

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN111119\
 Data File : VN059160.D
 Acq On : 11 Nov 2019 14:53
 Operator : JC/SP
 Sample : VN1111WBSD01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1111WBSD01

Manual Integrations
 APPROVED

MMDadoda
 11/12/2019 4:19:34 PM

Quant Time: Nov 12 02:57:20 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N110619W.M
 Quant Title : SW846 8260
 QLast Update : Thu Nov 07 04:00:41 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	455179	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	732080	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	665112	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	291847	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.01	65	289919	51.81	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.62%	
35) Dibromofluoromethane	7.57	113	218481	49.98	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.96%	
50) Toluene-d8	10.08	98	836576	48.59	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.18%	
62) 4-Bromofluorobenzene	12.40	95	297774	47.97	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.94%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.83	85	84831	18.497	ug/l	100
3) Chloromethane	2.04	50	113373	18.186	ug/l	100
4) Vinyl Chloride	2.17	62	118266	19.567	ug/l	98
5) Bromomethane	2.54	94	66959	19.251	ug/l	97
6) Chloroethane	2.68	64	70347	19.676	ug/l	98
7) Trichlorofluoromethane	3.00	101	143735	19.882	ug/l	99
8) Diethyl Ether	3.39	74	56147	19.114	ug/l	97
9) 1,1,2-Trichlorotrifluoroet	3.73	101	84199	19.317	ug/l	99
10) Methyl Iodide	3.93	142	99237	18.393	ug/l	99
11) Tert butyl alcohol	4.76	59	112809	105.790	ug/l	99
12) 1,1-Dichloroethene	3.71	96	79767	18.786	ug/l	97
13) Acrolein	3.58	56	44405	80.768	ug/l	98
14) Allyl chloride	4.30	41	160445	18.395	ug/l	96
15) Acrylonitrile	4.96	53	263527	99.303	ug/l	98
16) Acetone	3.79	43	257818	88.607	ug/l	98
17) Carbon Disulfide	4.03	76	227458	17.257	ug/l	99
18) Methyl Acetate	4.30	43	143732	20.811	ug/l	99
19) Methyl tert-butyl Ether	5.02	73	294028	20.113	ug/l	99
20) Methylene Chloride	4.53	84	98632	19.457	ug/l	98
21) trans-1,2-Dichloroethene	5.01	96	87147	19.121	ug/l	97
22) Diisopropyl ether	5.93	45	326959	19.846	ug/l	96
23) Vinyl Acetate	5.87	43	1344089	105.269	ug/l	98
24) 1,1-Dichloroethane	5.82	63	179988	19.561	ug/l	99
25) 2-Butanone	6.81	43	377702	98.494	ug/l	99
26) 2,2-Dichloropropane	6.80	77	148552	18.463	ug/l	99
27) cis-1,2-Dichloroethene	6.81	96	103598	19.592	ug/l	100
28) Bromochloromethane	7.17	49	57866	20.903	ug/l	99
29) Tetrahydrofuran	7.19	42	251178	103.085	ug/l	98
30) Chloroform	7.35	83	179336	20.317	ug/l	99
31) Cyclohexane	7.63	56	161183	18.504	ug/l	95
32) 1,1,1-Trichloroethane	7.55	97	152662	20.571	ug/l	99
36) 1,1-Dichloropropene	7.77	75	129989	18.996	ug/l	99
37) Ethyl Acetate	6.91	43	155616	20.442	ug/l	99
38) Carbon Tetrachloride	7.75	117	132459	19.448	ug/l	99

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN111119\
 Data File : VN059160.D
 Acq On : 11 Nov 2019 14:53
 Operator : JC/SP
 Sample : VN1111WBSD01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1111WBSD01

Manual Integrations
 APPROVED

MMDadoda
 11/12/2019 4:19:34 PM

Quant Time: Nov 12 02:57:20 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N110619W.M
 Quant Title : SW846 8260
 QLast Update : Thu Nov 07 04:00:41 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.07	83	148500	18.699	ug/l	98
40) Benzene	8.02	78	395400	19.188	ug/l	99
41) Methacrylonitrile	7.15	41	57381m	17.335	ug/l	
42) 1,2-Dichloroethane	8.10	62	144103	20.390	ug/l	98
43) Isopropyl Acetate	8.15	43	238489	19.651	ug/l #	92
44) Trichloroethene	8.82	130	96305	19.013	ug/l	98
45) 1,2-Dichloropropane	9.10	63	107742	19.250	ug/l	98
46) Dibromomethane	9.19	93	67682	19.406	ug/l	99
47) Bromodichloromethane	9.39	83	138196	19.843	ug/l	97
48) Methyl methacrylate	9.18	41	105253	19.389	ug/l	97
49) 1,4-Dioxane	9.18	88	39116	405.466	ug/l	97
51) 4-Methyl-2-Pentanone	9.97	43	769947	112.124	ug/l	98
52) Toluene	10.15	92	241008	19.514	ug/l	100
53) t-1,3-Dichloropropene	10.37	75	152720	18.980	ug/l	95
54) cis-1,3-Dichloropropene	9.83	75	165569	19.130	ug/l	95
55) 1,1,2-Trichloroethane	10.55	97	96753	19.357	ug/l	97
56) Ethyl methacrylate	10.42	69	147272	18.877	ug/l	98
57) 1,3-Dichloropropane	10.70	76	170320	19.798	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.68	63	265707	95.518	ug/l	99
59) 2-Hexanone	10.74	43	560632	106.368	ug/l	98
60) Dibromochloromethane	10.90	129	103757	19.633	ug/l	99
61) 1,2-Dibromoethane	11.00	107	100227	19.808	ug/l	99
64) Tetrachloroethene	10.63	164	83955	18.563	ug/l	98
65) Chlorobenzene	11.43	112	255201	19.683	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.51	131	95672	19.671	ug/l	97
67) Ethyl Benzene	11.51	91	454272	19.748	ug/l	99
68) m/p-Xylenes	11.62	106	331694	38.493	ug/l	98
69) o-Xylene	11.95	106	161781	19.427	ug/l	98
70) Styrene	11.96	104	256084	19.553	ug/l	100
71) Bromoform	12.13	173	73705	19.482	ug/l #	99
73) Isopropylbenzene	12.25	105	436282	20.551	ug/l	100
74) N-amyl acetate	12.07	43	183616	20.412	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.50	83	151269	20.924	ug/l	98
76) 1,2,3-Trichloropropane	12.55	75	146976m	22.120	ug/l	
77) Bromobenzene	12.53	156	105117	19.708	ug/l	99
78) n-propylbenzene	12.59	91	496633	20.432	ug/l	100
79) 2-Chlorotoluene	12.67	91	302509	20.062	ug/l	99
80) 1,3,5-Trimethylbenzene	12.73	105	360149	20.021	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.30	75	48994	19.476	ug/l	97
82) 4-Chlorotoluene	12.77	91	302787	20.020	ug/l	100
83) tert-Butylbenzene	12.99	119	310807	20.008	ug/l	99
84) 1,2,4-Trimethylbenzene	13.04	105	355682	20.437	ug/l	97
85) sec-Butylbenzene	13.17	105	403198	19.957	ug/l	99
86) p-Isopropyltoluene	13.29	119	354578	19.877	ug/l	99
87) 1,3-Dichlorobenzene	13.28	146	178326	19.525	ug/l	99
88) 1,4-Dichlorobenzene	13.36	146	174211	19.064	ug/l	99
89) n-Butylbenzene	13.62	91	280991	17.997	ug/l	99
90) Hexachloroethane	13.88	117	70544	19.694	ug/l	95
91) 1,2-Dichlorobenzene	13.65	146	181588	20.211	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.27	75	31255	21.684	ug/l	95

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN111119\
Data File : VN059160.D
Acq On : 11 Nov 2019 14:53
Operator : JC/SP
Sample : VN1111WBSD01
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN1111WBSD01

Manual Integrations
APPROVED

MMDadoda
11/12/2019 4:19:34 PM

Quant Time: Nov 12 02:57:20 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N110619W.M
Quant Title : SW846 8260
QLast Update : Thu Nov 07 04:00:41 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	81765	17.132	ug/l	99
94) Hexachlorobutadiene	15.01	225	53058	17.127	ug/l	98
95) Naphthalene	15.13	128	236751	17.746	ug/l	99
96) 1,2,3-Trichlorobenzene	15.30	180	85362	16.953	ug/l	99

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

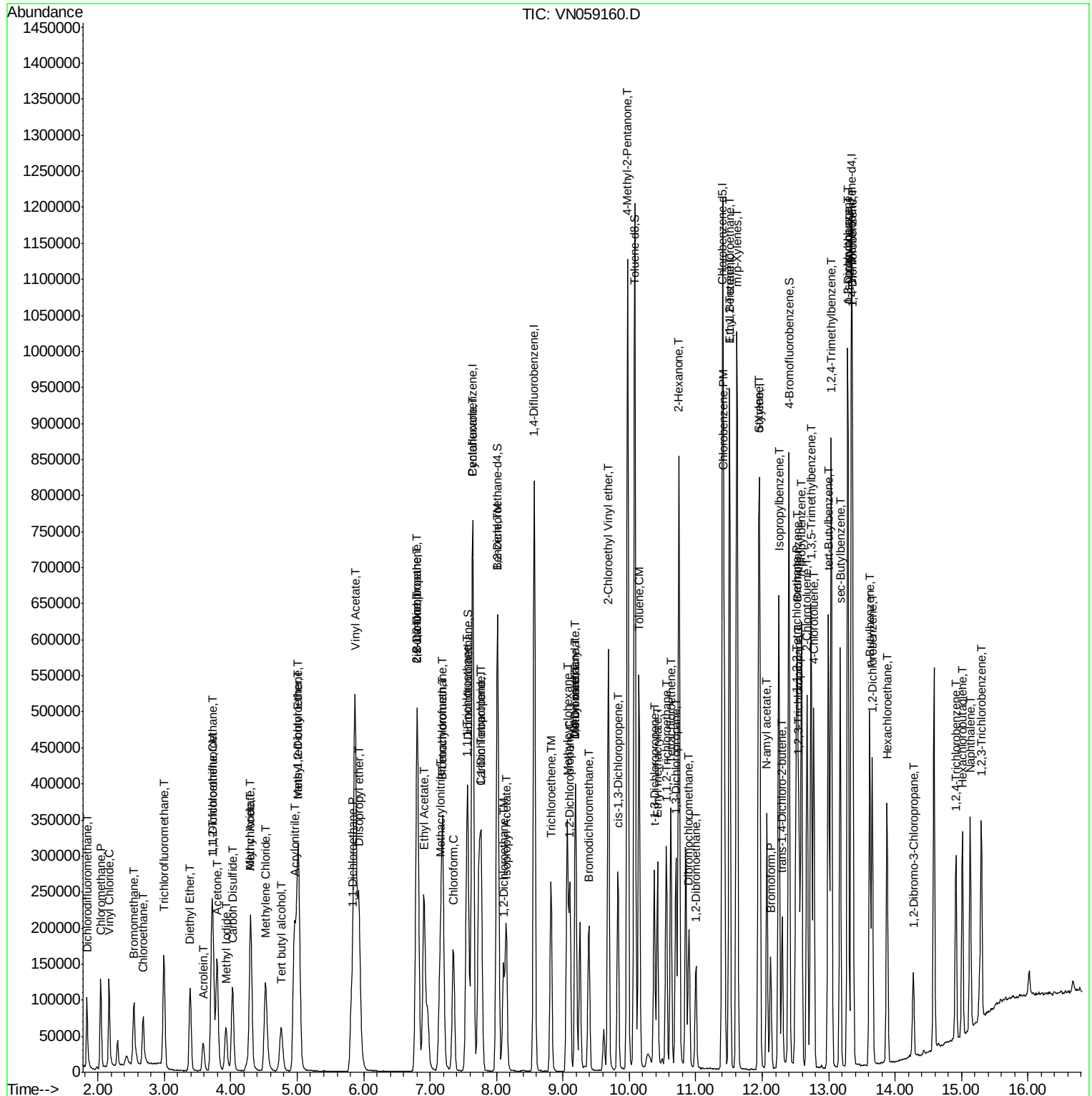
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN111119\
Data File : VN059160.D
Acq On : 11 Nov 2019 14:53
Operator : JC/SP
Sample : VN1111WBSD01
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 18 Sample Multiplier: 1

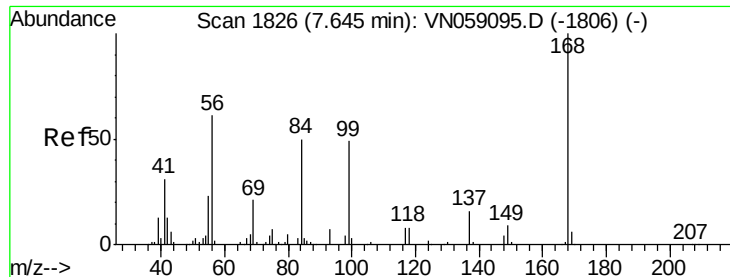
Instrument :
MSVOA_N
Client Sample ID :
VN1111WBSD01

Manual Integrations
APPROVED

MMDadoda
11/12/2019 4:19:34 PM

Quant Time: Nov 12 02:57:20 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N110619W.M
Quant Title : SW846 8260
QLast Update : Thu Nov 07 04:00:41 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: VN059160.D

Acq: 11 Nov 2019 14:53

Instrument :

MSVOA_N

ClientSampleId :

VN1111WBSD01

Tot Ion:168 Resp: 455179

Ion Ratio Lower Upper

168 100

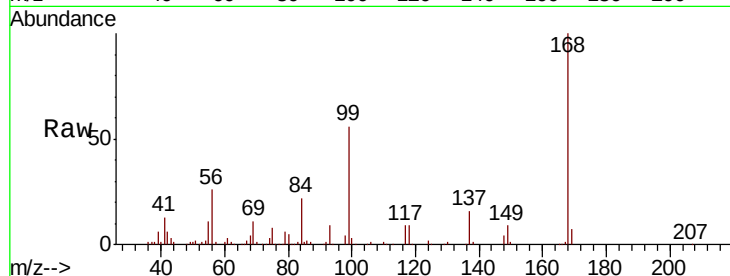
99 56.4 45.7 68.5

Manual Integrations

APPROVED

MMDadoda

11/12/2019 4:19:34 PM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.64

200000

150000

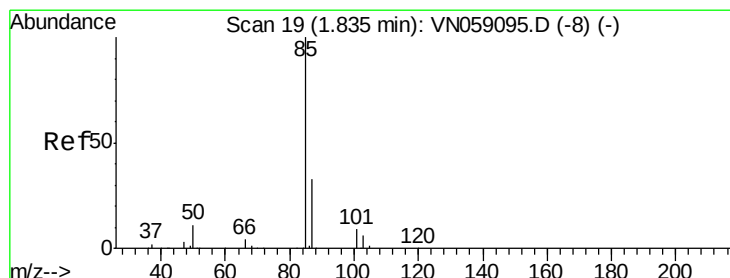
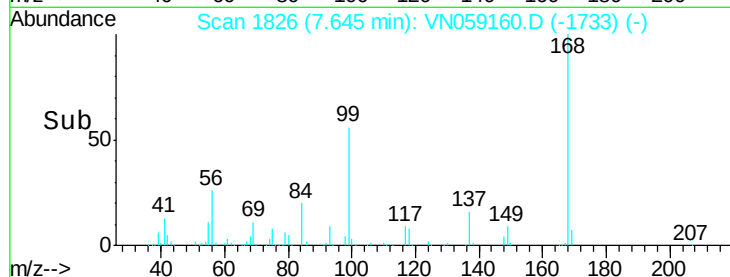
100000

50000

0

7.50 7.60 7.70 7.80

Time-->



#2

Dichlorodifluoromethane

Concen: 18.497 ug/l

RT: 1.83 min Scan# 19

Delta R.T. -0.00 min

Lab File: VN059160.D

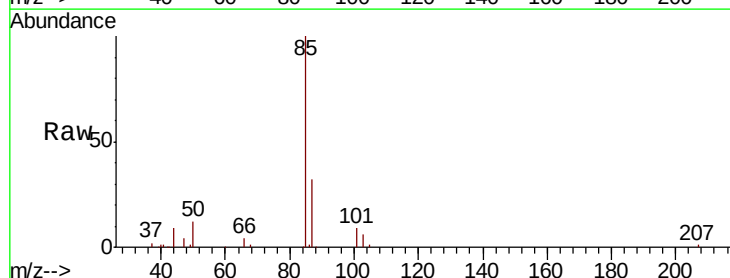
Acq: 11 Nov 2019 14:53

Tgt Ion: 85 Resp: 84831

Ion Ratio Lower Upper

85 100

87 32.5 16.3 48.9



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO

1.83

60000

50000

40000

30000

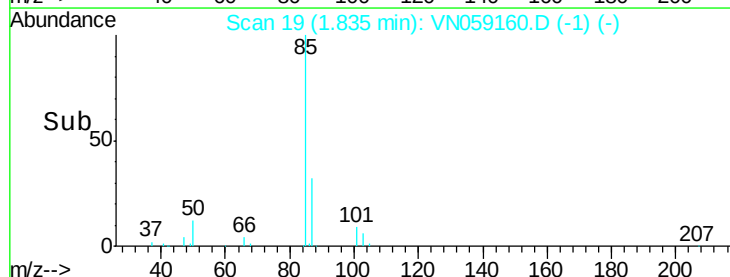
20000

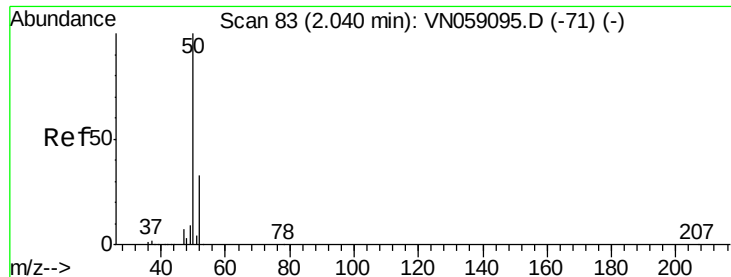
10000

0

1.75 1.80 1.85 1.90 1.95

Time-->





#3

Chloromethane

Concen: 18.186 ug/l

RT: 2.04 min Scan# 84

Delta R.T. 0.00 min

Lab File: VN059160.D

Acq: 11 Nov 2019 14:53

Instrument :

MSVOA_N

ClientSampleId :

VN1111WBSD01

Tot Ion: 50 Resp: 113373

Ion Ratio Lower Upper

50 100

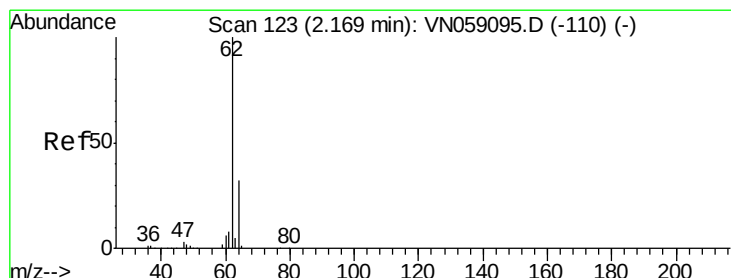
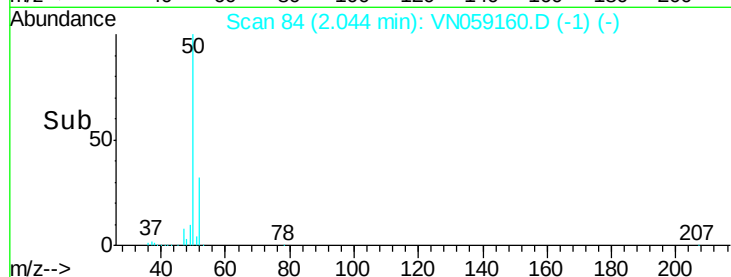
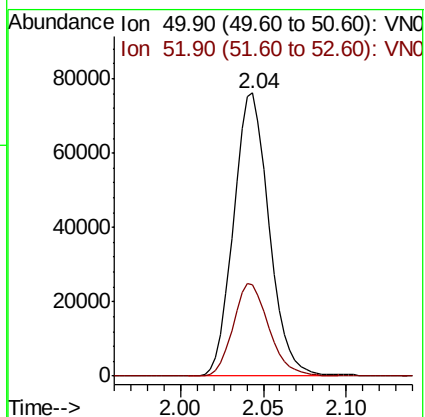
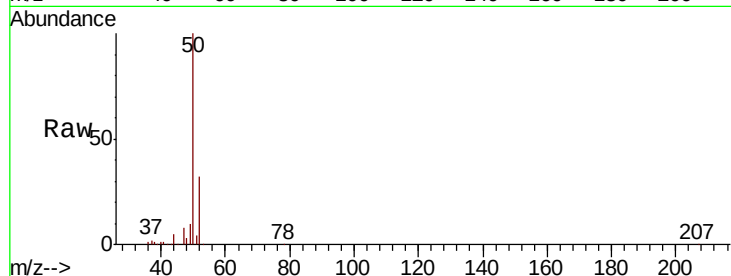
52 32.5 26.0 39.0

Manual Integrations

APPROVED

MMDadoda

11/12/2019 4:19:34 PM



#4

Vinyl Chloride

Concen: 19.567 ug/l

RT: 2.17 min Scan# 123

Delta R.T. 0.00 min

Lab File: VN059160.D

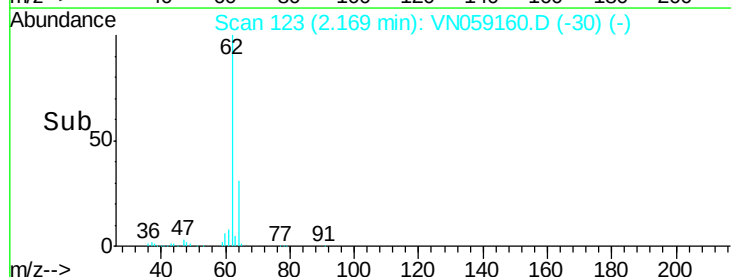
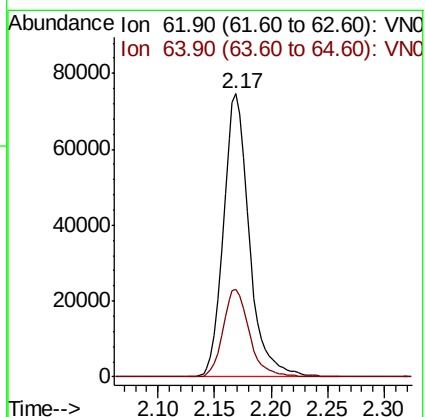
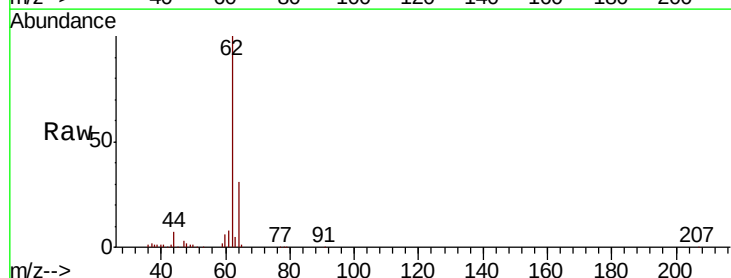
Acq: 11 Nov 2019 14:53

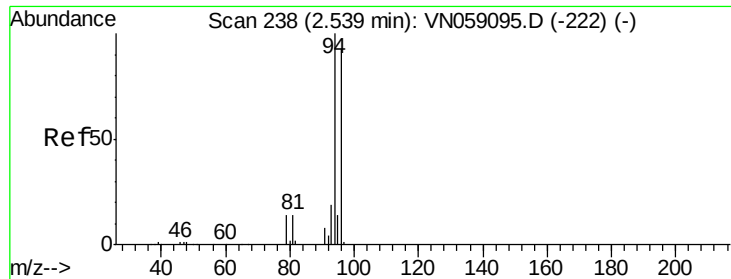
Tgt Ion: 62 Resp: 118266

Ion Ratio Lower Upper

62 100

64 30.8 25.4 38.2





#5

Bromomethane

Concen: 19.251 ug/l

RT: 2.54 min Scan# 239

Delta R.T. 0.00 min

Lab File: VN059160.D

Acq: 11 Nov 2019 14:53

Instrument :

MSVOA_N

ClientSampleId :

