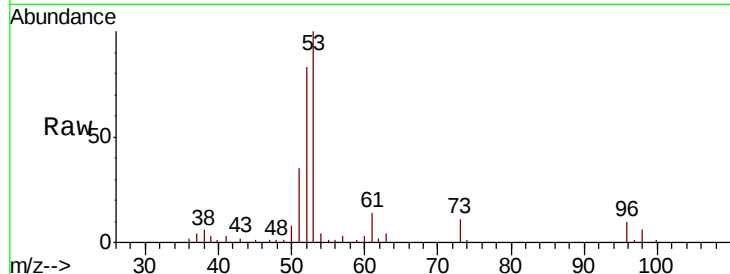
ClientSampleId :

MW-4-(12-14)MS

Tot Ion:	53	Resp:	565861
Ion Ratio	Lower	Upper	
53	100		
52	82.5	65.8	98.8
51	34.8	28.2	42.2

Manual Integrations
APPROVED

MMDadoda
11/22/2019 3:12:50 PM



#16

Acetone

Concen: 196.615 ug/l

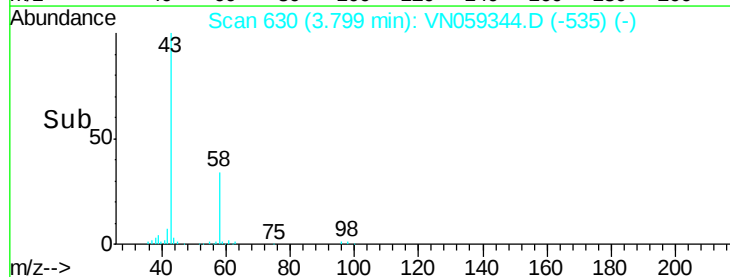
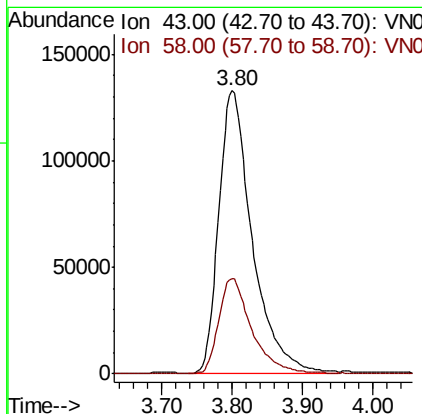
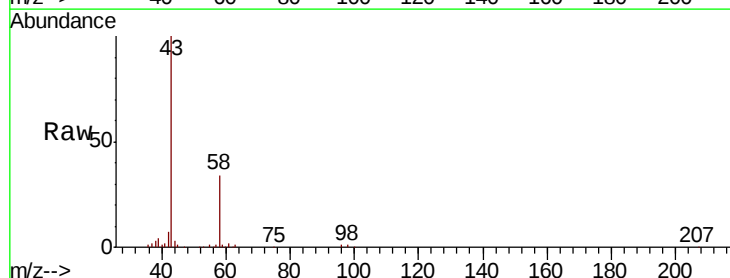
RT: 3.80 min Scan# 630

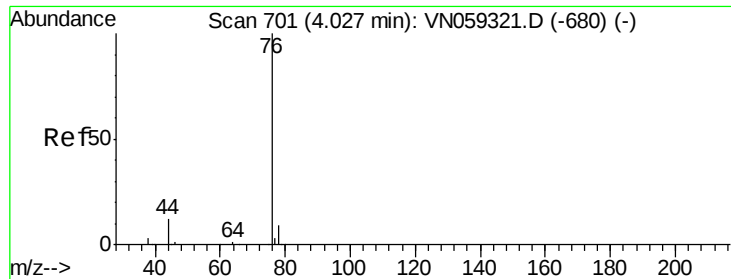
Delta R.T. 0.01 min

Lab File: VN059344.D

Acq: 21 Nov 2019 18:24

Tgt Ion:	43	Resp:	439167
Ion Ratio	Lower	Upper	
43	100		
58	33.7	25.8	38.6





#17

Carbon Disulfide

Concen: 41.953 ug/l

RT: 4.00 min Scan# 694

Delta R.T. -0.02 min

Lab File: VN059344.D

Acq: 21 Nov 2019 18:24

Instrument :

MSVOA_N

ClientSampleId :

MW-4-(12-14)MS

Tot Ion: 76 Resp: 588851

Ion Ratio Lower Upper

76 100

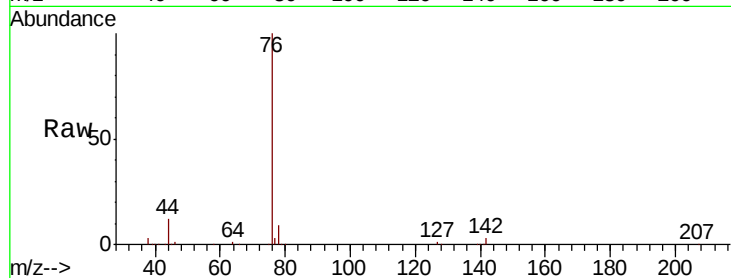
78 9.0 7.2 10.8

Manual Integrations

APPROVED

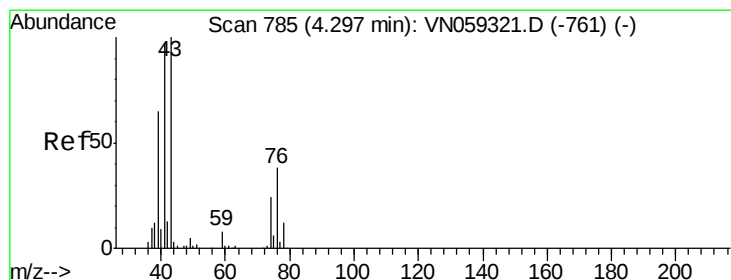
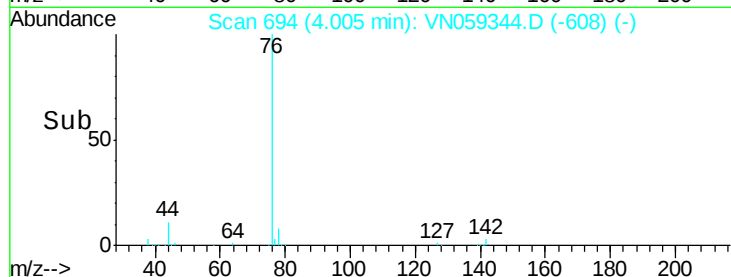
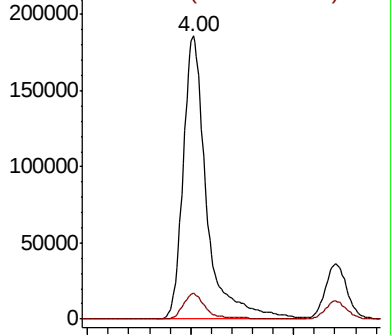
MMDadoda

11/22/2019 3:12:50 PM



Abundance Ion 75.90 (75.60 to 76.60): VNC

Ion 77.90 (77.60 to 78.60): VNC



#18

Methyl Acetate

Concen: 45.681 ug/l

RT: 4.29 min Scan# 784

Delta R.T. -0.00 min

Lab File: VN059344.D

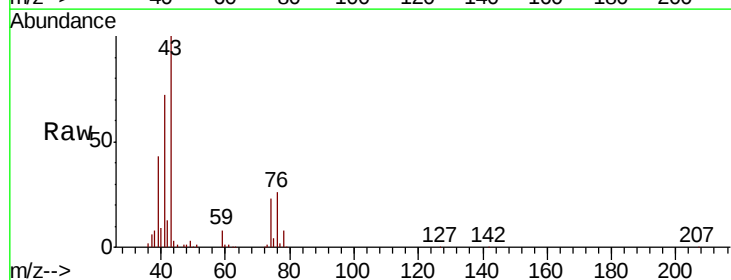
Acq: 21 Nov 2019 18:24

Tgt Ion: 43 Resp: 338621

Ion Ratio Lower Upper

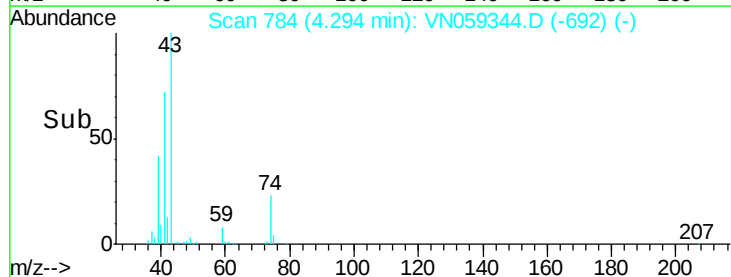
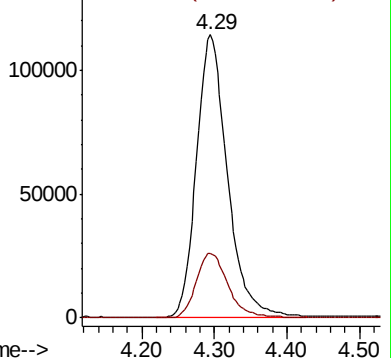
43 100

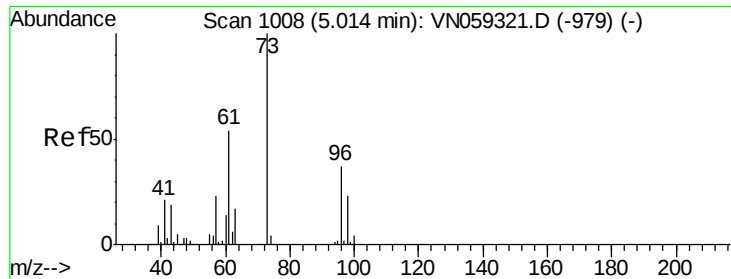
74 23.7 18.1 27.1



Abundance Ion 43.00 (42.70 to 43.70): VNC

Ion 74.00 (73.70 to 74.70): VNC





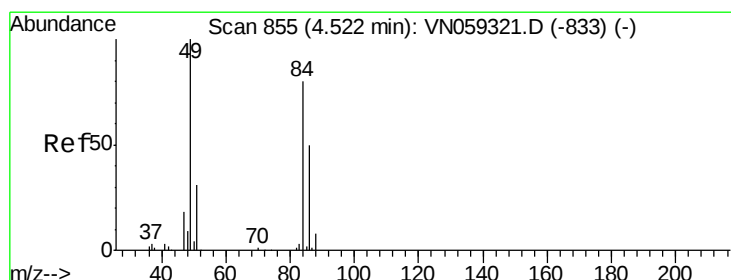
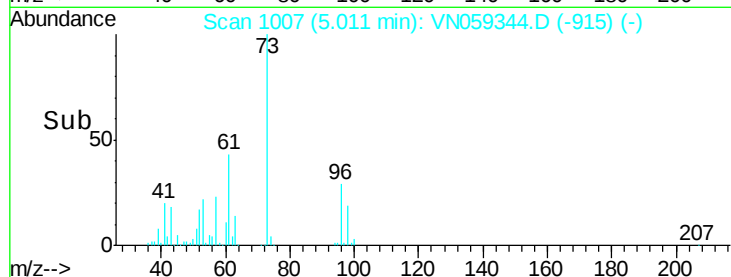
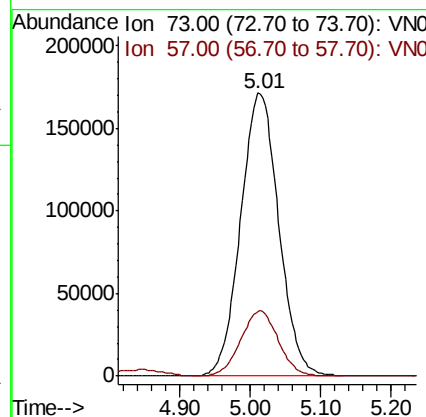
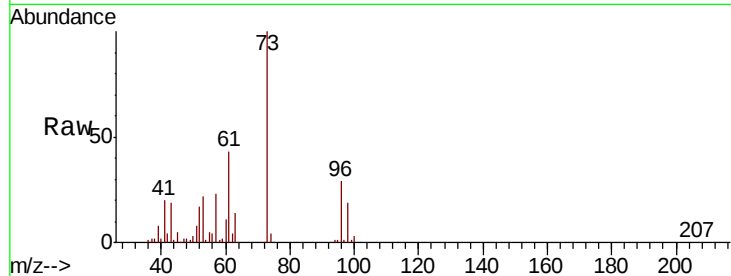
#19
Methyl tert-butyl Ether
Concen: 44.632 ug/l
RT: 5.01 min Scan# 1007
Delta R.T. -0.00 min
Lab File: VN059344.D
Acq: 21 Nov 2019 18:24

Instrument :
MSVOA_N
ClientSampleId :
MW-4-(12-14)MS

Tot Ion: 73 Resp: 645964
Ion Ratio Lower Upper
73 100
57 22.9 18.4 27.6

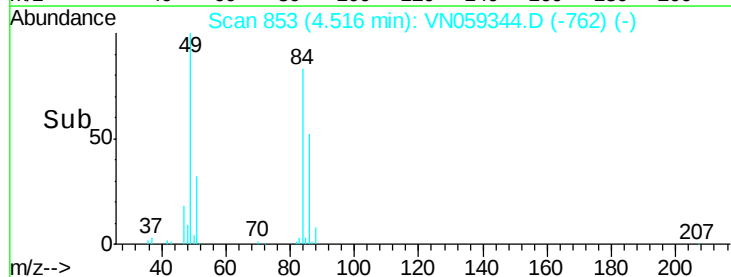
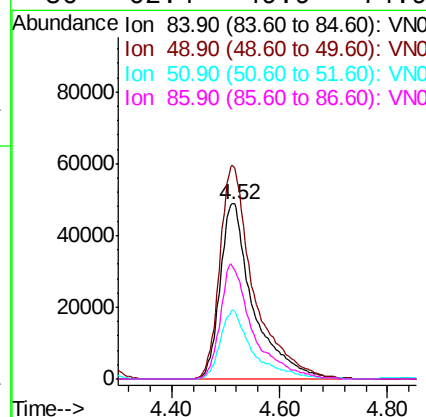
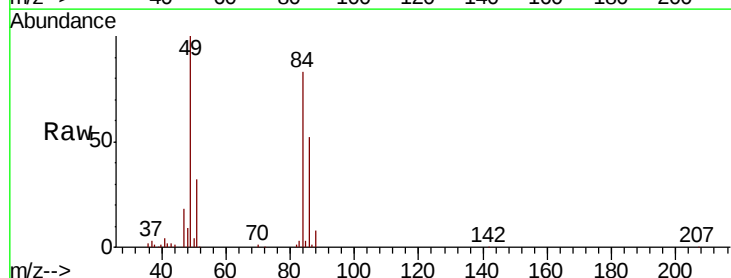
Manual Integrations
APPROVED

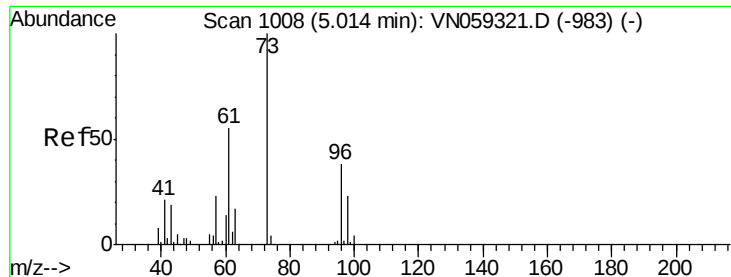
MMDadoda
11/22/2019 3:12:50 PM



#20
Methylene Chloride
Concen: 41.726 ug/l
RT: 4.52 min Scan# 853
Delta R.T. -0.01 min
Lab File: VN059344.D
Acq: 21 Nov 2019 18:24

Tgt Ion: 84 Resp: 210202
Ion Ratio Lower Upper
84 100
49 120.1 99.5 149.3
51 38.9 31.1 46.7
86 62.4 49.9 74.9





#21

trans-1,2-Dichloroethene

Concen: 43.669 ug/l

RT: 5.00 min Scan# 1002

Delta R.T. -0.02 min

Lab File: VN059344.D

Acq: 21 Nov 2019 18:24

Instrument :

MSVOA_N

ClientSampleId :

MW-4-(12-14)MS

Tot Ion: 96 Resp: 207386

Ion Ratio Lower Upper

96 100

61 142.6 116.4 174.6

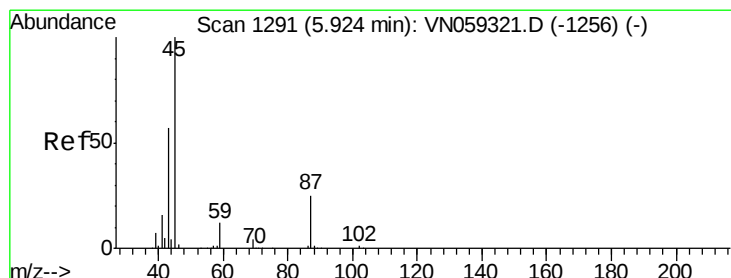
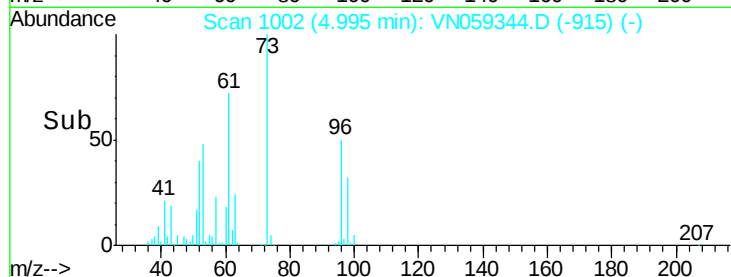
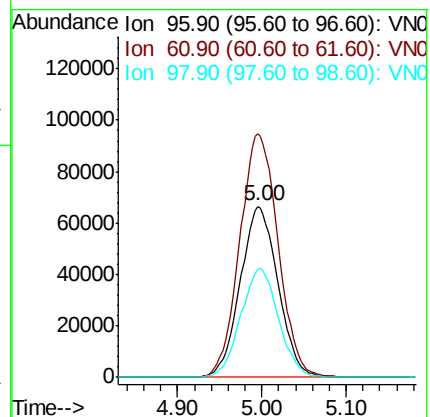
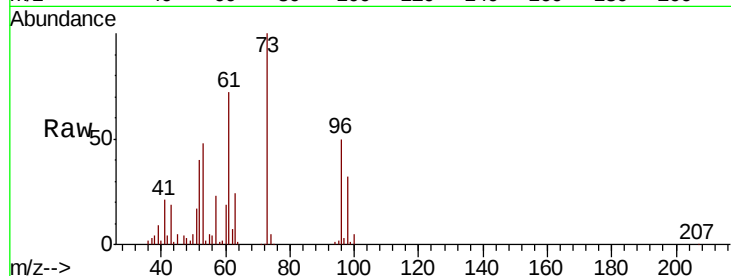
98 63.0 49.6 74.4

Manual Integrations

APPROVED

MMDadoda

11/22/2019 3:12:50 PM



#22

Diisopropyl ether

Concen: 43.659 ug/l

RT: 5.92 min Scan# 1291

Delta R.T. 0.00 min

Lab File: VN059344.D

Acq: 21 Nov 2019 18:24

Tgt Ion: 45 Resp: 688120

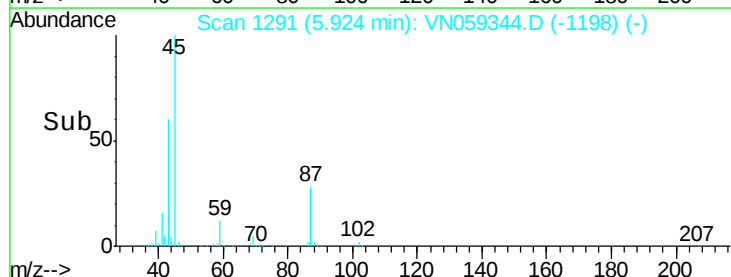
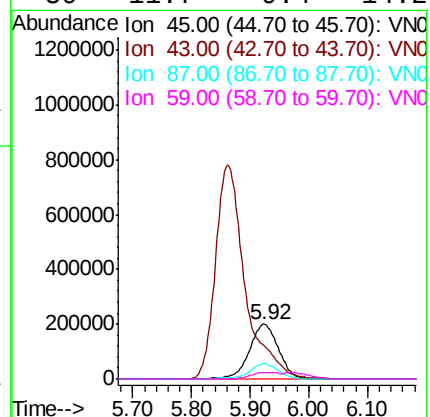
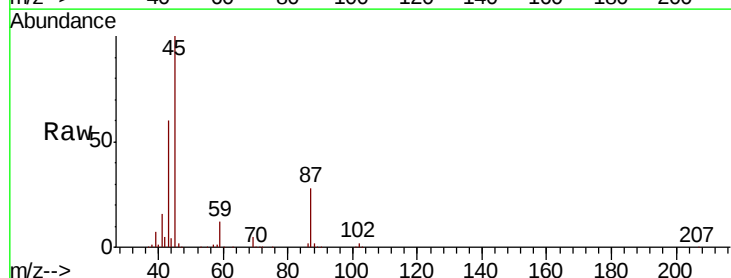
Ion Ratio Lower Upper

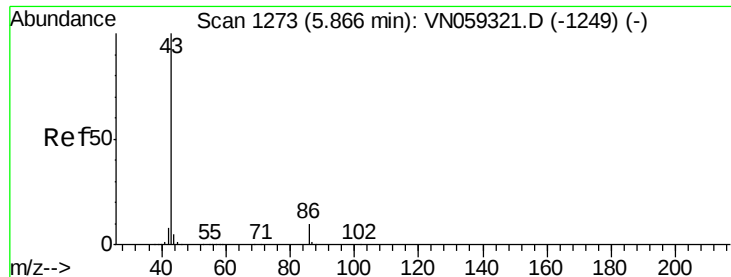
45 100

43 59.6 47.6 71.4

87 27.7 20.7 31.1

59 11.7 9.4 14.2





#23

Vinyl Acetate

Concen: 221.126 ug/l

RT: 5.86 min Scan# 1272

Delta R.T. -0.00 min

Lab File: VN059344.D

Acq: 21 Nov 2019 18:24

Instrument :

MSVOA_N

ClientSampleId :

MW-4-(12-14)MS

Tot Ion: 43 Resp: 2740666

Ion Ratio Lower Upper

43 100

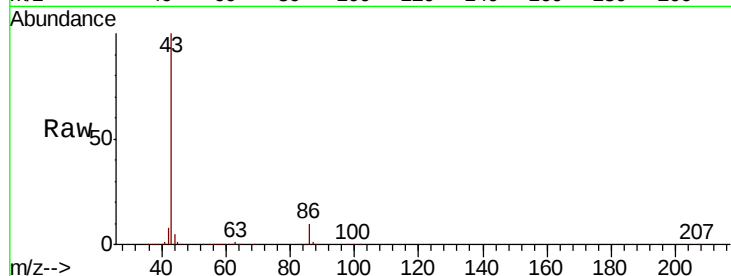
86 10.1 8.0 12.0

Manual Integrations

APPROVED

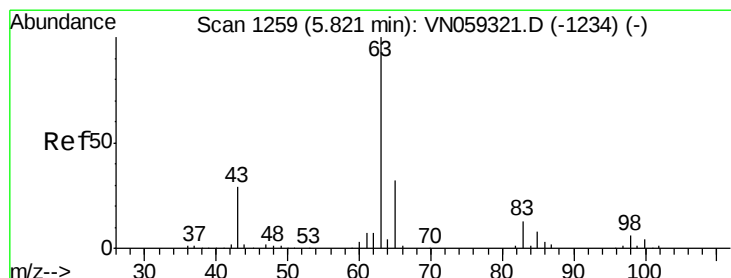
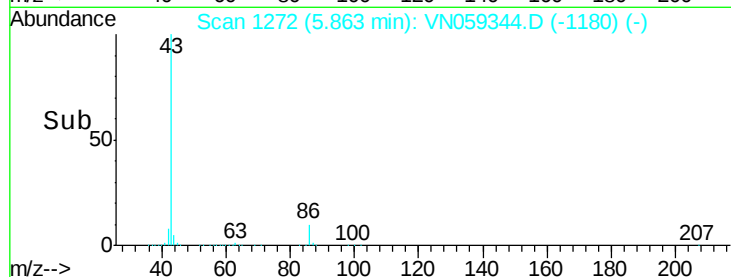
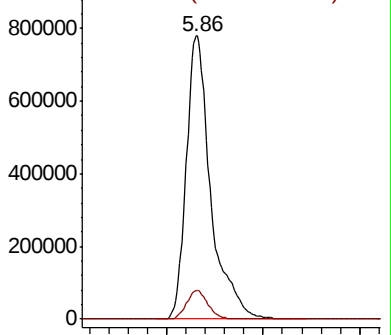
MMDadoda

11/22/2019 3:12:50 PM



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 86.00 (85.70 to 86.70): VN0



#24

1,1-Dichloroethane

Concen: 43.833 ug/l

RT: 5.81 min Scan# 1256

Delta R.T. -0.01 min

Lab File: VN059344.D

Acq: 21 Nov 2019 18:24

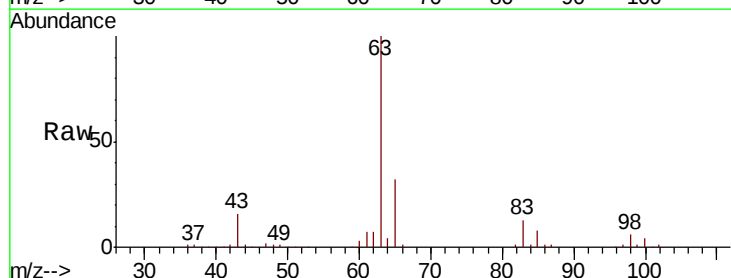
Tgt Ion: 63 Resp: 388865

Ion Ratio Lower Upper

63 100

98 6.4 2.9 8.8

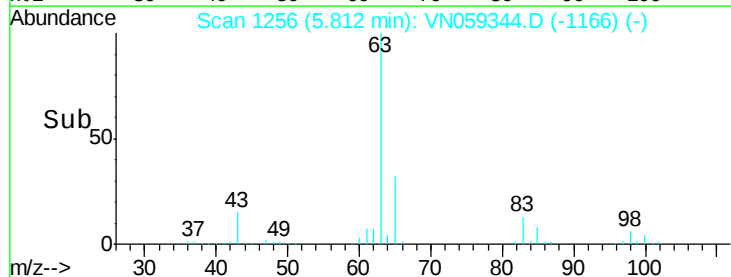
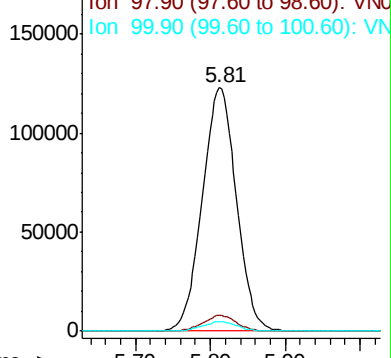
100 4.0 1.9 5.7

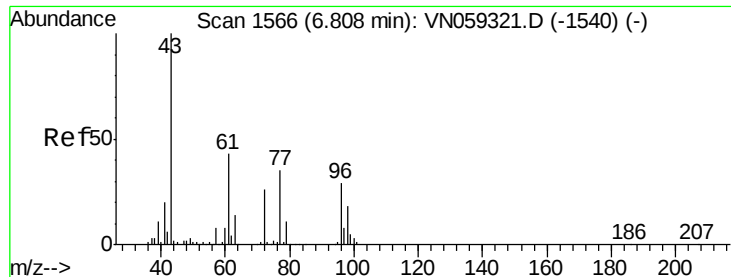


Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 97.90 (97.60 to 98.60): VN0

Ion 99.90 (99.60 to 100.60): VN0





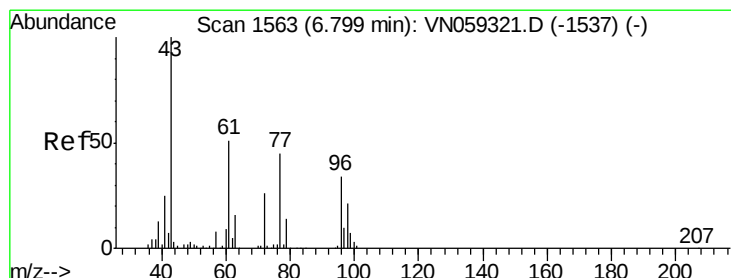
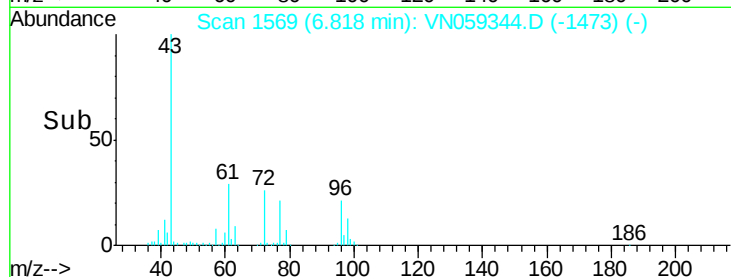
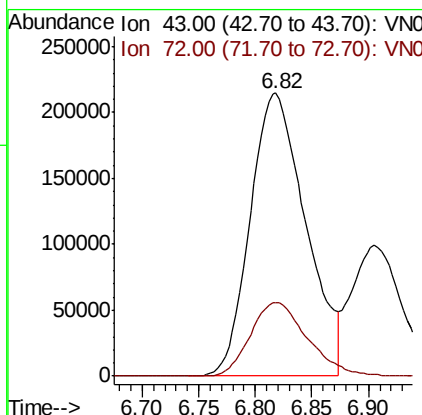
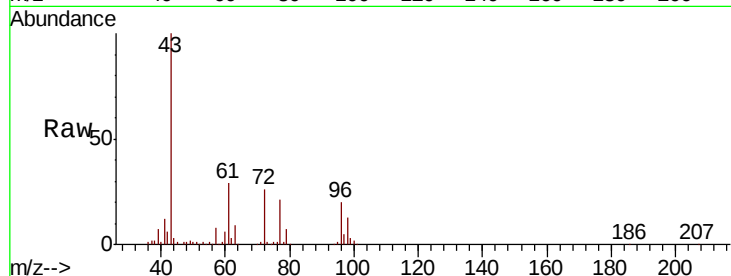
#25
2-Butanone
Concen: 210.387 ug/l
RT: 6.82 min Scan# 1569
Delta R.T. 0.01 min
Lab File: VN059344.D
Acq: 21 Nov 2019 18:24