VN1111WBSD01

Tot Ion: 94 Resp: 66959

Ion Ratio Lower Upper

94 100

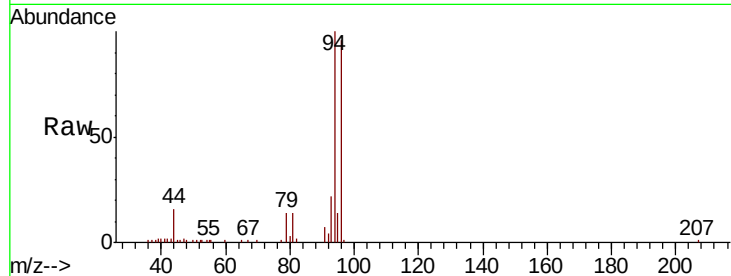
96 95.7 74.2 111.2

Manual Integrations

APPROVED

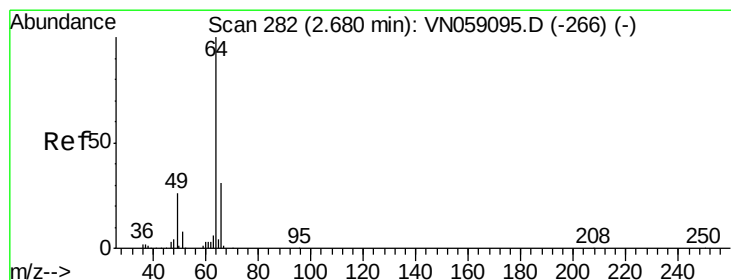
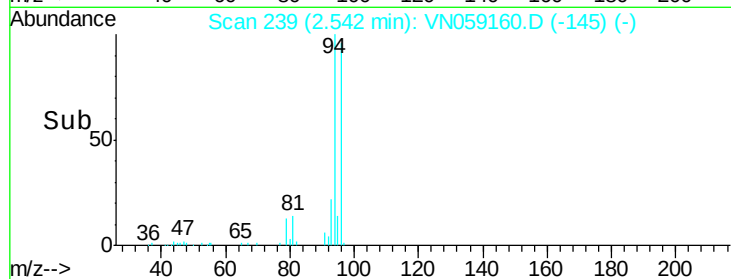
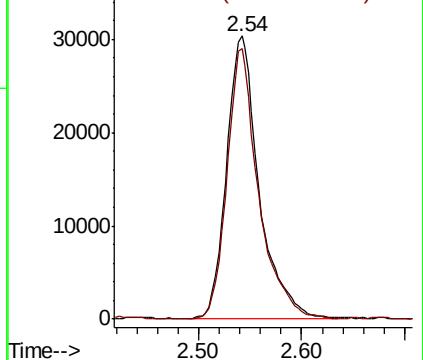
MMDadoda

11/12/2019 4:19:34 PM



Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO



#6

Chloroethane

Concen: 19.676 ug/l

RT: 2.68 min Scan# 282

Delta R.T. 0.00 min

Lab File: VN059160.D

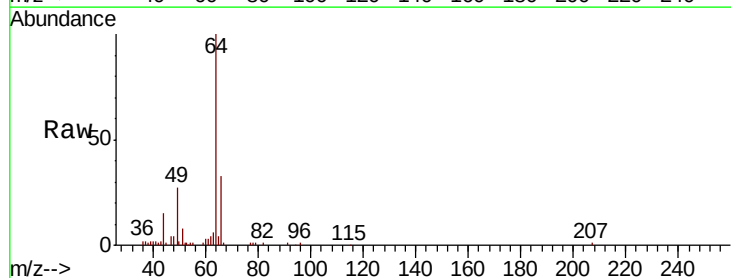
Acq: 11 Nov 2019 14:53

Tgt Ion: 64 Resp: 70347

Ion Ratio Lower Upper

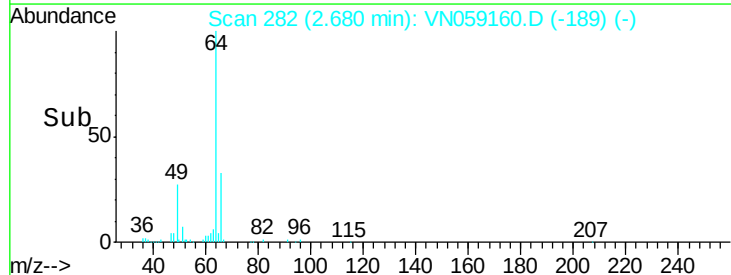
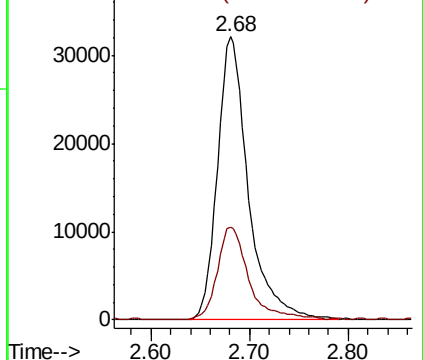
64 100

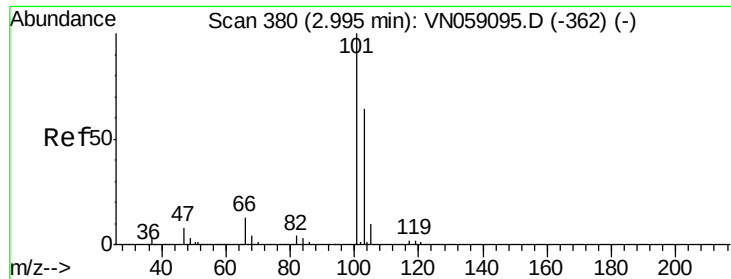
66 32.9 25.2 37.8



Abundance Ion 63.90 (63.60 to 64.60): VNO

Ion 65.90 (65.60 to 66.60): VNO





#7

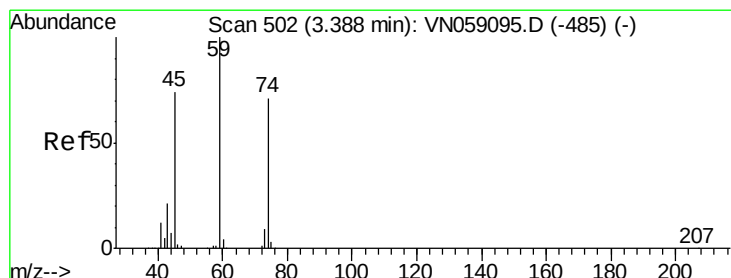
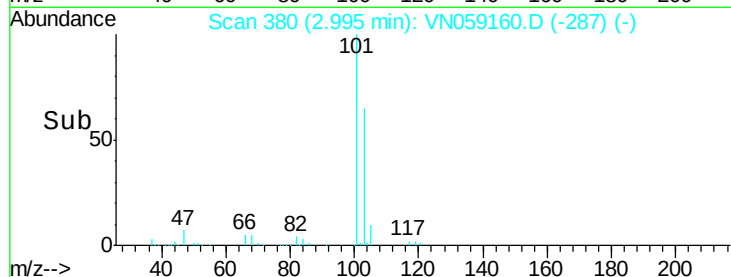
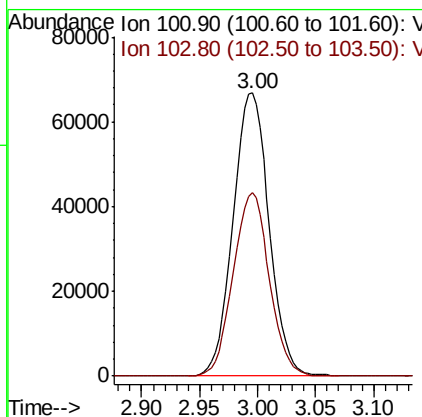
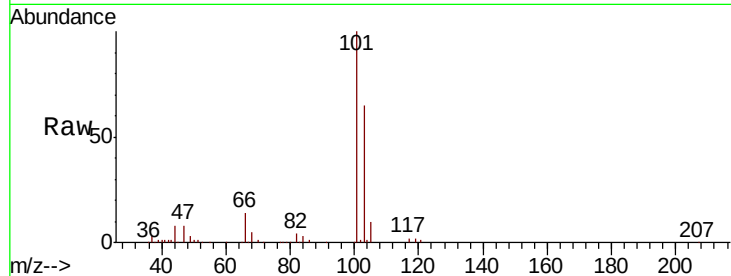
Trichlorofluoromethane
Concen: 19.882 ug/l
RT: 3.00 min Scan# 380
Delta R.T. 0.00 min
Lab File: VN059160.D
Acq: 11 Nov 2019 14:53

Instrument :
MSVOA_N
ClientSampleId :
VN1111WBSD01

Tot Ion	Ratio	Lower	Upper
101	100		
103	64.7	51.2	76.8

Manual Integrations
APPROVED

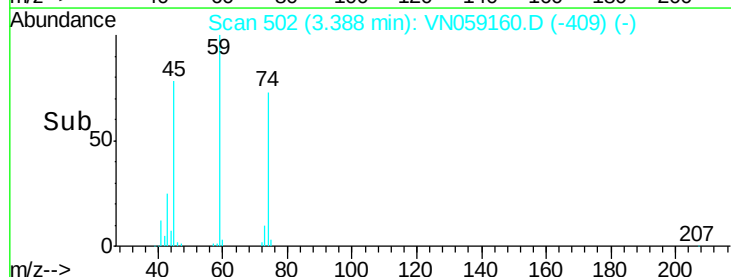
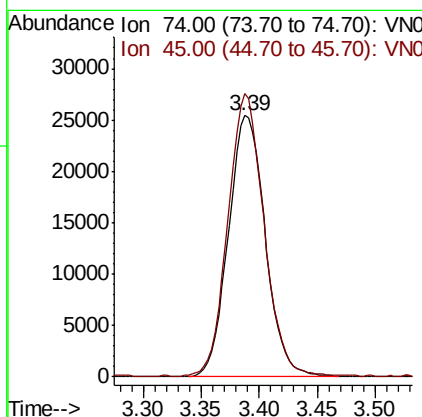
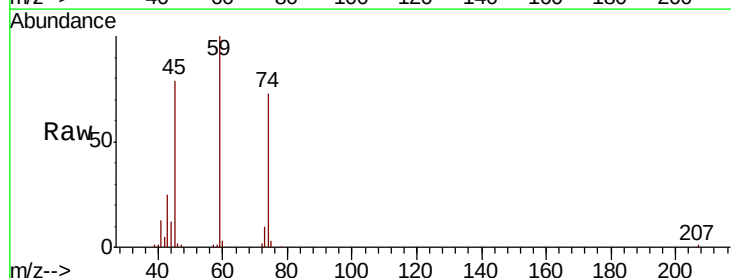
MMDadoda
11/12/2019 4:19:34 PM

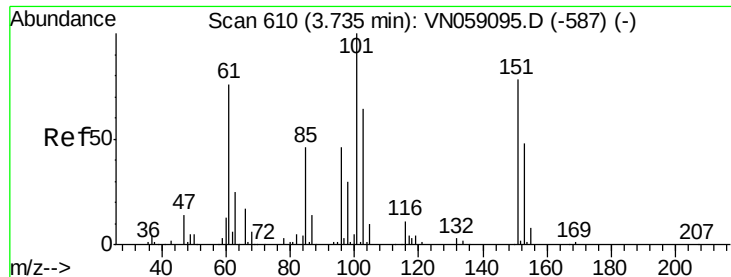


#8

Diethyl Ether
Concen: 19.114 ug/l
RT: 3.39 min Scan# 502
Delta R.T. 0.00 min
Lab File: VN059160.D
Acq: 11 Nov 2019 14:53

Tgt Ion	Ratio	Lower	Upper
74	100		
45	106.2	51.6	154.9





#9

1,1,2-Trichlorotrifluoroethane

Concen: 19.317 ug/l

RT: 3.73 min Scan# 610

Delta R.T. 0.00 min

Lab File: VN059160.D

Acq: 11 Nov 2019 14:53

Instrument :

MSVOA_N

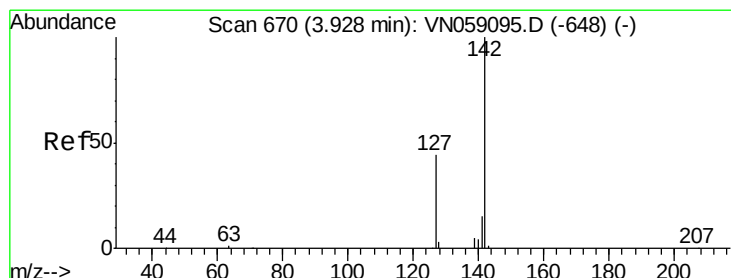
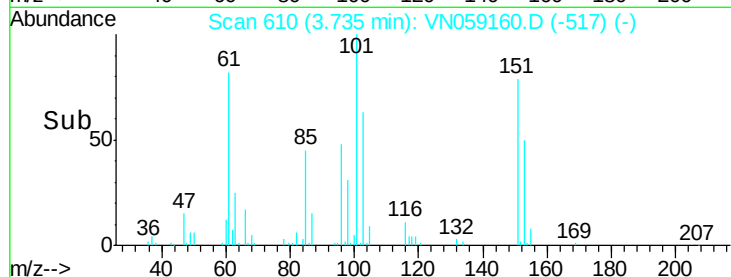
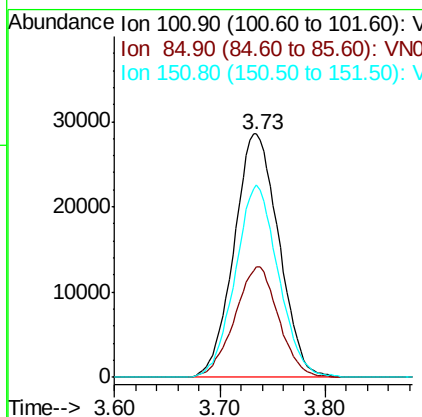
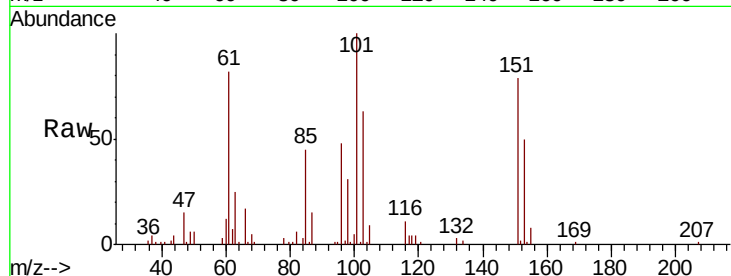
ClientSampleId :

VN1111WBSD01

Tot Ion:	101	Resp:	84199
Ion Ratio	Lower	Upper	
101	100		
85	44.5	35.5	53.3
151	76.1	62.2	93.2

Manual Integrations
APPROVED

MMDadoda
11/12/2019 4:19:34 PM



#10

Methyl Iodide

Concen: 18.393 ug/l

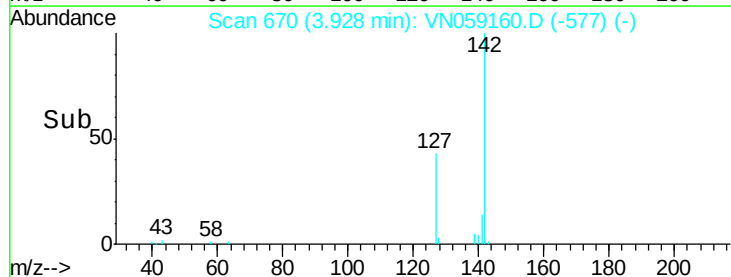
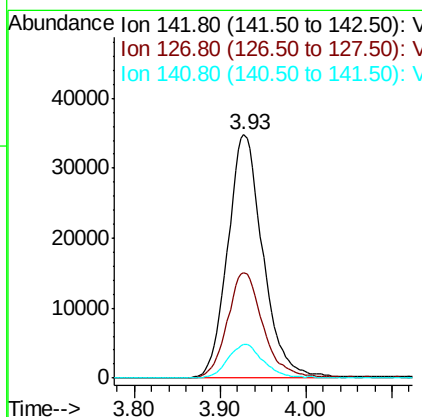
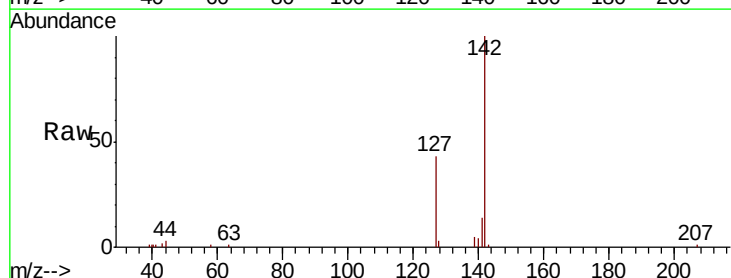
RT: 3.93 min Scan# 670

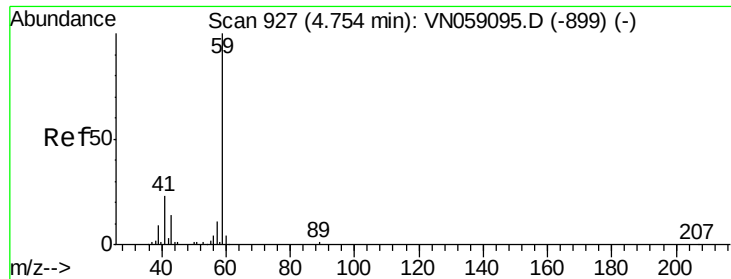
Delta R.T. 0.00 min

Lab File: VN059160.D

Acq: 11 Nov 2019 14:53

Tgt Ion:	142	Resp:	99237
Ion Ratio	Lower	Upper	
142	100		
127	43.7	34.2	51.2
141	13.9	11.4	17.0





#11

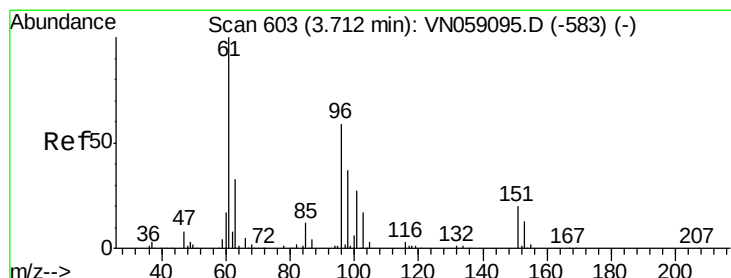
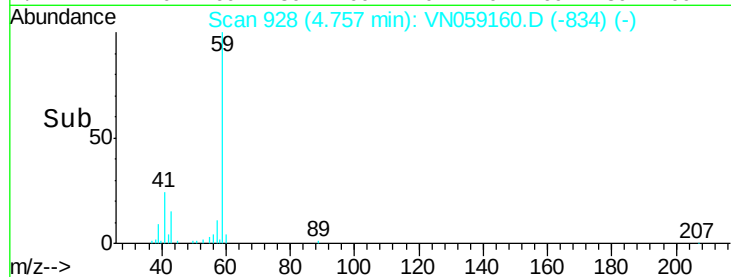
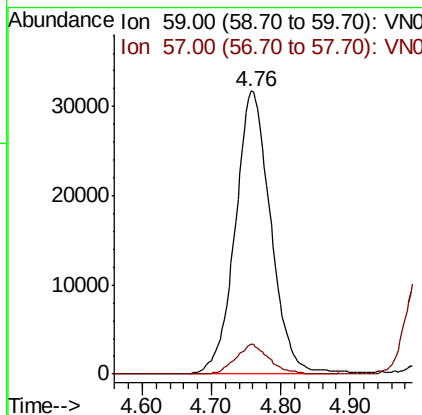
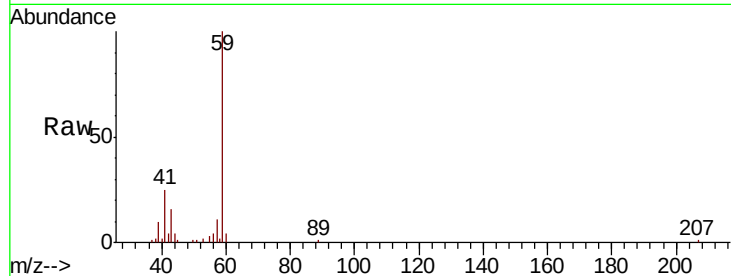
Tert butyl alcohol
Concen: 105.790 ug/l
RT: 4.76 min Scan# 928
Delta R.T. 0.00 min
Lab File: VN059160.D
Acq: 11 Nov 2019 14:53

Instrument :
MSVOA_N
ClientSampled :
VN1111WBSD01

Tot Ion	59	Resp	112809
Ion Ratio	100	Lower	Upper
57	9.9	8.3	12.5

Manual Integrations
APPROVED

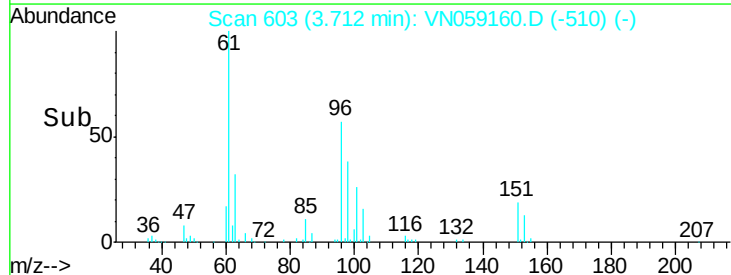
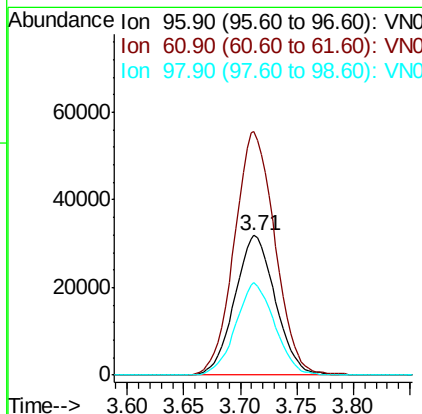
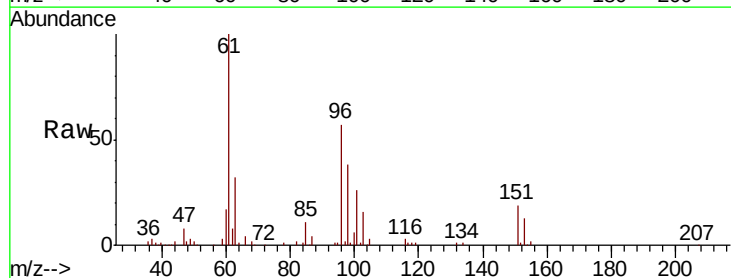
MMDadoda
11/12/2019 4:19:34 PM

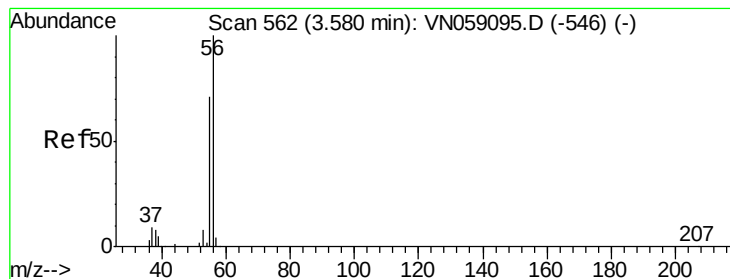


#12

1,1-Dichloroethene
Concen: 18.786 ug/l
RT: 3.71 min Scan# 603
Delta R.T. -0.00 min
Lab File: VN059160.D
Acq: 11 Nov 2019 14:53

Tgt Ion	96	Resp	79767
Ion Ratio	100	Lower	Upper
61	174.2	136.5	204.7
98	65.8	50.2	75.4





#13

Acrolein

Concen: 80.768 ug/l

RT: 3.58 min Scan# 563

Delta R.T. 0.00 min

Lab File: VN059160.D

Acq: 11 Nov 2019 14:53

Instrument :

MSVOA_N

ClientSampleId :

VN1111WBSD01

Tot Ion: 56 Resp: 44405

Ion Ratio Lower Upper

56 100

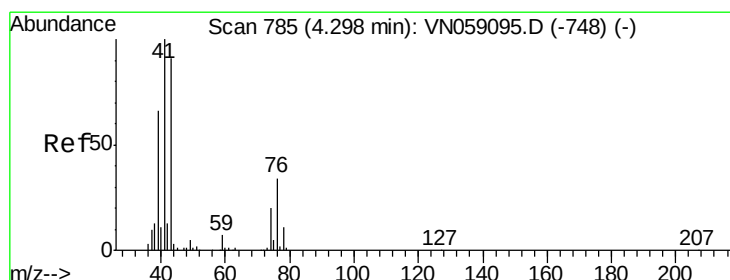
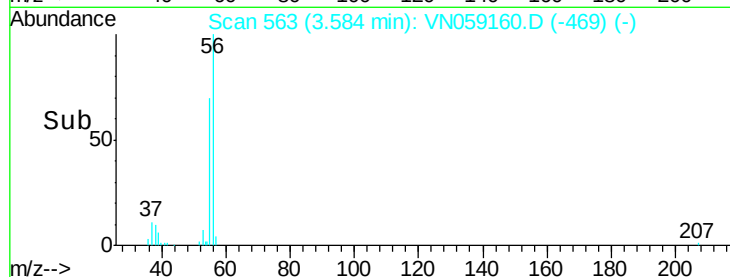
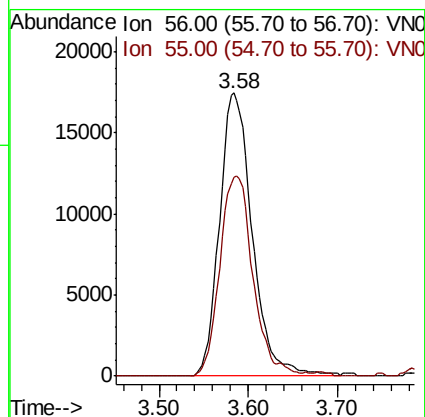
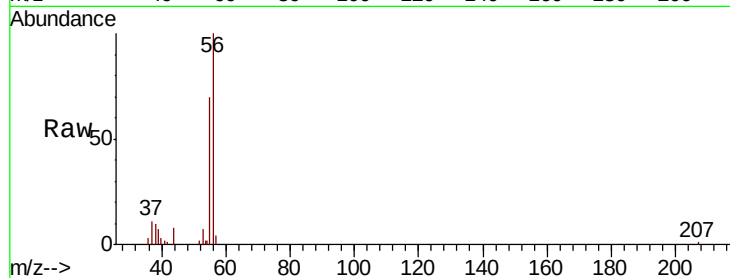
55 71.8 56.4 84.6

Manual Integrations

APPROVED

MMDadoda

11/12/2019 4:19:34 PM



#14

Allyl chloride

Concen: 18.395 ug/l

RT: 4.30 min Scan# 785

Delta R.T. 0.00 min

Lab File: VN059160.D

Acq: 11 Nov 2019 14:53

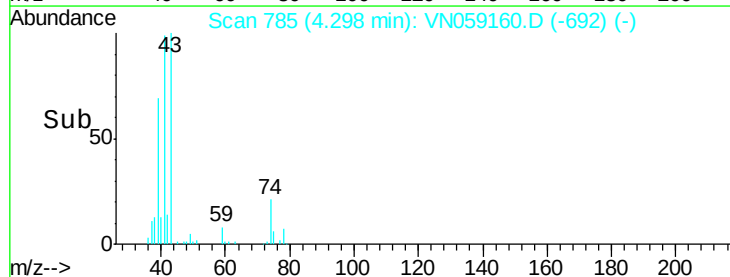
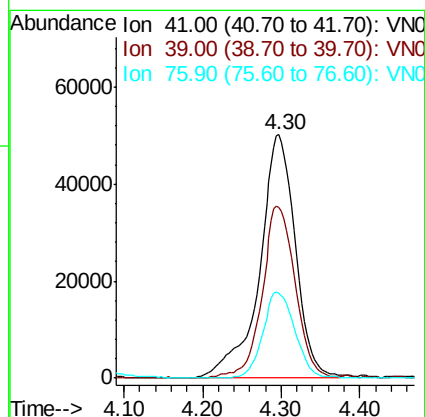
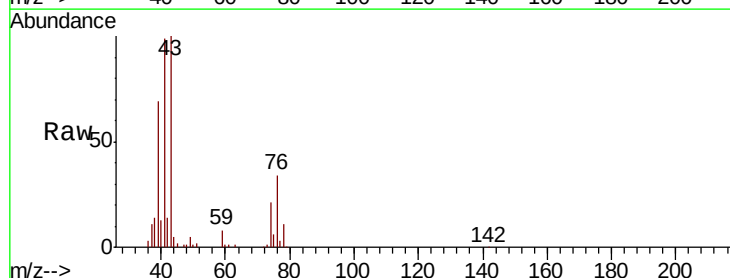
Tgt Ion: 41 Resp: 160445

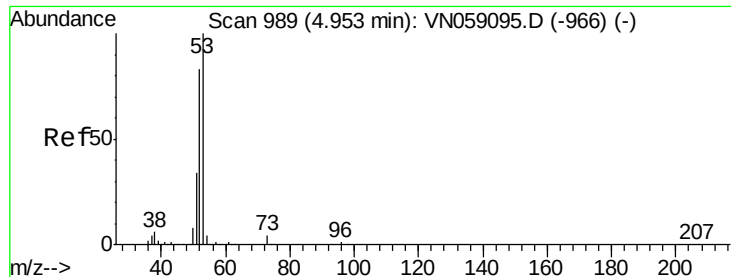
Ion Ratio Lower Upper

41 100

39 65.4 49.1 73.7

76 31.8 24.9 37.3





#15

Acrylonitrile

Concen: 99.303 ug/l

RT: 4.96 min Scan# 991

Delta R.T. 0.01 min

Lab File: VN059160.D

Acq: 11 Nov 2019 14:53

Instrument :

MSVOA_N

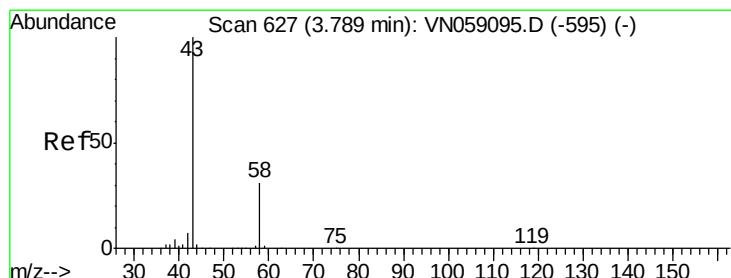
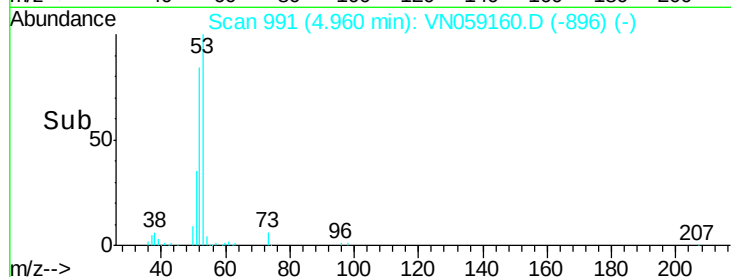
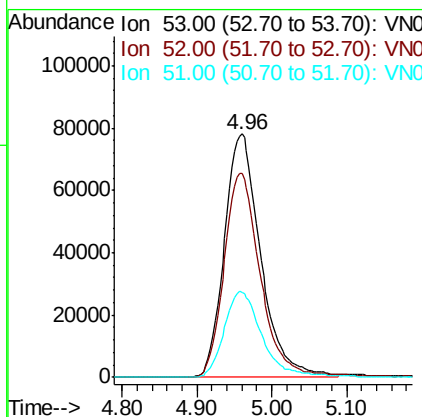
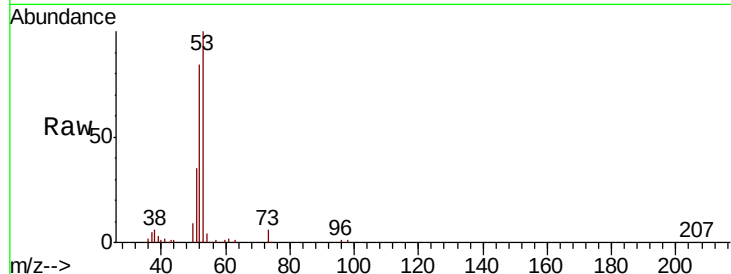
ClientSampleId :

VN1111WBSD01

Tot Ion	53	Resp	263527
Ion	Ratio	Lower	Upper
53	100		
52	83.3	65.0	97.6
51	36.5	28.0	42.0

Manual Integrations
APPROVED

MMDadoda
11/12/2019 4:19:34 PM



#16

Acetone

Concen: 88.607 ug/l

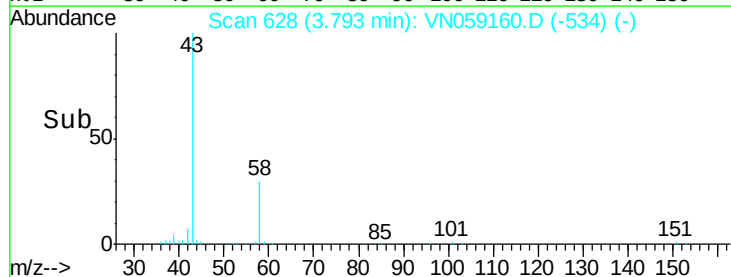
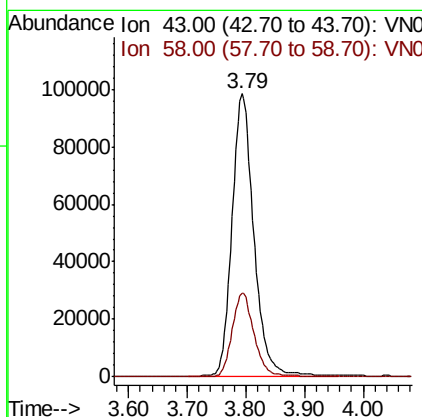
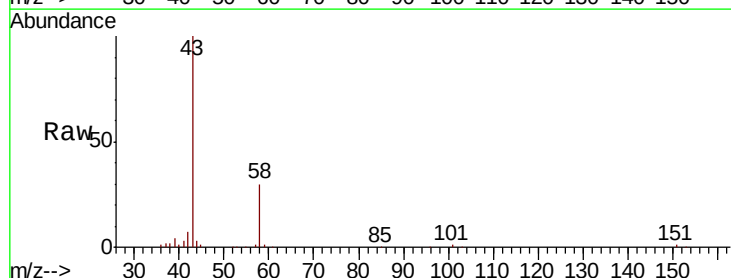
RT: 3.79 min Scan# 628

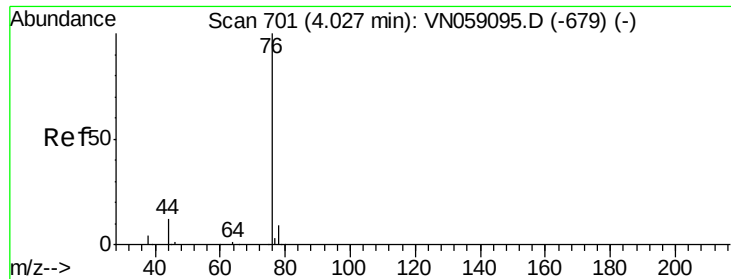
Delta R.T. 0.00 min

Lab File: VN059160.D

Acq: 11 Nov 2019 14:53

Tgt Ion	43	Resp	257818
Ion	Ratio	Lower	Upper
43	100		
58	29.8	24.9	37.3





#17

Carbon Disulfide

Concen: 17.257 ug/l

RT: 4.03 min Scan# 701

Delta R.T. -0.00 min

Lab File: VN059160.D

Acq: 11 Nov 2019 14:53

Instrument :

MSVOA_N

ClientSampleId :

VN1111WBSD01

Tot Ion: 76 Resp: 227458

Ion Ratio Lower Upper

76 100

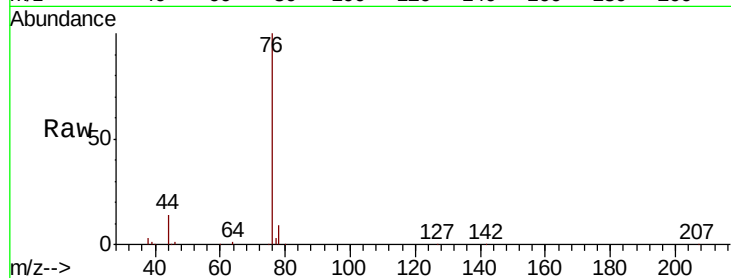
78 8.9 7.4 11.0

Manual Integrations

APPROVED

MMDadoda

11/12/2019 4:19:34 PM



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

4.03

80000

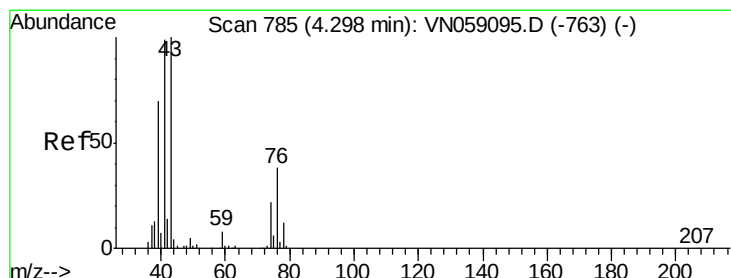
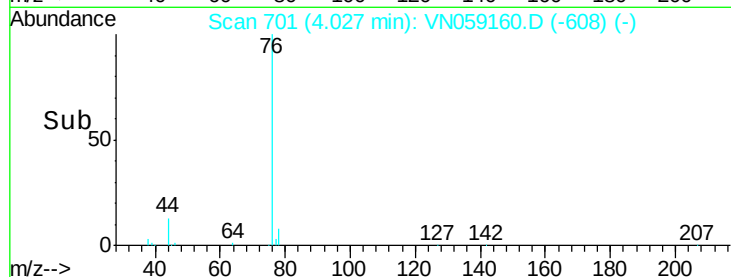
60000

40000

20000

0

Time--> 3.90 4.00 4.10



#18

Methyl Acetate

Concen: 20.811 ug/l

RT: 4.30 min Scan# 786

Delta R.T. 0.00 min

Lab File: VN059160.D

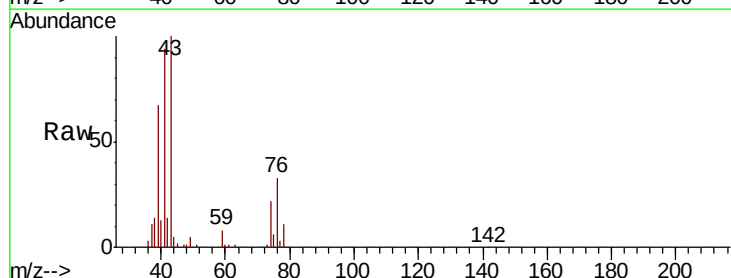
Acq: 11 Nov 2019 14:53

Tgt Ion: 43 Resp: 143732

Ion Ratio Lower Upper

43 100

74 22.5 17.8 26.8



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

60000

50000

40000

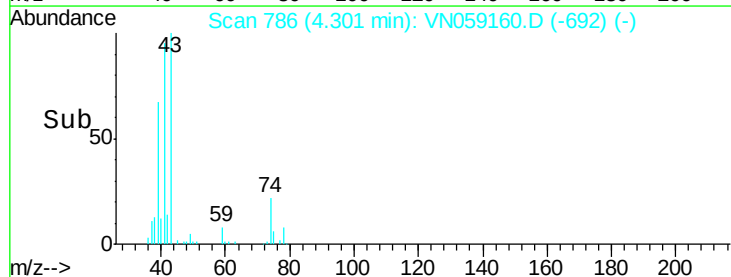
30000

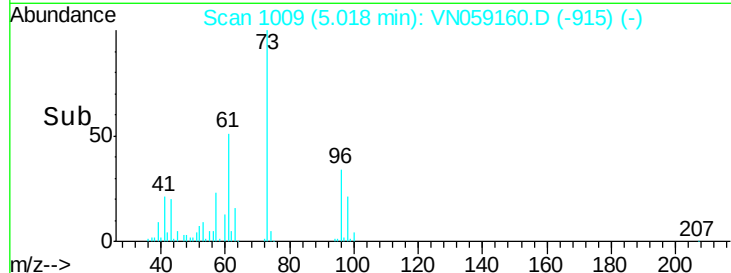
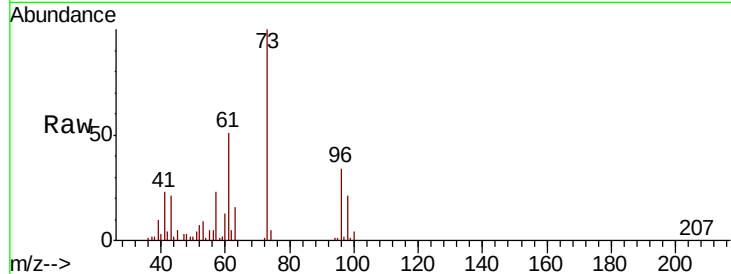
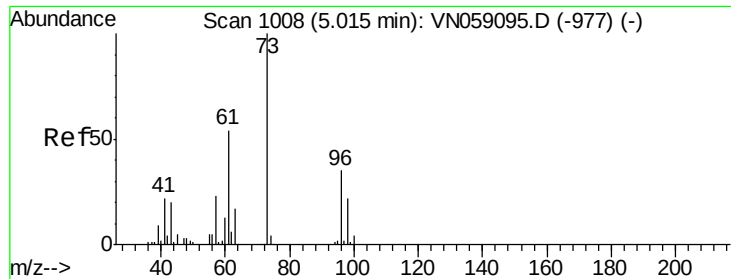
20000

10000

0

Time--> 4.20 4.30 4.40





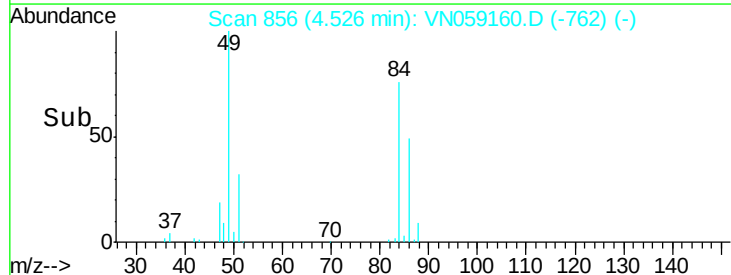
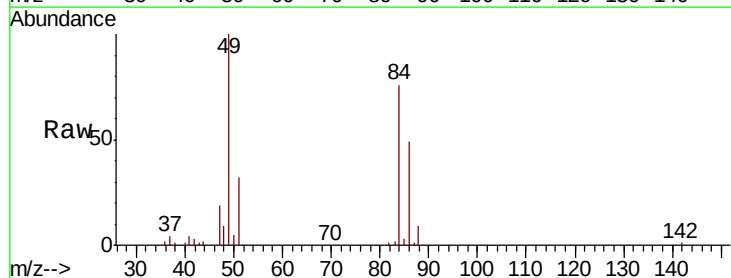
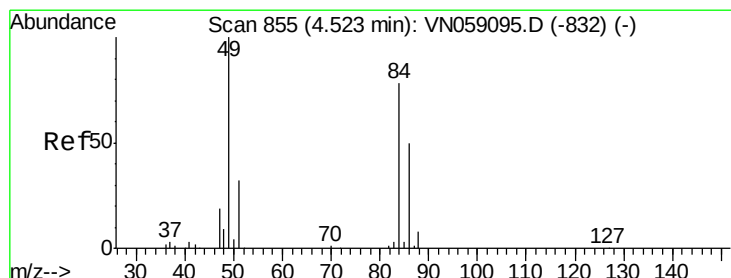
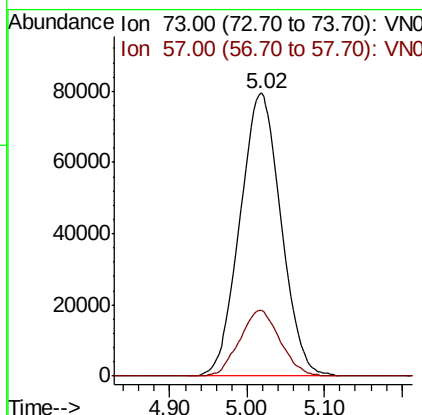
#19
Methyl tert-butyl Ether
Concen: 20.113 ug/l
RT: 5.02 min Scan# 1009
Delta R.T. 0.00 min
Lab File: VN059160.D
Acq: 11 Nov 2019 14:53

Tot Ion: 73 Resp: 294028
Ion Ratio Lower Upper
73 100
57 23.3 18.4 27.6

Instrument :
MSVOA_N
ClientSampleId :
VN1111WBSD01

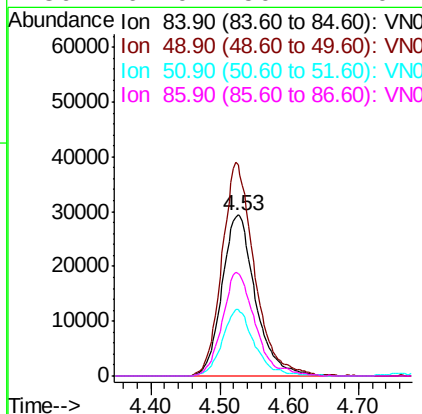
Manual Integrations
APPROVED

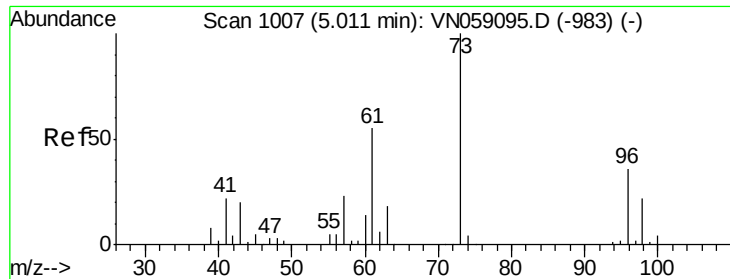
MMDadoda
11/12/2019 4:19:34 PM



#20
Methylene Chloride
Concen: 19.457 ug/l
RT: 4.53 min Scan# 856
Delta R.T. 0.00 min
Lab File: VN059160.D
Acq: 11 Nov 2019 14:53

Tgt Ion: 84 Resp: 98632
Ion Ratio Lower Upper
84 100
49 131.1 102.0 153.0
51 41.5 32.2 48.2
86 64.0 50.7 76.1





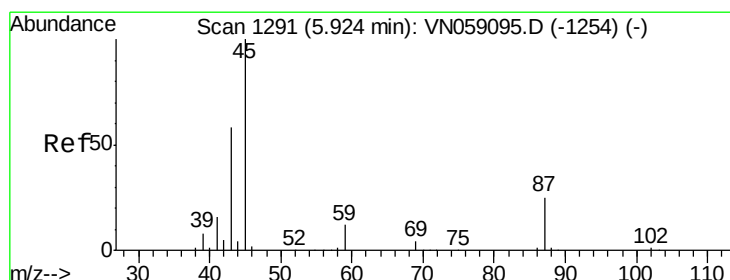
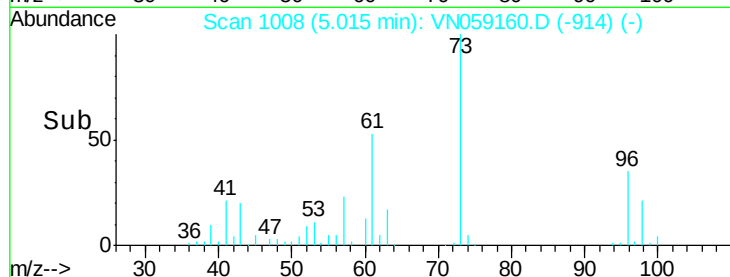
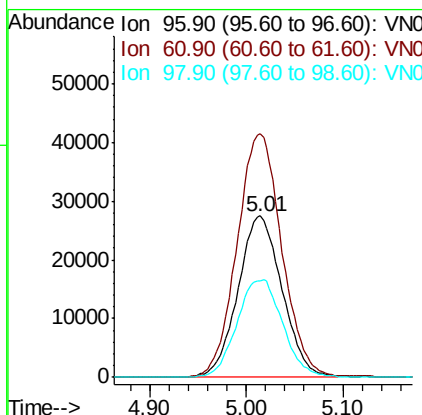
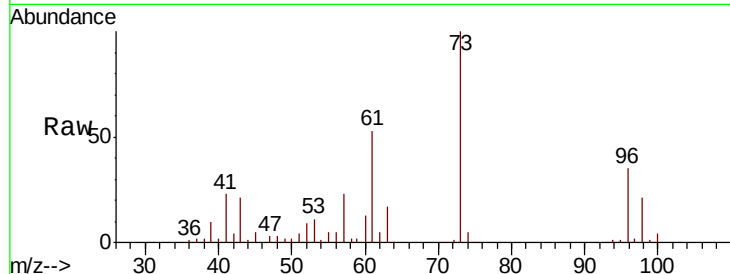
#21
trans-1,2-Dichloroethene
Concen: 19.121 ug/l
RT: 5.01 min Scan# 1008
Delta R.T. 0.00 min
Lab File: VN059160.D
Acq: 11 Nov 2019 14:53

Instrument :
MSVOA_N
ClientSampleId :
VN1111WBSD01

Tot Ion	Ratio	Lower	Upper
96	100		
61	150.4	122.6	183.8
98	60.2	50.3	75.5

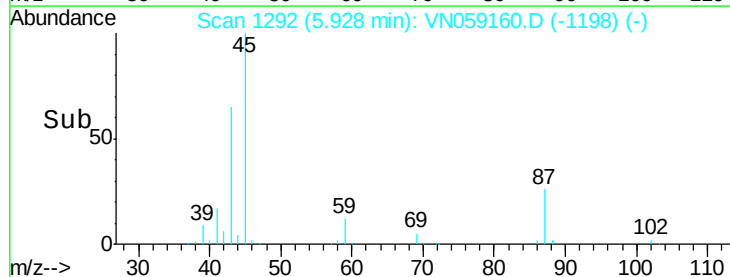
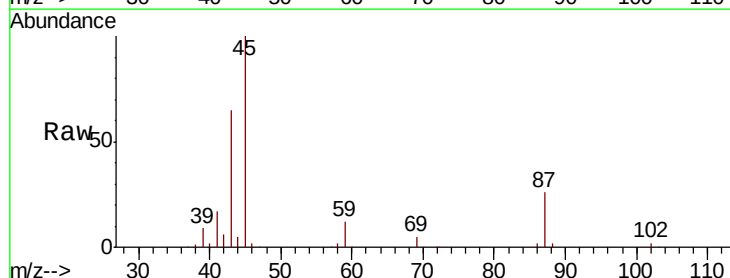
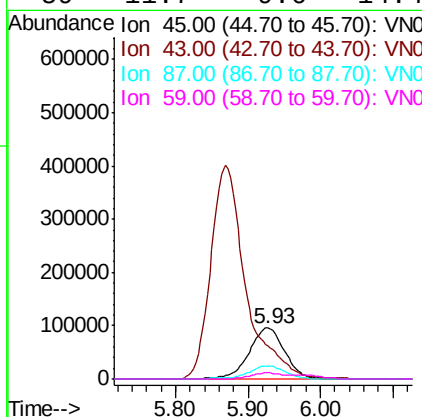
Manual Integrations
APPROVED