Instrument :
MSVOA_N
ClientSampleId :
MW-4-(12-14)MS

Tot Ion: 43 Resp: 730734
Ion Ratio Lower Upper
43 100
72 26.0 20.5 30.7

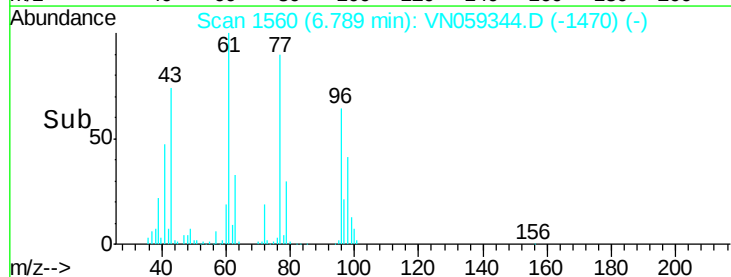
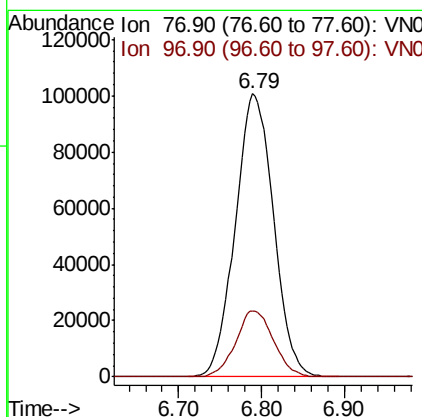
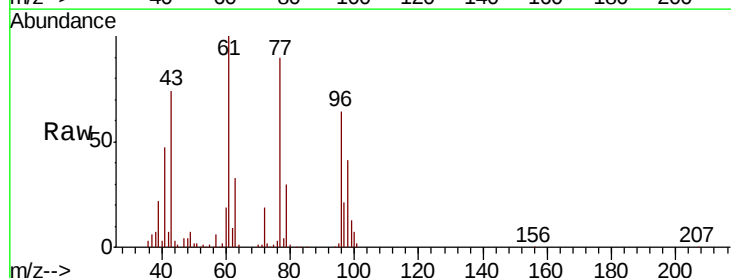
Manual Integrations
APPROVED

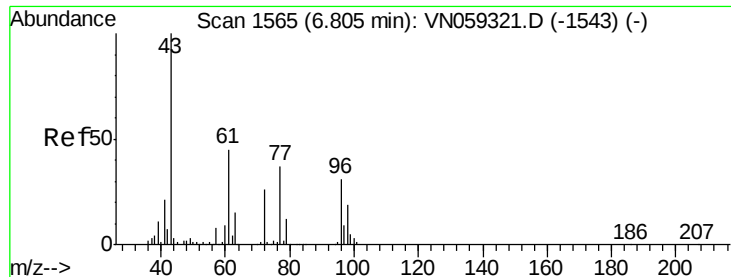
MMDadoda
11/22/2019 3:12:50 PM



#26
2,2-Dichloropropane
Concen: 42.065 ug/l
RT: 6.79 min Scan# 1560
Delta R.T. -0.01 min
Lab File: VN059344.D
Acq: 21 Nov 2019 18:24

Tgt Ion: 77 Resp: 323133
Ion Ratio Lower Upper
77 100
97 23.0 11.5 34.4





#27

cis-1,2-Dichloroethene

Concen: 42.882 ug/l

RT: 6.80 min Scan# 1562

Delta R.T. -0.01 min

Lab File: VN059344.D

Acq: 21 Nov 2019 18:24

Instrument :

MSVOA_N

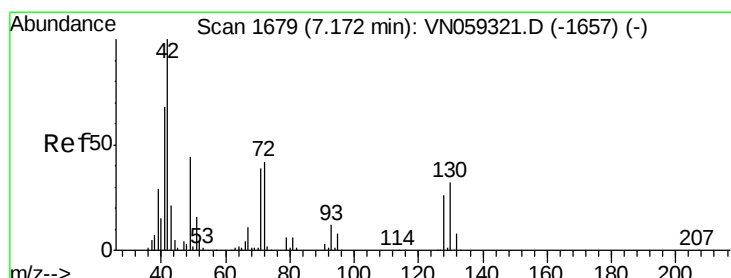
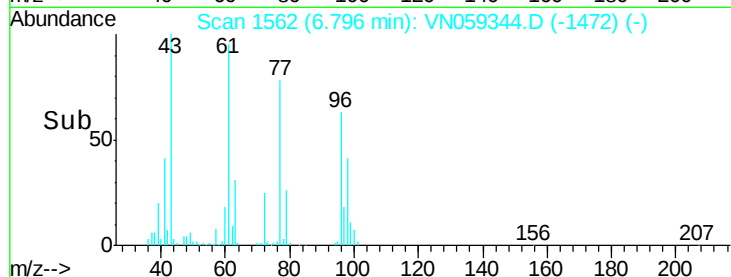
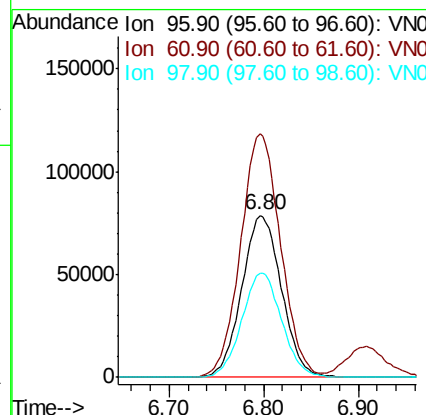
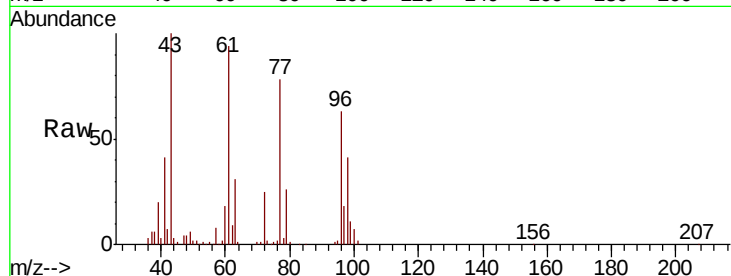
ClientSampleId :

MW-4-(12-14)MS

Tot Ion:	96	Resp:	229771
Ion	Ratio	Lower	Upper
96	100		
61	151.4	0.0	304.0
98	64.6	0.0	128.4

Manual Integrations
APPROVED

MMDadoda
11/22/2019 3:12:50 PM



#28

Bromochloromethane

Concen: 44.948 ug/l

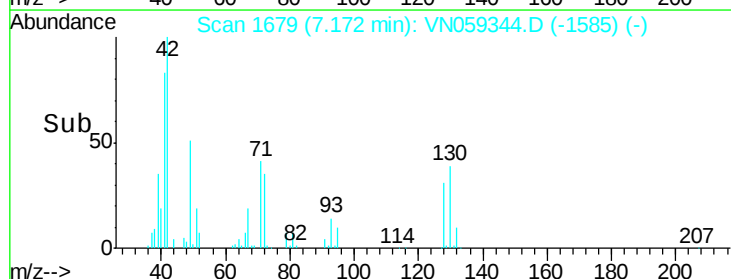
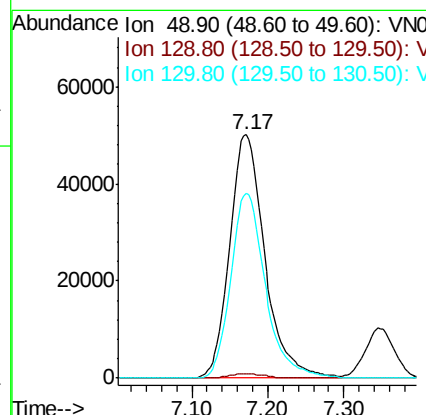
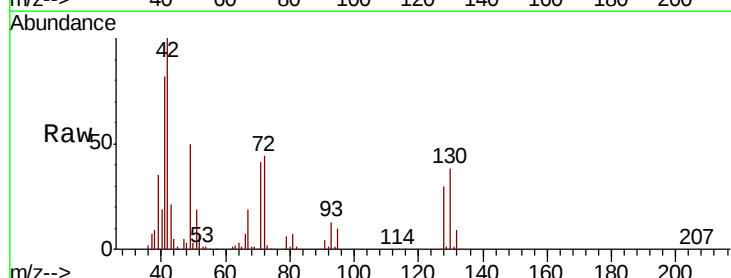
RT: 7.17 min Scan# 1679

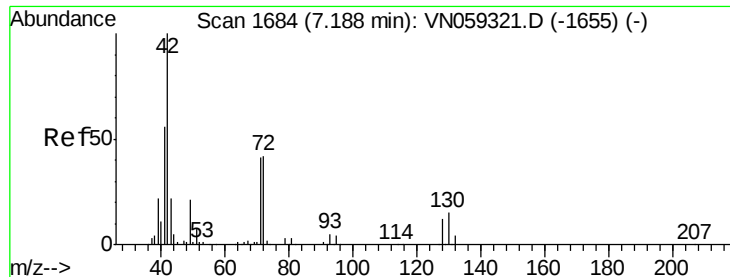
Delta R.T. 0.00 min

Lab File: VN059344.D

Acq: 21 Nov 2019 18:24

Tgt Ion:	49	Resp:	161526
Ion	Ratio	Lower	Upper
49	100		
129	1.8	0.0	3.8
130	74.9	57.0	85.6





#29

Tetrahydrofuran

Concen: 209.986 ug/l

RT: 7.19 min Scan# 1685

Delta R.T. 0.00 min

Lab File: VN059344.D

Acq: 21 Nov 2019 18:24

Instrument :

MSVOA_N

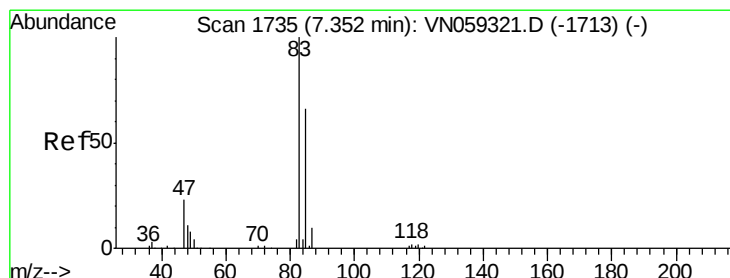
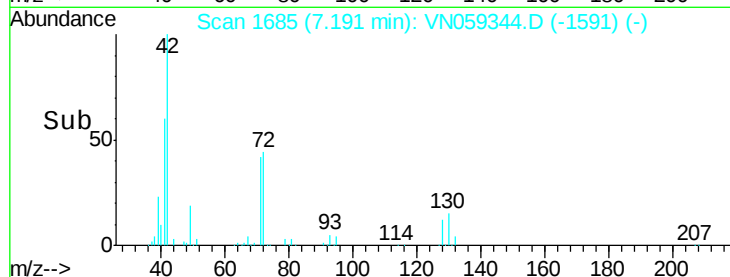
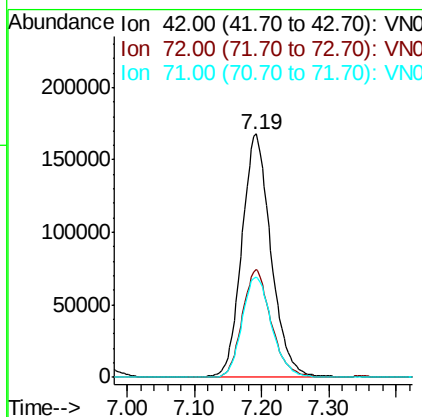
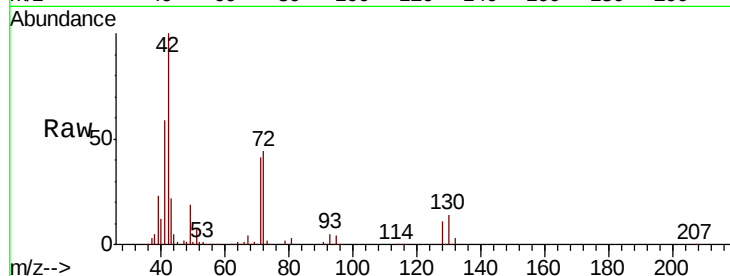
ClientSampleId :

MW-4-(12-14)MS

Tot Ion:	42	Resp:	504313
Ion	Ratio	Lower	Upper
42	100		
72	43.9	34.2	51.2
71	41.8	32.6	48.8

Manual Integrations
APPROVED

MMDadoda
11/22/2019 3:12:50 PM



#30

Chloroform

Concen: 42.427 ug/l

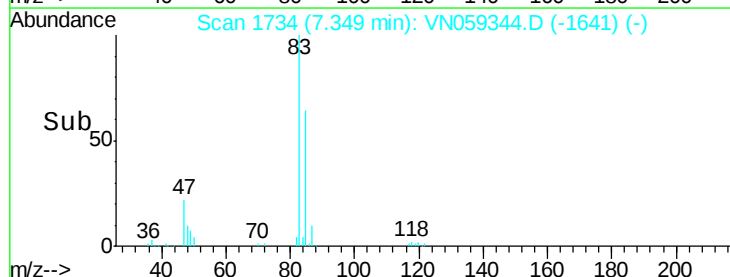
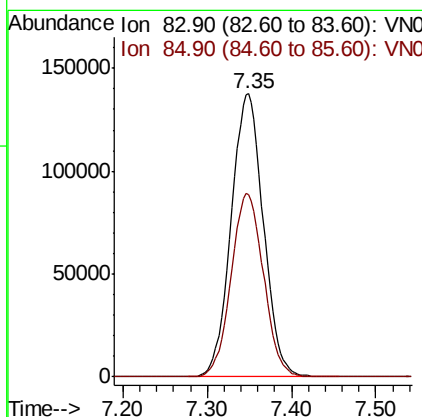
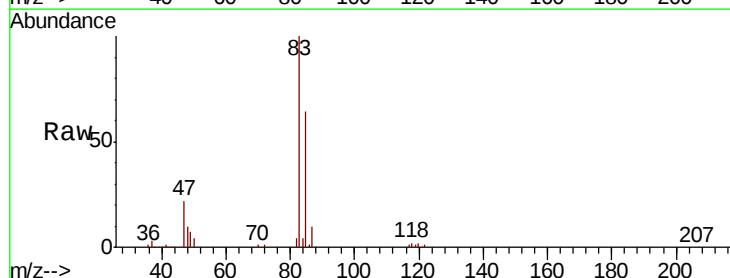
RT: 7.35 min Scan# 1734

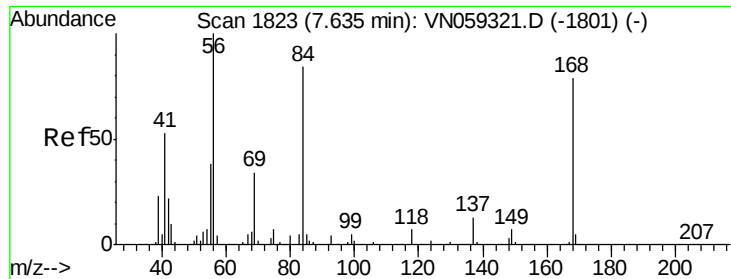
Delta R.T. -0.00 min

Lab File: VN059344.D

Acq: 21 Nov 2019 18:24

Tgt Ion:	83	Resp:	365419
Ion	Ratio	Lower	Upper
83	100		
85	64.3	52.7	79.1





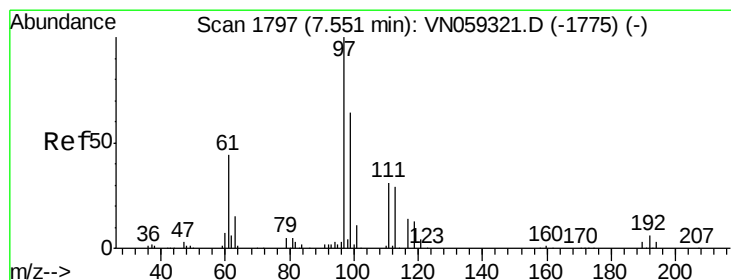
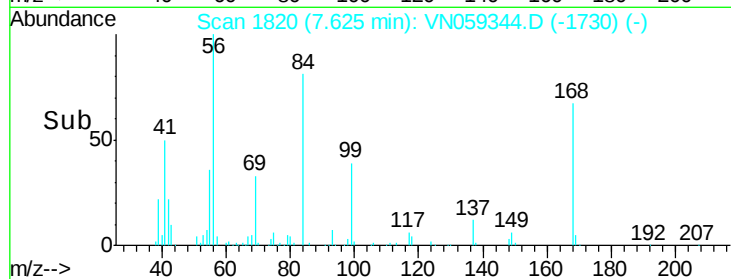
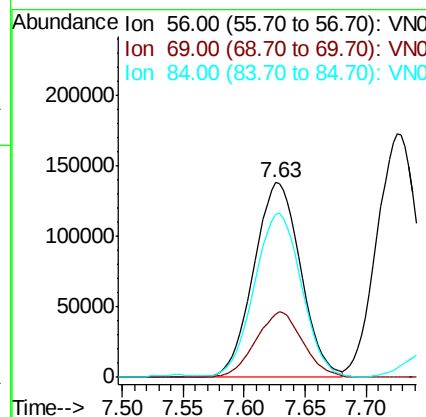
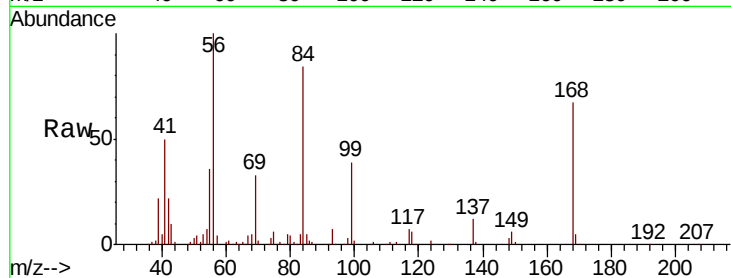
#31
Cyclohexane
Concen: 42.151 ug/l
RT: 7.63 min Scan# 1820
Delta R.T. -0.01 min
Lab File: VN059344.D
Acq: 21 Nov 2019 18:24

Instrument :
MSVOA_N
ClientSampleId :
MW-4-(12-14)MS

Tot Ion	Ratio	Lower	Upper
56	100		
69	32.7	26.6	40.0
84	82.9	67.0	100.4

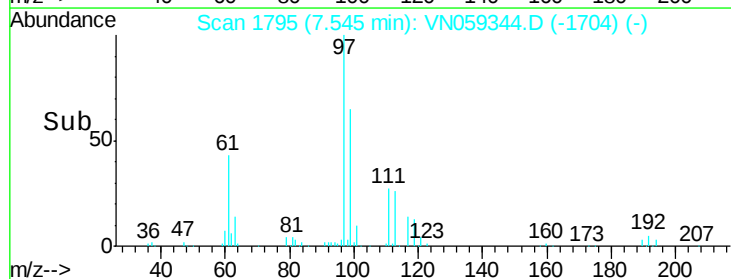
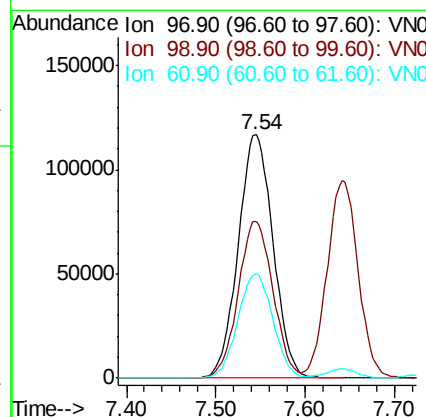
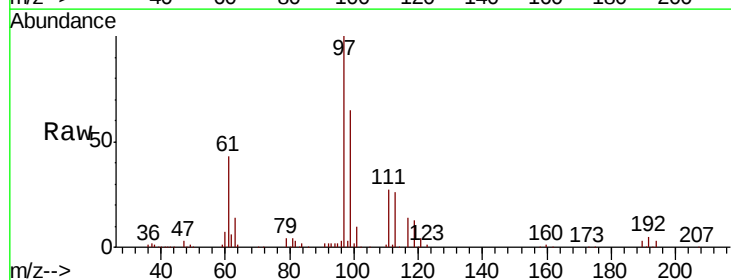
Manual Integrations
APPROVED

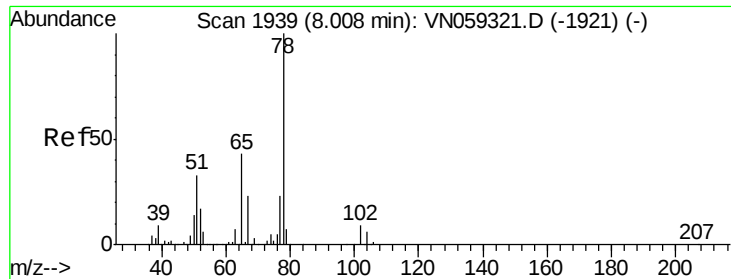
MMDadoda
11/22/2019 3:12:50 PM



#32
1,1,1-Trichloroethane
Concen: 42.745 ug/l
RT: 7.54 min Scan# 1795
Delta R.T. -0.01 min
Lab File: VN059344.D
Acq: 21 Nov 2019 18:24

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.3	51.3	76.9
61	43.2	35.3	52.9





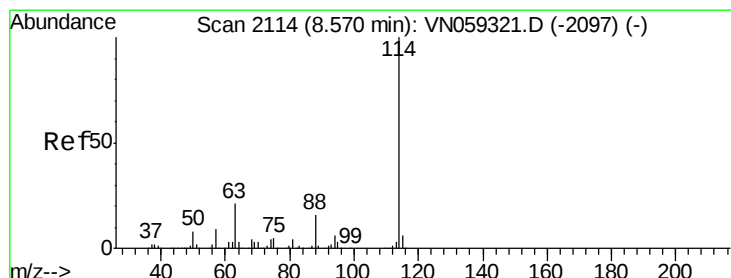
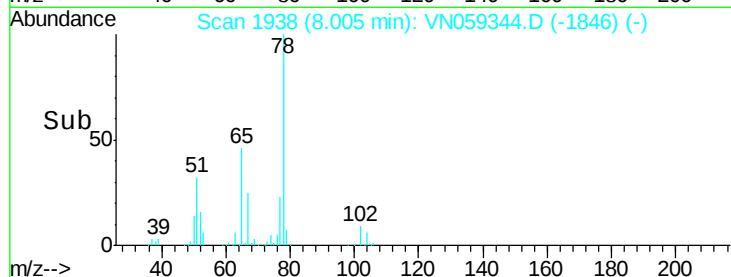
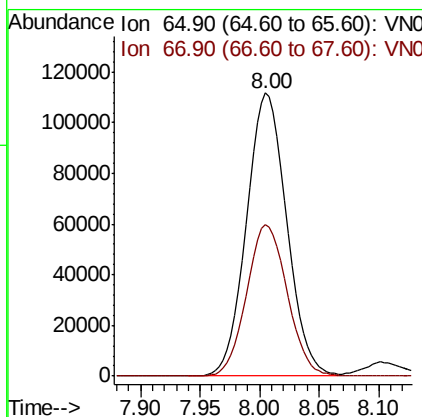
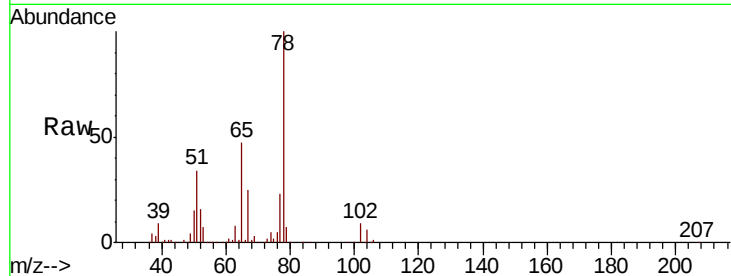
#33
 1,2-Dichloroethane-d4
 Concen: 52.552 ug/l
 RT: 8.00 min Scan# 1938
 Delta R.T. -0.00 min
 Lab File: VN059344.D
 Acq: 21 Nov 2019 18:24

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-4-(12-14)MS

Tot Ion	Ratio	Resp	Lower	Upper
65	100	261791		
67	53.9	0.0	109.4	

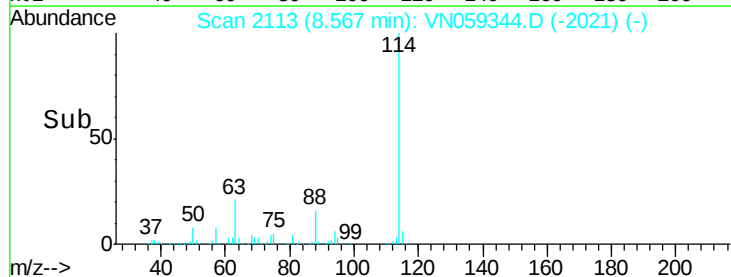
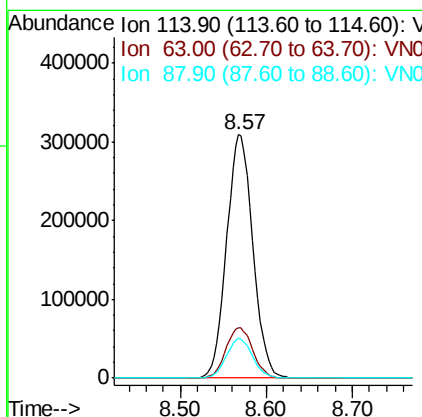
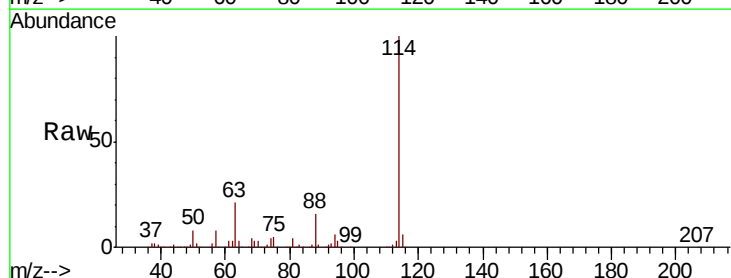
Manual Integrations
 APPROVED

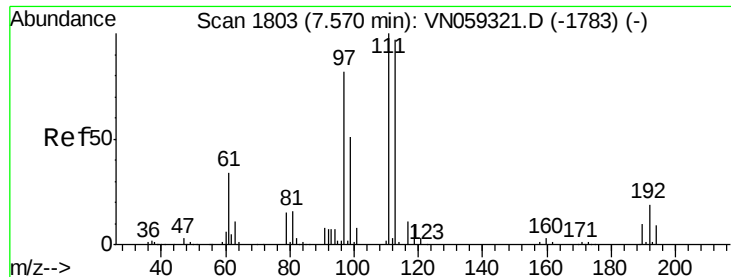
MMDadoda
 11/22/2019 3:12:50 PM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2113
 Delta R.T. -0.00 min
 Lab File: VN059344.D
 Acq: 21 Nov 2019 18:24

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	654535		
63	20.9	0.0	42.2	
88	16.3	0.0	32.2	





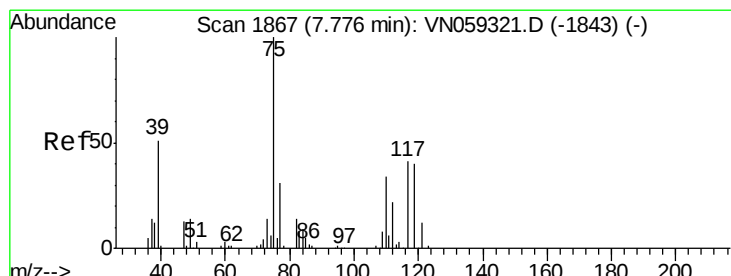
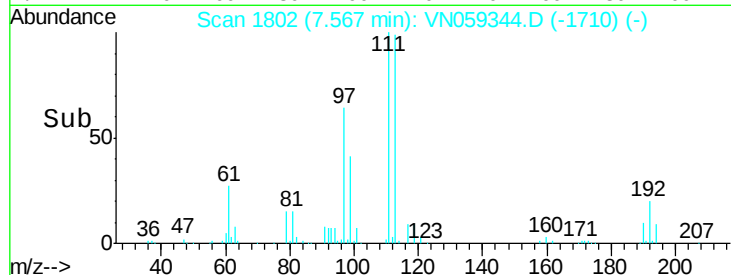
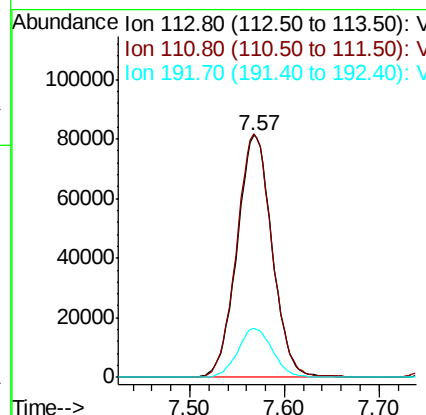
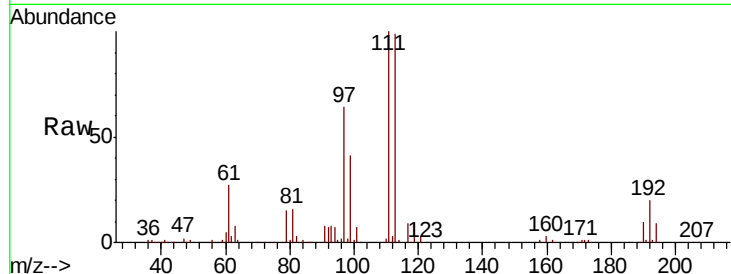
#35
Dibromofluoromethane
Concen: 53.241 ug/l
RT: 7.57 min Scan# 1802
Delta R.T. -0.00 min
Lab File: VN059344.D
Acq: 21 Nov 2019 18:24