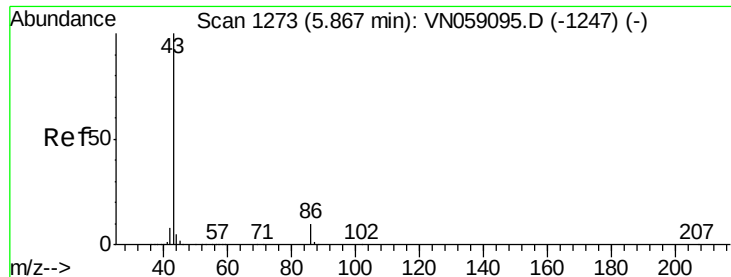
MMDadoda
11/12/2019 4:19:34 PM



#22
Diisopropyl ether
Concen: 19.846 ug/l
RT: 5.93 min Scan# 1292
Delta R.T. 0.00 min
Lab File: VN059160.D
Acq: 11 Nov 2019 14:53

Tgt Ion	Ratio	Lower	Upper
45	100		
43	63.6	46.7	70.1
87	25.9	20.5	30.7
59	11.7	9.6	14.4





#23

Vinyl Acetate

Concen: 105.269 ug/l

RT: 5.87 min Scan# 1274

Delta R.T. 0.00 min

Lab File: VN059160.D

Acq: 11 Nov 2019 14:53

Instrument :

MSVOA_N

ClientSampleId :

VN1111WBSD01

Tot Ion: 43 Resp: 1344089

Ion Ratio Lower Upper

43 100

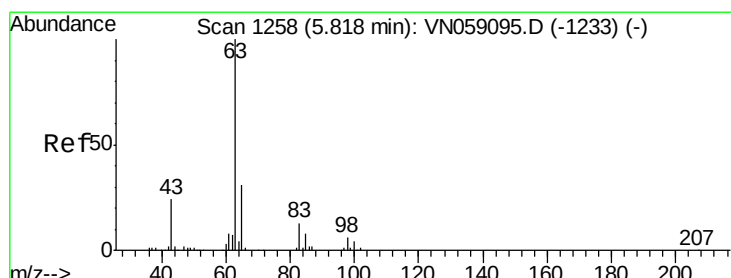
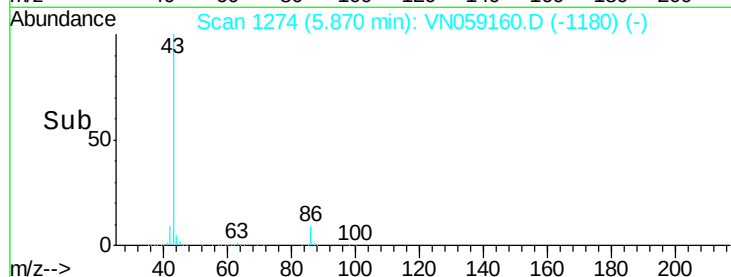
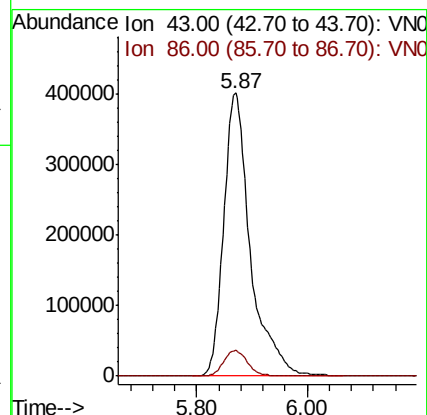
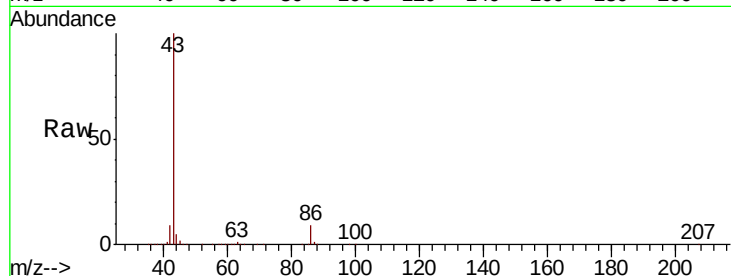
86 9.0 7.7 11.5

Manual Integrations

APPROVED

MMDadoda

11/12/2019 4:19:34 PM



#24

1,1-Dichloroethane

Concen: 19.561 ug/l

RT: 5.82 min Scan# 1259

Delta R.T. 0.00 min

Lab File: VN059160.D

Acq: 11 Nov 2019 14:53

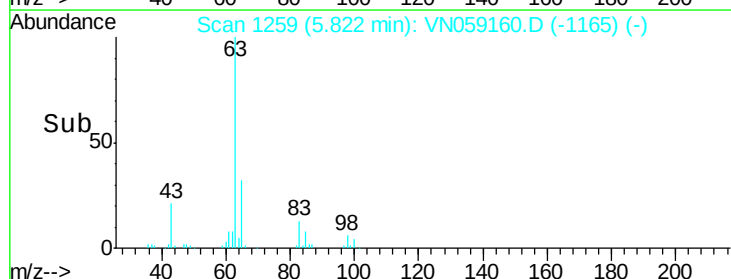
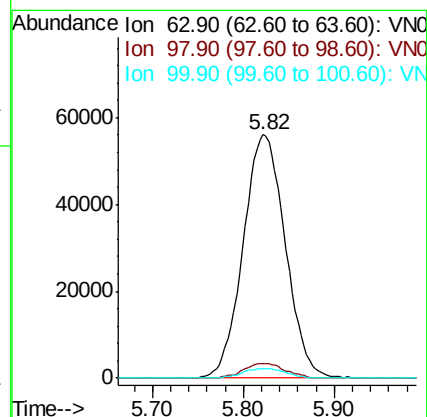
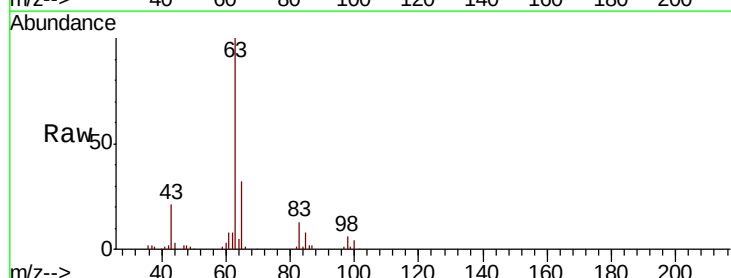
Tgt Ion: 63 Resp: 179988

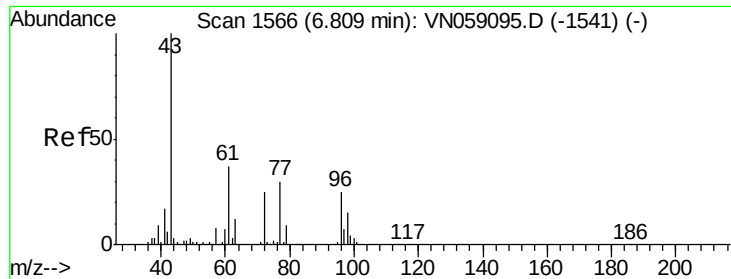
Ion Ratio Lower Upper

63 100

98 6.1 2.8 8.4

100 3.9 1.9 5.7





#25

2-Butanone

Concen: 98.494 ug/l

RT: 6.81 min Scan# 1567

Delta R.T. 0.00 min

Lab File: VN059160.D

Acq: 11 Nov 2019 14:53

Tot Ion: 43 Resp: 377702

Ion Ratio Lower Upper

43 100

72 25.7 20.3 30.5

Instrument :

MSVOA_N

ClientSampleId :

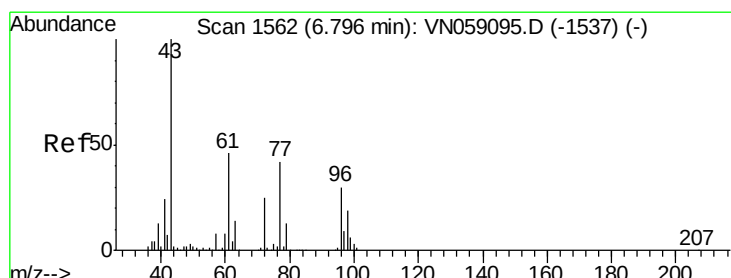
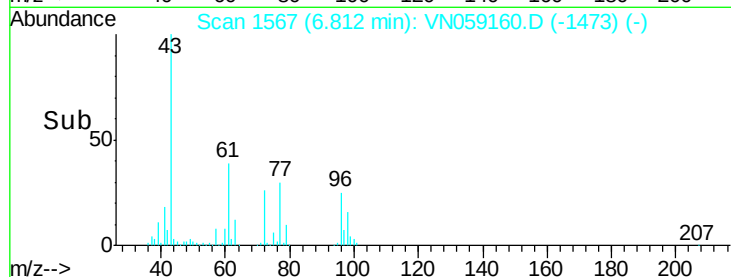
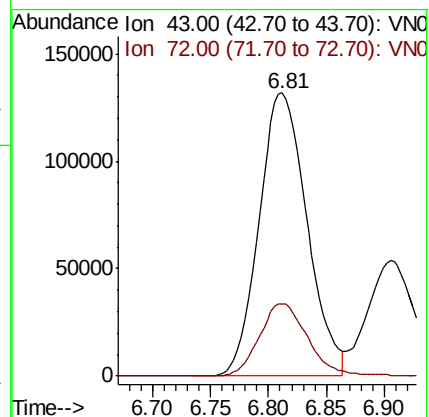
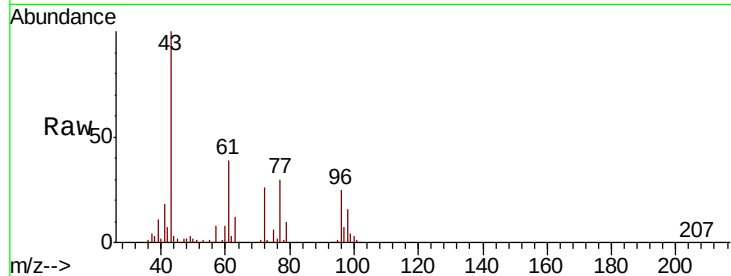
VN1111WBSD01

Manual Integrations

APPROVED

MMDadoda

11/12/2019 4:19:34 PM



#26

2,2-Dichloropropane

Concen: 18.463 ug/l

RT: 6.80 min Scan# 1563

Delta R.T. 0.00 min

Lab File: VN059160.D

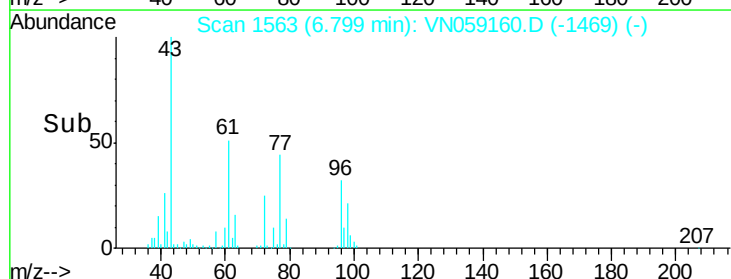
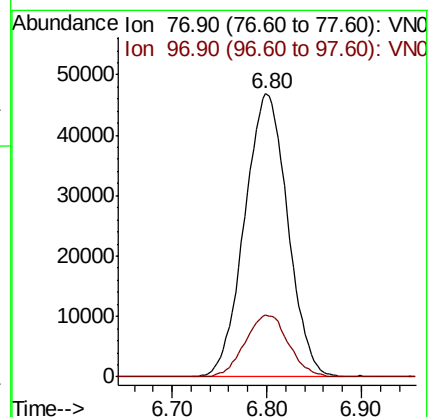
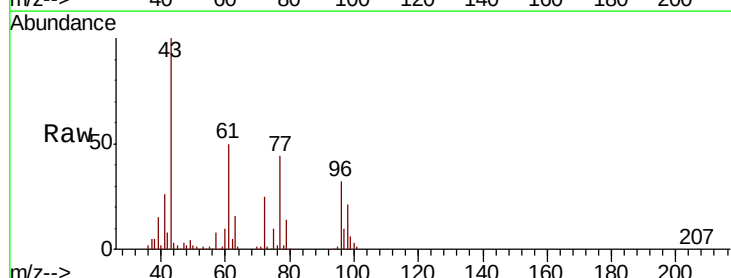
Acq: 11 Nov 2019 14:53

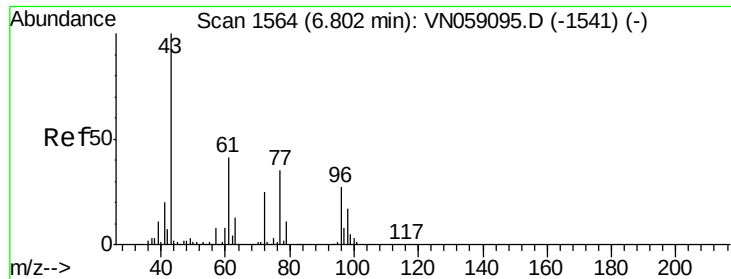
Tgt Ion: 77 Resp: 148552

Ion Ratio Lower Upper

77 100

97 21.9 11.2 33.6





#27

cis-1,2-Dichloroethene

Concen: 19.592 ug/l

RT: 6.81 min Scan# 1565

Delta R.T. 0.00 min

Lab File: VN059160.D

Acq: 11 Nov 2019 14:53

Instrument :

MSVOA_N

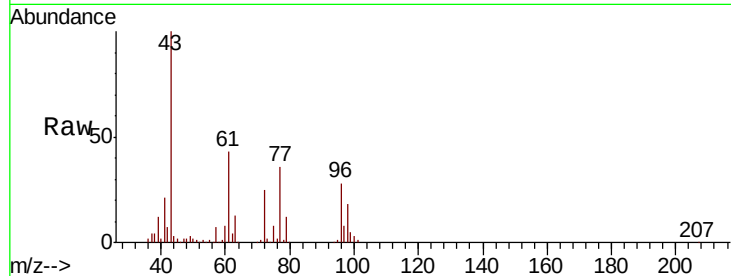
ClientSampleId :

VN1111WBSD01

Tot Ion:	96	Resp:	103598
Ion	Ratio	Lower	Upper
96	100		
61	155.8	0.0	311.6
98	64.4	0.0	129.8

Manual Integrations
APPROVED

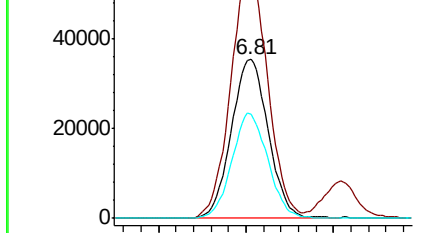
MMDadoda
11/12/2019 4:19:34 PM



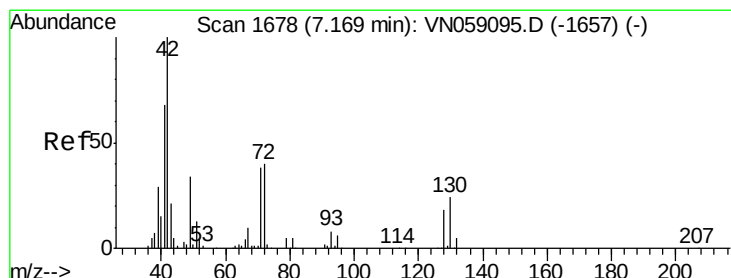
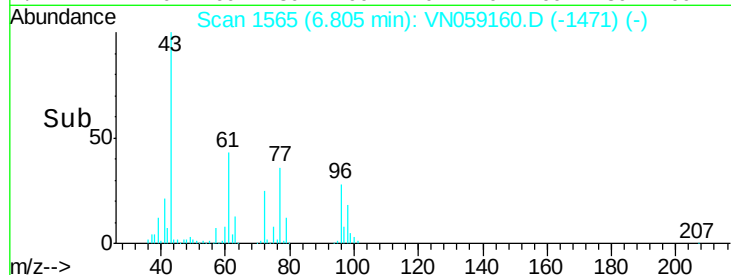
Abundance Ion 95.90 (95.60 to 96.60): VN059160.D (-1471) (-)

Ion 60.90 (60.60 to 61.60): VN059160.D (-1471) (-)

Ion 97.90 (97.60 to 98.60): VN059160.D (-1471) (-)



Time-->



#28

Bromochloromethane

Concen: 20.903 ug/l

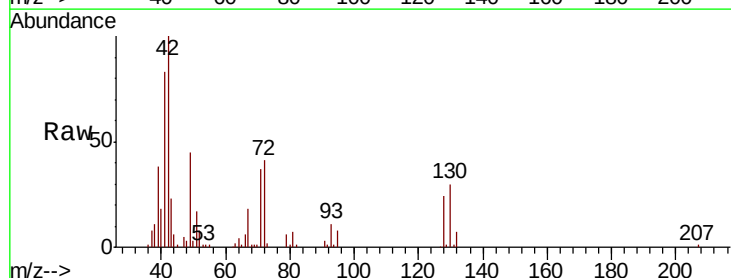
RT: 7.17 min Scan# 1678

Delta R.T. 0.00 min

Lab File: VN059160.D

Acq: 11 Nov 2019 14:53

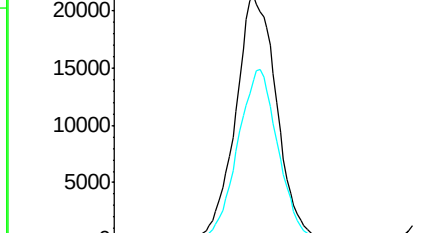
Tgt Ion:	49	Resp:	57866
Ion	Ratio	Lower	Upper
49	100		
129	1.0	0.0	3.8
130	68.4	55.6	83.4



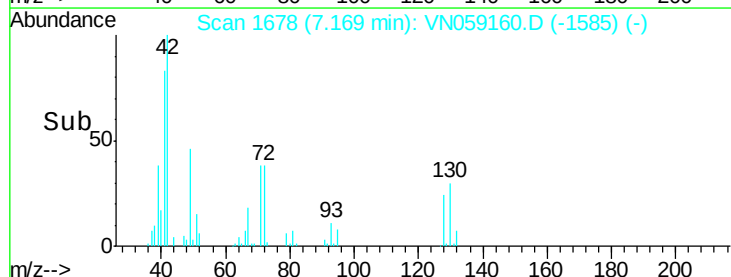
Abundance Ion 48.90 (48.60 to 49.60): VN059160.D (-1585) (-)

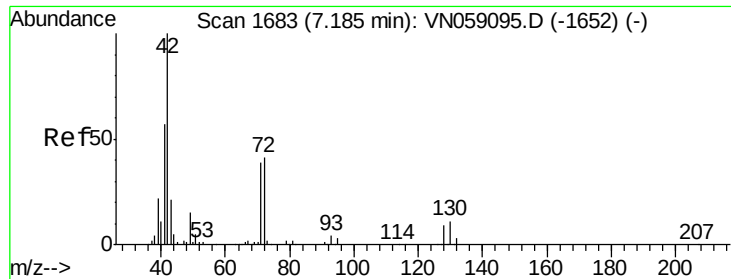
Ion 128.80 (128.50 to 129.50): VN059160.D (-1585) (-)

Ion 129.80 (129.50 to 130.50): VN059160.D (-1585) (-)



Time-->





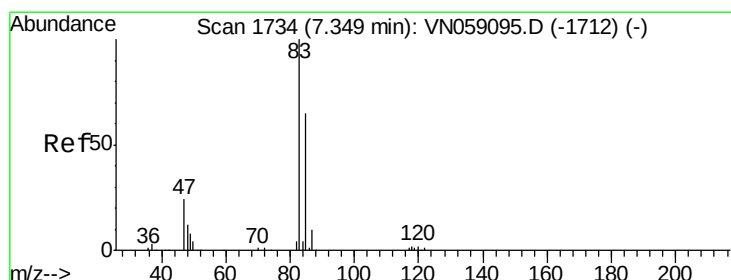
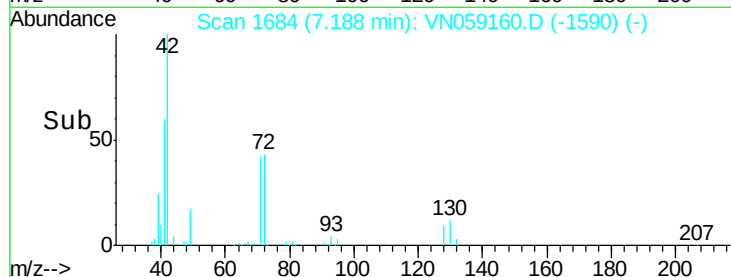
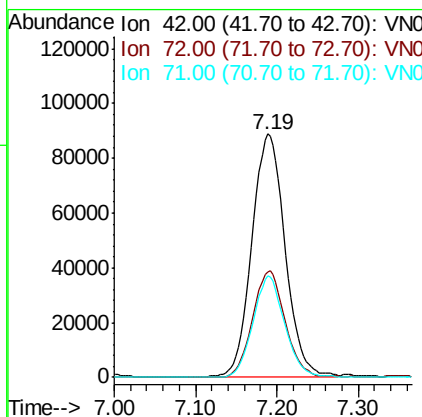
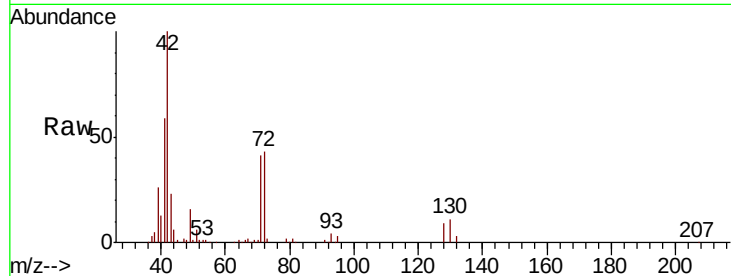
#29
Tetrahydrofuran
Concen: 103.085 ug/l
RT: 7.19 min Scan# 1684
Delta R.T. 0.00 min
Lab File: VN059160.D
Acq: 11 Nov 2019 14:53

Instrument :
MSVOA_N
ClientSampleId :
VN1111WBSD01

Tot Ion	Ratio	Lower	Upper
42	100		
72	42.8	33.1	49.7
71	39.7	30.9	46.3

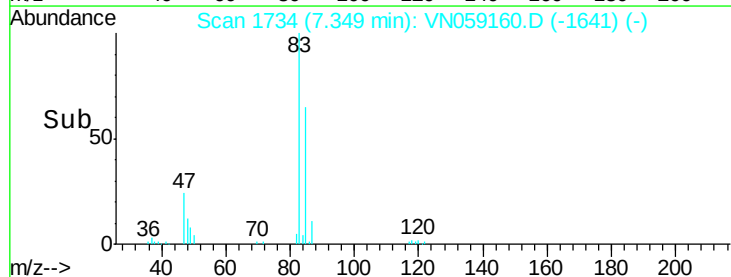
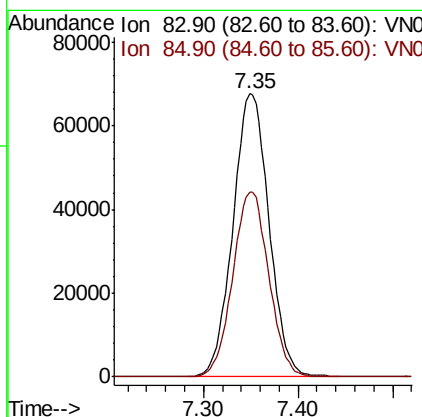
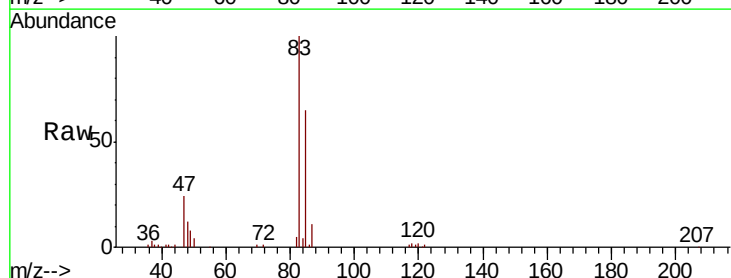
Manual Integrations
APPROVED