Instrument :
MSVOA_N
ClientSampleId :
MW-4-(12-14)MS

Tot Ion	Ratio	Resp	Lower	Upper
113	100	209070		
111	100.9	82.7	124.1	
192	20.0	16.3	24.5	

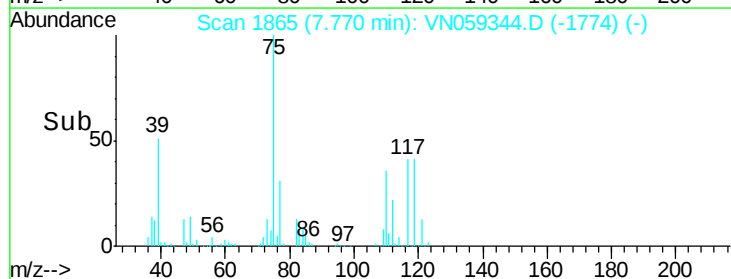
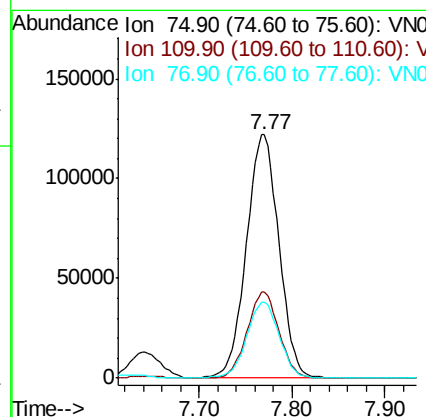
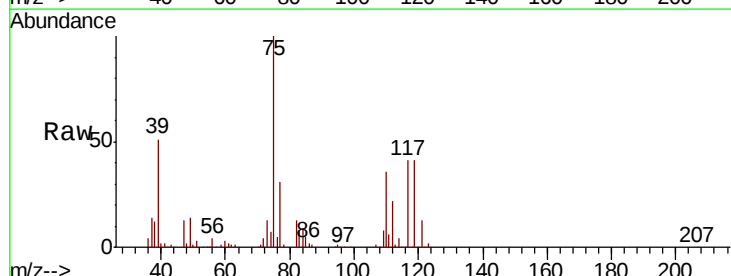
Manual Integrations
APPROVED

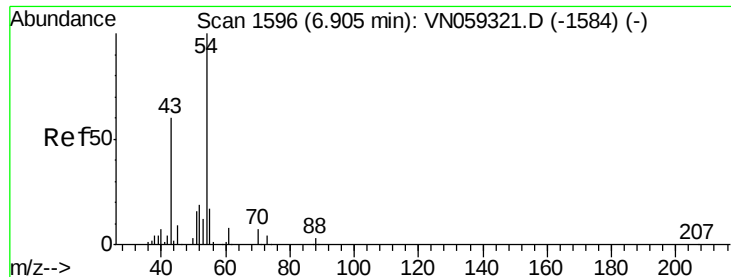
MMDadoda
11/22/2019 3:12:50 PM



#36
1,1-Dichloropropene
Concen: 43.730 ug/l
RT: 7.77 min Scan# 1865
Delta R.T. -0.01 min
Lab File: VN059344.D
Acq: 21 Nov 2019 18:24

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	295489		
110	34.5	17.0	51.0	
77	31.5	24.8	37.2	





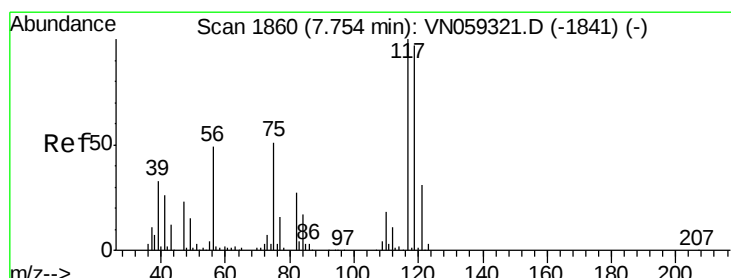
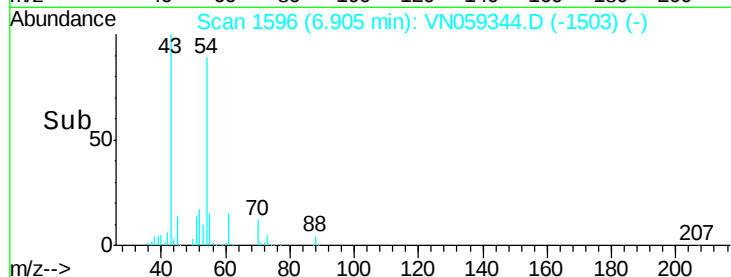
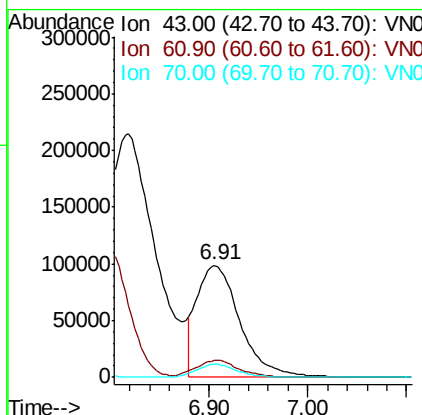
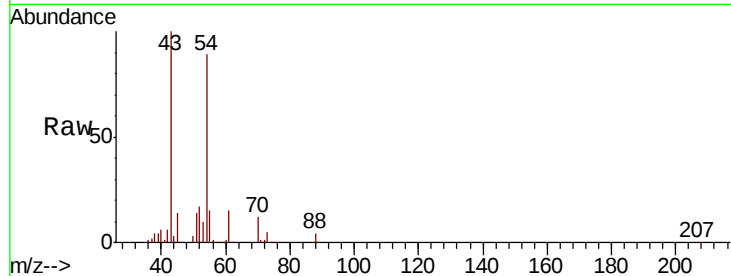
#37
Ethyl Acetate
Concen: 40.551 ug/l
RT: 6.91 min Scan# 1596
Delta R.T. 0.00 min
Lab File: VN059344.D
Acq: 21 Nov 2019 18:24

Instrument :
MSVOA_N
ClientSampleId :
MW-4-(12-14)MS

Tot Ion	Ratio	Lower	Upper
43	100		
61	15.2	11.0	16.6
70	11.4	8.8	13.2

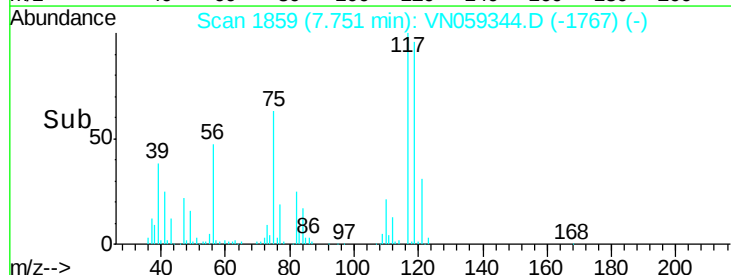
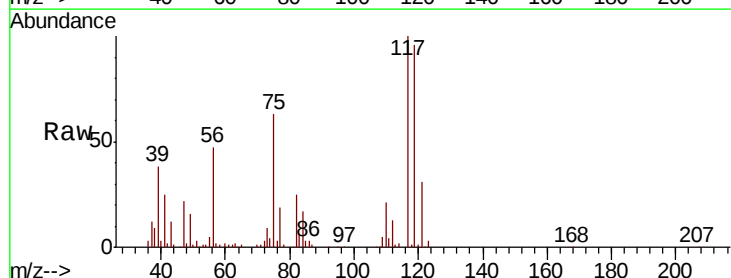
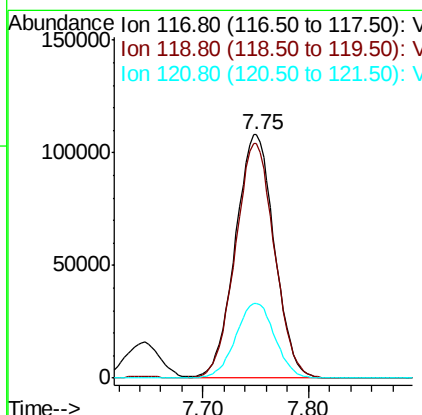
Manual Integrations
APPROVED

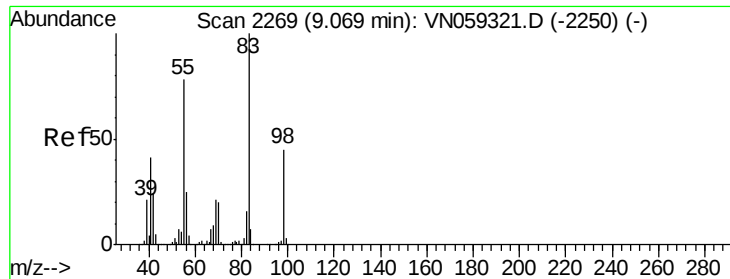
MMDadoda
11/22/2019 3:12:50 PM



#38
Carbon Tetrachloride
Concen: 43.032 ug/l
RT: 7.75 min Scan# 1859
Delta R.T. -0.00 min
Lab File: VN059344.D
Acq: 21 Nov 2019 18:24

Tgt Ion	Ratio	Lower	Upper
117	100		
119	96.2	77.0	115.4
121	30.9	24.4	36.6





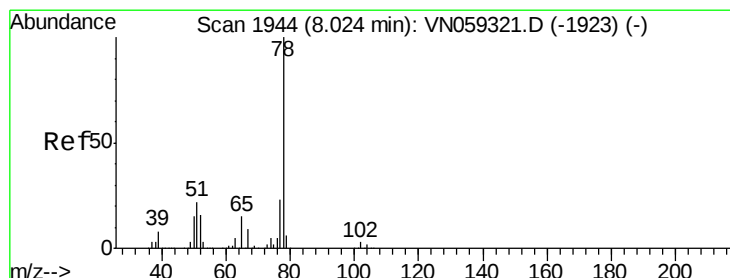
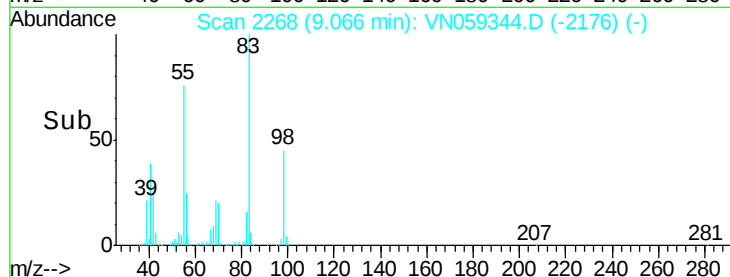
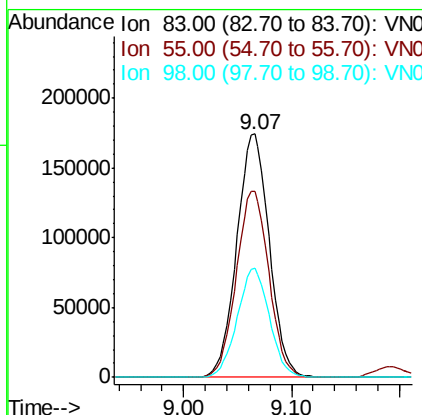
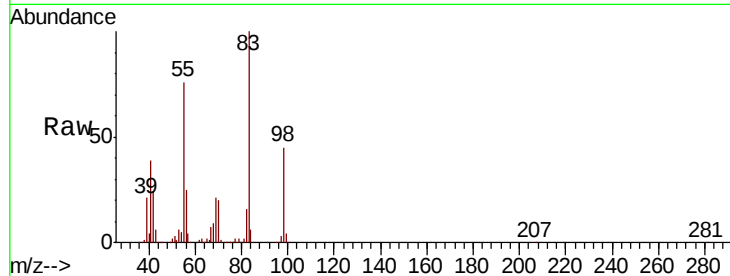
#39
Methylvlcyclohexane
Concen: 44.835 ug/l
RT: 9.07 min Scan# 2268
Delta R.T. -0.00 min
Lab File: VN059344.D
Acq: 21 Nov 2019 18:24

Instrument :
MSVOA_N
ClientSampleId :
MW-4-(12-14)MS

Tot Ion	Ratio	Lower	Upper
83	100		
55	76.4	62.3	93.5
98	44.8	36.0	54.0

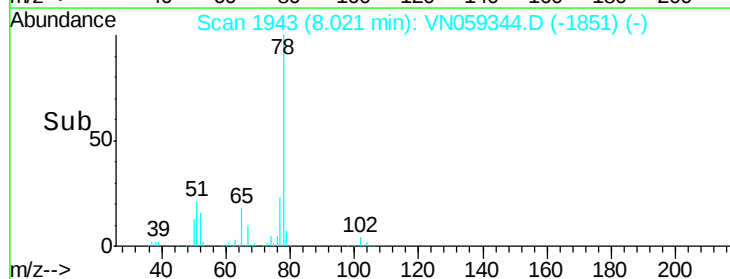
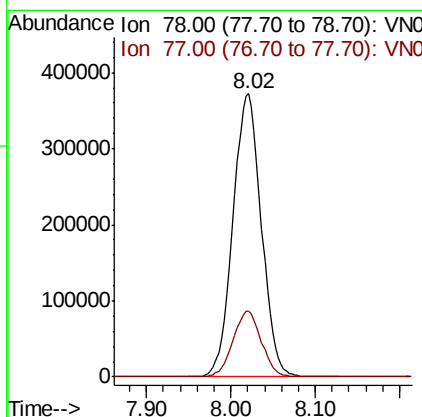
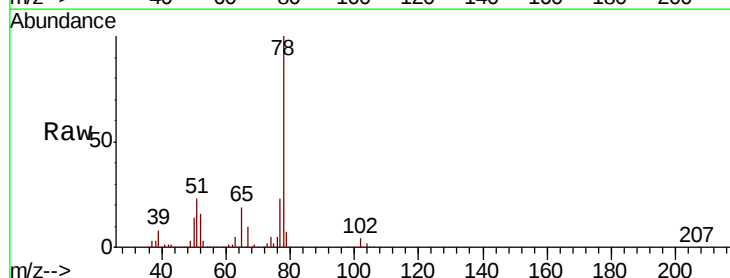
Manual Integrations
APPROVED

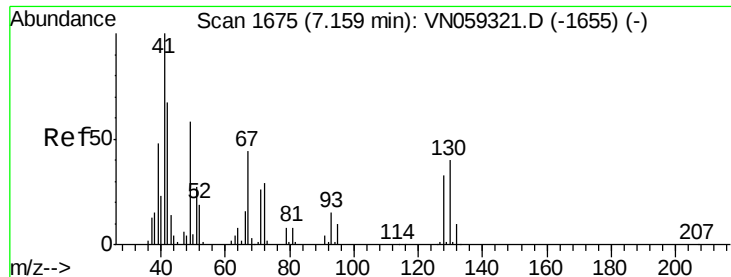
MMDadoda
11/22/2019 3:12:50 PM



#40
Benzene
Concen: 43.914 ug/l
RT: 8.02 min Scan# 1943
Delta R.T. -0.00 min
Lab File: VN059344.D
Acq: 21 Nov 2019 18:24

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.3	18.4	27.6





#41

Methacrylonitrile

Concen: 40.025 ug/l m

RT: 7.16 min Scan# 1675

Delta R.T. 0.00 min

Lab File: VN059344.D

Acq: 21 Nov 2019 18:24

Instrument :

MSVOA_N

ClientSampleId :

MW-4-(12-14)MS

Tot Ion: 41 Resp: 129033

Ion Ratio Lower Upper

41 100

39 148.0 0.0 0.0#

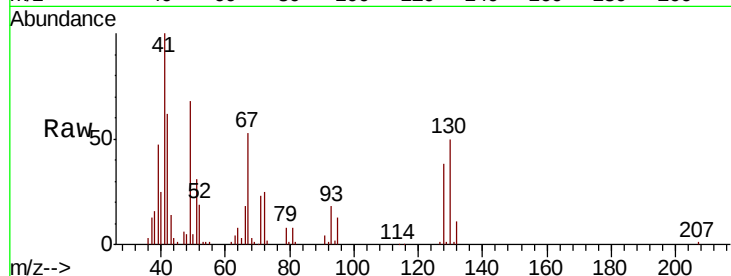
67 0.0 0.0 0.0

52 0.0 0.0 0.0

Manual Integrations
APPROVED

MMDadoda

11/22/2019 3:12:50 PM

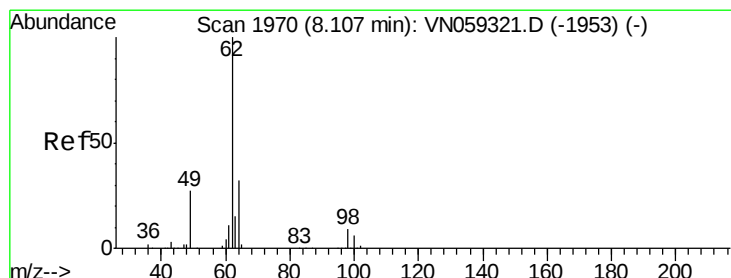
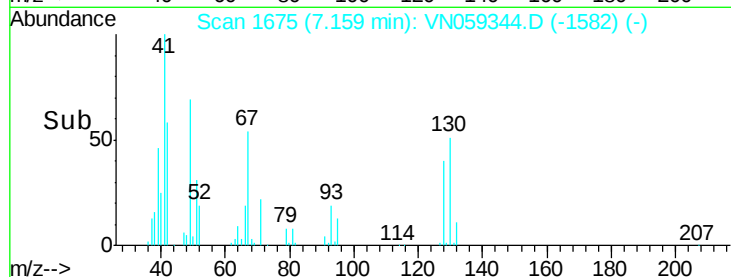
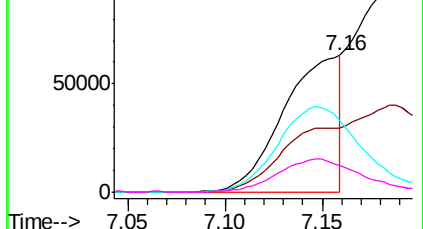


Abundance Ion 41.00 (40.70 to 41.70): VN059321.D (-1655) (-)

Ion 39.00 (38.70 to 39.70): VN059321.D (-1655) (-)

Ion 67.00 (66.70 to 67.70): VN059321.D (-1655) (-)

Ion 52.00 (51.70 to 52.70): VN059321.D (-1655) (-)



#42

1,2-Dichloroethane

Concen: 43.058 ug/l

RT: 8.10 min Scan# 1969

Delta R.T. -0.00 min

Lab File: VN059344.D

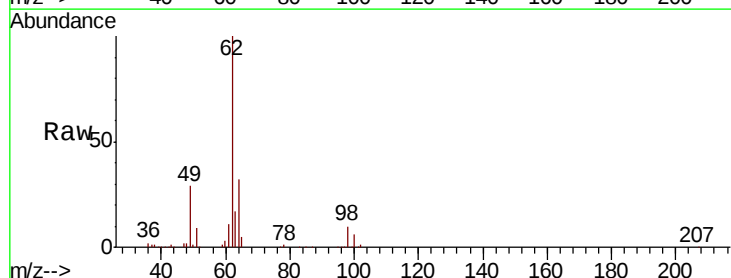
Acq: 21 Nov 2019 18:24

Tgt Ion: 62 Resp: 282417

Ion Ratio Lower Upper

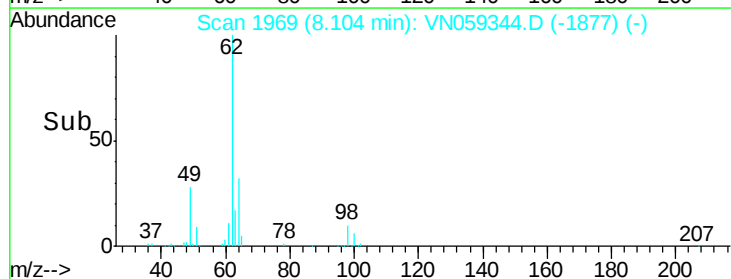
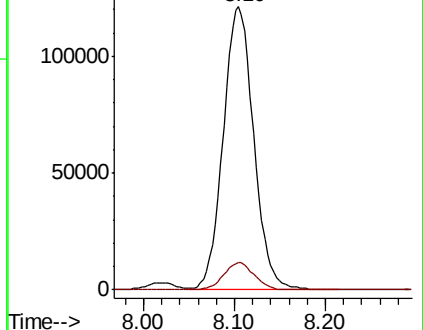
62 100

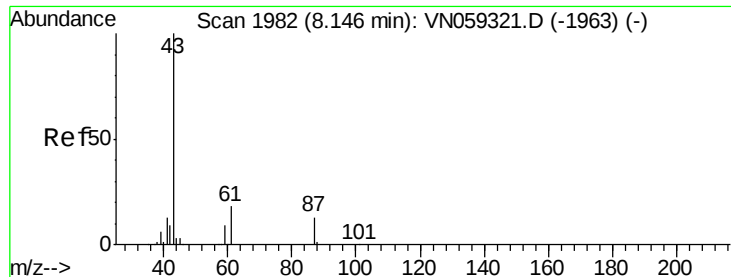
98 9.5 0.0 18.6



Abundance Ion 61.90 (61.60 to 62.60): VN059321.D (-1953) (-)

Ion 97.90 (97.60 to 98.60): VN059321.D (-1953) (-)





#43

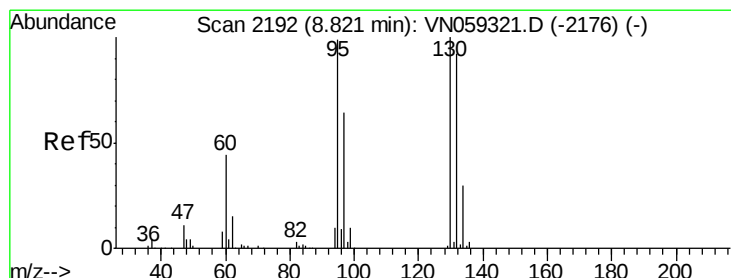
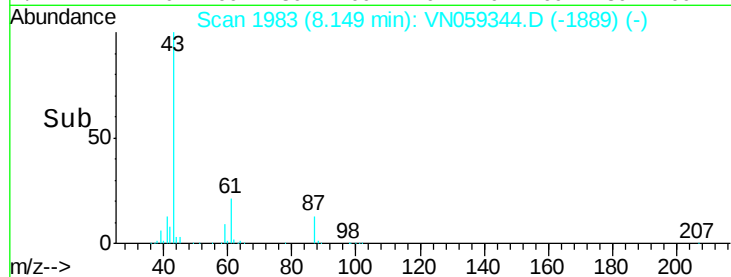
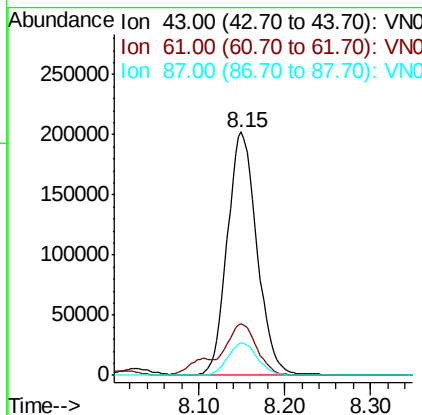
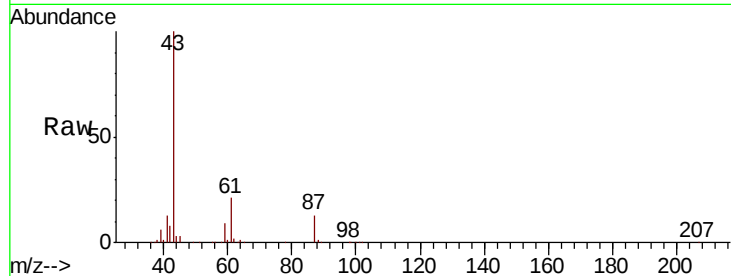
Isopropyl Acetate
 Concen: 43.333 ug/l
 RT: 8.15 min Scan# 1983
 Delta R.T. 0.00 min
 Lab File: VN059344.D
 Acq: 21 Nov 2019 18:24

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-4-(12-14)MS

Tot Ion	Ratio	Lower	Upper
43	100		
61	21.5	21.7	32.5#
87	13.5	10.2	15.4

Manual Integrations
 APPROVED

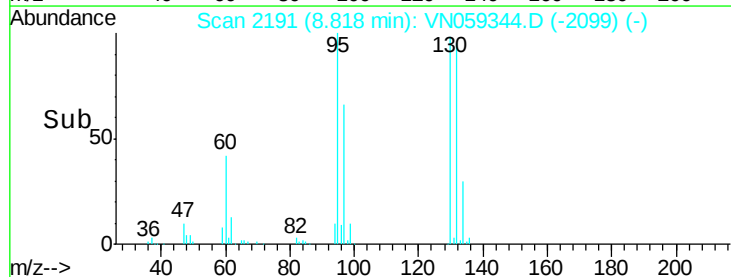
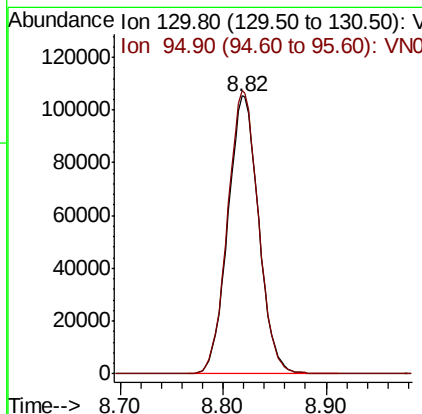
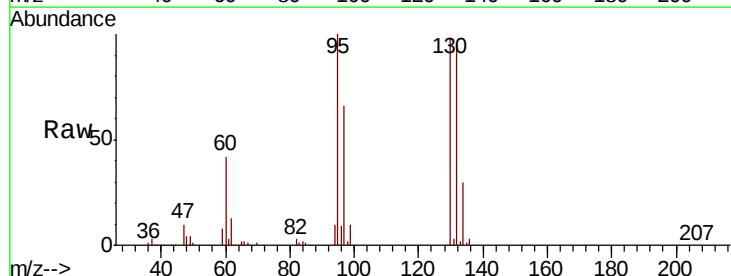
MMDadoda
 11/22/2019 3:12:50 PM

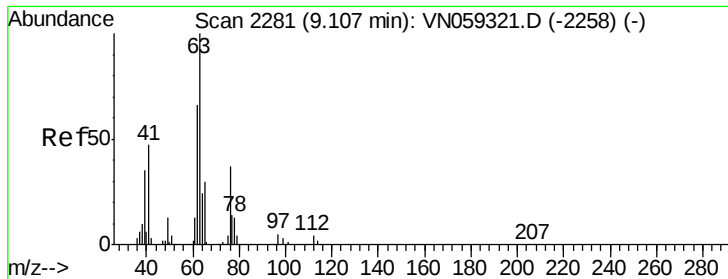


#44

Trichloroethene
 Concen: 43.554 ug/l
 RT: 8.82 min Scan# 2191
 Delta R.T. -0.00 min
 Lab File: VN059344.D
 Acq: 21 Nov 2019 18:24

Tgt Ion	Ratio	Lower	Upper
130	100		
95	101.9	0.0	198.4





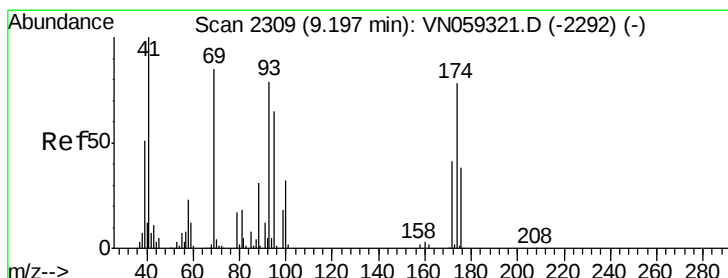
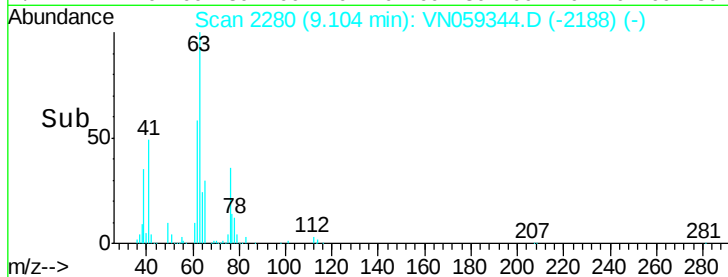
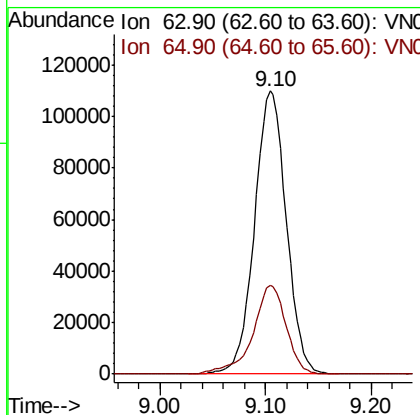
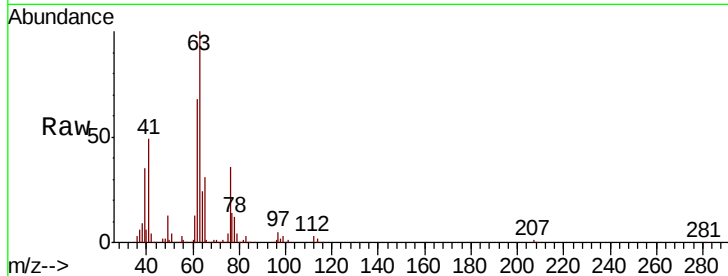
#45
 1,2-Dichloropropane
 Concen: 43.641 ug/l
 RT: 9.10 min Scan# 2280
 Delta R.T. -0.00 min
 Lab File: VN059344.D
 Acq: 21 Nov 2019 18:24