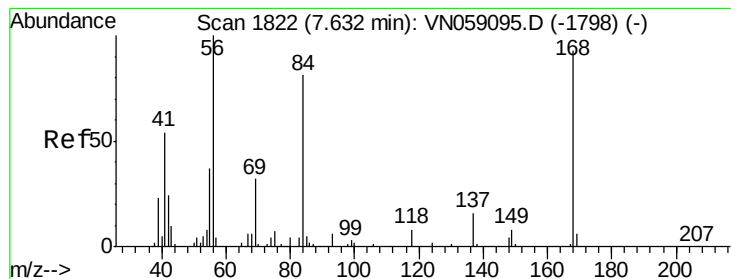
MMDadoda
11/12/2019 4:19:34 PM



#30
Chloroform
Concen: 20.317 ug/l
RT: 7.35 min Scan# 1734
Delta R.T. 0.00 min
Lab File: VN059160.D
Acq: 11 Nov 2019 14:53

Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.3	51.8	77.8





#31

Cyclohexane

Concen: 18.504 ug/l

RT: 7.63 min Scan# 1823

Delta R.T. 0.00 min

Lab File: VN059160.D

Acq: 11 Nov 2019 14:53

Instrument :

MSVOA_N

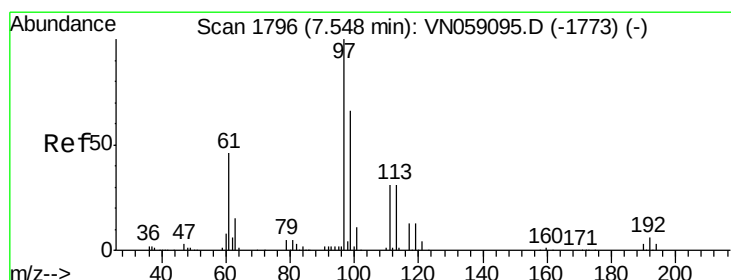
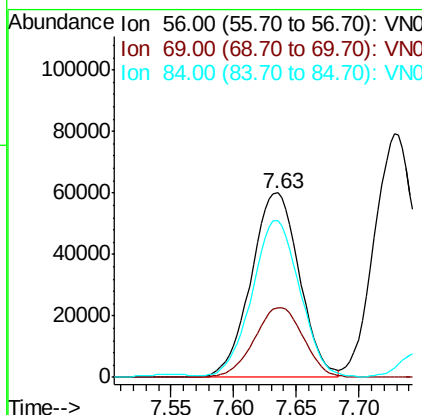
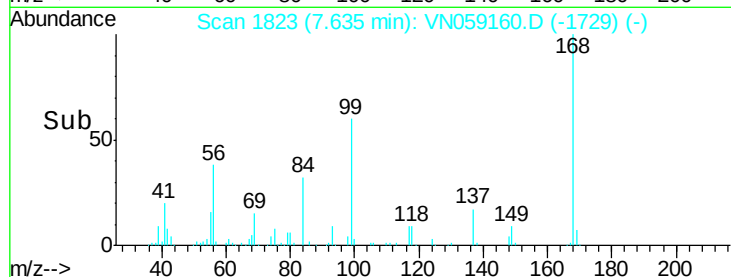
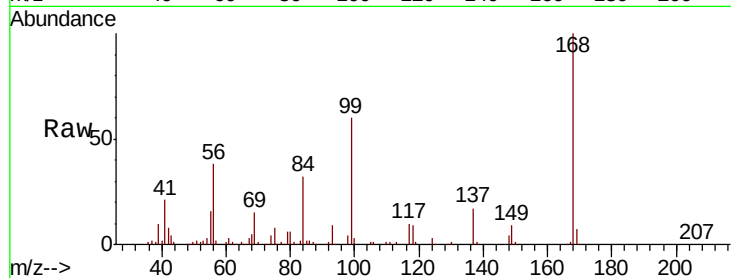
ClientSampleId :

VN1111WBSD01

Tot Ion:	56	Resp:	161183
Ion Ratio	Lower	Upper	
56	100		
69	38.1	25.8	38.8
84	83.8	65.0	97.4

Manual Integrations
APPROVED

MMDadoda
11/12/2019 4:19:34 PM



#32

1,1,1-Trichloroethane

Concen: 20.571 ug/l

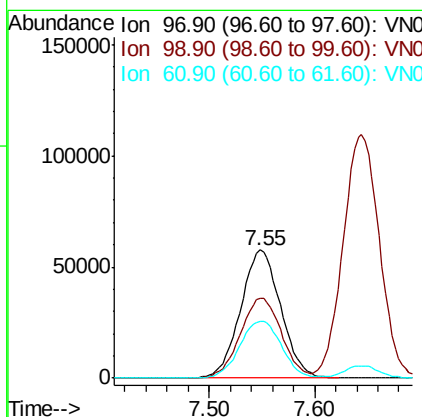
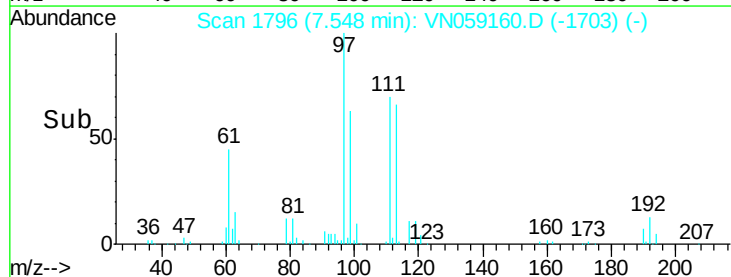
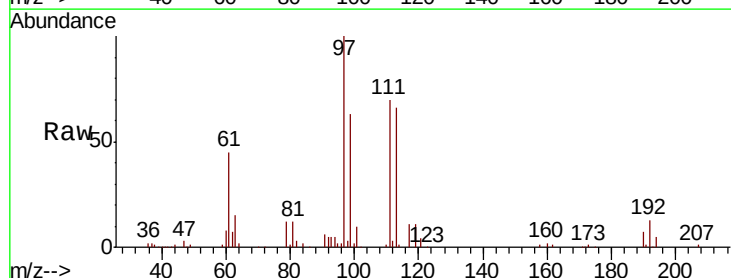
RT: 7.55 min Scan# 1796

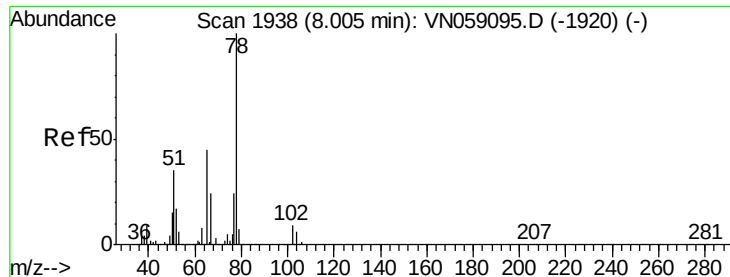
Delta R.T. 0.00 min

Lab File: VN059160.D

Acq: 11 Nov 2019 14:53

Tgt Ion:	97	Resp:	152662
Ion Ratio	Lower	Upper	
97	100		
99	63.8	51.0	76.6
61	46.3	35.8	53.8





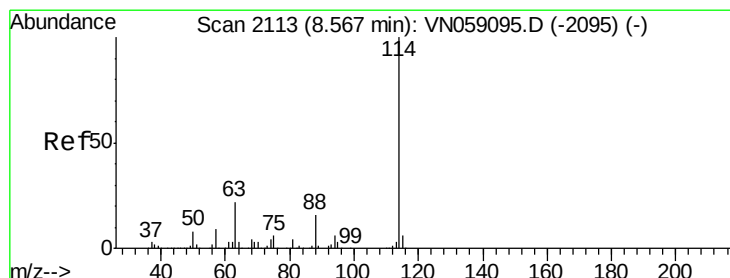
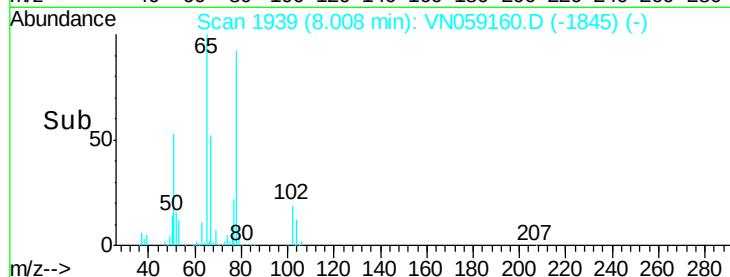
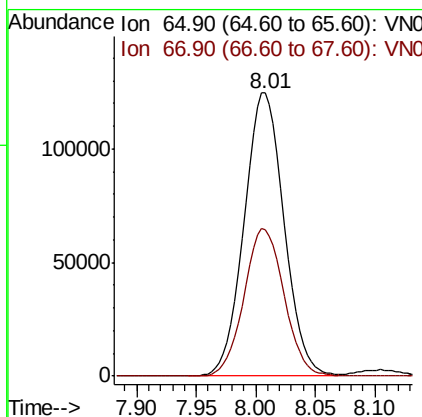
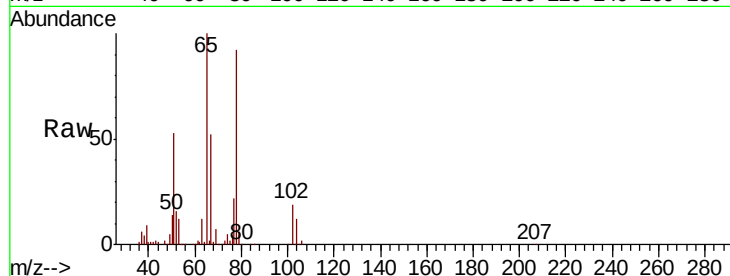
#33
 1,2-Dichloroethane-d4
 Concen: 51.814 ug/l
 RT: 8.01 min Scan# 1939
 Delta R.T. 0.00 min
 Lab File: VN059160.D
 Acq: 11 Nov 2019 14:53

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1111WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
65	100			
67	52.5	0.0	107.4	

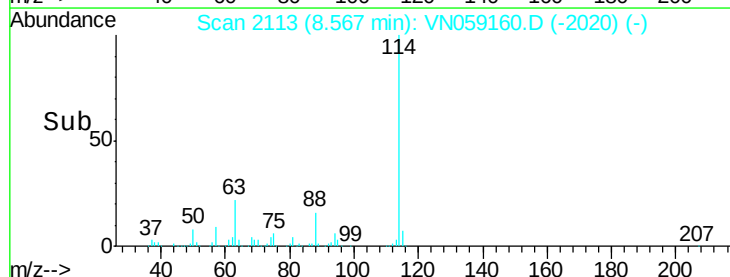
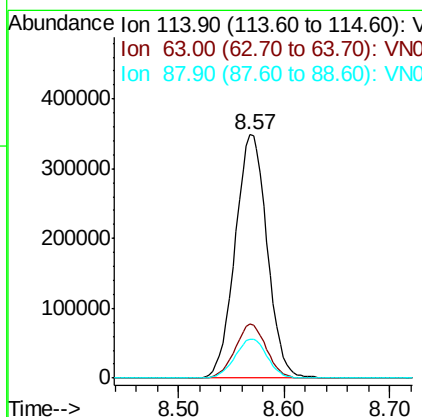
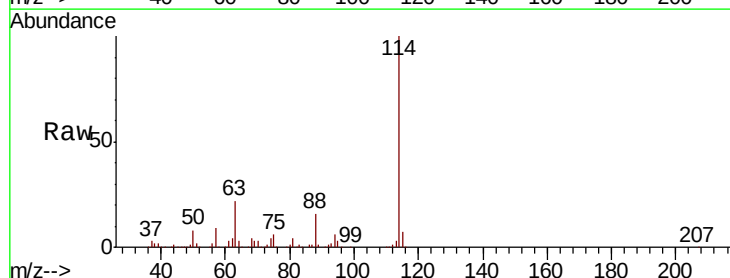
Manual Integrations
 APPROVED

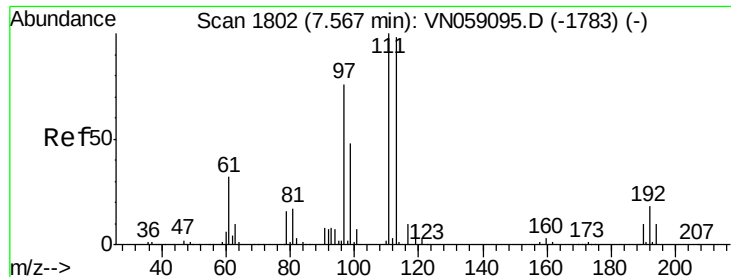
MMDadoda
 11/12/2019 4:19:34 PM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2113
 Delta R.T. 0.00 min
 Lab File: VN059160.D
 Acq: 11 Nov 2019 14:53

Tgt Ion	Ratio	Resp	Lower	Upper
114	100			
63	22.3	0.0	43.4	
88	15.9	0.0	32.2	





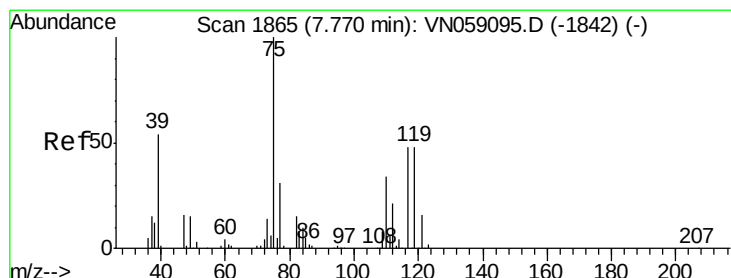
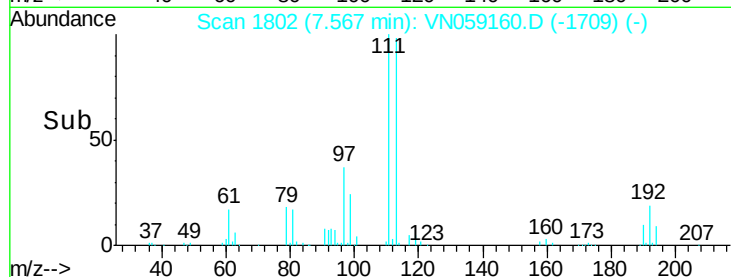
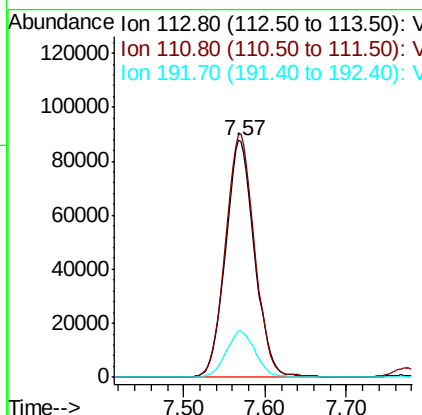
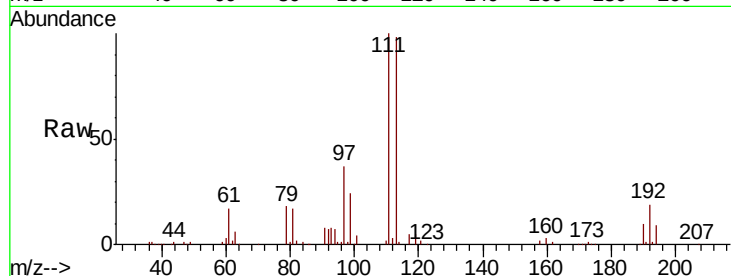
#35
Dibromofluoromethane
Concen: 49.982 ug/l
RT: 7.57 min Scan# 1802
Delta R.T. -0.00 min
Lab File: VN059160.D
Acq: 11 Nov 2019 14:53

Instrument :
MSVOA_N
ClientSampleId :
VN1111WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
113	100	218481		
111	102.8	82.8	124.2	
192	19.7	16.1	24.1	

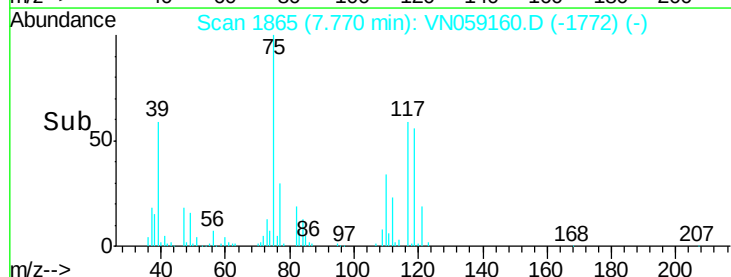
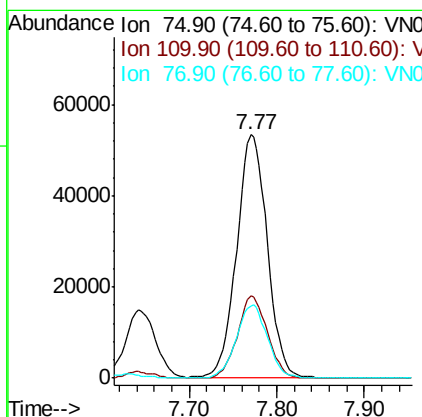
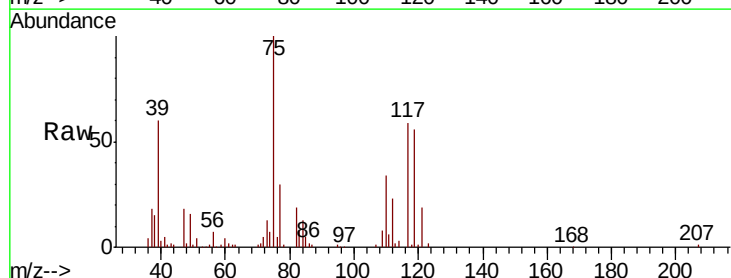
Manual Integrations
APPROVED

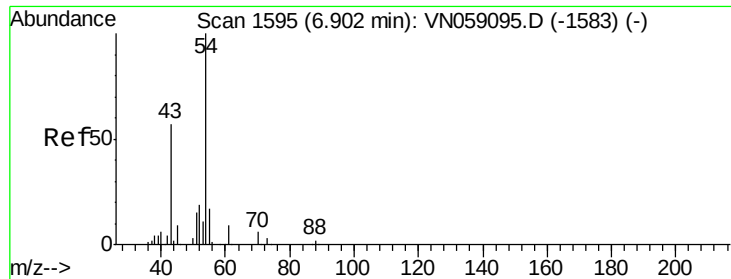
MMDadoda
11/12/2019 4:19:34 PM



#36
1,1-Dichloropropene
Concen: 18.996 ug/l
RT: 7.77 min Scan# 1865
Delta R.T. -0.00 min
Lab File: VN059160.D
Acq: 11 Nov 2019 14:53

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	129989		
110	32.9	17.1	51.2	
77	30.7	24.8	37.2	





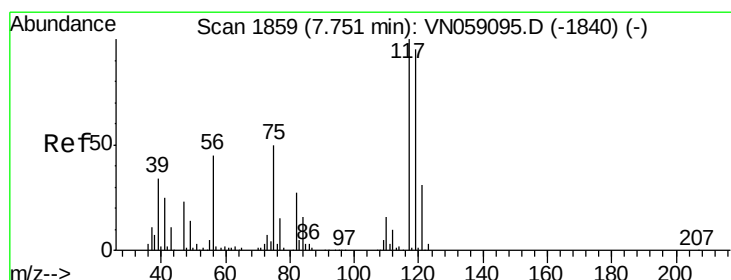
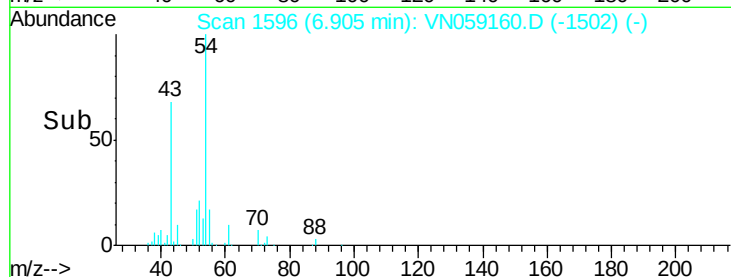
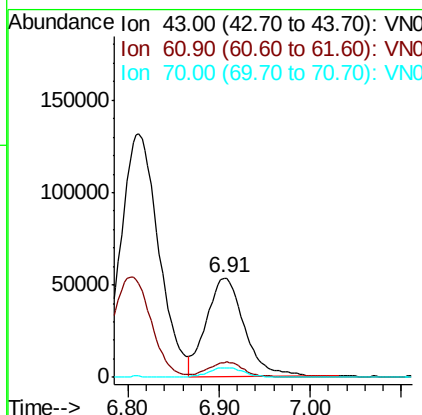
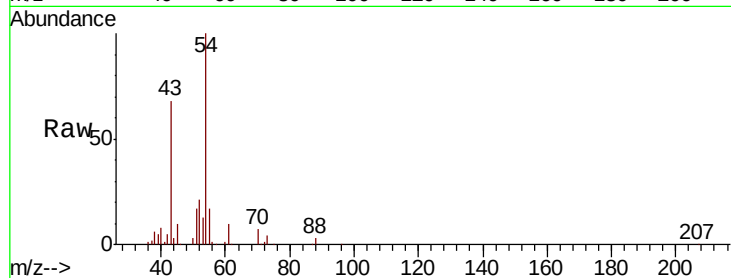
#37
Ethyl Acetate
Concen: 20.442 ug/l
RT: 6.91 min Scan# 1596
Delta R.T. 0.00 min
Lab File: VN059160.D
Acq: 11 Nov 2019 14:53

Instrument :
MSVOA_N
ClientSampleId :
VN1111WBSD01

Tot Ion	Ratio	Lower	Upper
43	100		
61	14.4	11.2	16.8
70	9.3	7.8	11.8

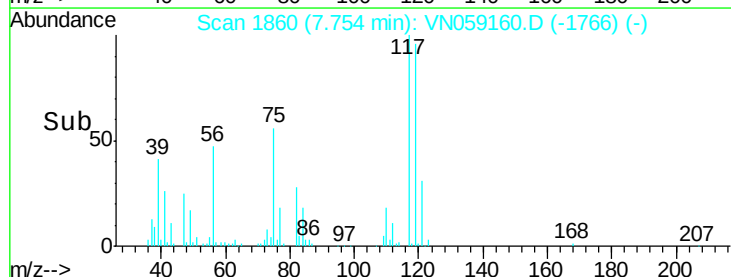
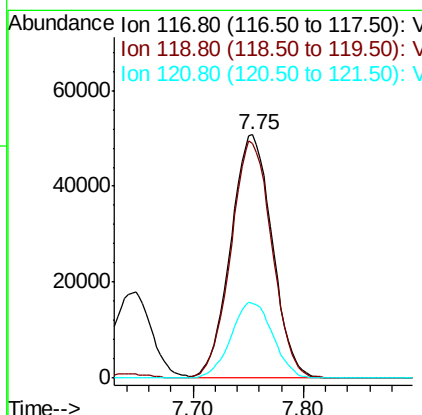
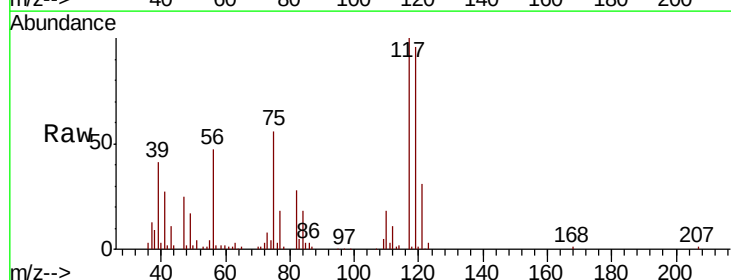
Manual Integrations
APPROVED

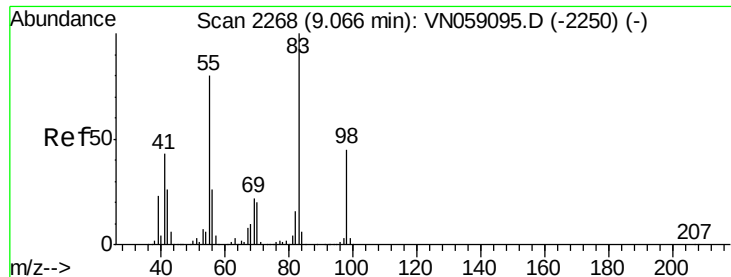
MMDadoda
11/12/2019 4:19:34 PM



#38
Carbon Tetrachloride
Concen: 19.448 ug/l
RT: 7.75 min Scan# 1860
Delta R.T. 0.00 min
Lab File: VN059160.D
Acq: 11 Nov 2019 14:53

Tgt Ion	Ratio	Lower	Upper
117	100		
119	96.2	75.6	113.4
121	30.8	24.6	36.8





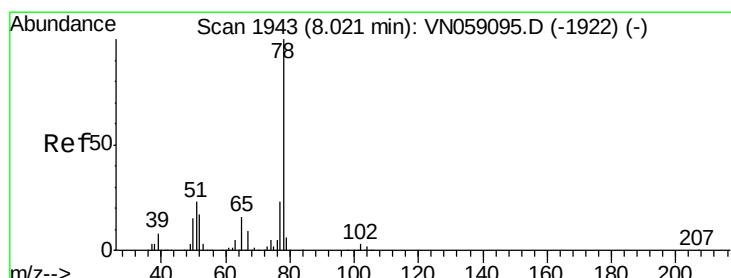
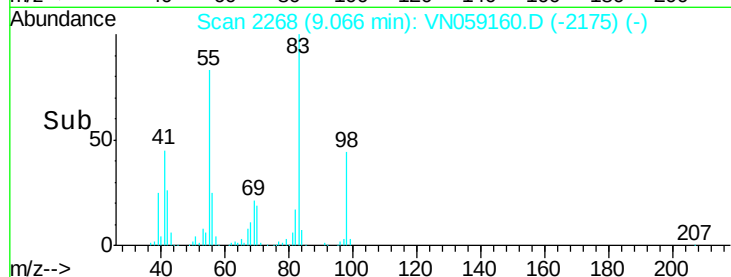
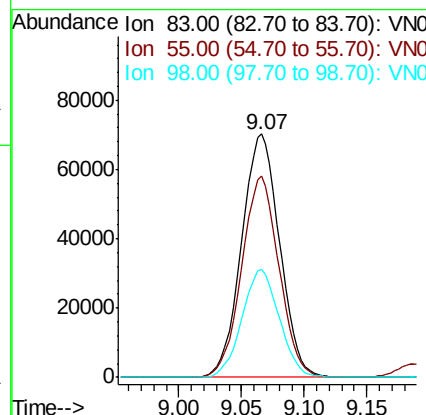
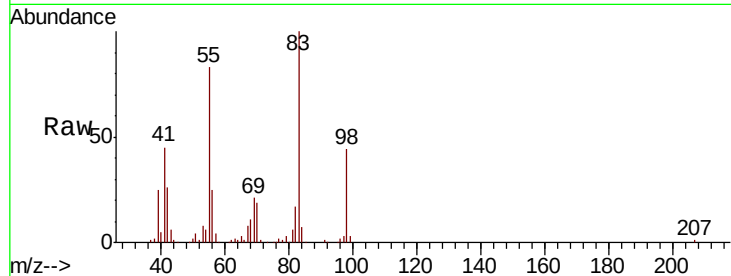
#39
Methylvlcyclohexane
Concen: 18.699 ug/l
RT: 9.07 min Scan# 2268
Delta R.T. -0.00 min
Lab File: VN059160.D
Acq: 11 Nov 2019 14:53

Instrument :
MSVOA_N
ClientSampleId :
VN1111WBSD01

Tot Ion	Ratio	Lower	Upper
83	100		
55	82.7	63.9	95.9
98	44.5	35.6	53.4

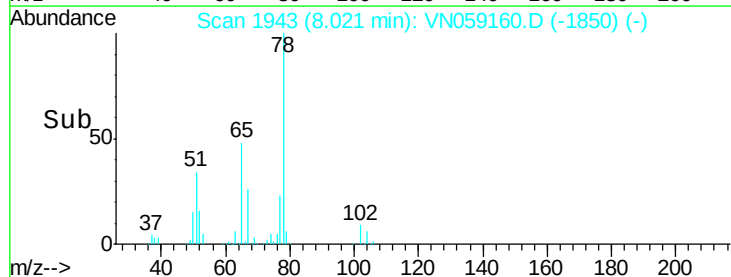
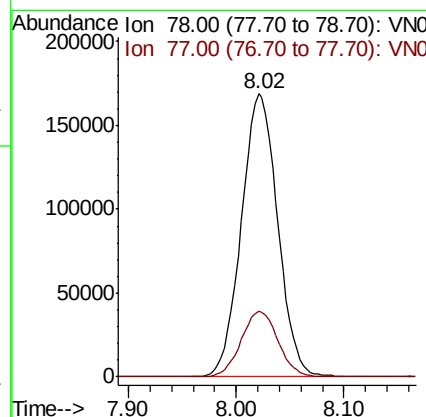
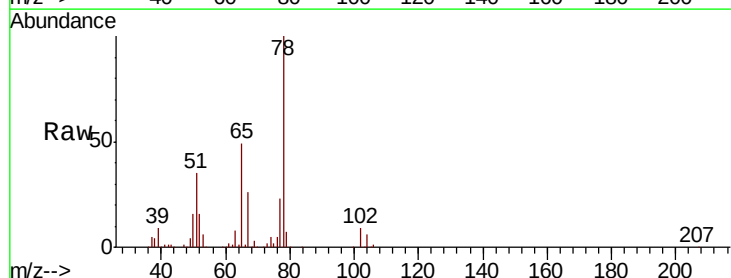
Manual Integrations
APPROVED

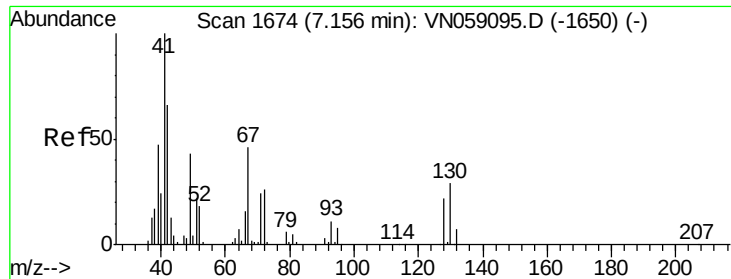
MMDadoda
11/12/2019 4:19:34 PM



#40
Benzene
Concen: 19.188 ug/l
RT: 8.02 min Scan# 1943
Delta R.T. 0.00 min
Lab File: VN059160.D
Acq: 11 Nov 2019 14:53

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.1	18.8	28.2





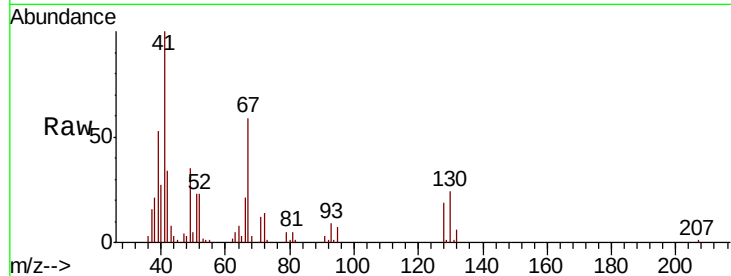
#41
Methacrylonitrile
Concen: 17.335 ug/l m
RT: 7.15 min Scan# 1673
Delta R.T. -0.00 min
Lab File: VN059160.D
Acq: 11 Nov 2019 14:53

Instrument :
MSVOA_N
ClientSampleId :
VN1111WBSD01

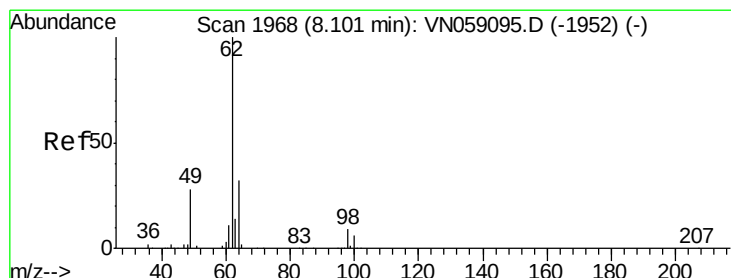
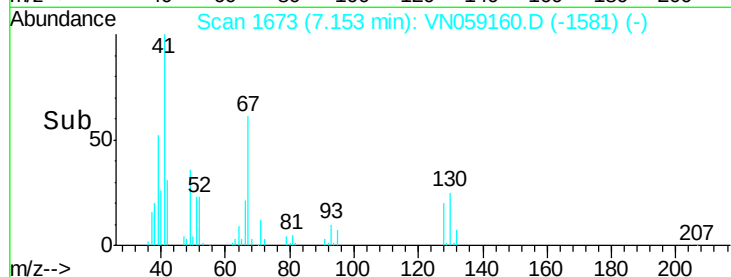
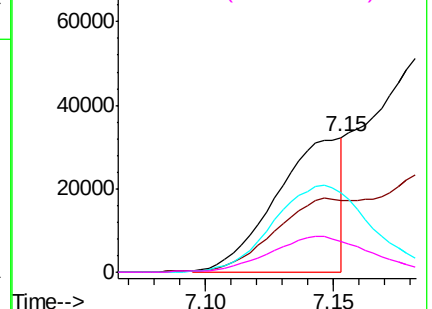
Tot Ion	Ratio	Lower	Upper
41	100		
39	0.0	0.0	0.0
67	0.0	0.0	0.0
52	0.0	0.0	0.0

Manual Integrations
APPROVED

MMDadoda
11/12/2019 4:19:34 PM

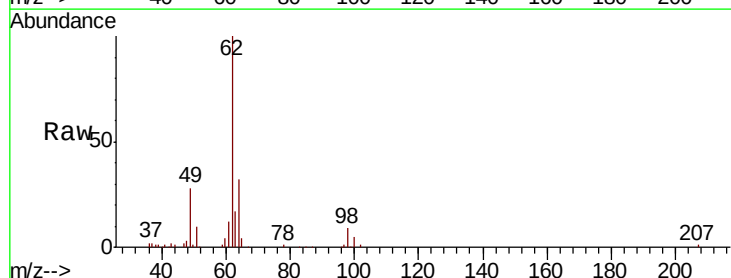


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 39.00 (38.70 to 39.70): VN0
Ion 67.00 (66.70 to 67.70): VN0
Ion 52.00 (51.70 to 52.70): VN0

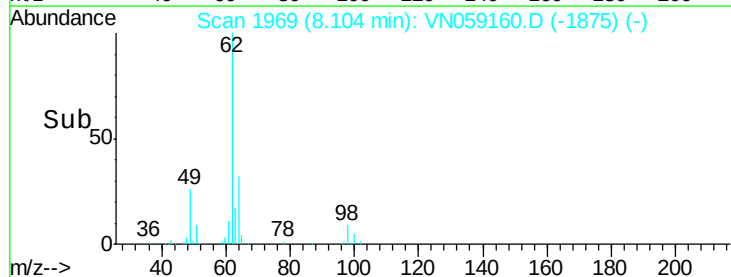
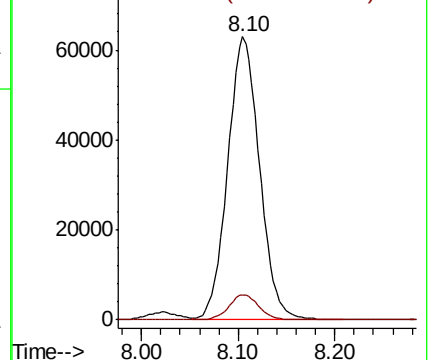


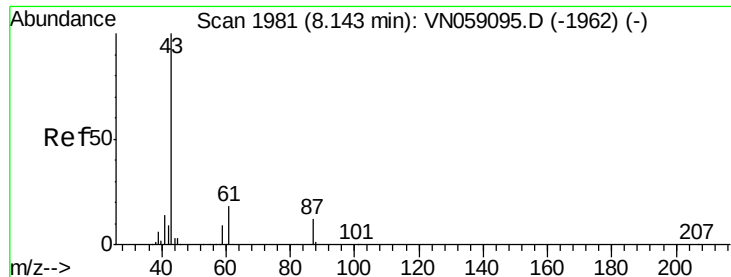
#42
1,2-Dichloroethane
Concen: 20.390 ug/l
RT: 8.10 min Scan# 1969
Delta R.T. 0.00 min
Lab File: VN059160.D
Acq: 11 Nov 2019 14:53

Tgt Ion	Ratio	Lower	Upper
62	100		
98	8.4	0.0	17.8



Abundance Ion 61.90 (61.60 to 62.60): VN0
Ion 97.90 (97.60 to 98.60): VN0





#43

Isopropyl Acetate

Concen: 19.651 ug/l

RT: 8.15 min Scan# 1982

Delta R.T. 0.00 min

Lab File: VN059160.D

Acq: 11 Nov 2019 14:53

Instrument :

MSVOA_N

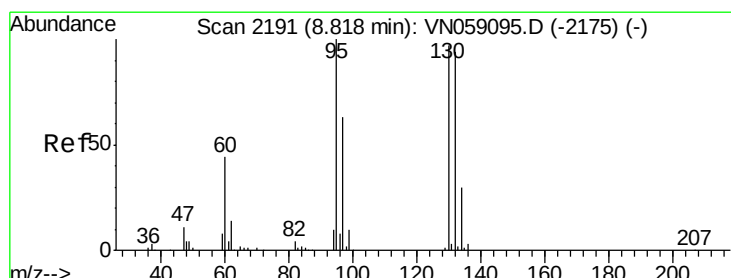
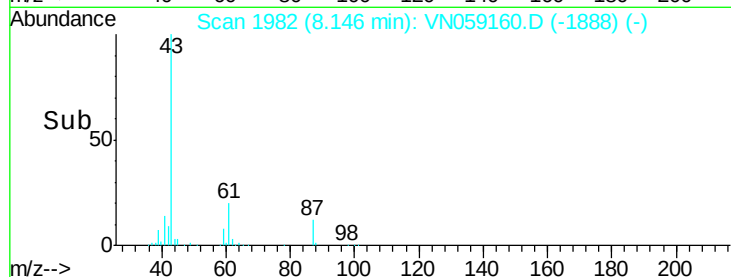
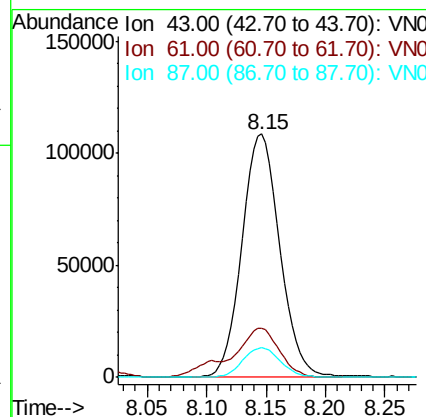
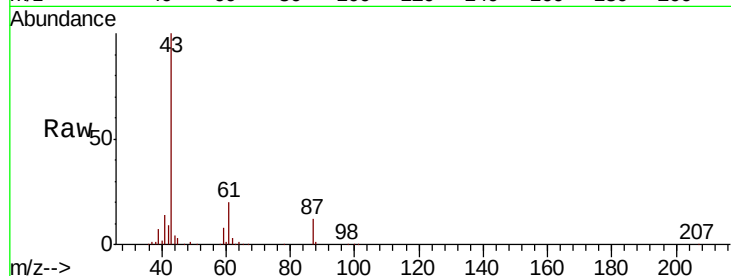
ClientSampleId :

VN1111WBSD01

Tot Ion:	43	Resp:	238489
Ion Ratio		Lower	Upper
43	100		
61	20.6	21.0	31.6#
87	12.3	9.8	14.6

Manual Integrations
APPROVED

MMDadoda
11/12/2019 4:19:34 PM



#44

Trichloroethene

Concen: 19.013 ug/l

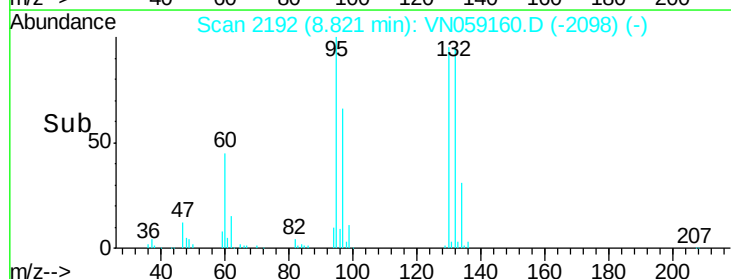
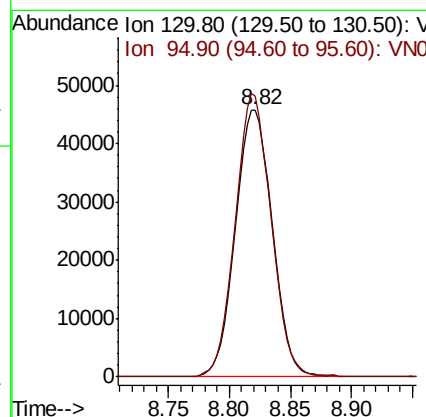
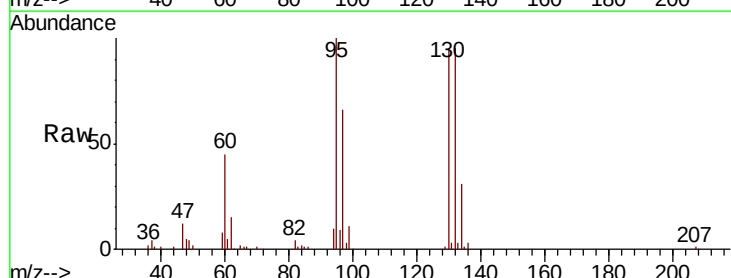
RT: 8.82 min Scan# 2192

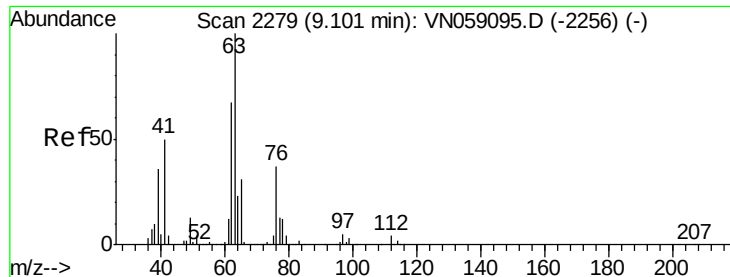
Delta R.T. 0.00 min

Lab File: VN059160.D

Acq: 11 Nov 2019 14:53

Tgt Ion:	130	Resp:	96305
Ion Ratio		Lower	Upper
130	100		
95	104.8	0.0	206.4





#45

1,2-Dichloropropane

Concen: 19.250 ug/l

RT: 9.10 min Scan# 2280

Delta R.T. 0.00 min

Lab File: VN059160.D

Acq: 11 Nov 2019 14:53

Instrument :

MSVOA_N

ClientSampleId :

VN1111WBSD01

Tot Ion: 63 Resp: 107742

Ion Ratio Lower Upper

63 100

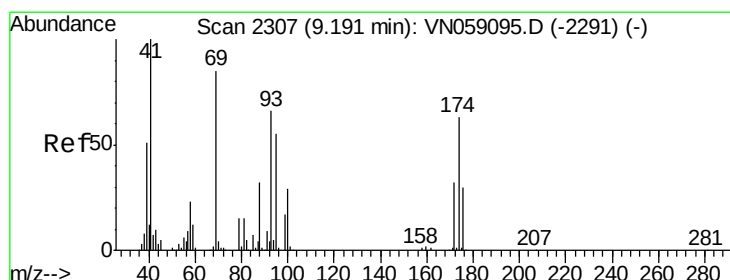
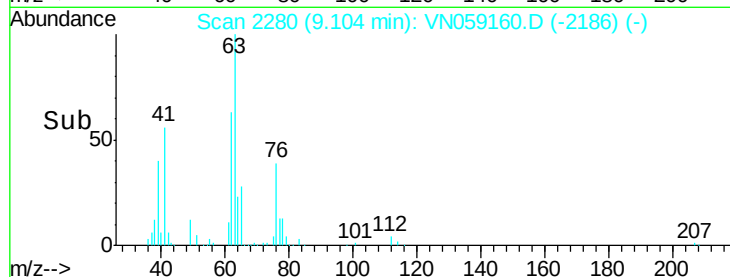
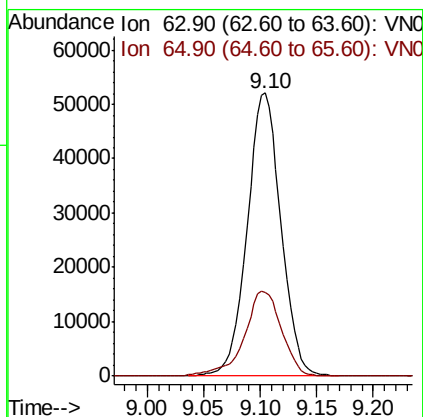
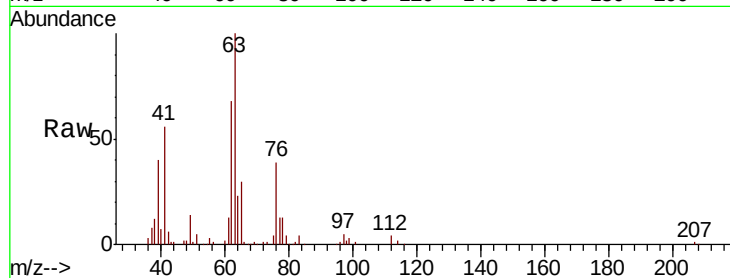
65 29.5 24.6 37.0

Manual Integrations

APPROVED

MMDadoda

11/12/2019 4:19:34 PM



#46

Dibromomethane

Concen: 19.406 ug/l

RT: 9.19 min Scan# 2308

Delta R.T. 0.00 min

Lab File: VN059160.D

Acq: 11 Nov 2019 14:53

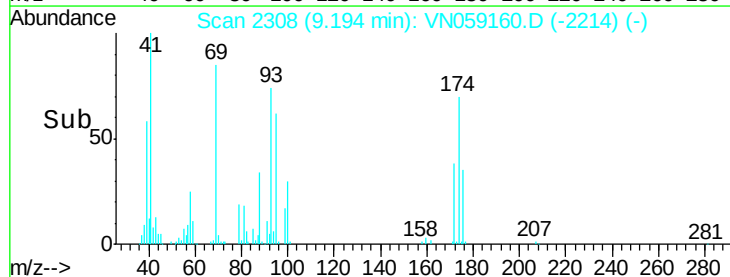
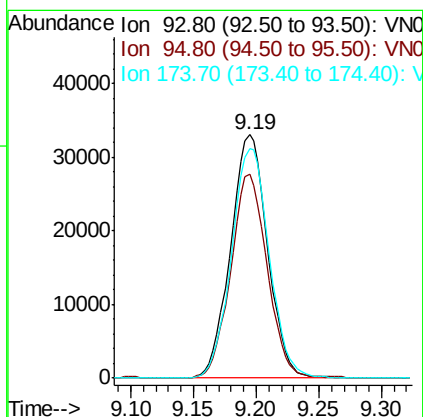
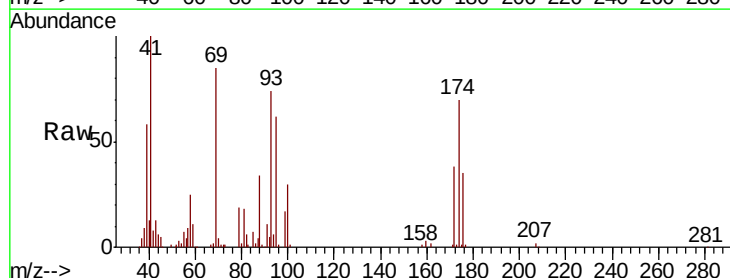
Tgt Ion: 93 Resp: 67682

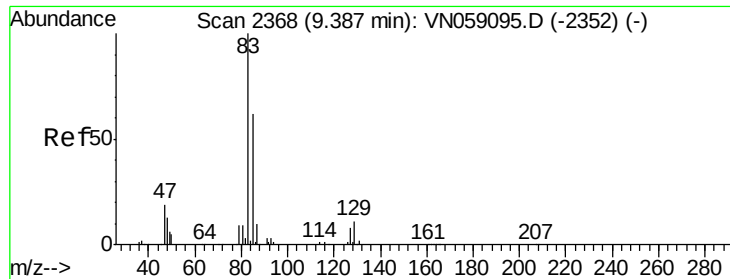
Ion Ratio Lower Upper

93 100

95 82.4 66.6 100.0

174 96.4 78.2 117.2





#47

Bromodichloromethane

Concen: 19.843 ug/l

RT: 9.39 min Scan# 2369

Delta R.T. 0.00 min

Lab File: VN059160.D

Acq: 11 Nov 2019 14:53

Instrument :