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-4-(12-14)MS

Tot Ion	Ratio	Lower	Upper
63	100		
65	31.4	23.9	35.9

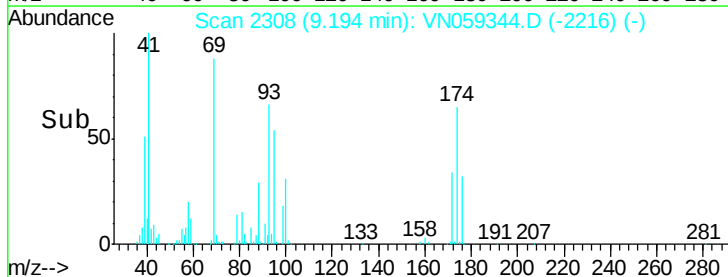
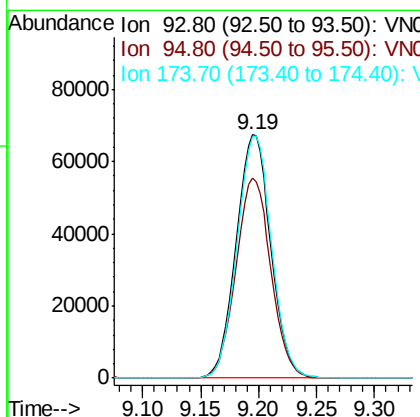
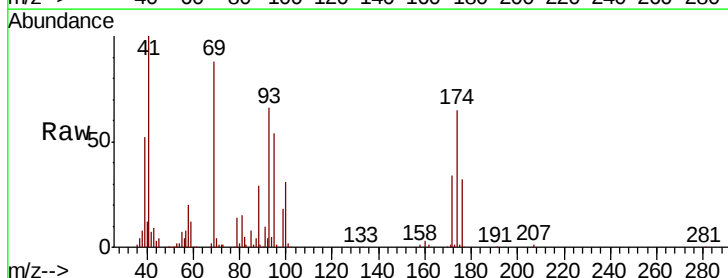
Manual Integrations
 APPROVED

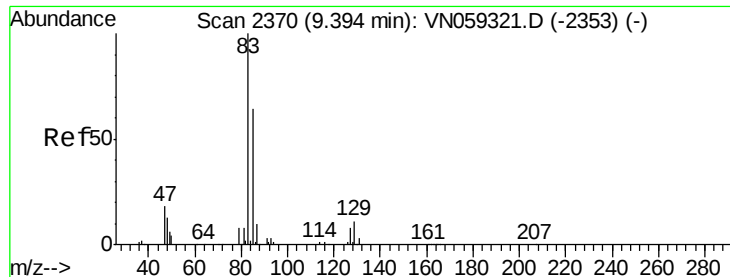
MMDadoda
 11/22/2019 3:12:50 PM



#46
 Dibromomethane
 Concen: 43.092 ug/l
 RT: 9.19 min Scan# 2308
 Delta R.T. -0.00 min
 Lab File: VN059344.D
 Acq: 21 Nov 2019 18:24

Tgt Ion	Ratio	Lower	Upper
93	100		
95	82.9	66.9	100.3
174	99.3	80.6	120.8





#47

Bromodichloromethane

Concen: 43.118 ug/l

RT: 9.39 min Scan# 2369

Delta R.T. -0.00 min

Lab File: VN059344.D

Acq: 21 Nov 2019 18:24

Instrument :

MSVOA_N

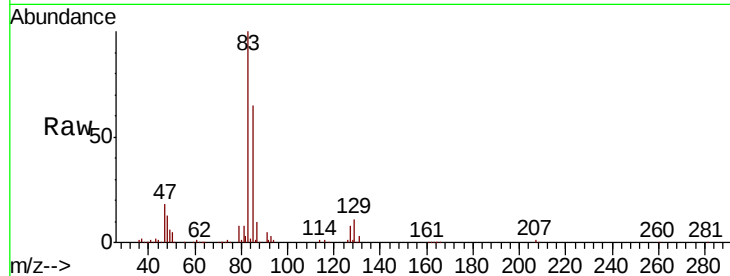
ClientSampleId :

MW-4-(12-14)MS

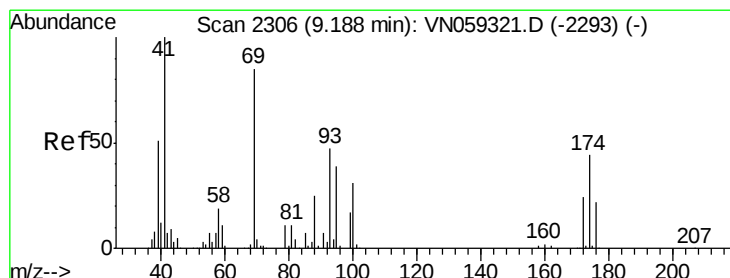
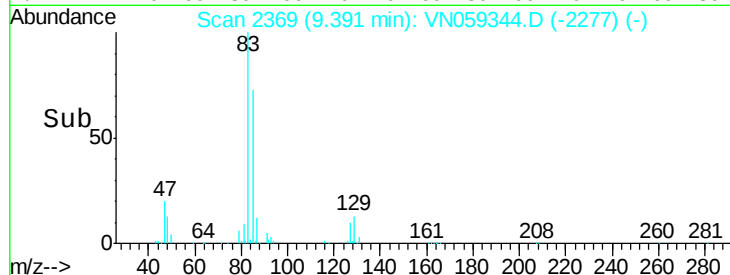
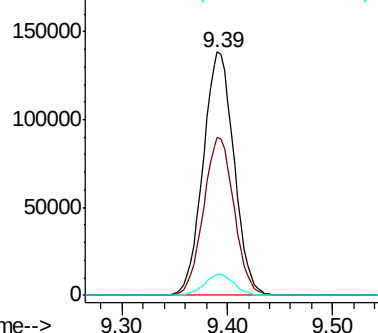
Tot Ion:	83	Resp:	280112
Ion Ratio	Lower	Upper	
83	100		
85	64.8	51.5	77.3
127	8.4	6.6	10.0

Manual Integrations
APPROVED

MMDadoda
11/22/2019 3:12:50 PM



Abundance Ion 82.90 (82.60 to 83.60): VNO
Ion 84.90 (84.60 to 85.60): VNO
Ion 126.80 (126.50 to 127.50): V



#48

Methyl methacrylate

Concen: 42.940 ug/l

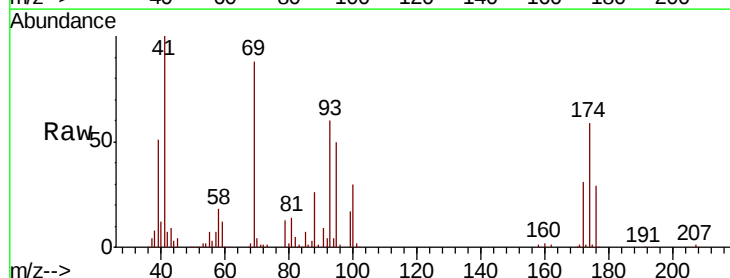
RT: 9.19 min Scan# 2307

Delta R.T. 0.00 min

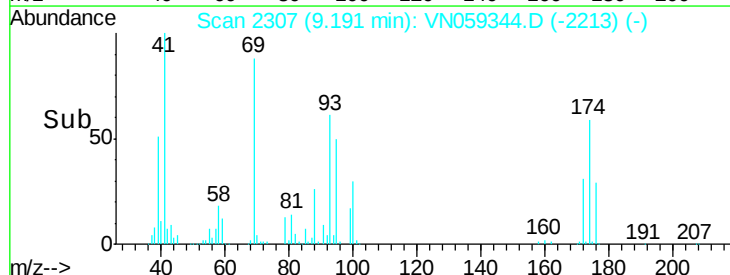
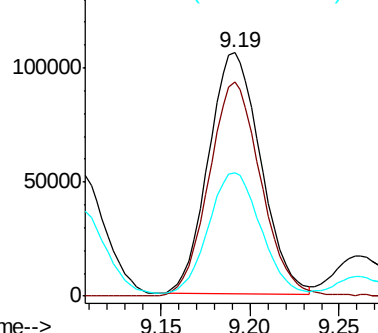
Lab File: VN059344.D

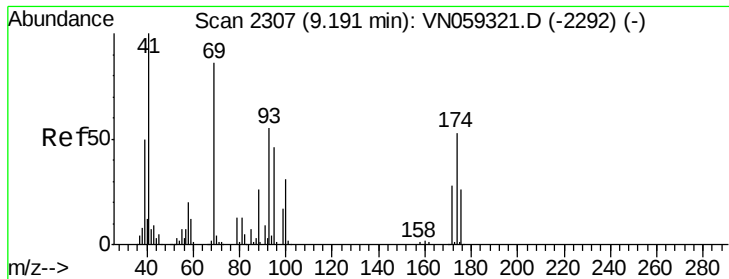
Acq: 21 Nov 2019 18:24

Tgt Ion:	41	Resp:	216716
Ion Ratio	Lower	Upper	
41	100		
69	88.8	68.8	103.2
39	51.8	42.1	63.1



Abundance Ion 41.00 (40.70 to 41.70): VNO
Ion 69.00 (68.70 to 69.70): VNO
Ion 39.00 (38.70 to 39.70): VNO





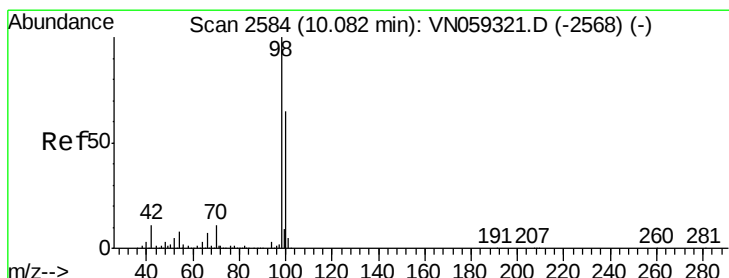
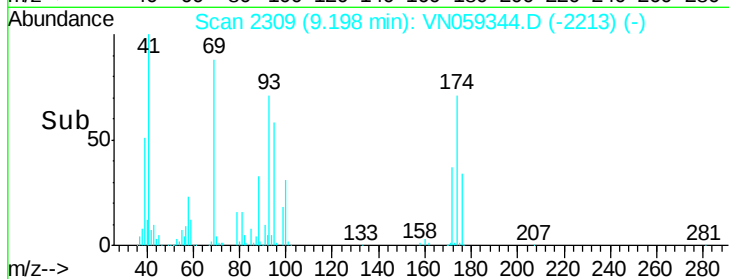
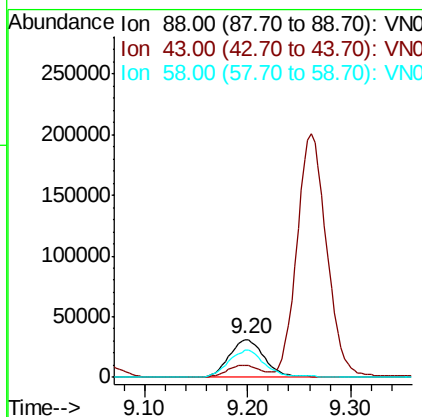
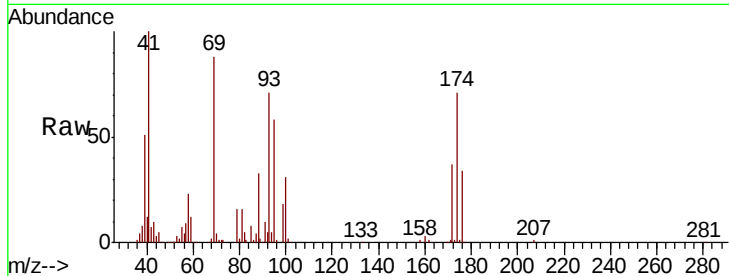
#49
1,4-Dioxane
Concen: 989.968 ug/l
RT: 9.20 min Scan# 2309
Delta R.T. 0.01 min
Lab File: VN059344.D
Acq: 21 Nov 2019 18:24

Instrument :
MSVOA_N
ClientSampleId :
MW-4-(12-14)MS

Tot Ion	Ratio	Lower	Upper
88	100		
43	29.2	26.9	40.3
58	71.6	59.2	88.8

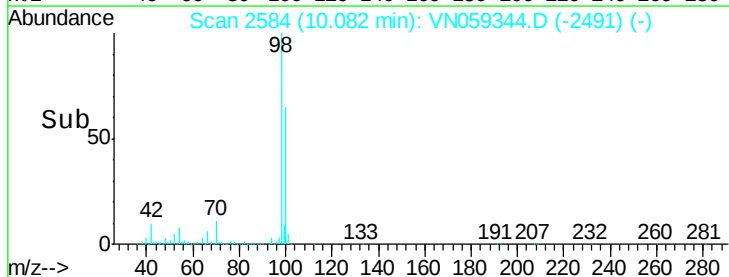
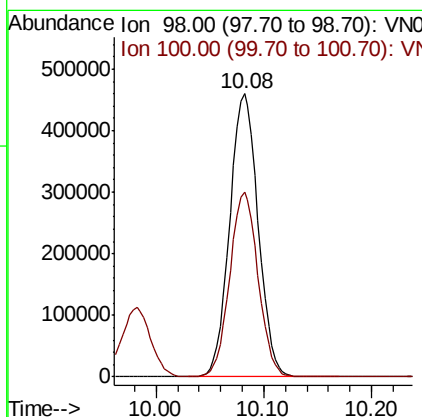
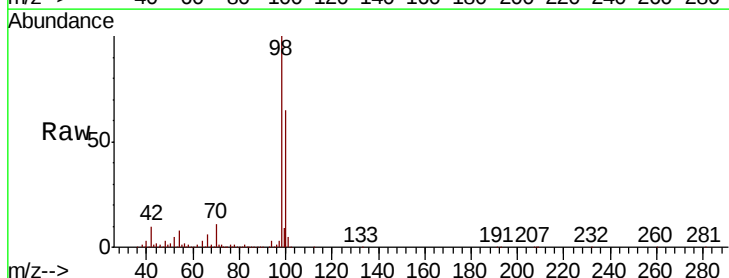
Manual Integrations
APPROVED

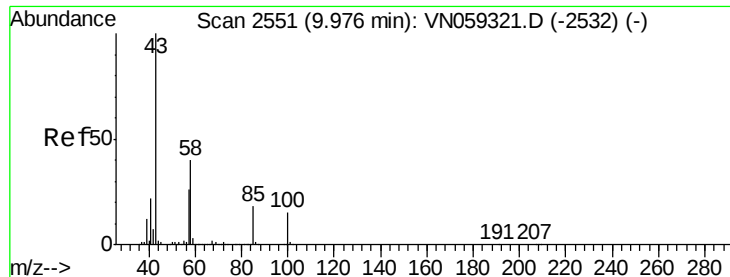
MMDadoda
11/22/2019 3:12:50 PM



#50
Toluene-d8
Concen: 53.864 ug/l
RT: 10.08 min Scan# 2584
Delta R.T. 0.00 min
Lab File: VN059344.D
Acq: 21 Nov 2019 18:24

Tgt Ion	Ratio	Lower	Upper
98	100		
100	64.7	51.7	77.5





#51

4-Methyl-2-Pentanone

Concen: 218.404 ug/l

RT: 9.98 min Scan# 2553

Delta R.T. 0.01 min

Lab File: VN059344.D

Acq: 21 Nov 2019 18:24

Instrument :

MSVOA_N

ClientSampleId :

MW-4-(12-14)MS

Tot Ion: 43 Resp: 1418788

Ion Ratio Lower Upper

43 100

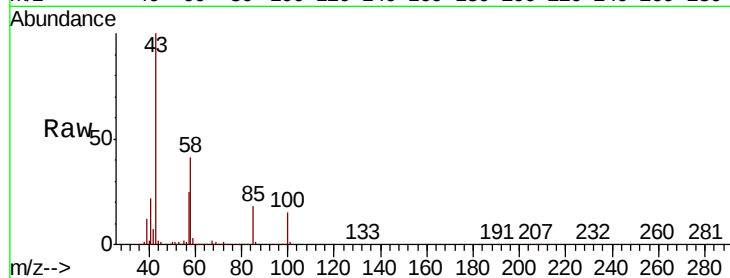
58 40.6 31.8 47.8

Manual Integrations

APPROVED

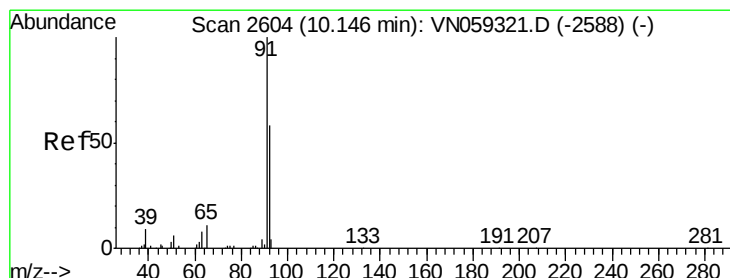
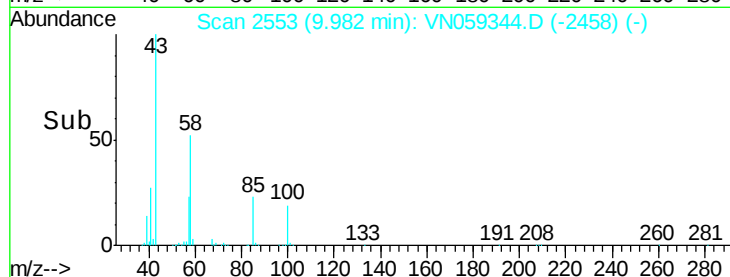
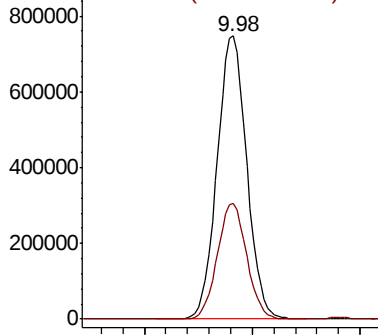
MMDadoda

11/22/2019 3:12:50 PM



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#52

Toluene

Concen: 44.372 ug/l

RT: 10.15 min Scan# 2604

Delta R.T. 0.00 min

Lab File: VN059344.D

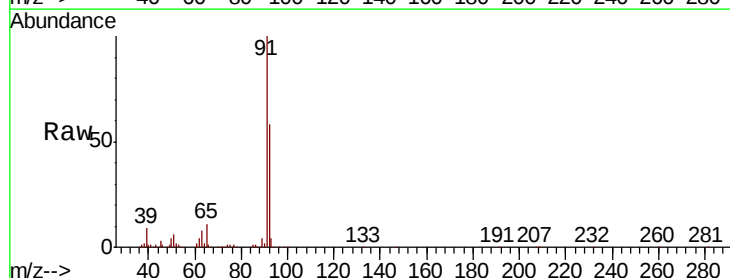
Acq: 21 Nov 2019 18:24

Tgt Ion: 92 Resp: 529125

Ion Ratio Lower Upper

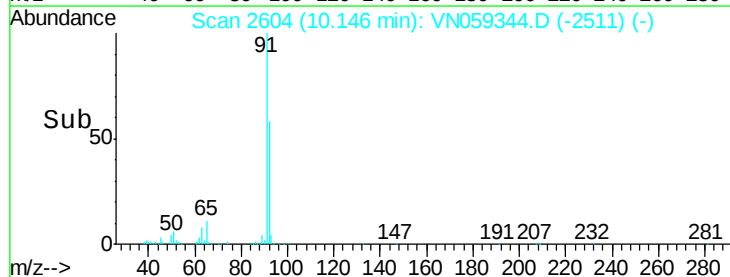
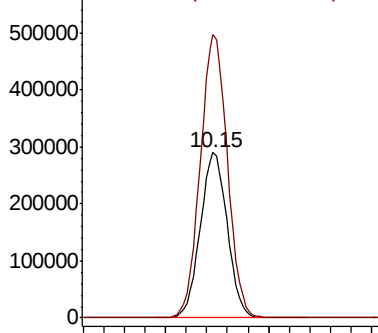
92 100

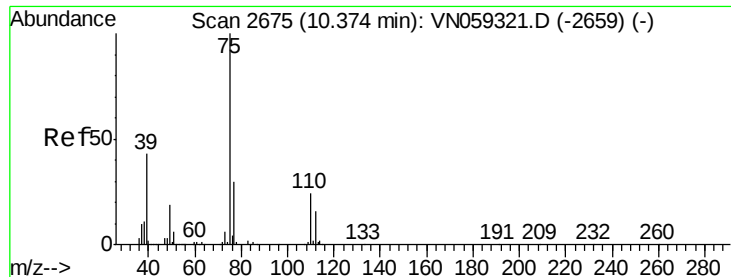
91 172.2 137.9 206.9



Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0





#53

t-1,3-Dichloropropene

Concen: 44.260 ug/l

RT: 10.37 min Scan# 2675

Delta R.T. 0.00 min

Lab File: VN059344.D

Acq: 21 Nov 2019 18:24

Instrument :

MSVOA_N

ClientSampleId :

MW-4-(12-14)MS

Tot Ion: 75 Resp: 334241

Ion Ratio Lower Upper

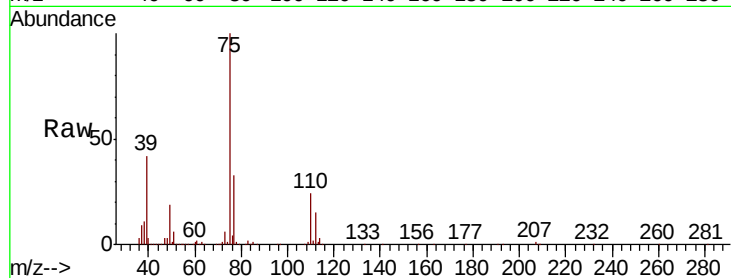
75 100

77 32.2 25.5 38.3

Manual Integrations
APPROVED

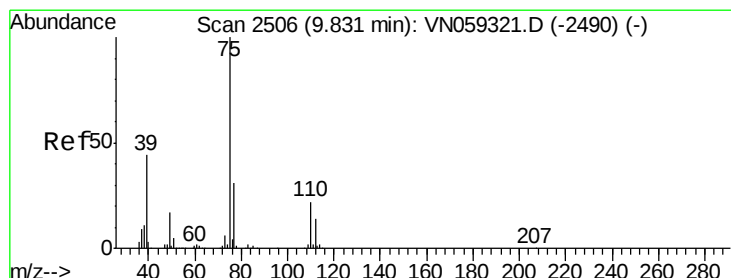
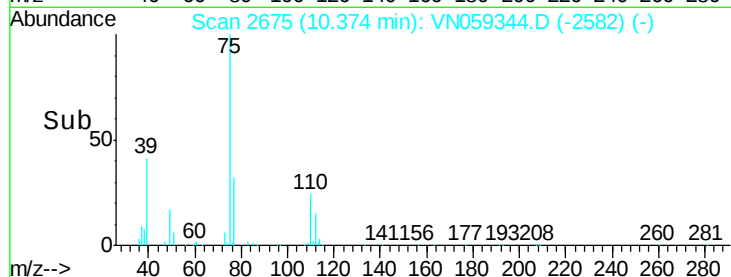
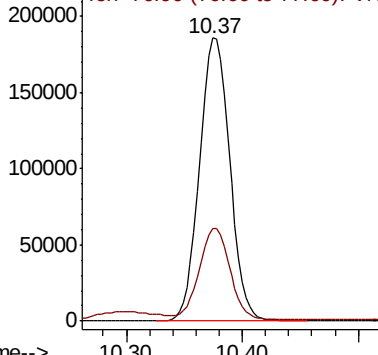
MMDadoda

11/22/2019 3:12:50 PM



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0



#54

cis-1,3-Dichloropropene

Concen: 44.945 ug/l

RT: 9.83 min Scan# 2506

Delta R.T. 0.00 min

Lab File: VN059344.D

Acq: 21 Nov 2019 18:24

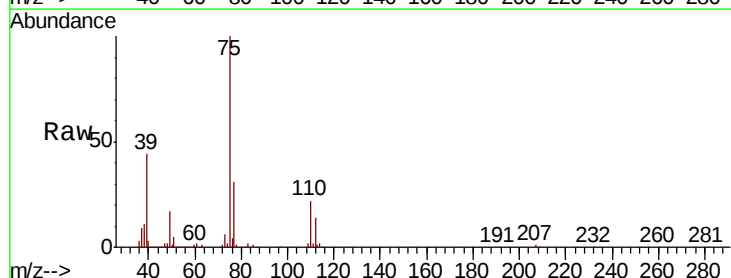
Tgt Ion: 75 Resp: 368308

Ion Ratio Lower Upper

75 100

77 31.2 25.0 37.4

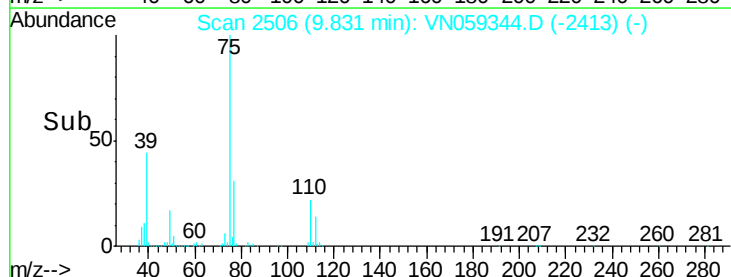
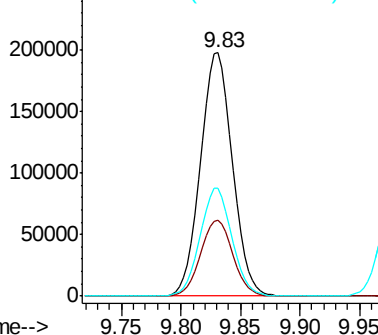
39 43.9 35.5 53.3

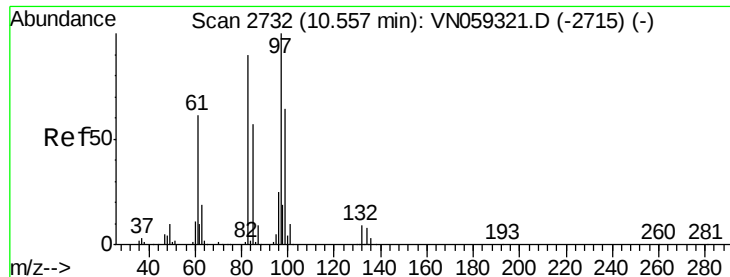


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0





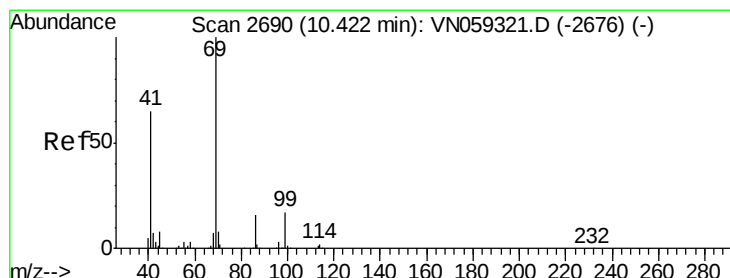
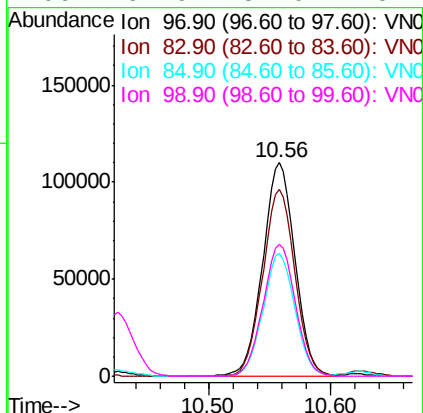
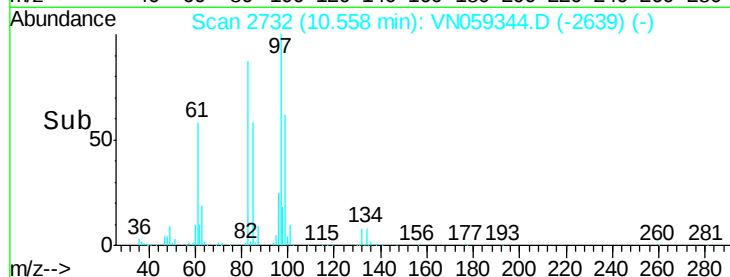
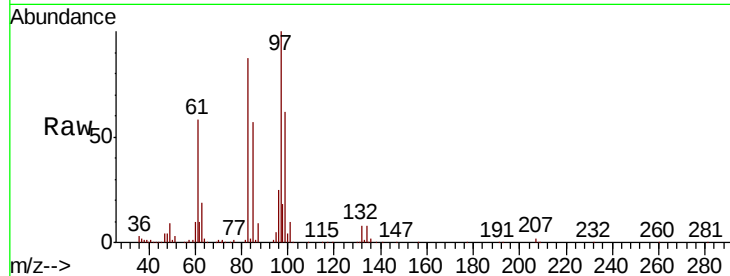
#55
 1,1,2-Trichloroethane
 Concen: 43.706 ug/l
 RT: 10.56 min Scan# 2732
 Delta R.T. 0.00 min
 Lab File: VN059344.D
 Acq: 21 Nov 2019 18:24