MSVOA_N

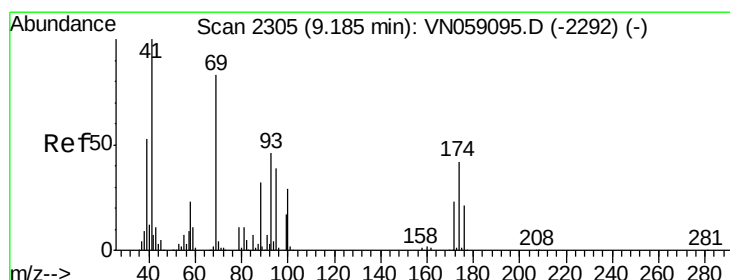
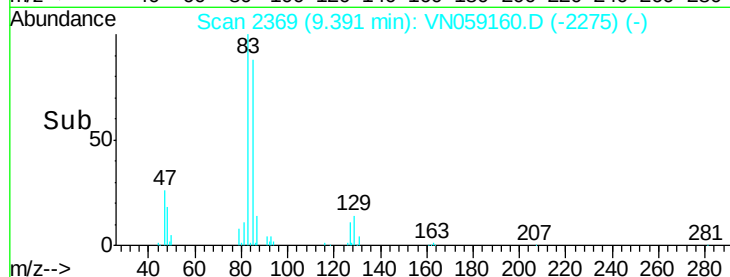
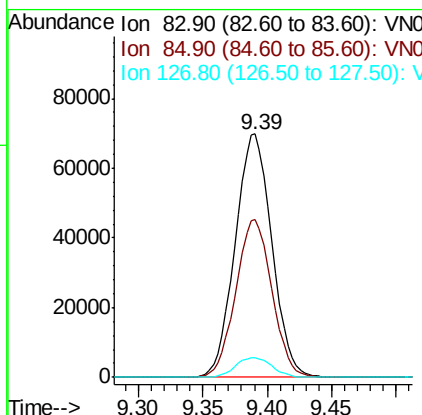
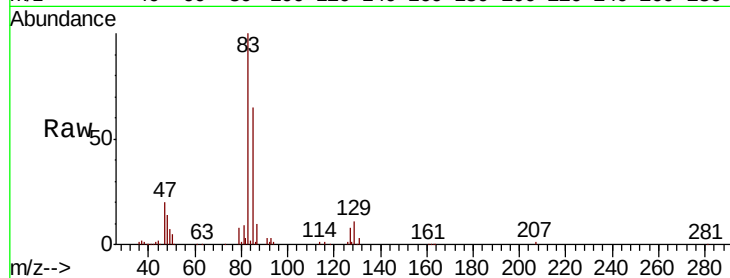
ClientSampleId :

VN1111WBSD01

Tot Ion:	83	Resp:	138196
Ion Ratio	Lower	Upper	
83	100		
85	64.7	49.7	74.5
127	7.9	6.4	9.6

Manual Integrations
APPROVED

MMDadoda
11/12/2019 4:19:34 PM



#48

Methyl methacrylate

Concen: 19.389 ug/l

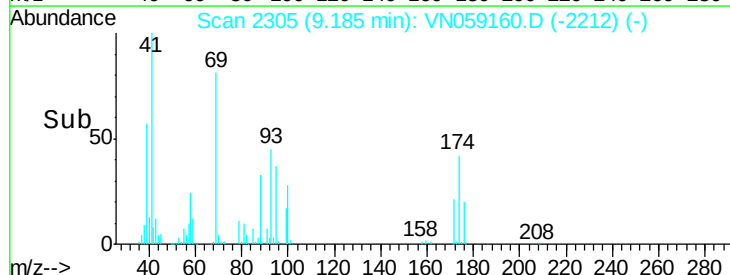
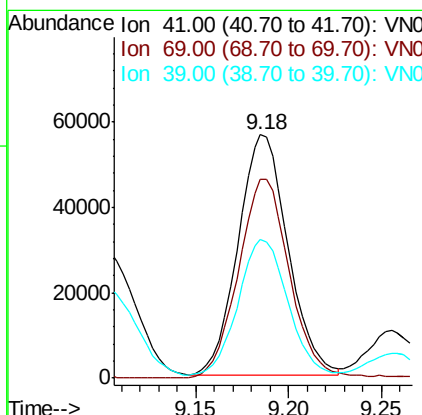
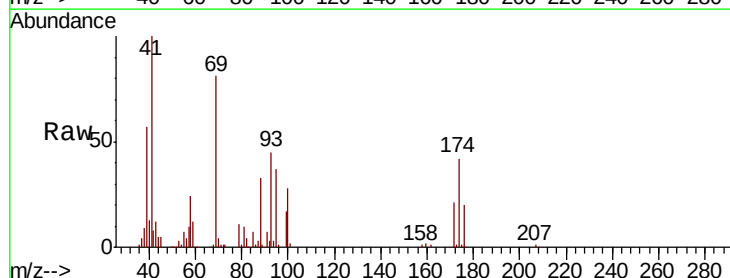
RT: 9.18 min Scan# 2305

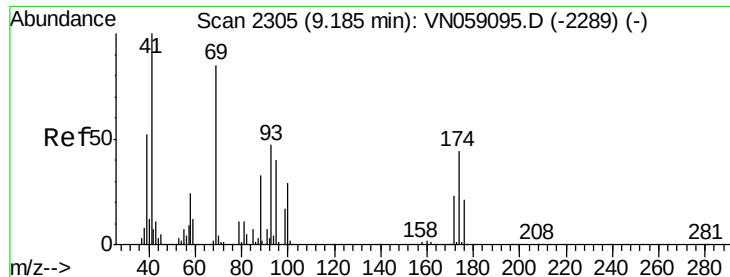
Delta R.T. -0.00 min

Lab File: VN059160.D

Acq: 11 Nov 2019 14:53

Tgt Ion:	41	Resp:	105253
Ion Ratio	Lower	Upper	
41	100		
69	84.8	67.3	100.9
39	58.4	43.3	64.9





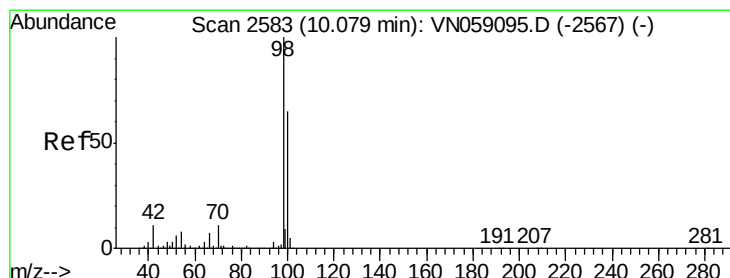
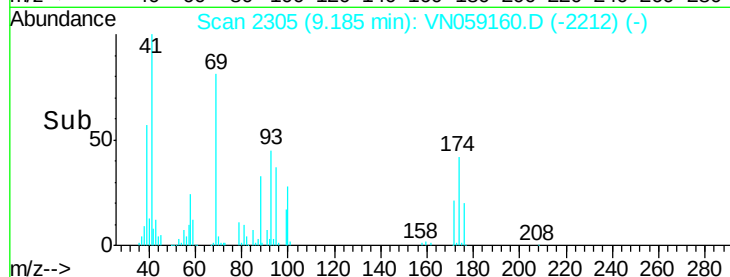
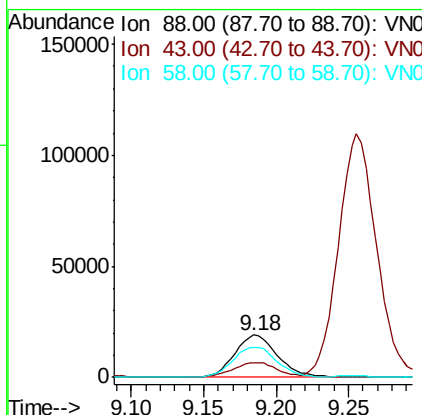
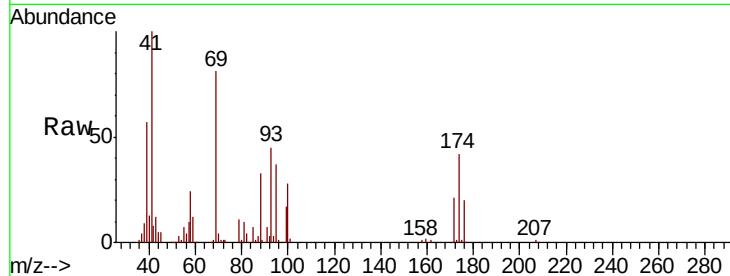
#49
1,4-Dioxane
Concen: 405.466 ug/l
RT: 9.18 min Scan# 2305
Delta R.T. -0.00 min
Lab File: VN059160.D
Acq: 11 Nov 2019 14:53

Instrument :
MSVOA_N
ClientSampleId :
VN1111WBSD01

Tot Ion	Ratio	Lower	Upper
88	100		
43	36.6	26.3	39.5
58	74.0	60.6	90.8

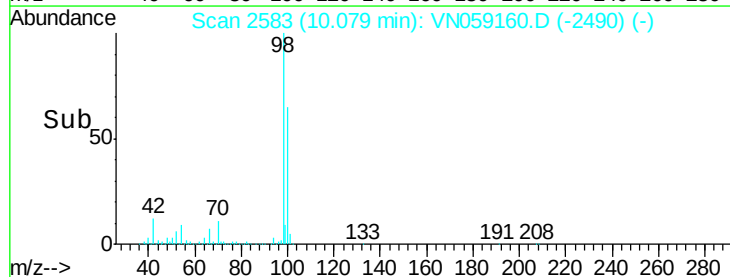
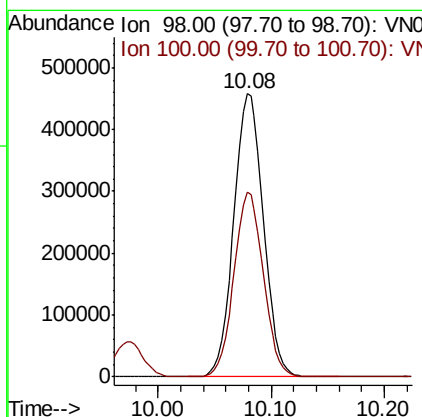
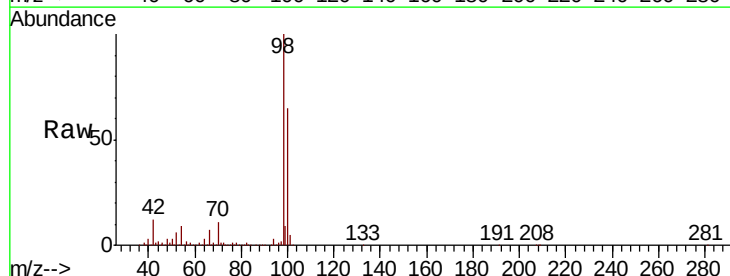
Manual Integrations
APPROVED

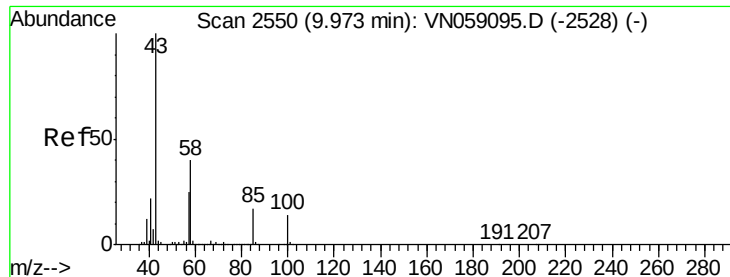
MMDadoda
11/12/2019 4:19:34 PM



#50
Toluene-d8
Concen: 48.588 ug/l
RT: 10.08 min Scan# 2583
Delta R.T. 0.00 min
Lab File: VN059160.D
Acq: 11 Nov 2019 14:53

Tgt Ion	Ratio	Lower	Upper
98	100		
100	64.5	52.2	78.2





#51

4-Methyl-2-Pentanone

Concen: 112.124 ug/l

RT: 9.97 min Scan# 2550

Delta R.T. -0.00 min

Lab File: VN059160.D

Acq: 11 Nov 2019 14:53

Instrument :

MSVOA_N

ClientSampleId :

VN1111WBSD01

Tot Ion: 43 Resp: 769947

Ion Ratio Lower Upper

43 100

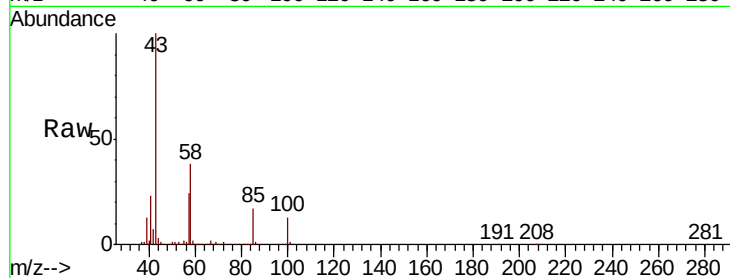
58 38.2 31.5 47.3

Manual Integrations

APPROVED

MMDadoda

11/12/2019 4:19:34 PM



Abundance Ion 43.00 (42.70 to 43.70): VN059160.D (-2457) (-)

Ion 58.00 (57.70 to 58.70): VN059160.D (-2457) (-)

9.97

400000

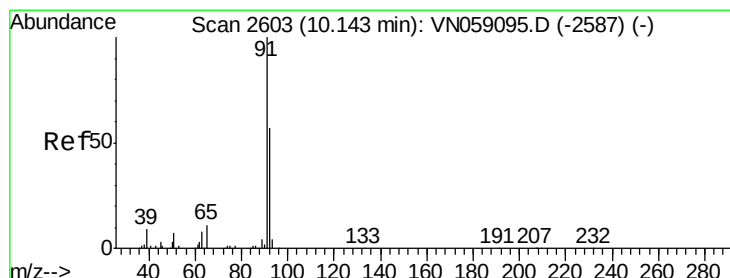
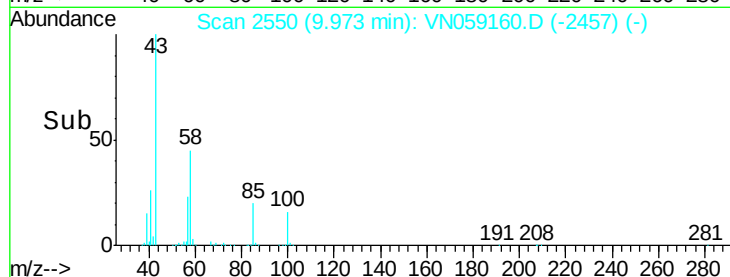
300000

200000

100000

0

Time-->



#52

Toluene

Concen: 19.514 ug/l

RT: 10.15 min Scan# 2604

Delta R.T. 0.00 min

Lab File: VN059160.D

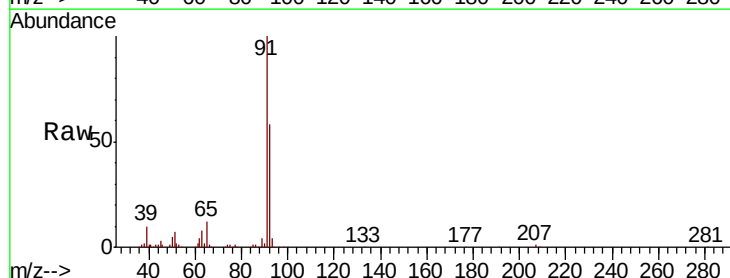
Acq: 11 Nov 2019 14:53

Tgt Ion: 92 Resp: 241008

Ion Ratio Lower Upper

92 100

91 174.0 139.5 209.3



Abundance Ion 92.00 (91.70 to 92.70): VN059160.D (-2510) (-)

Ion 91.00 (90.70 to 91.70): VN059160.D (-2510) (-)

10.15

250000

200000

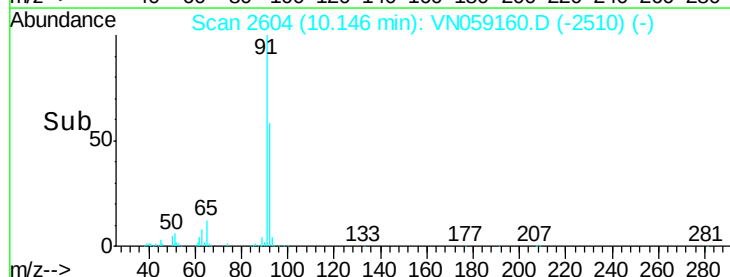
150000

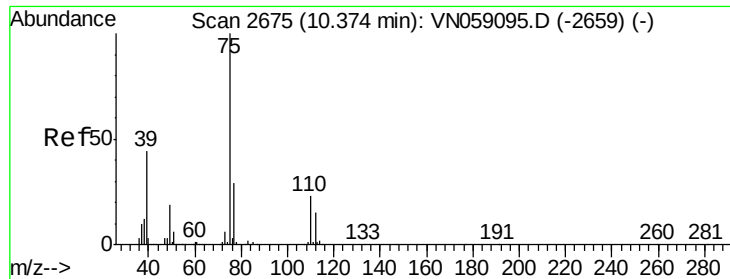
100000

50000

0

Time-->





#53

t-1,3-Dichloropropene

Concen: 18.980 ug/l

RT: 10.37 min Scan# 2675

Delta R.T. -0.00 min

Lab File: VN059160.D

Acq: 11 Nov 2019 14:53

Instrument :

MSVOA_N

ClientSampleId :

VN1111WBSD01

Tot Ion: 75 Resp: 152720

Ion Ratio Lower Upper

75 100

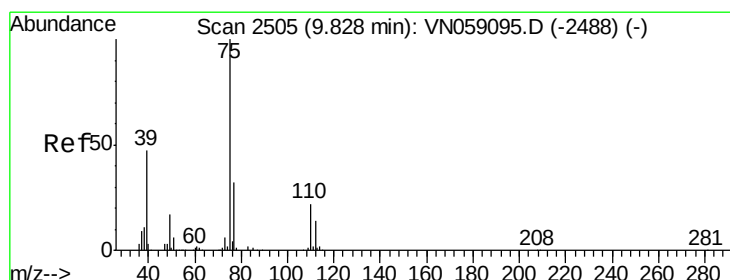
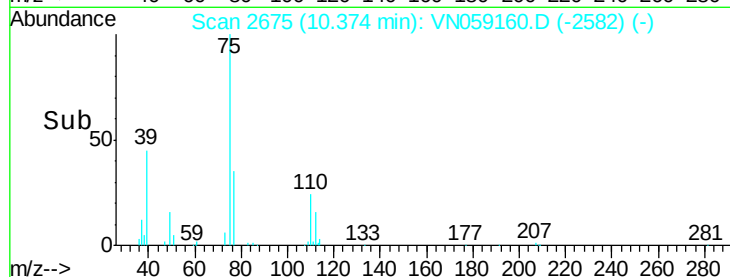
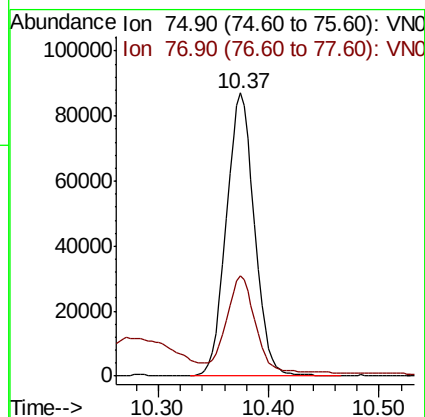
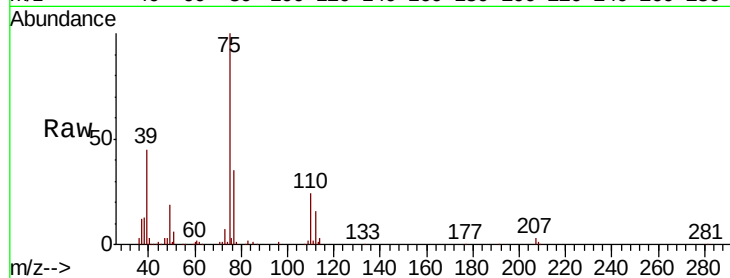
77 34.1 25.3 37.9

Manual Integrations

APPROVED

MMDadoda

11/12/2019 4:19:34 PM



#54

cis-1,3-Dichloropropene

Concen: 19.130 ug/l

RT: 9.83 min Scan# 2505

Delta R.T. 0.00 min

Lab File: VN059160.D

Acq: 11 Nov 2019 14:53

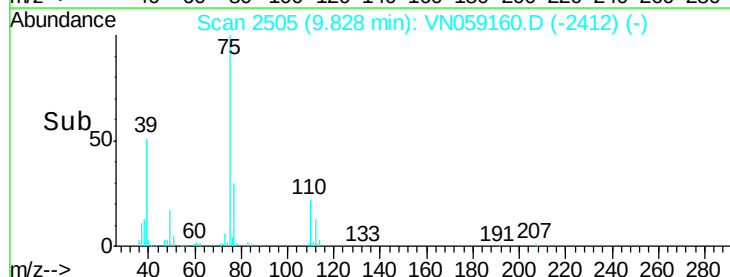
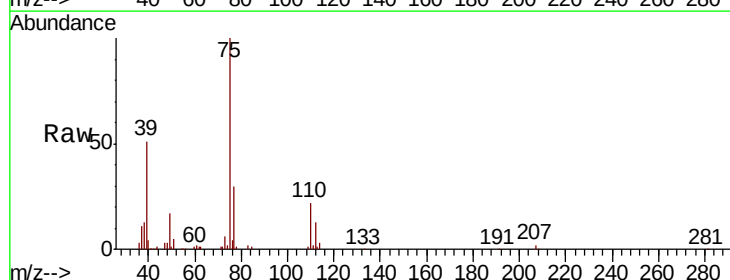
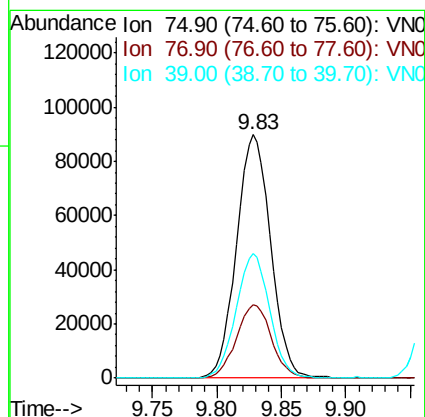
Tgt Ion: 75 Resp: 165569

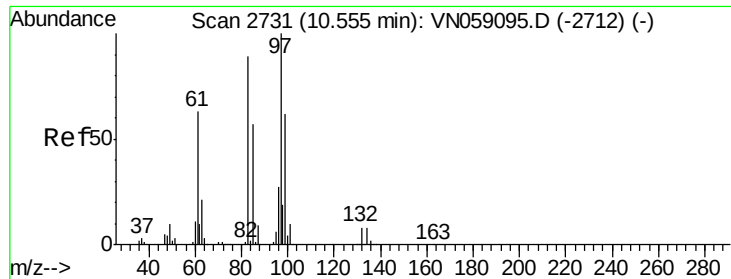
Ion Ratio Lower Upper

75 100

77 30.2 25.5 38.3

39 51.2 37.3 55.9





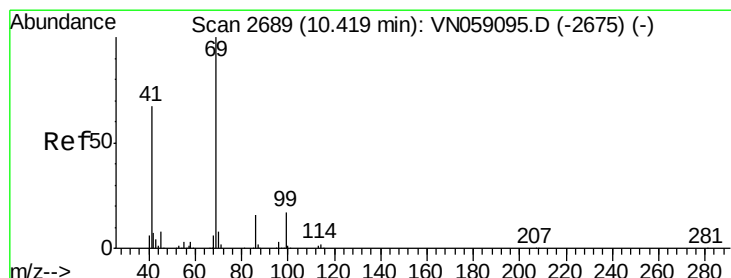
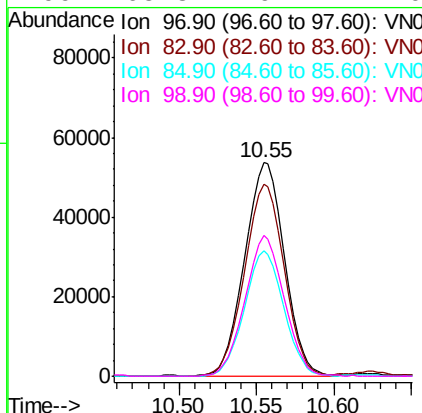
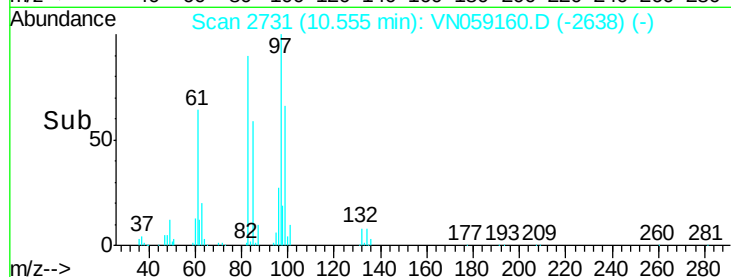
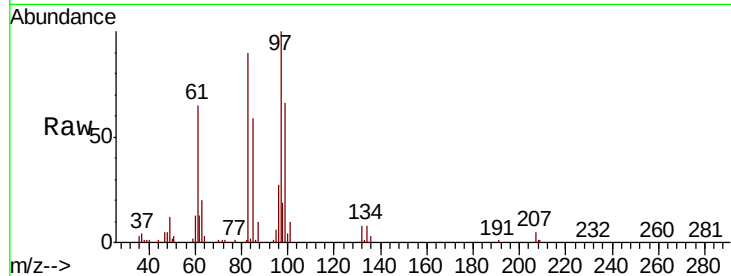
#55
 1,1,2-Trichloroethane
 Concen: 19.357 ug/l
 RT: 10.55 min Scan# 2731
 Delta R.T. 0.00 min
 Lab File: VN059160.D
 Acq: 11 Nov 2019 14:53