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-4-(12-14)MS

Tot Ion:	97	Resp:	202641
Ion	Ratio	Lower	Upper
97	100		
83	87.4	72.0	108.0
85	57.5	45.8	68.6
99	61.9	51.0	76.4

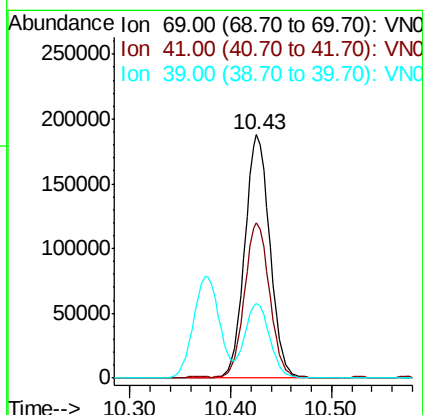
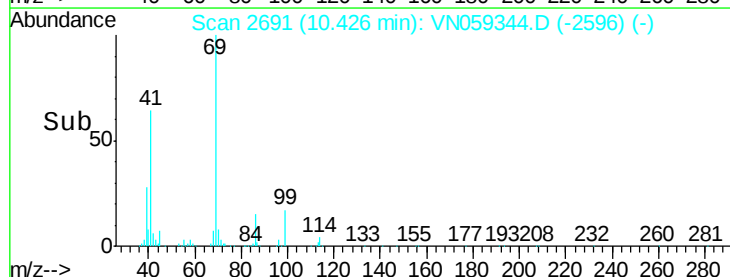
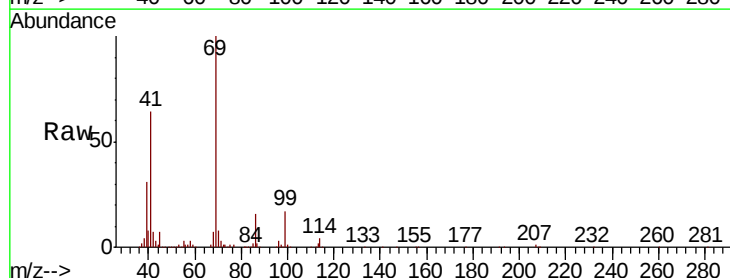
Manual Integrations
 APPROVED

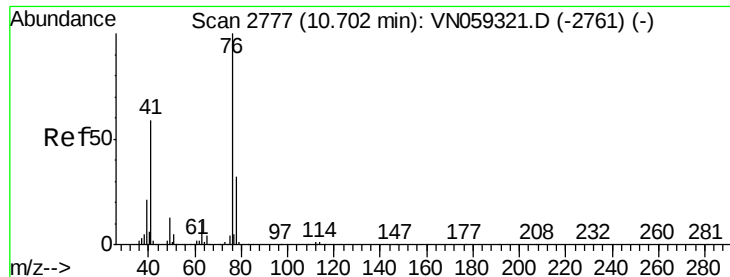
MMDadoda
 11/22/2019 3:12:50 PM



#56
 Ethyl methacrylate
 Concen: 41.476 ug/l
 RT: 10.43 min Scan# 2691
 Delta R.T. 0.00 min
 Lab File: VN059344.D
 Acq: 21 Nov 2019 18:24

Tgt Ion:	69	Resp:	321720
Ion	Ratio	Lower	Upper
69	100		
41	62.9	51.7	77.5
39	30.1	25.2	37.8





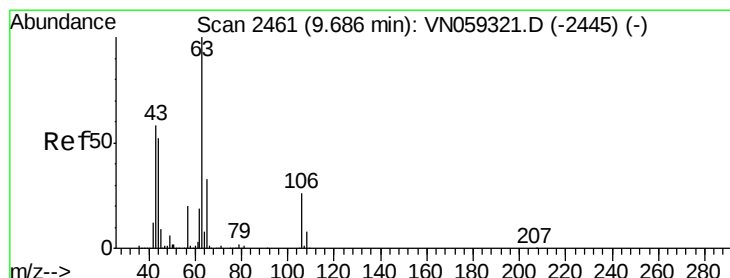
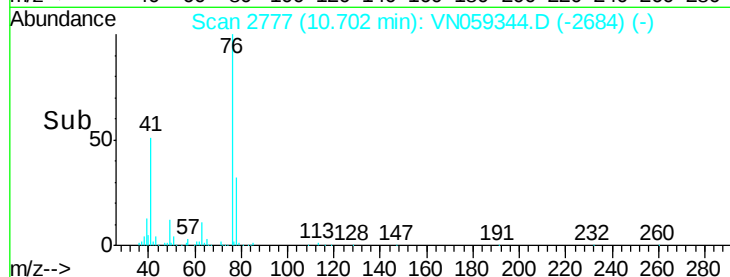
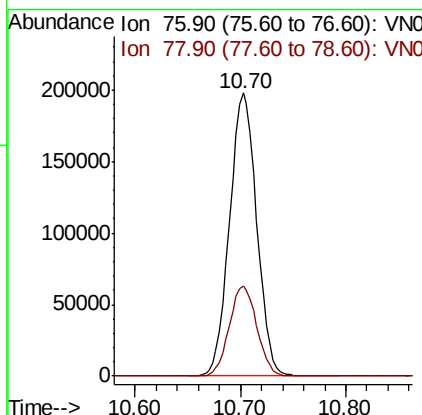
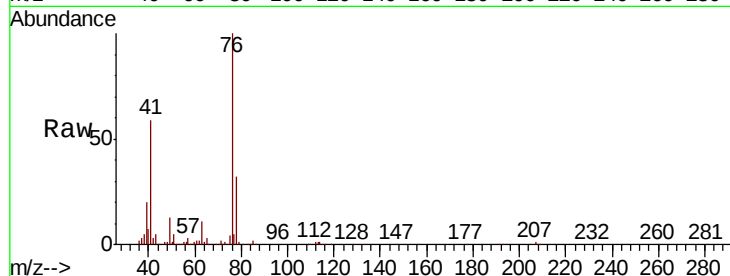
#57
 1,3-Dichloropropane
 Concen: 43.612 ug/l
 RT: 10.70 min Scan# 2777
 Delta R.T. 0.00 min
 Lab File: VN059344.D
 Acq: 21 Nov 2019 18:24

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-4-(12-14)MS

Tot Ion	Ratio	Lower	Upper
76	100		
78	32.5	26.0	39.0

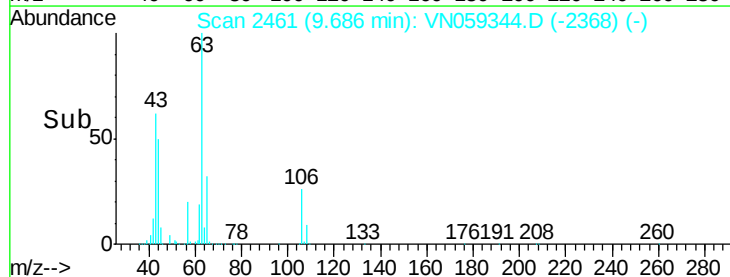
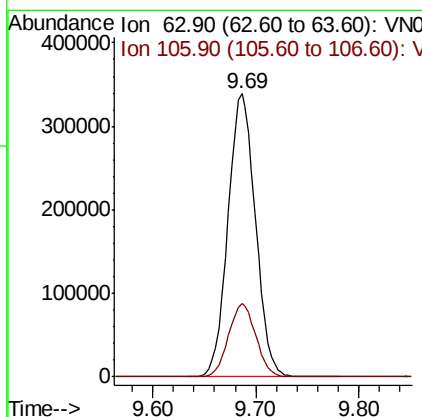
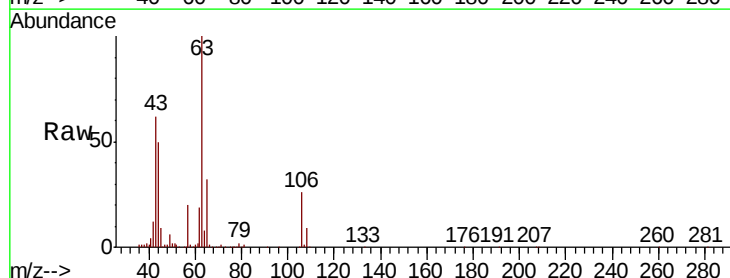
Manual Integrations
 APPROVED

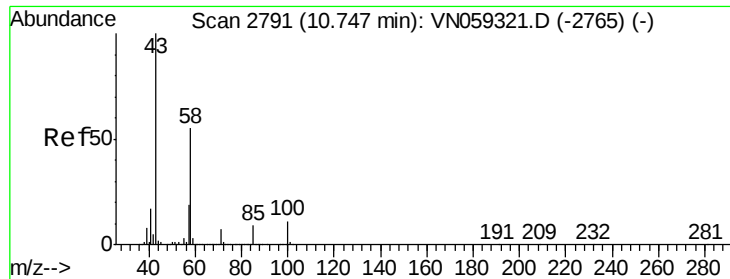
MMDadoda
 11/22/2019 3:12:50 PM



#58
 2-Chloroethyl Vinyl ether
 Concen: 221.648 ug/l
 RT: 9.69 min Scan# 2461
 Delta R.T. 0.00 min
 Lab File: VN059344.D
 Acq: 21 Nov 2019 18:24

Tgt Ion	Ratio	Lower	Upper
63	100		
106	25.8	20.5	30.7





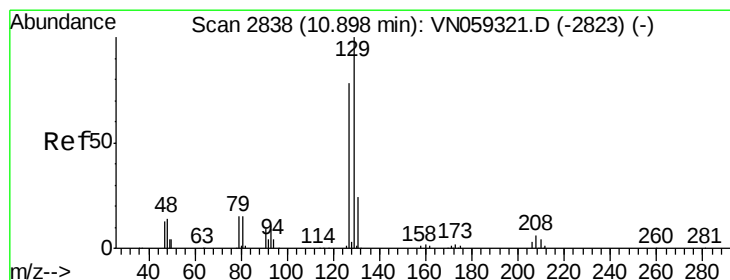
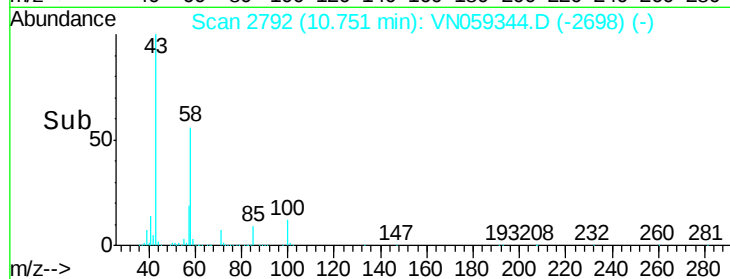
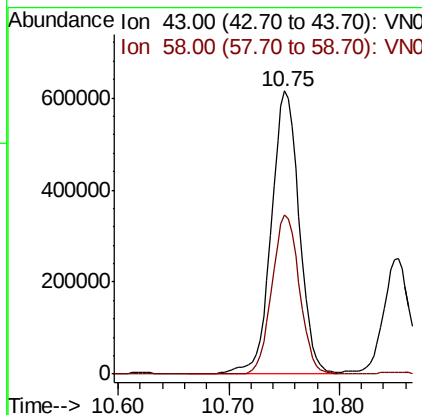
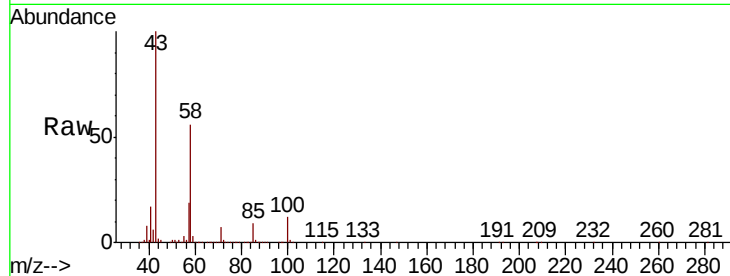
#59
2-Hexanone
Concen: 226.134 ug/l
RT: 10.75 min Scan# 2792
Delta R.T. 0.00 min
Lab File: VN059344.D
Acq: 21 Nov 2019 18:24

Instrument :
MSVOA_N
ClientSampleId :
MW-4-(12-14)MS

Tot Ion: 43 Resp: 1075670
Ion Ratio Lower Upper
43 100
58 55.5 27.7 83.0

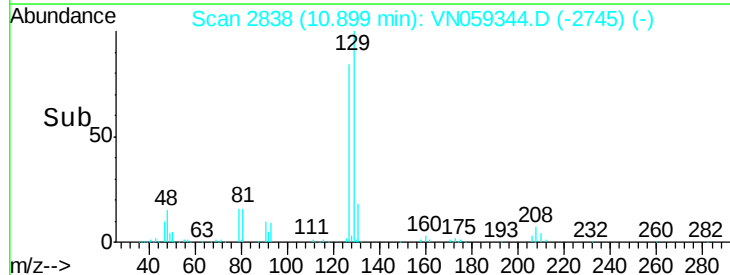
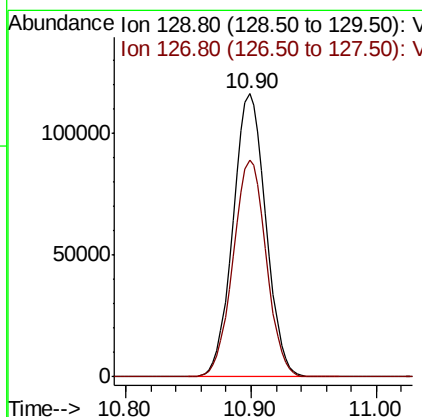
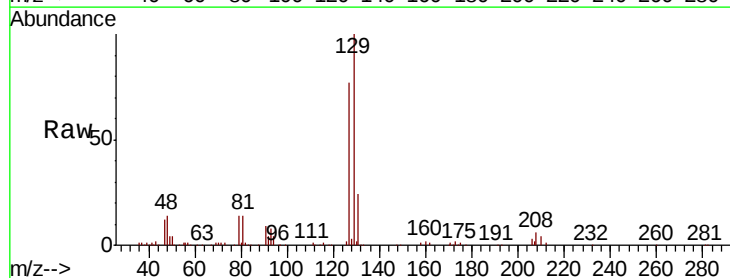
Manual Integrations
APPROVED

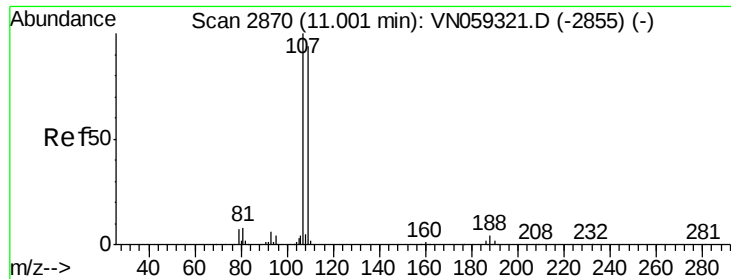
MMDadoda
11/22/2019 3:12:50 PM



#60
Dibromochloromethane
Concen: 43.193 ug/l
RT: 10.90 min Scan# 2838
Delta R.T. 0.00 min
Lab File: VN059344.D
Acq: 21 Nov 2019 18:24

Tgt Ion:129 Resp: 211029
Ion Ratio Lower Upper
129 100
127 77.2 38.5 115.5





#61

1,2-Dibromoethane

Concen: 43.594 ug/l

RT: 11.00 min Scan# 2870

Delta R.T. 0.00 min

Lab File: VN059344.D

Acq: 21 Nov 2019 18:24

Instrument :

MSVOA_N

ClientSampleId :

MW-4-(12-14)MS

Tot Ion: 107 Resp: 210309

Ion Ratio Lower Upper

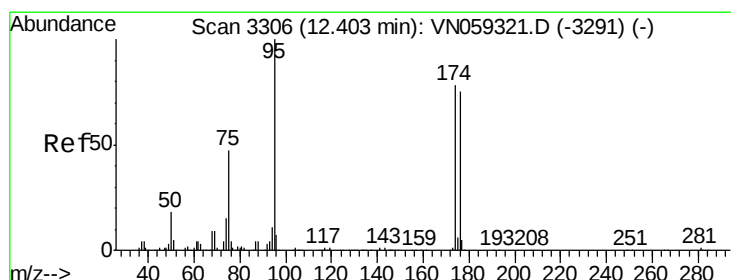
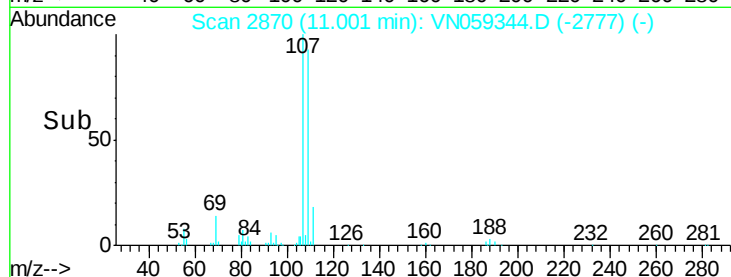
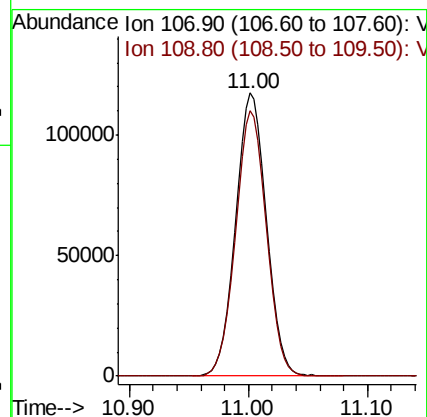
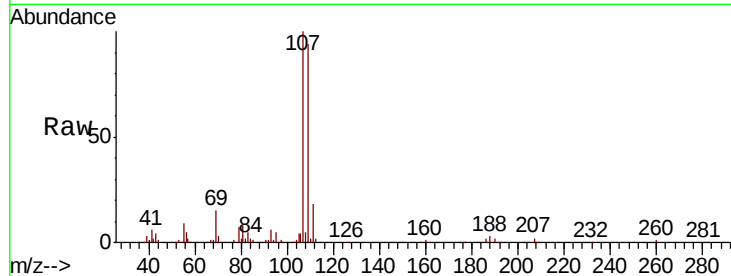
107 100

109 93.6 75.4 113.2

Manual Integrations
APPROVED

MMDadoda

11/22/2019 3:12:50 PM



#62

4-Bromofluorobenzene

Concen: 58.143 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN059344.D

Acq: 21 Nov 2019 18:24

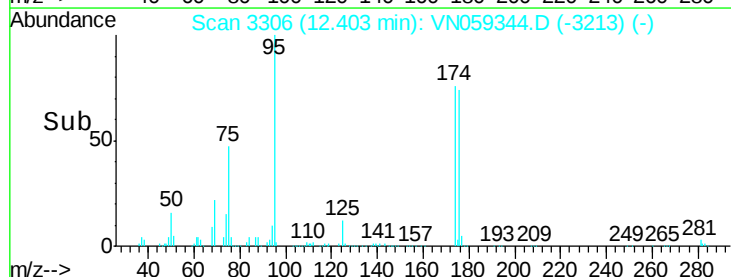
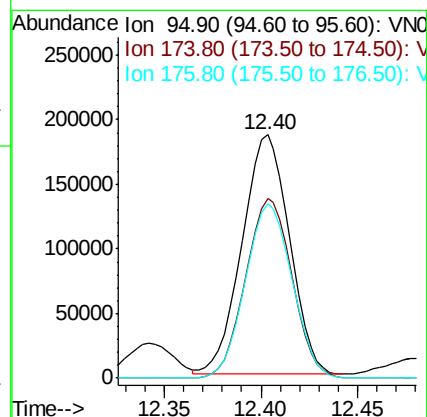
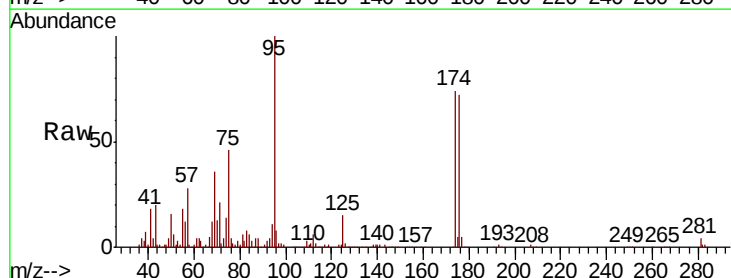
Tgt Ion: 95 Resp: 317371

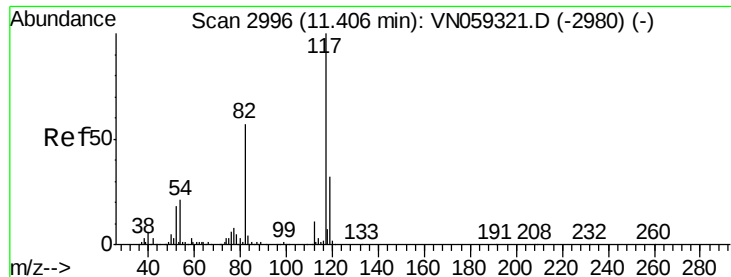
Ion Ratio Lower Upper

95 100

174 73.4 0.0 157.4

176 71.6 0.0 151.2





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN059344.D

Acq: 21 Nov 2019 18:24

Instrument :

MSVOA_N

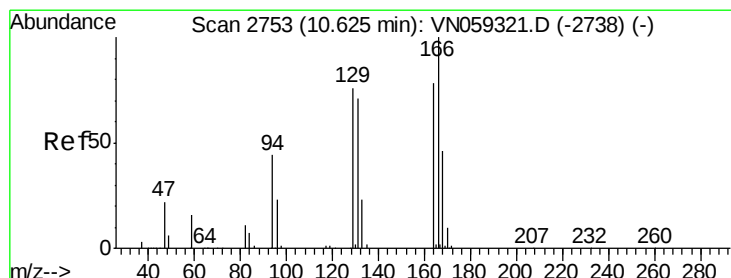
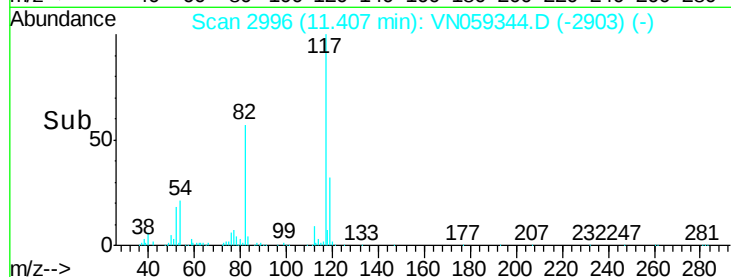
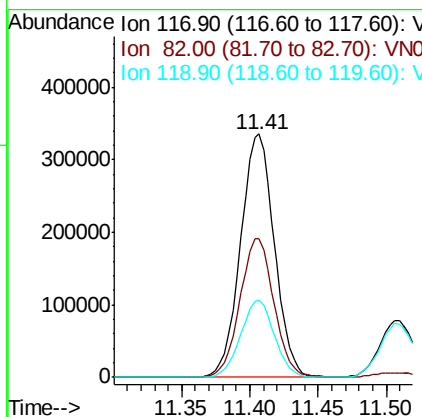
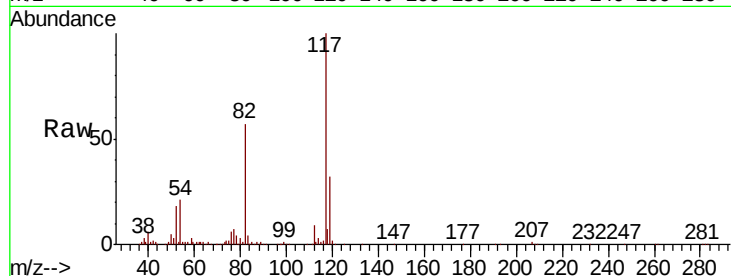
ClientSampleId :

MW-4-(12-14)MS

Tot Ion:	117	Resp:	576742
Ion Ratio	Lower	Upper	
117	100		
82	56.8	45.7	68.5
119	31.8	25.8	38.6

Manual Integrations
APPROVED

MMDadoda
11/22/2019 3:12:50 PM



#64

Tetrachloroethene

Concen: 42.395 ug/l

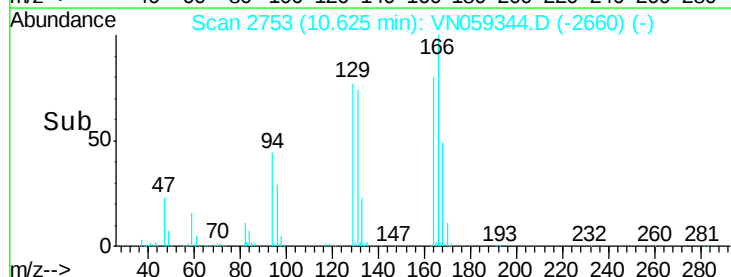
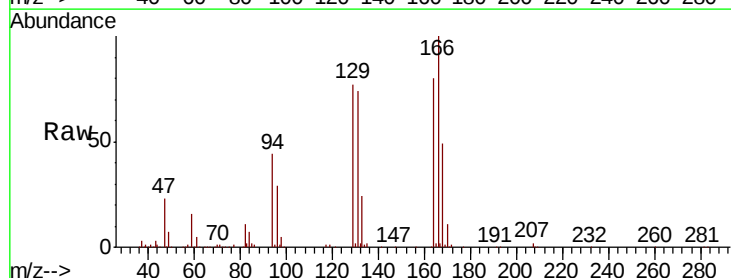
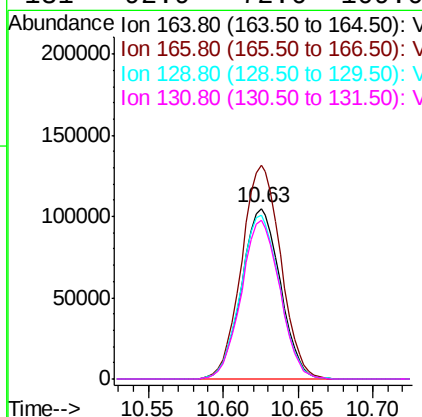
RT: 10.63 min Scan# 2753

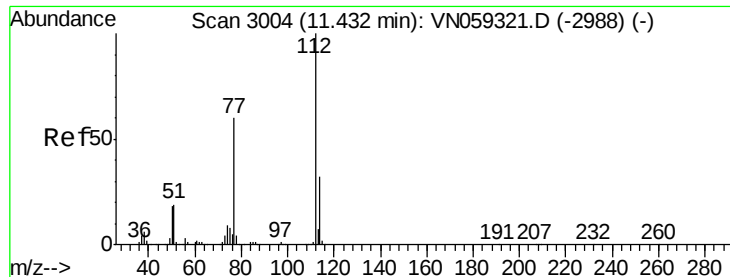
Delta R.T. 0.00 min

Lab File: VN059344.D

Acq: 21 Nov 2019 18:24

Tgt Ion:	164	Resp:	189106
Ion Ratio	Lower	Upper	
164	100		
166	125.2	102.9	154.3
129	96.0	78.2	117.2
131	92.9	72.6	109.0





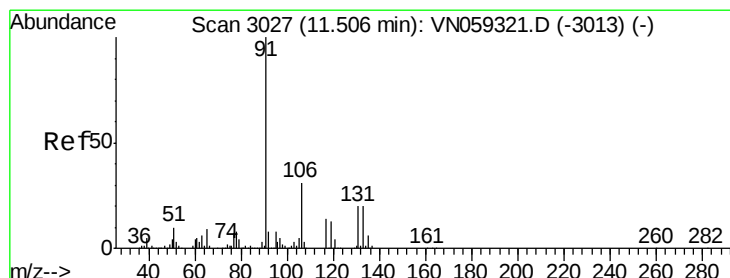
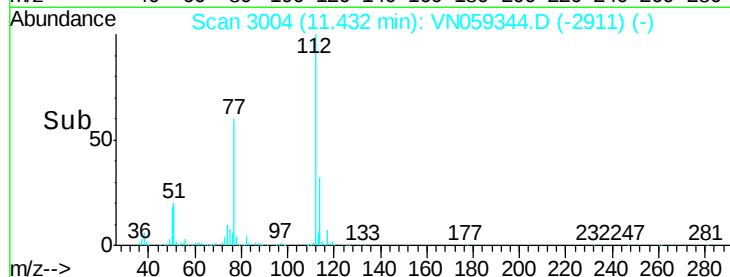
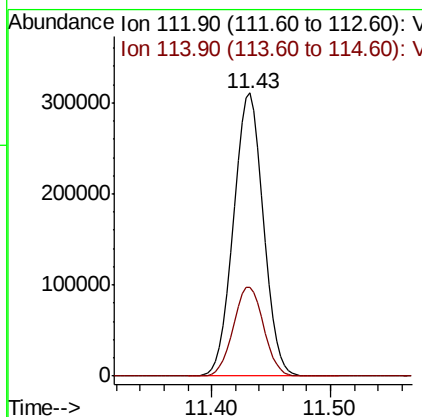
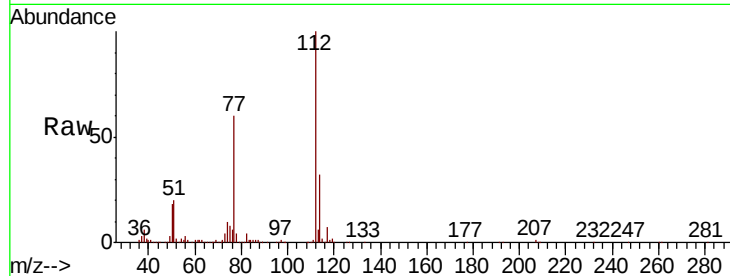
#65
Chlorobenzene
Concen: 43.563 ug/l
RT: 11.43 min Scan# 3004
Delta R.T. 0.00 min
Lab File: VN059344.D
Acq: 21 Nov 2019 18:24

Instrument :
MSVOA_N
ClientSampleId :
MW-4-(12-14)MS

Tot Ion	Ratio	Lower	Upper
112	100		
114	31.6	25.8	38.6

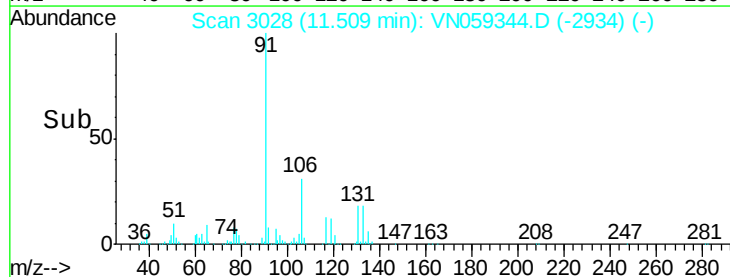
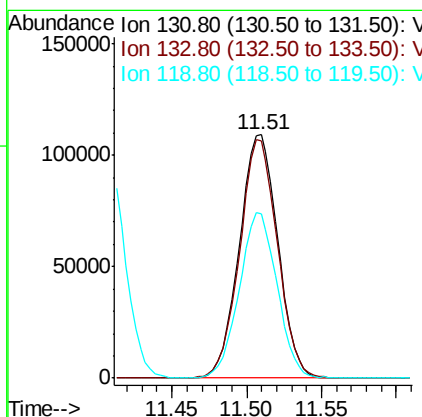
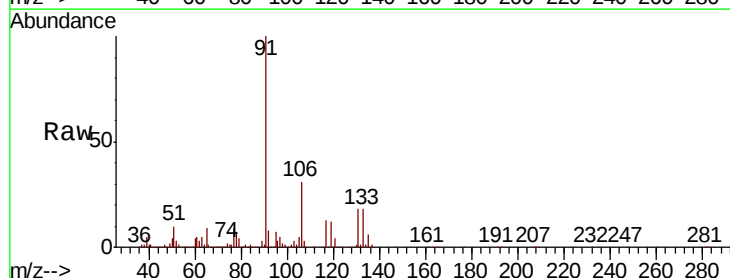
Manual Integrations
APPROVED

MMDadoda
11/22/2019 3:12:50 PM



#66
1,1,1,2-Tetrachloroethane
Concen: 43.316 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. 0.00 min
Lab File: VN059344.D
Acq: 21 Nov 2019 18:24

Tgt Ion	Ratio	Lower	Upper
131	100		
133	95.6	48.2	144.6
119	67.0	33.6	100.6





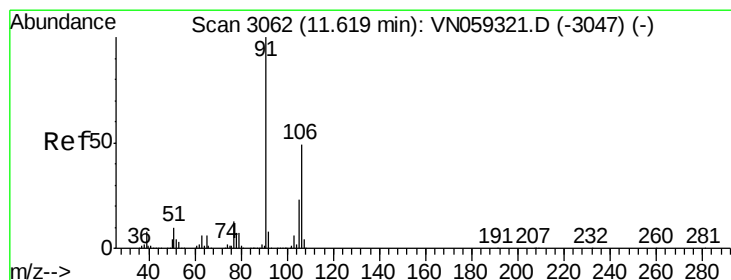
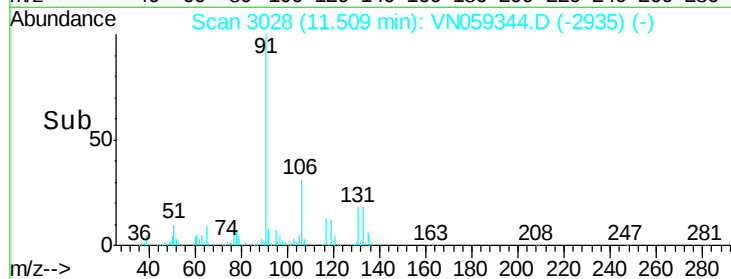
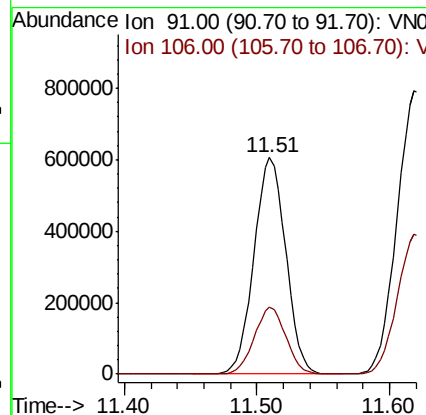
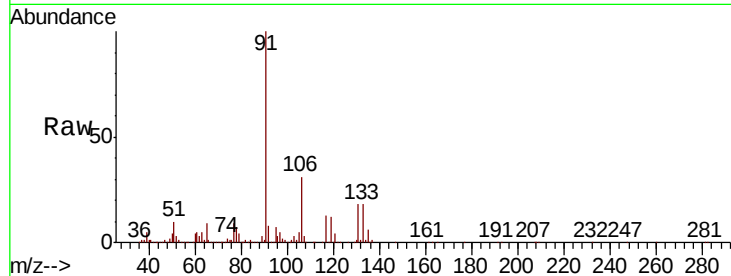
#67
Ethyl Benzene
Concen: 45.638 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. 0.00 min
Lab File: VN059344.D
Acq: 21 Nov 2019 18:24

Instrument :
MSVOA_N
ClientSampleId :
MW-4-(12-14)MS

Tot Ion: 91 Resp: 1010533
Ion Ratio Lower Upper
91 100
106 30.7 24.6 37.0

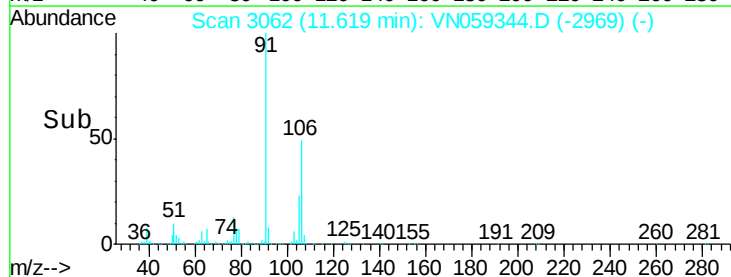
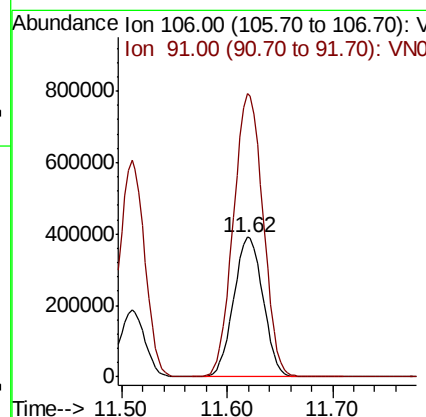
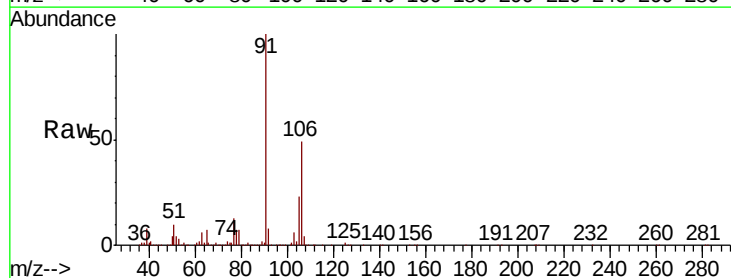
Manual Integrations
APPROVED

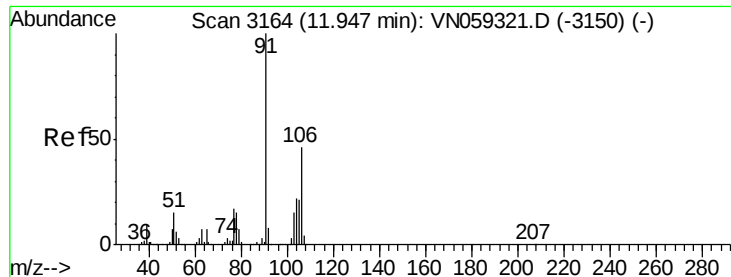
MMDadoda
11/22/2019 3:12:50 PM



#68
m/p-Xylenes
Concen: 91.620 ug/l
RT: 11.62 min Scan# 3062
Delta R.T. 0.00 min
Lab File: VN059344.D
Acq: 21 Nov 2019 18:24

Tgt Ion: 106 Resp: 753821
Ion Ratio Lower Upper
106 100
91 204.8 163.2 244.8





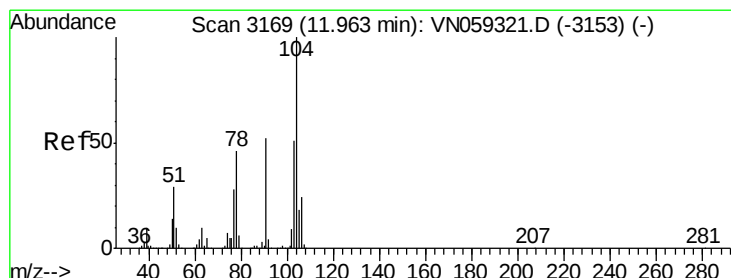
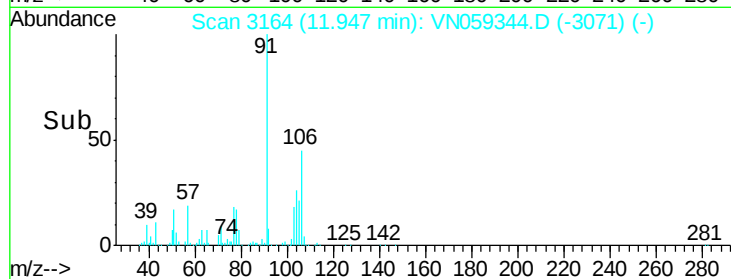
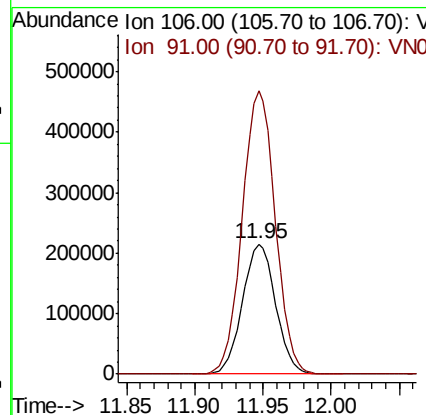
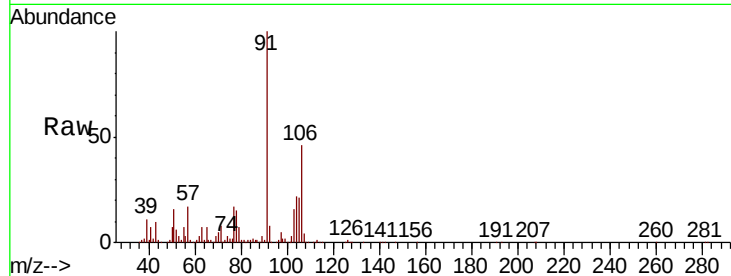
#69
o-Xylene
Concen: 46.016 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. 0.00 min
Lab File: VN059344.D
Acq: 21 Nov 2019 18:24

Instrument :
MSVOA_N
ClientSampleId :
MW-4-(12-14)MS

Tot Ion	Ion	Ratio	Lower	Upper
106	100			
91	216.8	109.3	327.9	

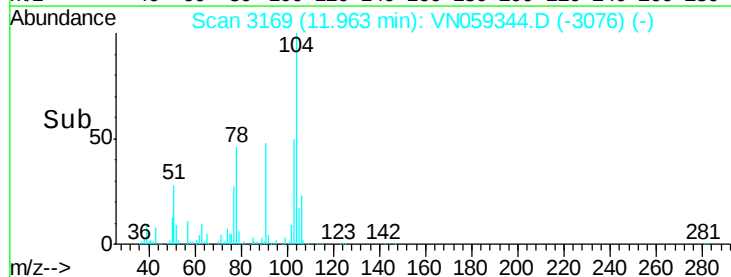
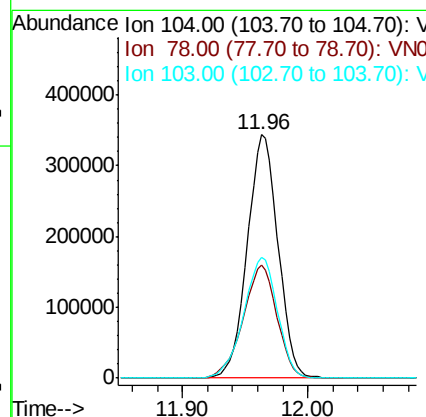
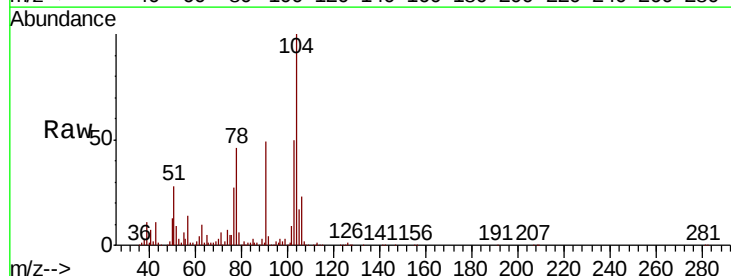
Manual Integrations
APPROVED

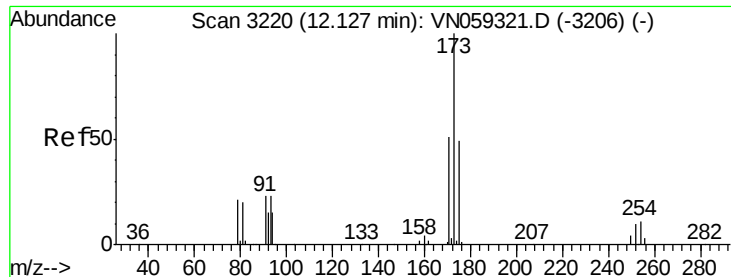
MMDadoda
11/22/2019 3:12:50 PM



#70
Styrene
Concen: 47.175 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. 0.00 min
Lab File: VN059344.D
Acq: 21 Nov 2019 18:24

Tgt Ion	Ion	Ratio	Lower	Upper
104	100			
78	51.1	40.3	60.5	
103	54.7	43.6	65.4	





#71

Bromoform

Concen: 44.050 ug/l

RT: 12.13 min Scan# 3221

Delta R.T. 0.00 min

Lab File: VN059344.D

Acq: 21 Nov 2019 18:24

Instrument :

MSVOA_N

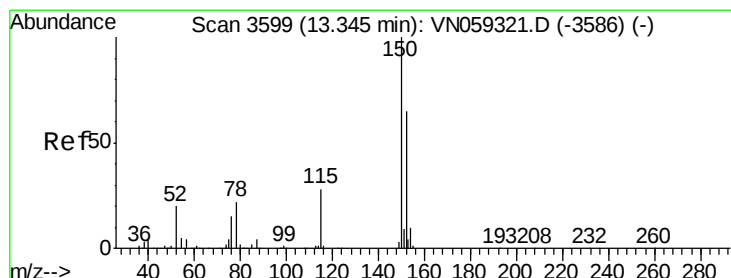
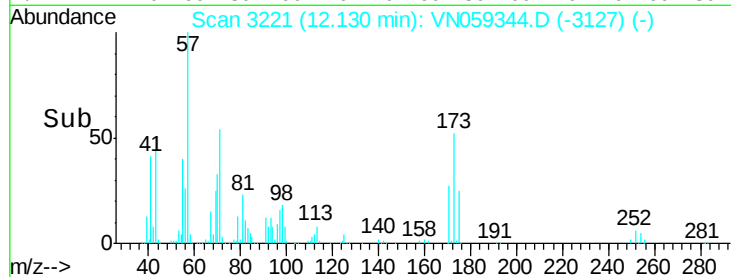
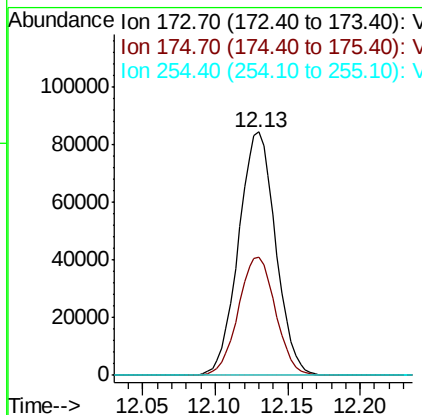
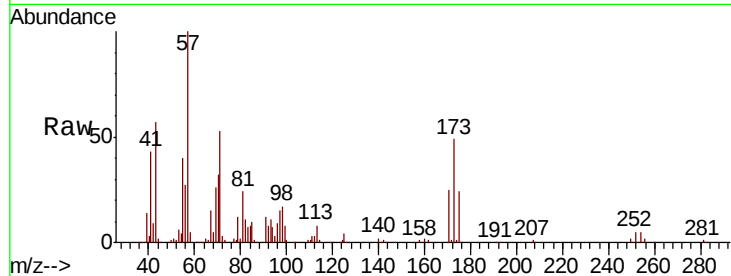
ClientSampleId :

MW-4-(12-14)MS

Tot Ion	Ratio	Lower	Upper
173	100		
175	48.6	24.6	73.6
254	0.1	0.1	0.1

Manual Integrations
APPROVED

MMDadoda
11/22/2019 3:12:50 PM



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

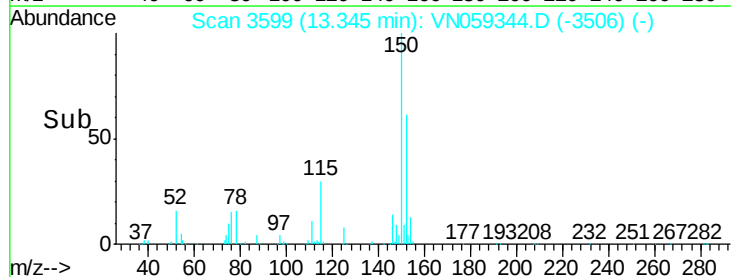
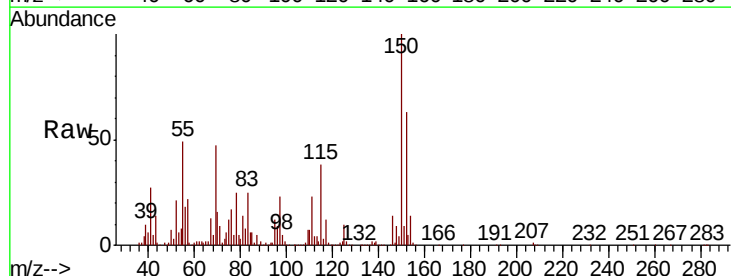
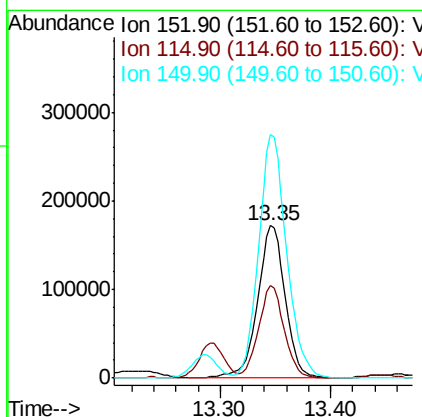
RT: 13.35 min Scan# 3599

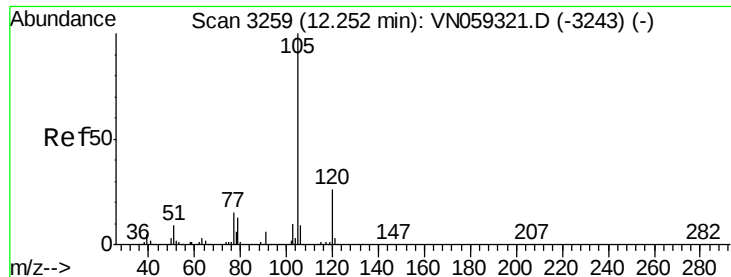
Delta R.T. 0.00 min

Lab File: VN059344.D

Acq: 21 Nov 2019 18:24

Tgt Ion	Ratio	Lower	Upper
152	100		
115	56.1	29.3	88.0
150	163.0	0.0	346.0





#73

Isopropylbenzene

Concen: 40.505 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. -0.00 min

Lab File: VN059344.D

Acq: 21 Nov 2019 18:24

Instrument :

MSVOA_N

ClientSampleId :

MW-4-(12-14)MS

Tot Ion:105 Resp: 980357

Ion Ratio Lower Upper

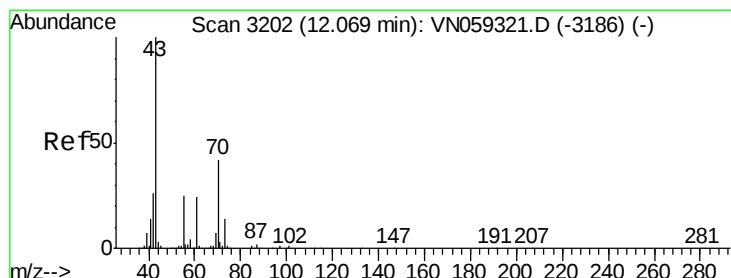
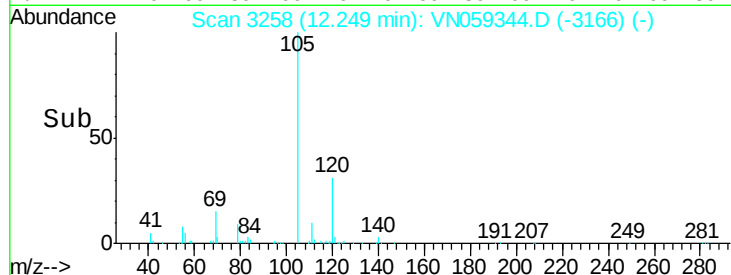
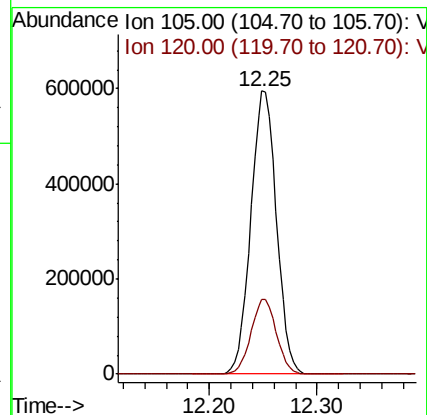
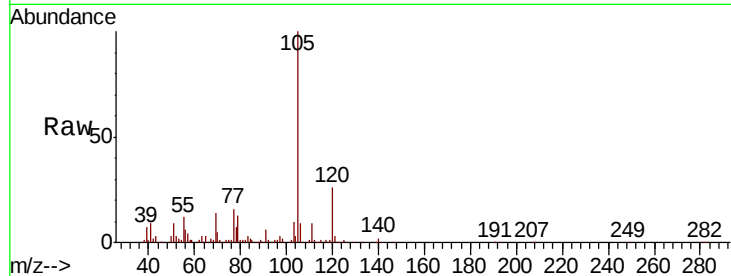
105 100

120 26.2 13.1 39.3

Manual Integrations
APPROVED

MMDadoda

11/22/2019 3:12:50 PM



#74

N-ethyl acetate

Concen: 38.437 ug/l m

RT: 12.07 min Scan# 3203

Delta R.T. 0.00 min

Lab File: VN059344.D

Acq: 21 Nov 2019 18:24

Tgt Ion: 43 Resp: 373873

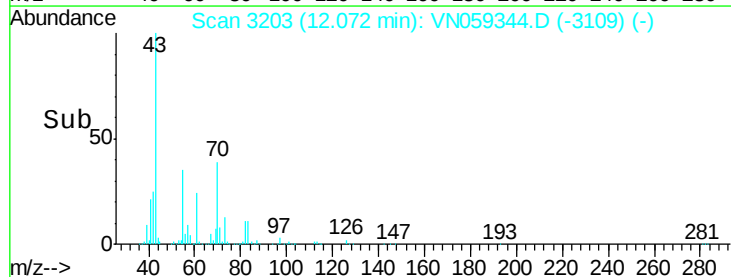
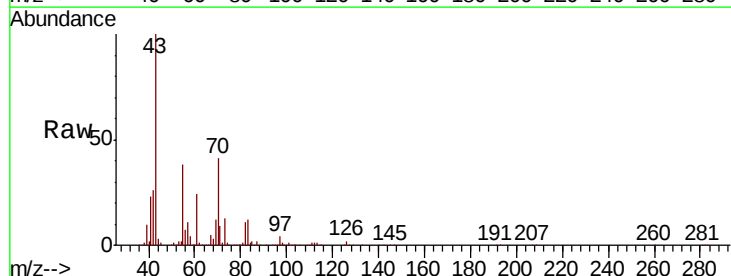
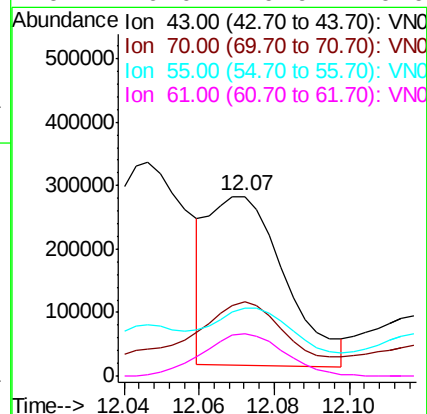
Ion Ratio Lower Upper

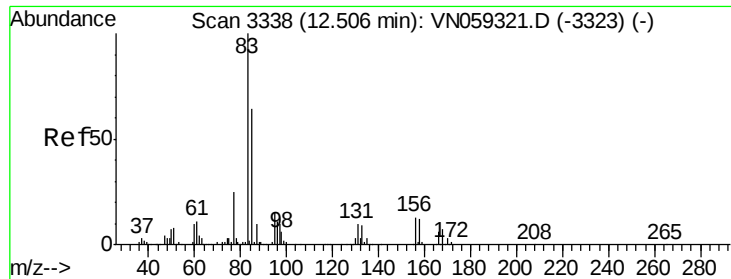
43 100

70 0.0 33.8 50.6#

55 18.6 20.3 30.5#

61 0.0 19.9 29.9#





#75

1,1,2,2-Tetrachloroethane

Concen: 44.378 ug/l

RT: 12.51 min Scan# 3338

Delta R.T. 0.00 min

Lab File: VN059344.D

Acq: 21 Nov 2019 18:24

Instrument :

MSVOA_N

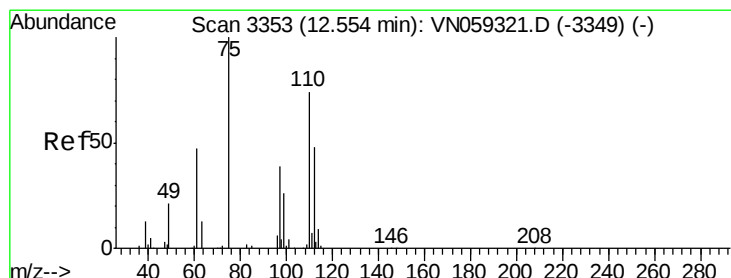
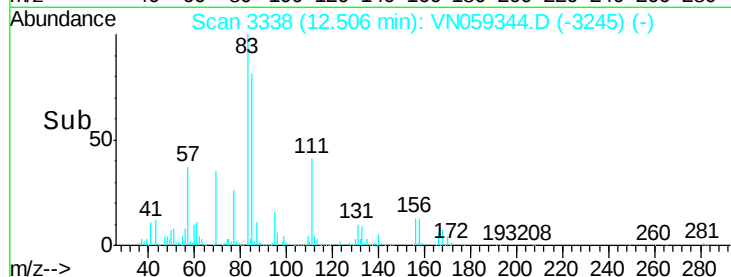
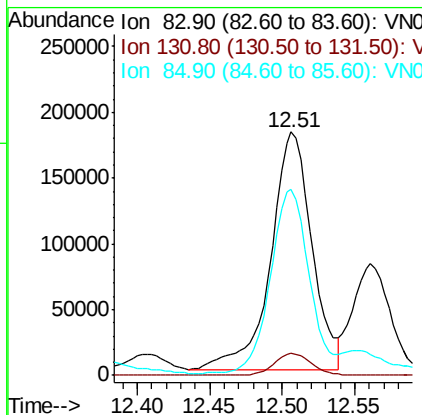
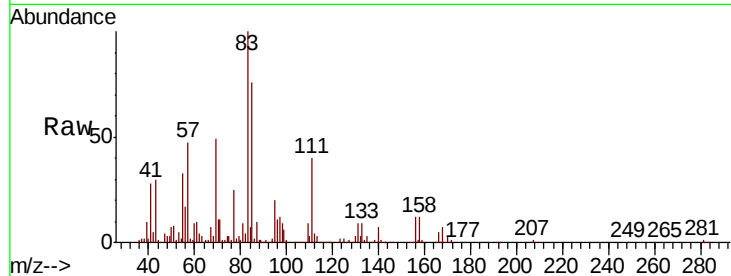
ClientSampleId :

MW-4-(12-14)MS

Tot Ion:	83	Resp:	355304
Ion Ratio	Lower	Upper	
83	100		
131	8.3	5.0	14.9
85	73.0	32.1	96.3

Manual Integrations
APPROVED

MMDadoda
11/22/2019 3:12:50 PM



#76

1,2,3-Trichloropropane

Concen: 40.957 ug/l m

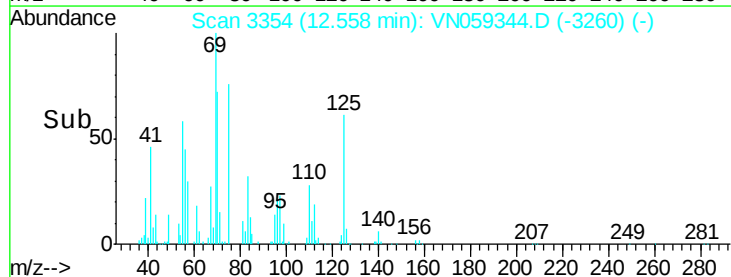
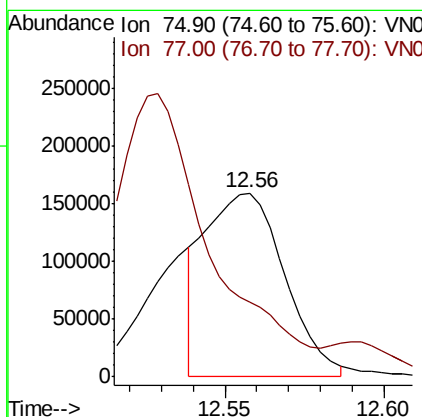
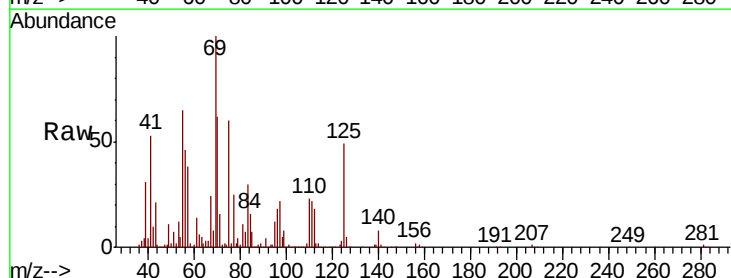
RT: 12.56 min Scan# 3354

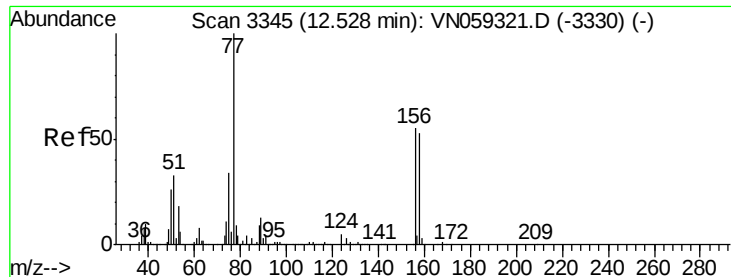
Delta R.T. 0.00 min

Lab File: VN059344.D

Acq: 21 Nov 2019 18:24

Tgt Ion:	75	Resp:	279558
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 39.095 ug/l

RT: 12.53 min Scan# 3345

Delta R.T. 0.00 min

Lab File: VN059344.D

Acq: 21 Nov 2019 18:24

Instrument :

MSVOA_N

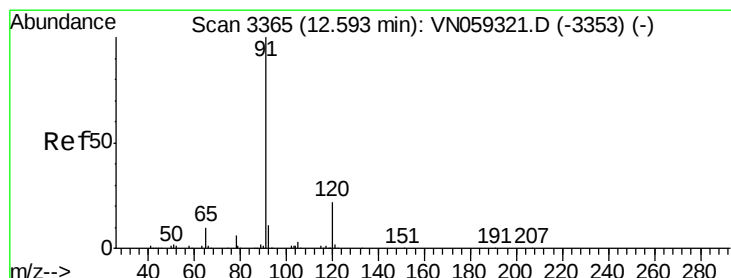
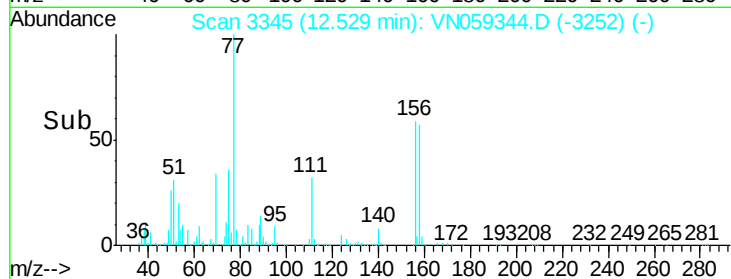
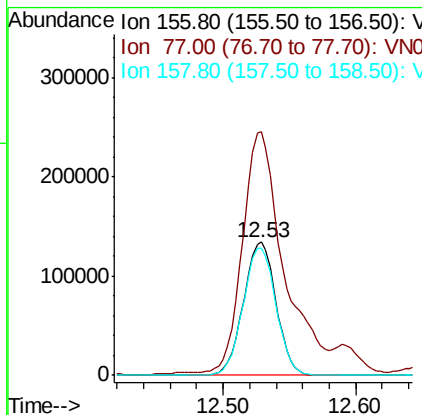
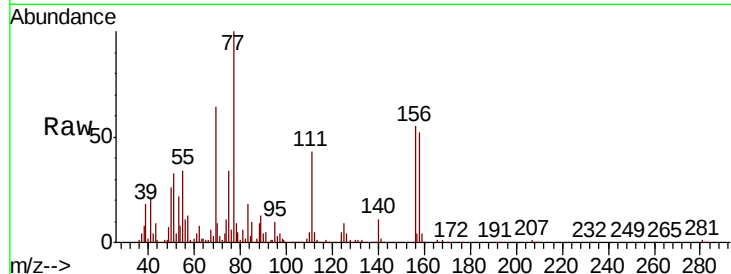
ClientSampleId :

MW-4-(12-14)MS

Tot Ion:	156	Resp:	229509
Ion Ratio	Lower	Upper	
156	100		
77	232.8	111.1	333.4
158	96.4	47.8	143.4

Manual Integrations
APPROVED

MMDadoda
11/22/2019 3:12:50 PM



#78

n-propylbenzene

Concen: 43.264 ug/l

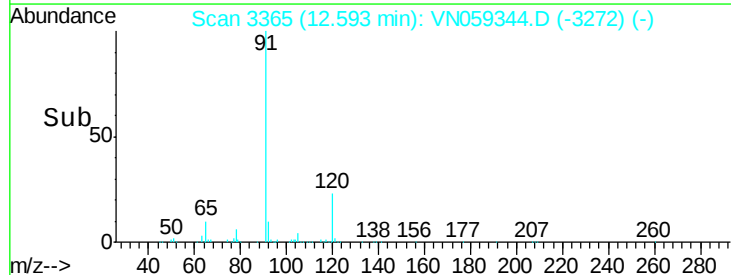
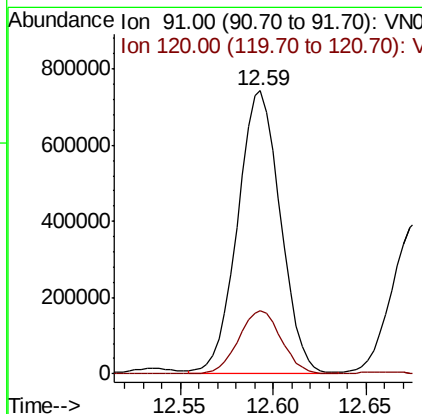
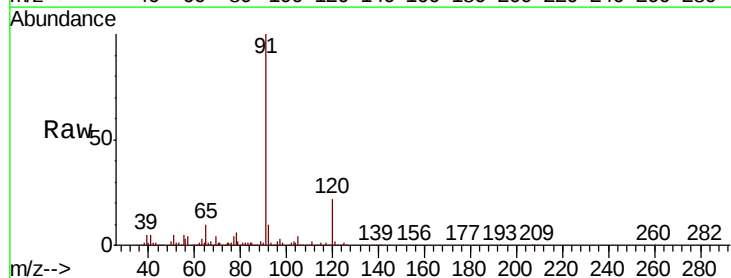
RT: 12.59 min Scan# 3365

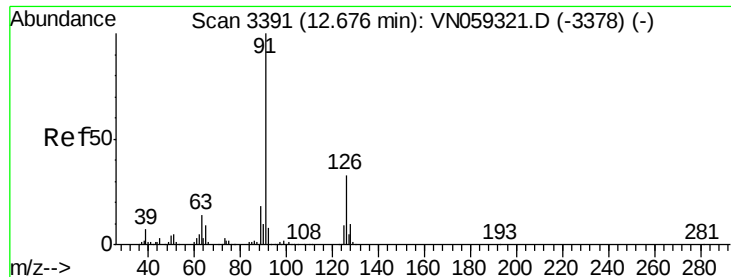
Delta R.T. 0.00 min

Lab File: VN059344.D

Acq: 21 Nov 2019 18:24

Tgt Ion:	91	Resp:	1186116
Ion Ratio	Lower	Upper	
91	100		
120	22.4	11.3	33.9





#79

2-Chlorotoluene

Concen: 39.906 ug/l

RT: 12.68 min Scan# 3391

Delta R.T. 0.00 min

Lab File: VN059344.D

Acq: 21 Nov 2019 18:24

Instrument :

MSVOA_N

ClientSampleId :

MW-4-(12-14)MS

Tot Ion: 91 Resp: 671530

Ion Ratio Lower Upper

91 100

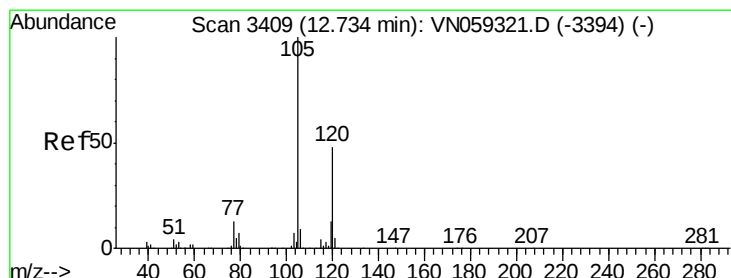
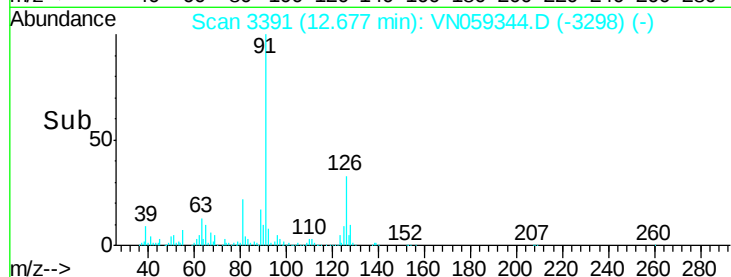
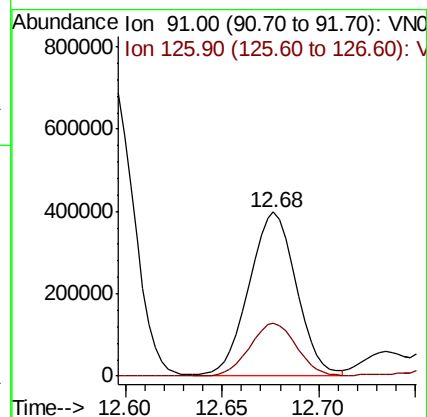
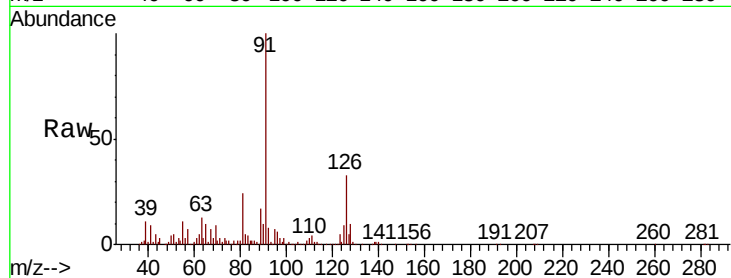
126 32.4 16.7 50.1

Manual Integrations

APPROVED

MMDadoda

11/22/2019 3:12:50 PM



#80

1,3,5-Trimethylbenzene

Concen: 41.620 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN059344.D

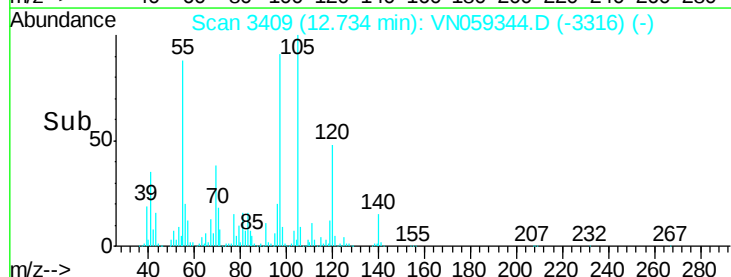
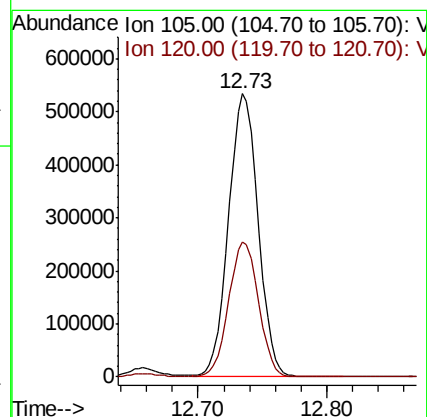
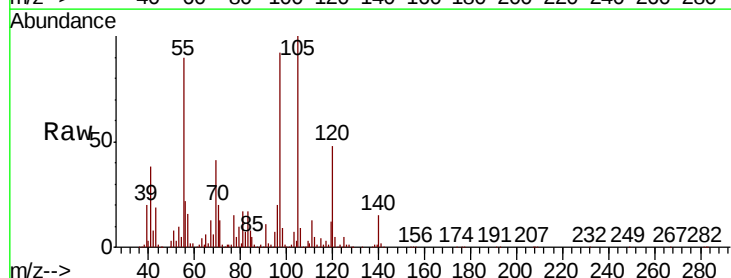
Acq: 21 Nov 2019 18:24

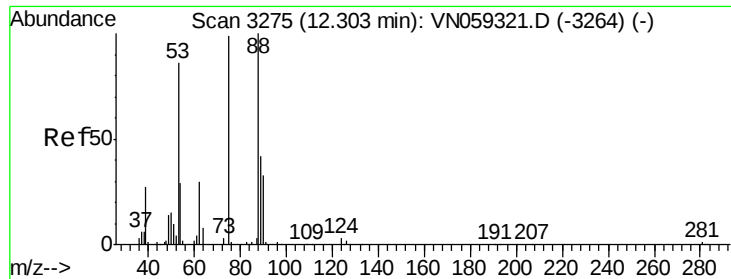
Tgt Ion: 105 Resp: 846807

Ion Ratio Lower Upper

105 100

120 48.1 24.1 72.4





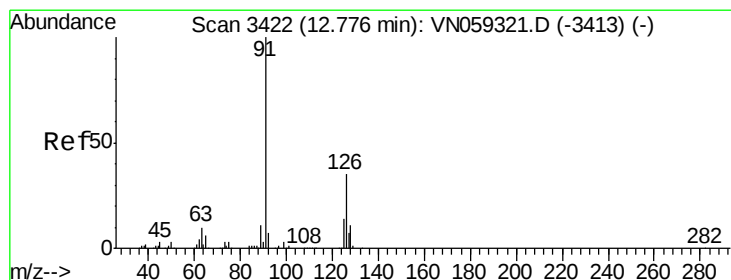
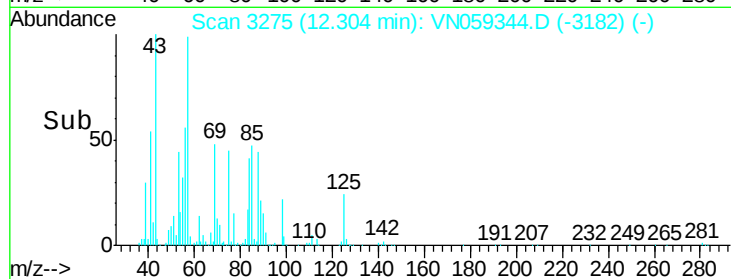
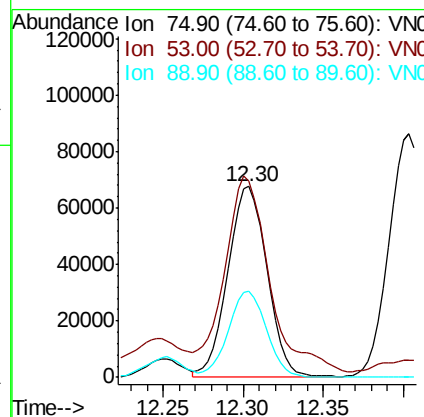
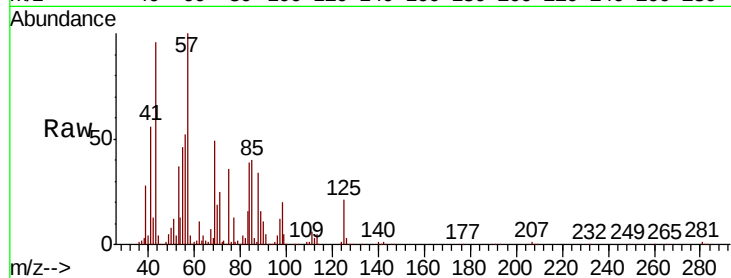
#81
trans-1,4-Dichloro-2-butene
Concen: 41.413 ug/l
RT: 12.30 min Scan# 3275
Delta R.T. 0.00 min
Lab File: VN059344.D
Acq: 21 Nov 2019 18:24

Instrument :
MSVOA_N
ClientSampleId :
MW-4-(12-14)MS

Tot Ion	Ratio	Lower	Upper
75	100		
53	116.3	70.7	106.1#
89	44.1	35.4	53.0

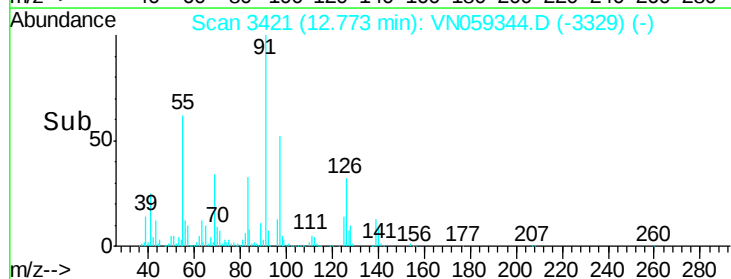
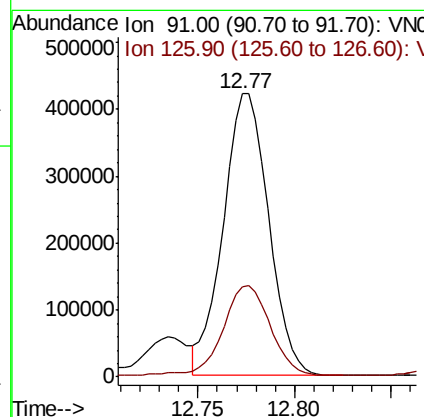
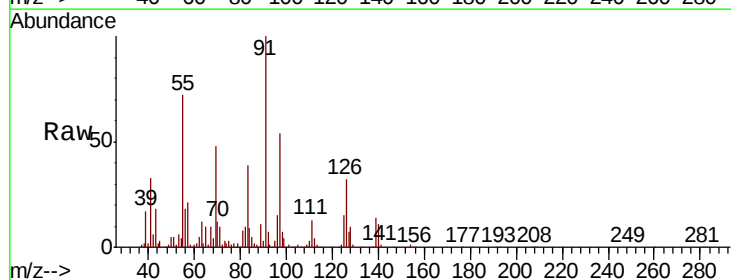
Manual Integrations
APPROVED

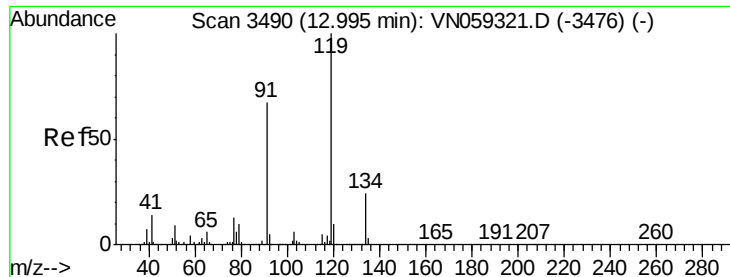
MMDadoda
11/22/2019 3:12:50 PM



#82
4-Chlorotoluene
Concen: 39.533 ug/l
RT: 12.77 min Scan# 3421
Delta R.T. -0.00 min
Lab File: VN059344.D
Acq: 21 Nov 2019 18:24

Tgt Ion	Ratio	Lower	Upper
91	100		
126	34.2	16.2	48.6





#83

tert-Butylbenzene

Concen: 41.528 ug/l

RT: 12.99 min Scan# 3490

Delta R.T. 0.00 min

Lab File: VN059344.D

Acq: 21 Nov 2019 18:24

Instrument :

MSVOA_N

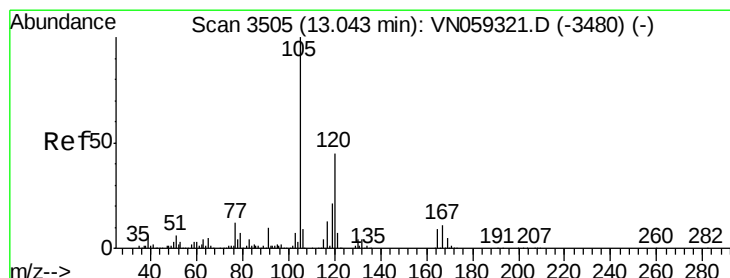
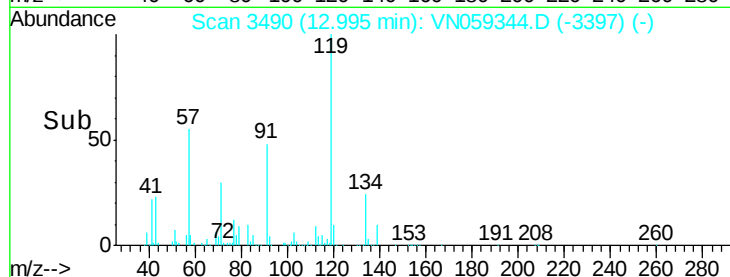
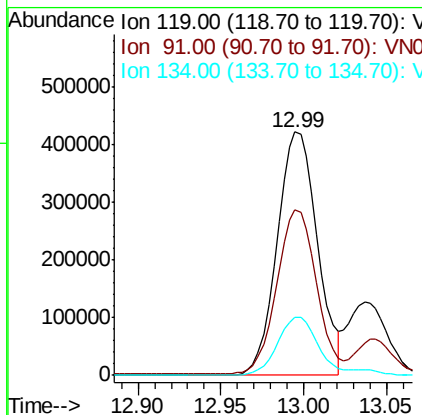
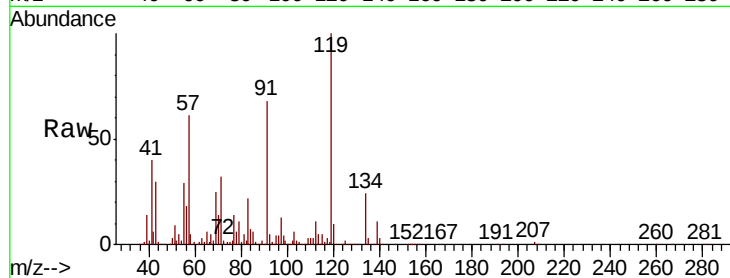
ClientSampleId :

MW-4-(12-14)MS

Tot Ion:	119	Resp:	713599
Ion Ratio	Lower	Upper	
119	100		
91	66.7	32.8	98.4
134	25.5	13.0	38.9

Manual Integrations
APPROVED

MMDadoda
11/22/2019 3:12:50 PM



#84

1,2,4-Trimethylbenzene

Concen: 47.053 ug/l

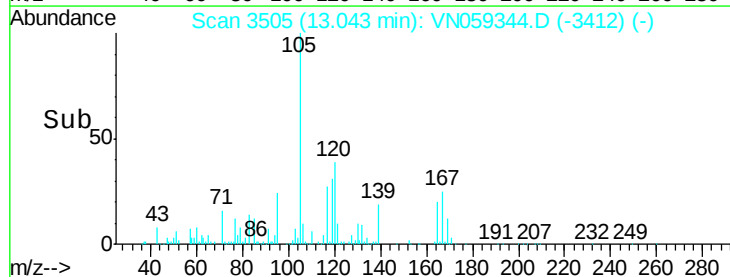
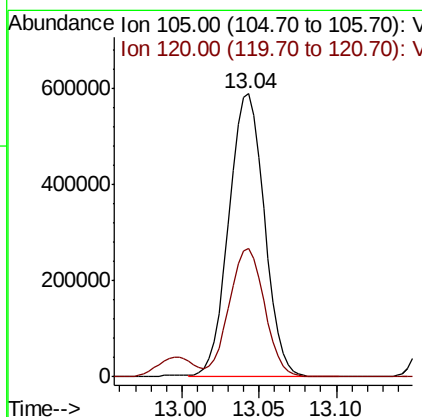
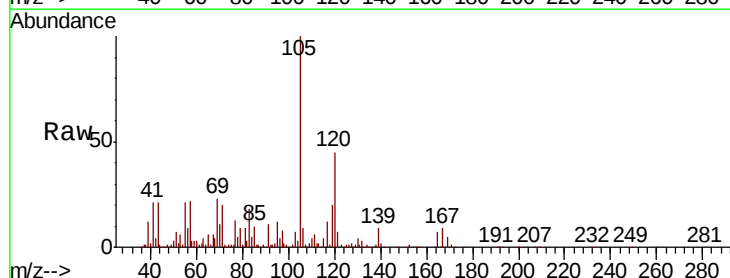
RT: 13.04 min Scan# 3505

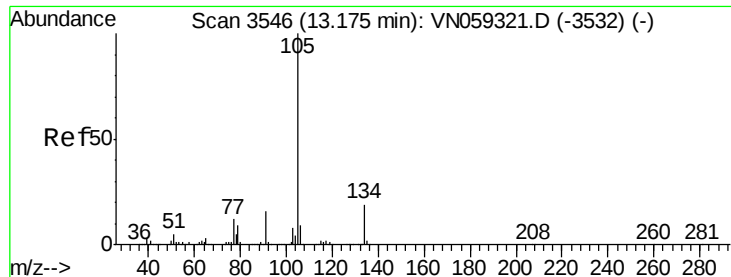
Delta R.T. 0.00 min

Lab File: VN059344.D

Acq: 21 Nov 2019 18:24

Tgt Ion:	105	Resp:	937790
Ion Ratio	Lower	Upper	
105	100		
120	45.1	22.6	67.8





#85

sec-Butylbenzene

Concen: 45.219 ug/l

RT: 13.17 min Scan# 3546

Delta R.T. 0.00 min

Lab File: VN059344.D

Acq: 21 Nov 2019 18:24

Instrument :

MSVOA_N

ClientSampleId :

MW-4-(12-14)MS

Tot Ion:105 Resp: 1044355

Ion Ratio Lower Upper

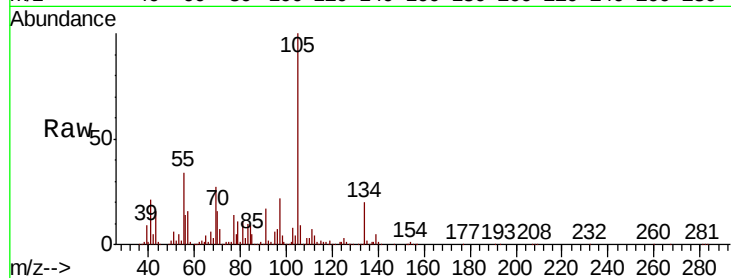
105 100

134 20.8 9.8 29.3

Manual Integrations
APPROVED

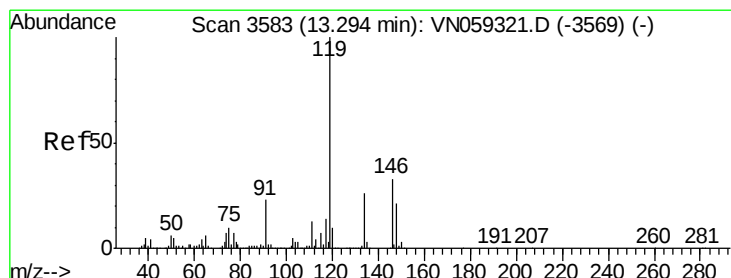
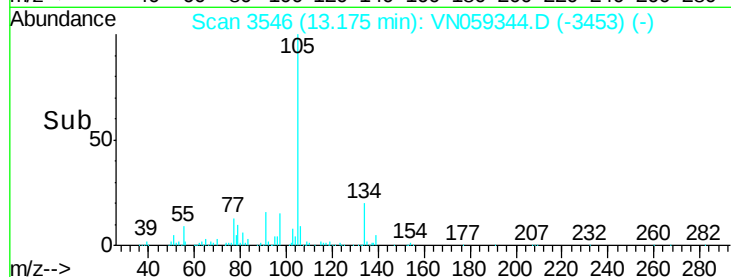
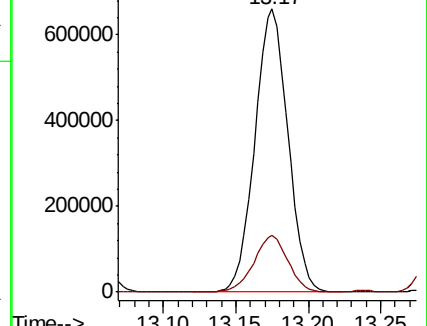
MMDadoda

11/22/2019 3:12:50 PM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 43.300 ug/l

RT: 13.29 min Scan# 3582

Delta R.T. -0.00 min

Lab File: VN059344.D

Acq: 21 Nov 2019 18:24

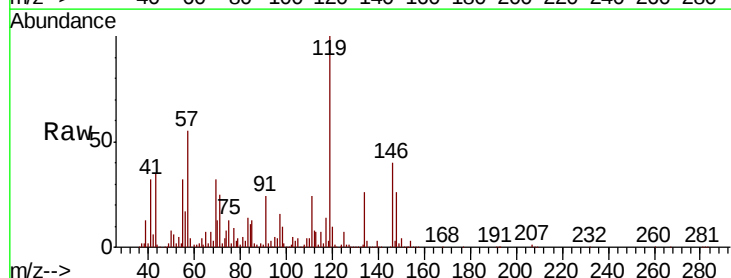
Tgt Ion:119 Resp: 889896

Ion Ratio Lower Upper

119 100

134 25.7 13.0 38.9

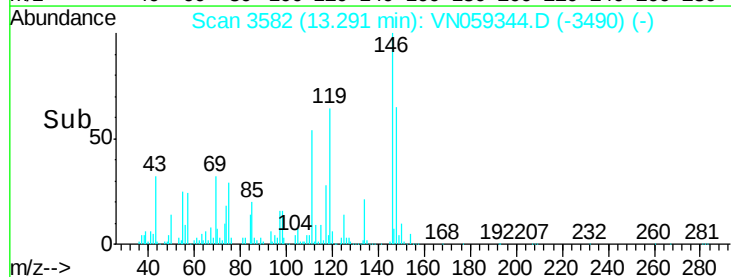
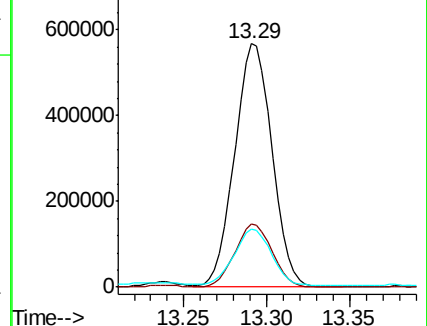
91 23.1 11.6 34.7



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





#87

1,3-Dichlorobenzene

Concen: 39.711 ug/l

RT: 13.28 min Scan# 3580

Delta R.T. 0.00 min

Lab File: VN059344.D

Acq: 21 Nov 2019 18:24

Instrument :

MSVOA_N

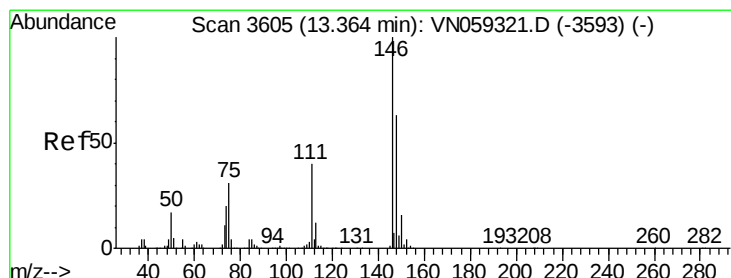
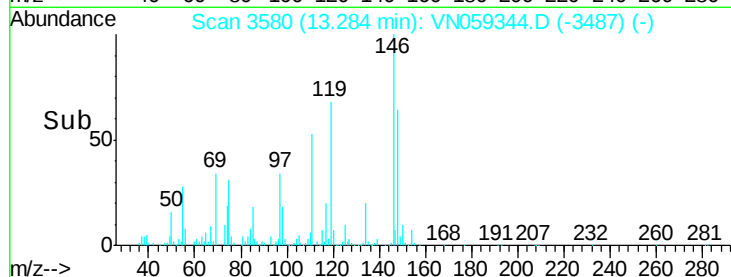
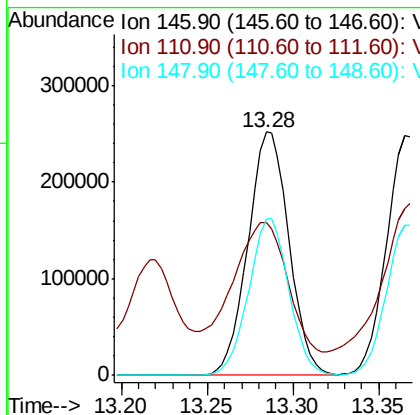
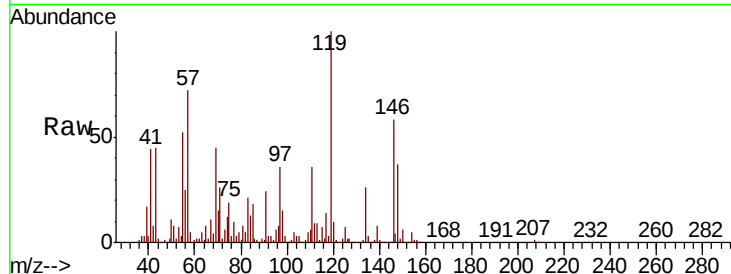
ClientSampleId :

MW-4-(12-14)MS

Tot Ion	Ratio	Lower	Upper
146	100		
111	70.4	20.6	61.8#
148	63.5	31.9	95.5

Manual Integrations
APPROVED

MMDadoda
11/22/2019 3:12:50 PM



#88

1,4-Dichlorobenzene

Concen: 39.670 ug/l

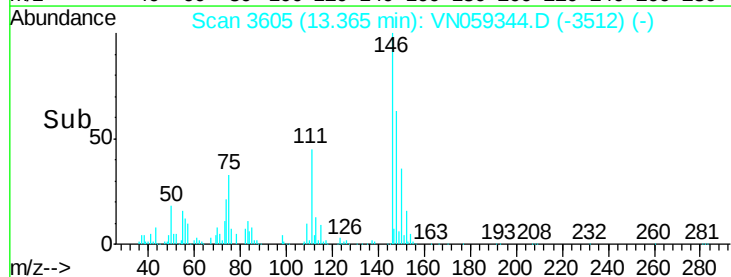
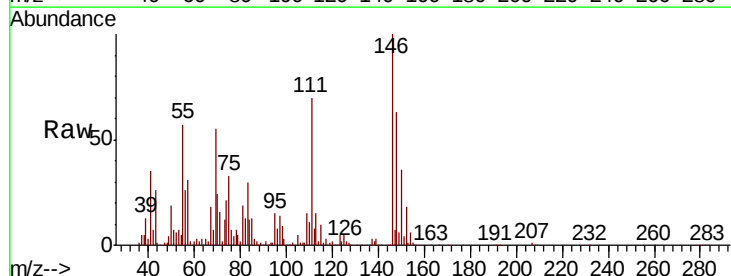
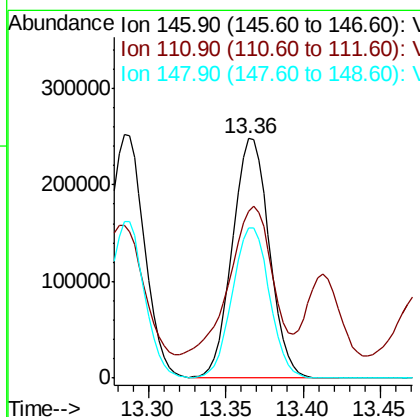
RT: 13.36 min Scan# 3605

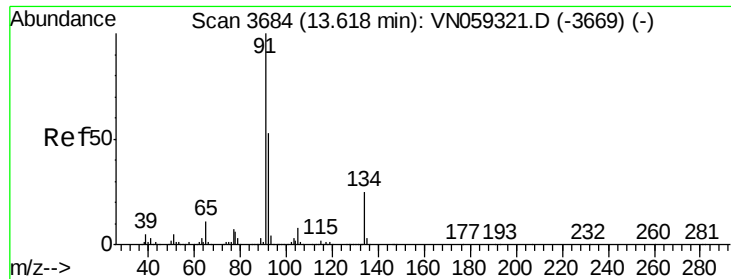
Delta R.T. 0.00 min

Lab File: VN059344.D

Acq: 21 Nov 2019 18:24

Tgt Ion	Ratio	Lower	Upper
146	100		
111	70.5	20.1	60.3#
148	63.4	31.7	95.1





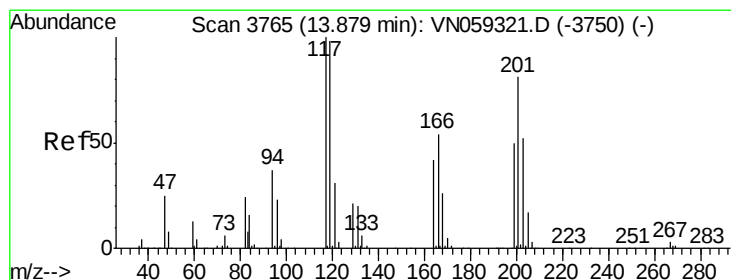
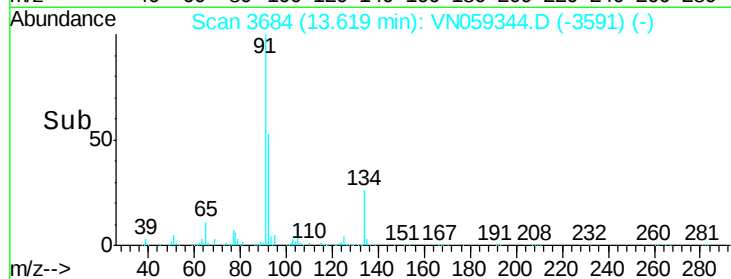
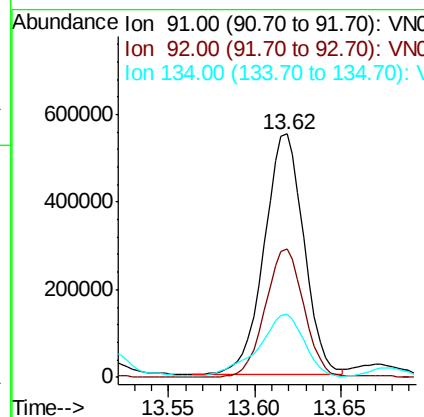
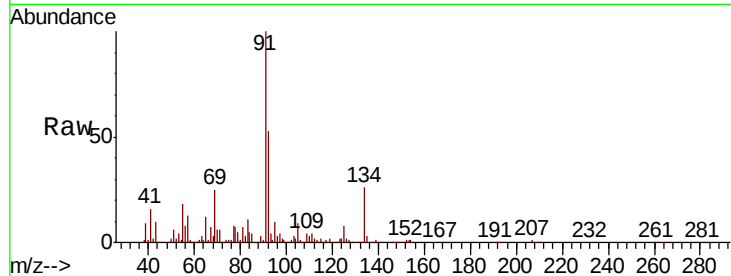
#89
n-Butylbenzene
Concen: 49.006 ug/l
RT: 13.62 min Scan# 3684
Delta R.T. 0.00 min
Lab File: VN059344.D
Acq: 21 Nov 2019 18:24

Instrument :
MSVOA_N
ClientSampleId :
MW-4-(12-14)MS

Tot Ion	Ratio	Lower	Upper
91	100		
92	51.1	26.0	78.0
134	29.3	12.7	38.1

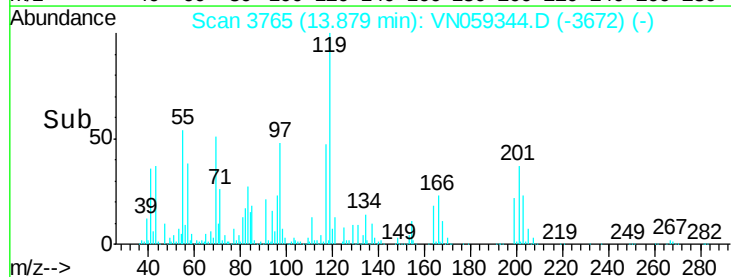
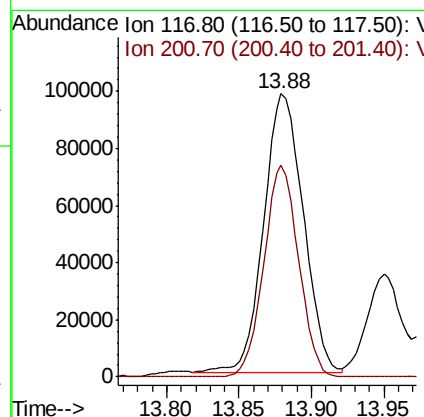
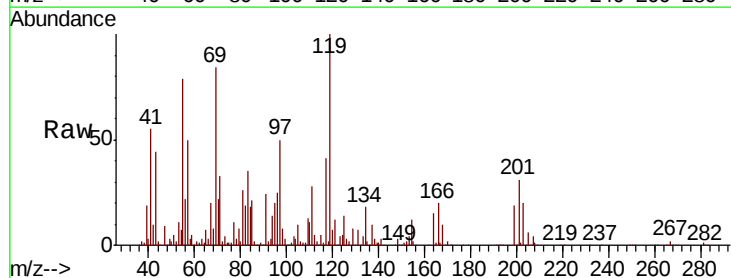
Manual Integrations
APPROVED

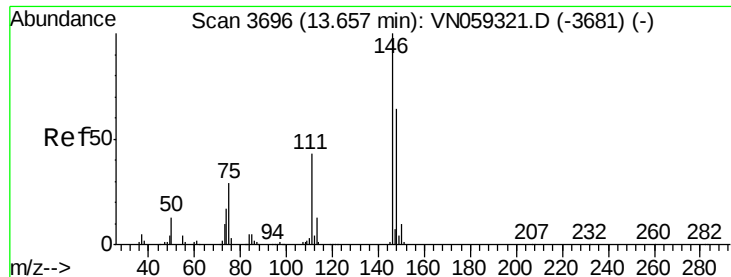
MMDadoda
11/22/2019 3:12:50 PM



#90
Hexachloroethane
Concen: 47.554 ug/l
RT: 13.88 min Scan# 3765
Delta R.T. 0.00 min
Lab File: VN059344.D
Acq: 21 Nov 2019 18:24

Tgt Ion	Ratio	Lower	Upper
117	100		
201	66.8	40.4	121.2





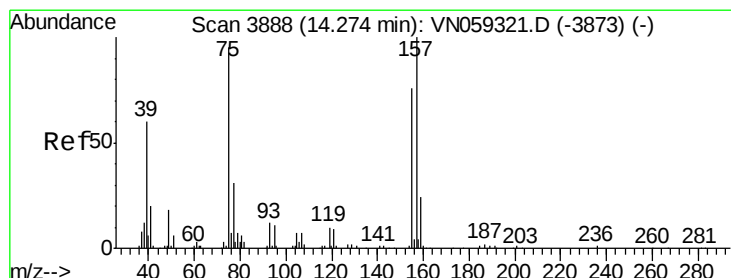
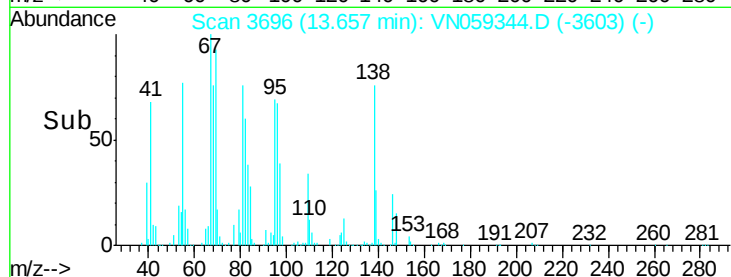
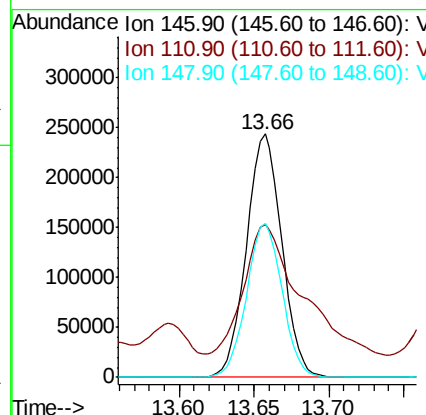
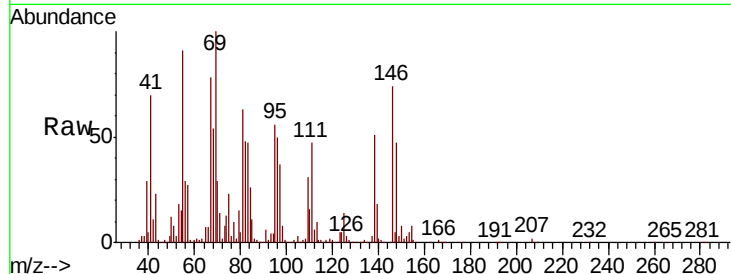
#91
 1,2-Dichlorobenzene
 Concen: 39.684 ug/l
 RT: 13.66 min Scan# 3696
 Delta R.T. 0.00 min
 Lab File: VN059344.D
 Acq: 21 Nov 2019 18:24

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-4-(12-14)MS

Tot Ion	Ratio	Lower	Upper
146	100		
111	96.9	21.3	64.0#
148	63.7	31.9	95.5

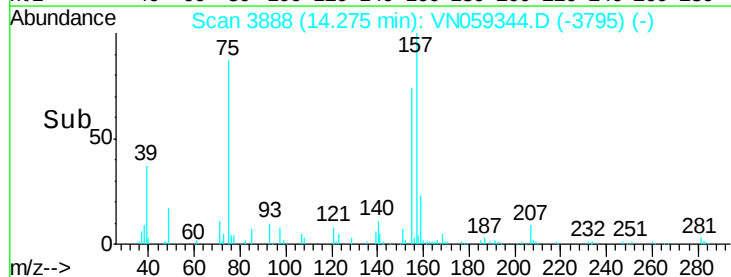
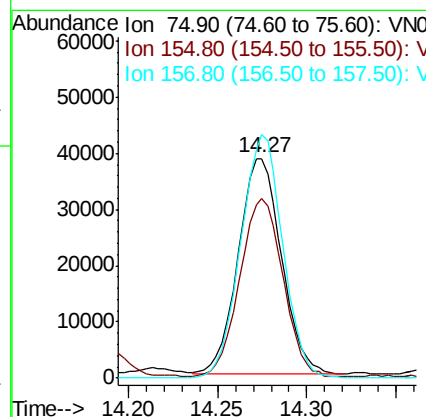
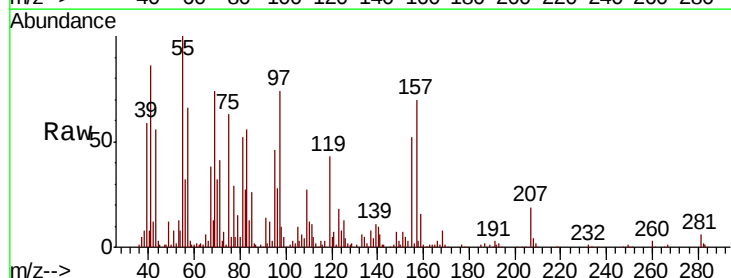
Manual Integrations
 APPROVED

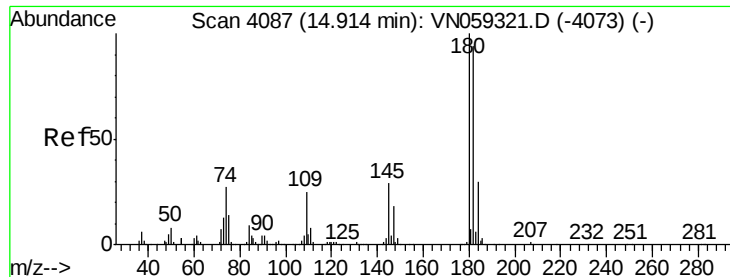
MMDadoda
 11/22/2019 3:12:50 PM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 37.886 ug/l
 RT: 14.27 min Scan# 3888
 Delta R.T. 0.00 min
 Lab File: VN059344.D
 Acq: 21 Nov 2019 18:24

Tgt Ion	Ratio	Lower	Upper
75	100		
155	83.0	40.5	121.5
157	111.0	52.7	158.1





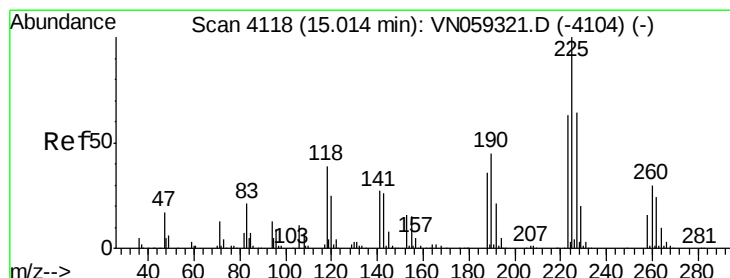
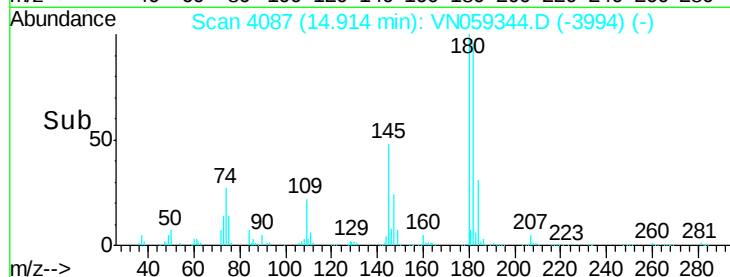
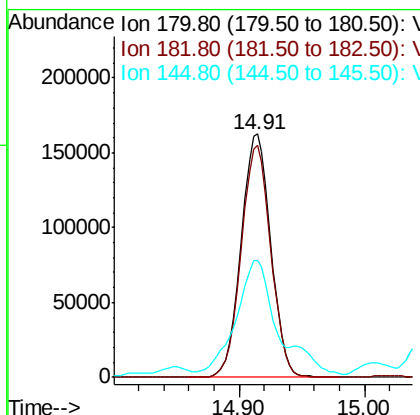
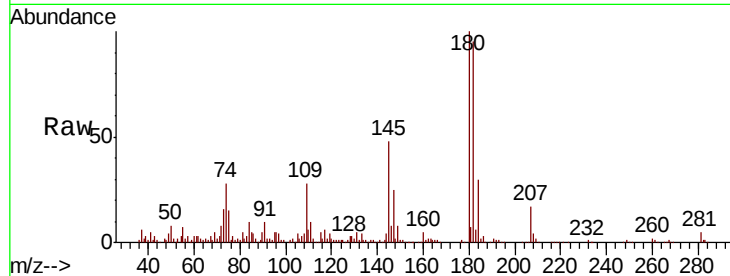
#93
 1,2,4-Trichlorobenzene
 Concen: 42.688 ug/l
 RT: 14.91 min Scan# 4087
 Delta R.T. 0.00 min
 Lab File: VN059344.D
 Acq: 21 Nov 2019 18:24

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-4-(12-14)MS

Tot Ion	Ratio	Resp	Lower	Upper
180	100	265680		
182	95.3	47.2	141.6	
145	54.3	14.9	44.5#	

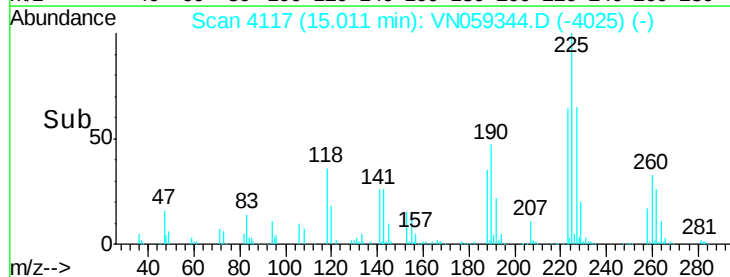
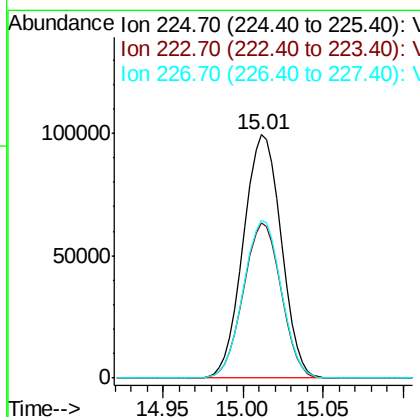
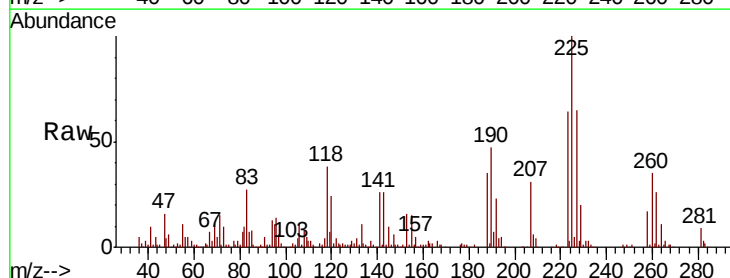
Manual Integrations
 APPROVED

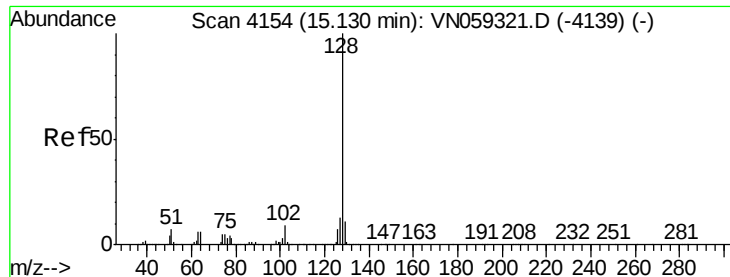
MMDadoda
 11/22/2019 3:12:50 PM



#94
 Hexachlorobutadiene
 Concen: 44.180 ug/l
 RT: 15.01 min Scan# 4117
 Delta R.T. -0.00 min
 Lab File: VN059344.D
 Acq: 21 Nov 2019 18:24

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	161002		
223	63.6	31.6	94.8	
227	64.9	32.6	97.7	





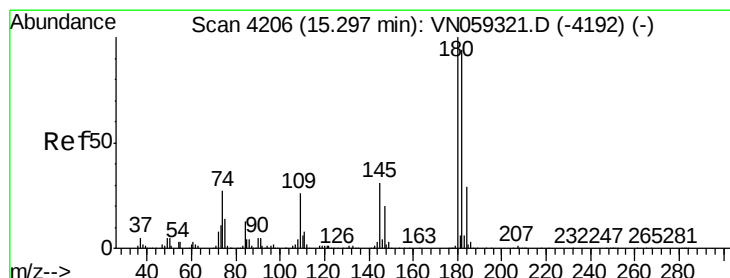
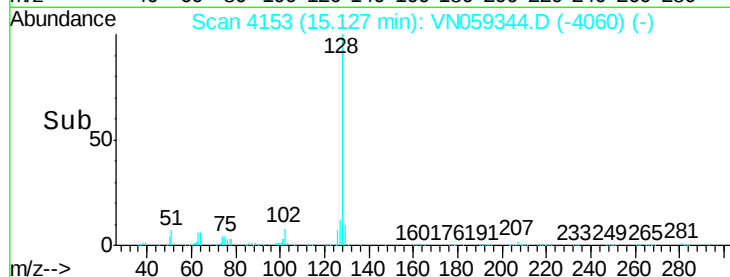
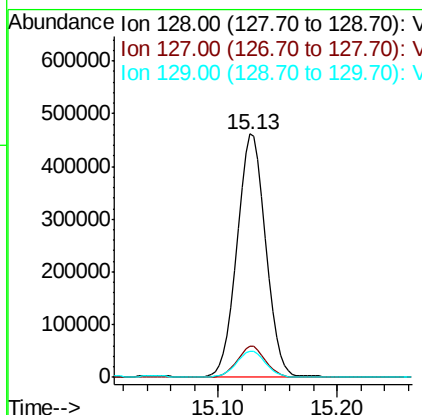
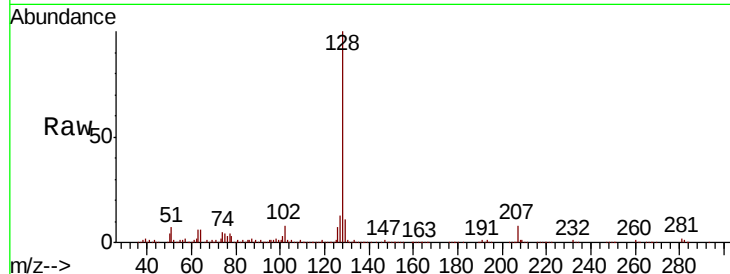
#95
Naphthalene
Concen: 44.428 ug/l
RT: 15.13 min Scan# 4153
Delta R.T. -0.00 min
Lab File: VN059344.D
Acq: 21 Nov 2019 18:24

Instrument :
MSVOA_N
ClientSampleId :
MW-4-(12-14)MS

Tot Ion	Ion	Ratio	Resp	Lower	Upper
128	100		767338		
127	12.5		10.2	15.2	
129	10.9		8.6	13.0	

Manual Integrations
APPROVED

MMDadoda
11/22/2019 3:12:50 PM



#96
1,2,3-Trichlorobenzene
Concen: 42.177 ug/l
RT: 15.30 min Scan# 4206
Delta R.T. 0.00 min
Lab File: VN059344.D
Acq: 21 Nov 2019 18:24

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
180	100		258520		
182	96.4		47.1	141.4	
145	40.8		15.6	46.8	