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1111WBSD01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
97	100		96753		
83	90.2	71.0	106.4		
85	58.8	45.8	68.8		
99	65.8	49.4	74.0		

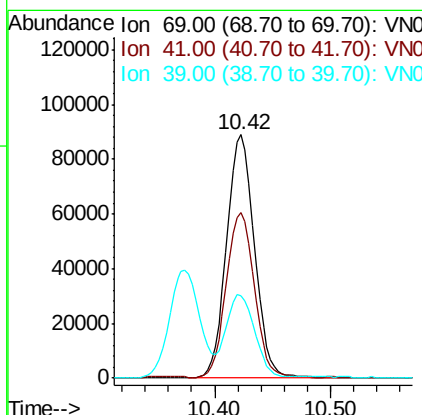
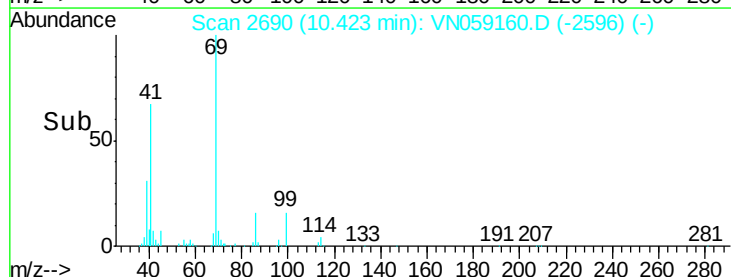
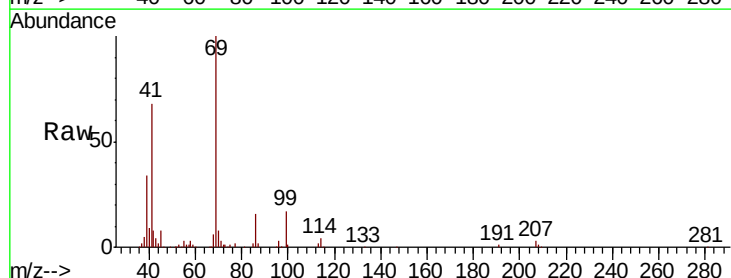
Manual Integrations
 APPROVED

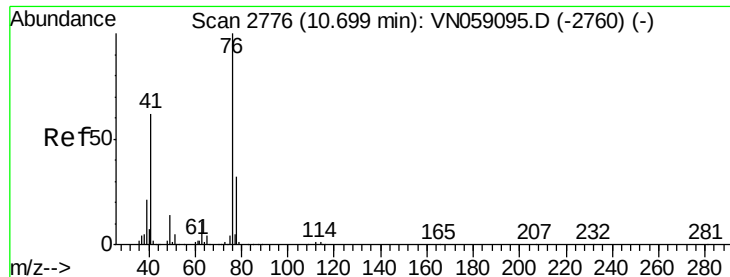
MMDadoda
 11/12/2019 4:19:34 PM



#56
 Ethyl methacrylate
 Concen: 18.877 ug/l
 RT: 10.42 min Scan# 2690
 Delta R.T. 0.00 min
 Lab File: VN059160.D
 Acq: 11 Nov 2019 14:53

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
69	100		147272		
41	67.9	53.6	80.4		
39	34.5	26.2	39.4		





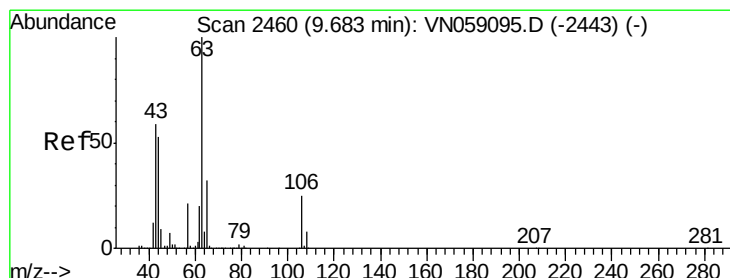
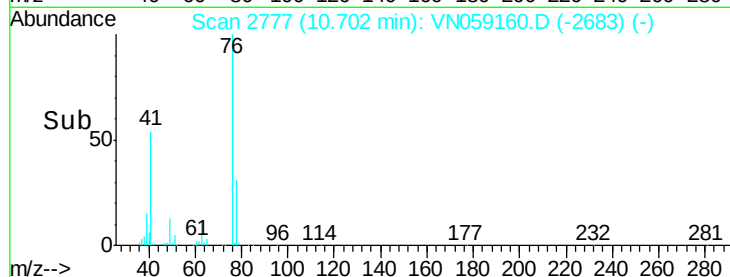
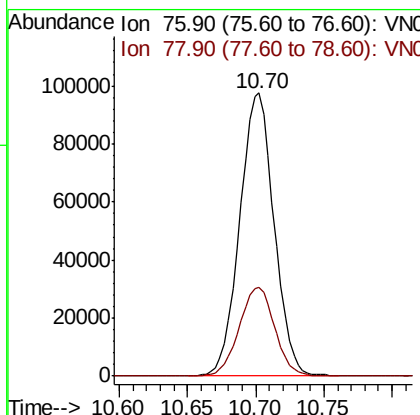
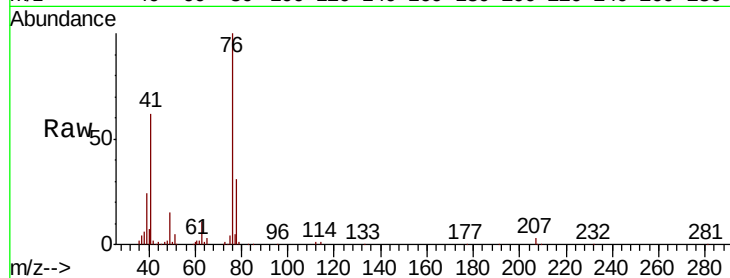
#57
 1,3-Dichloropropane
 Concen: 19.798 ug/l
 RT: 10.70 min Scan# 2777
 Delta R.T. 0.00 min
 Lab File: VN059160.D
 Acq: 11 Nov 2019 14:53

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1111WBSD01

Tot Ion	Ratio	Lower	Upper
76	100		
78	32.4	25.8	38.8

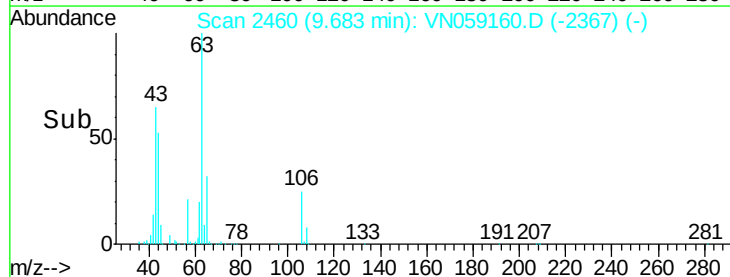
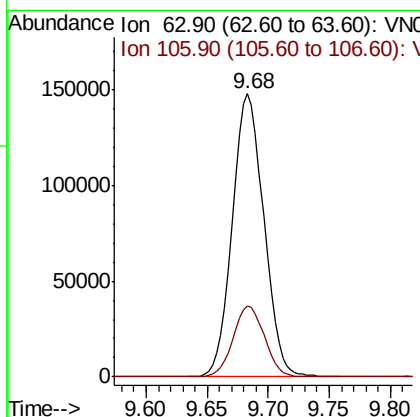
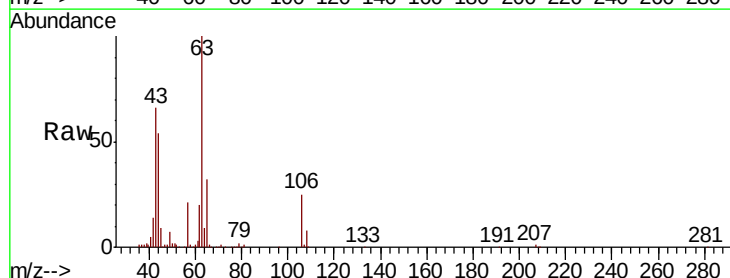
Manual Integrations
 APPROVED

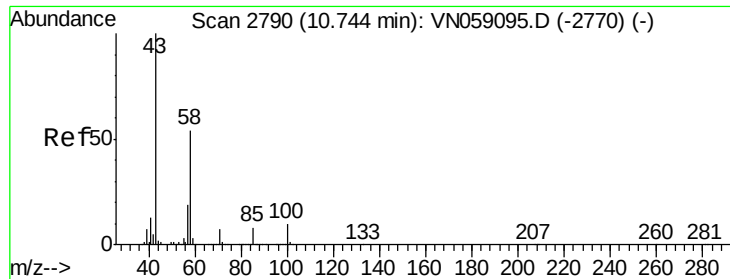
MMDadoda
 11/12/2019 4:19:34 PM



#58
 2-Chloroethyl Vinyl ether
 Concen: 95.518 ug/l
 RT: 9.68 min Scan# 2460
 Delta R.T. 0.00 min
 Lab File: VN059160.D
 Acq: 11 Nov 2019 14:53

Tgt Ion	Ratio	Lower	Upper
63	100		
106	24.9	20.2	30.2





#59

2-Hexanone

Concen: 106.368 ug/l

RT: 10.74 min Scan# 2790

Delta R.T. 0.00 min

Lab File: VN059160.D

Acq: 11 Nov 2019 14:53

Instrument :

MSVOA_N

ClientSampleId :

VN1111WBSD01

Tot Ion: 43 Resp: 560632

Ion Ratio Lower Upper

43 100

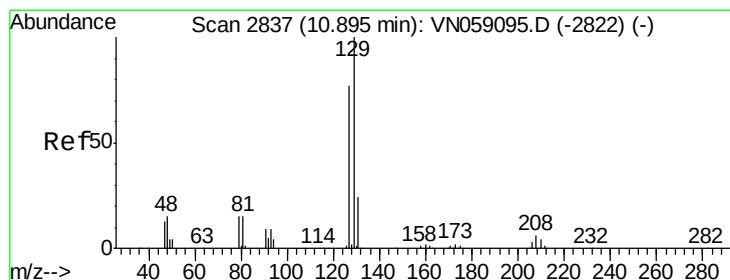
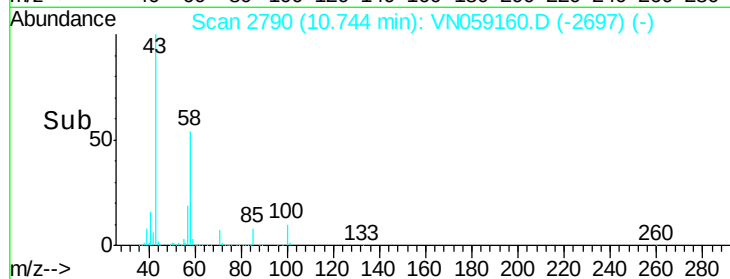
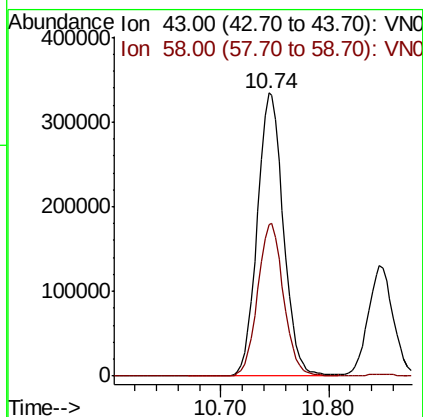
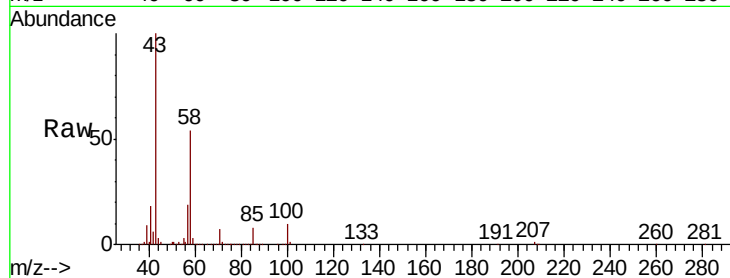
58 53.4 27.3 81.8

Manual Integrations

APPROVED

MMDadoda

11/12/2019 4:19:34 PM



#60

Dibromochloromethane

Concen: 19.633 ug/l

RT: 10.90 min Scan# 2837

Delta R.T. 0.00 min

Lab File: VN059160.D

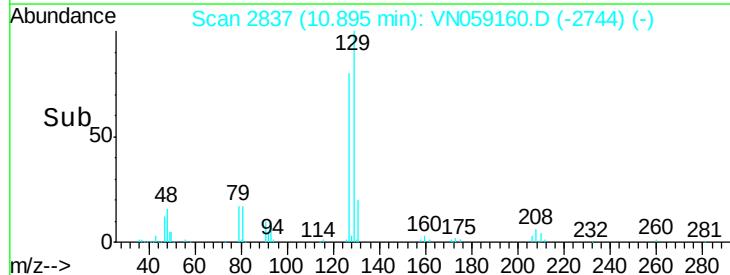
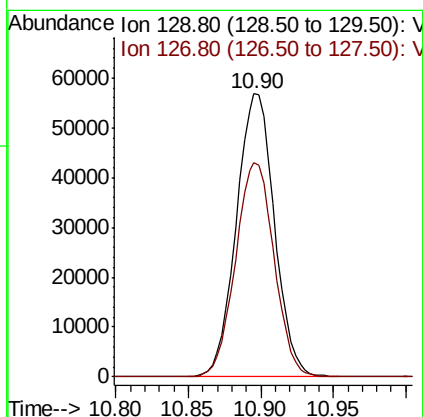
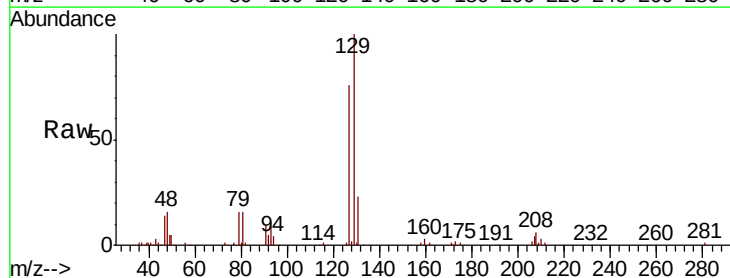
Acq: 11 Nov 2019 14:53

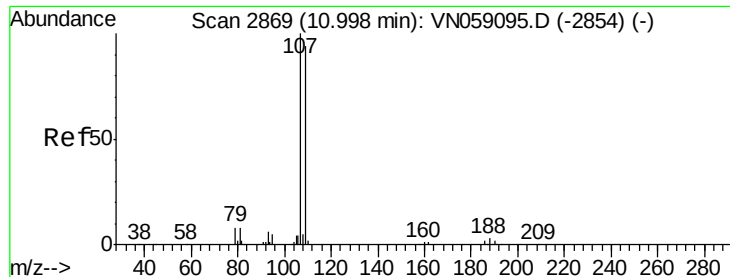
Tgt Ion: 129 Resp: 103757

Ion Ratio Lower Upper

129 100

127 76.6 38.6 115.8





#61

1,2-Dibromoethane

Concen: 19.808 ug/l

RT: 11.00 min Scan# 2870

Delta R.T. 0.00 min

Lab File: VN059160.D

Acq: 11 Nov 2019 14:53

Instrument :

MSVOA_N

ClientSampleId :

VN1111WBSD01

Tot Ion: 107 Resp: 100227

Ion Ratio Lower Upper

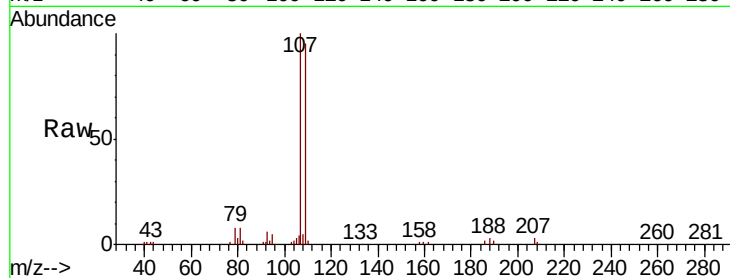
107 100

109 95.2 75.5 113.3

Manual Integrations
APPROVED

MMDadoda

11/12/2019 4:19:34 PM



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V

11.00

60000

50000

40000

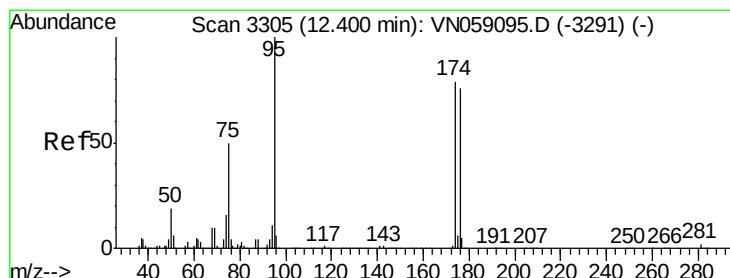
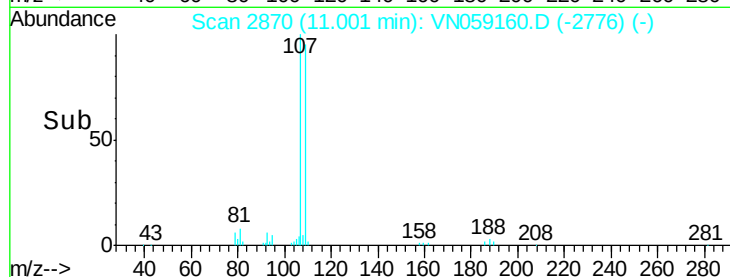
30000

20000

10000

0

Time--> 10.90 11.00 11.10



#62

4-Bromofluorobenzene

Concen: 47.965 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN059160.D

Acq: 11 Nov 2019 14:53

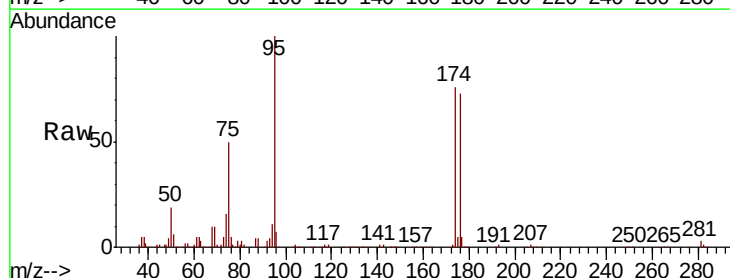
Tgt Ion: 95 Resp: 297774

Ion Ratio Lower Upper

95 100

174 77.0 0.0 158.2

176 75.1 0.0 151.8



Abundance Ion 94.90 (94.60 to 95.60): V

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

250000

200000

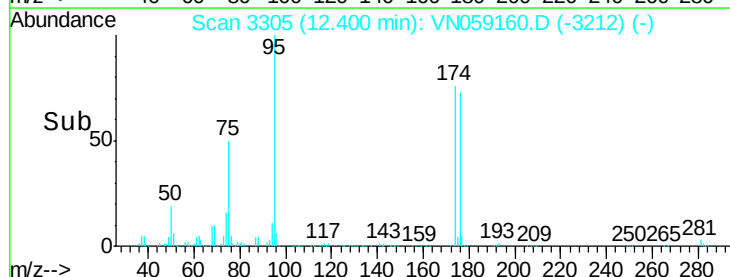
150000

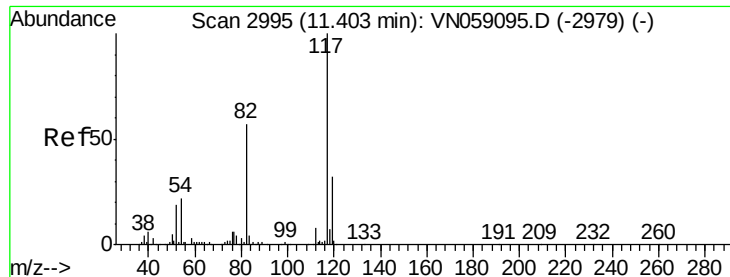
100000

50000

0

Time--> 12.35 12.40 12.45





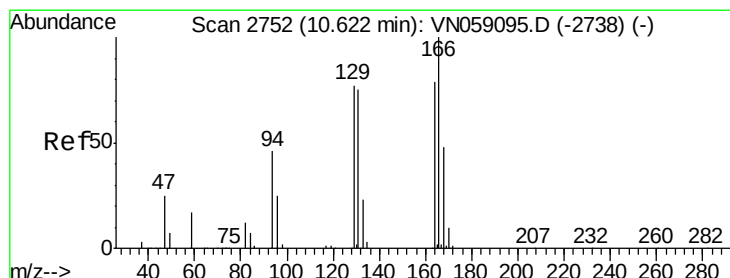
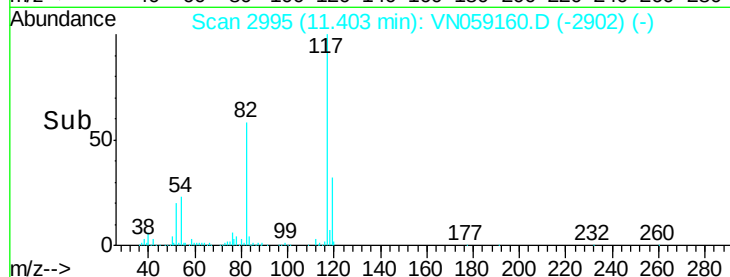
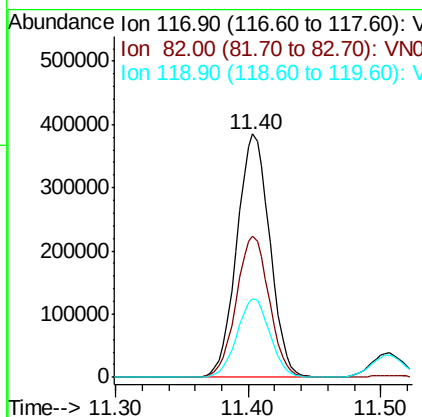
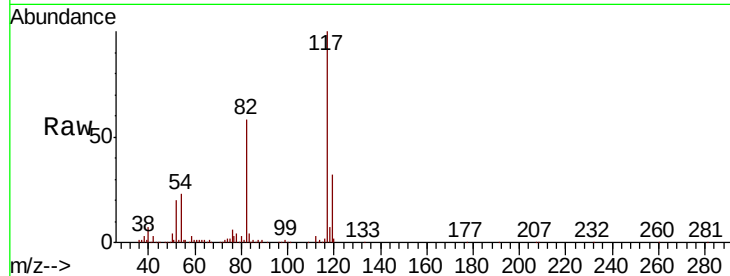
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2995
Delta R.T. 0.00 min
Lab File: VN059160.D
Acq: 11 Nov 2019 14:53

Instrument :
MSVOA_N
ClientSampleId :
VN1111WBSD01

Tot Ion	Ratio	Lower	Upper
117	100		
82	58.2	45.8	68.8
119	32.5	25.8	38.6

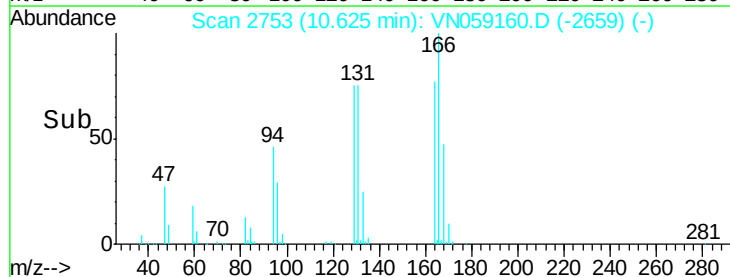
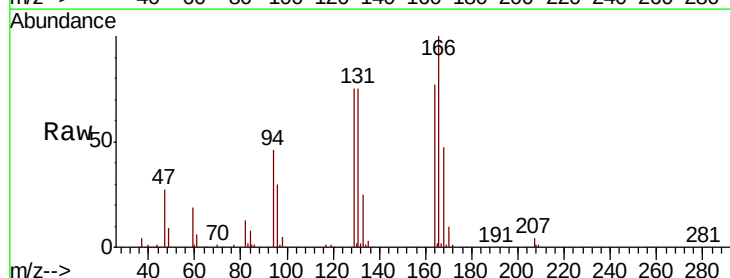
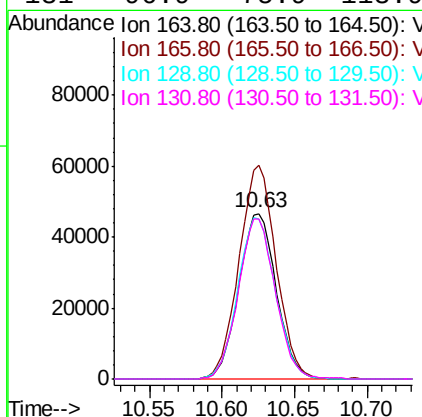
Manual Integrations
APPROVED

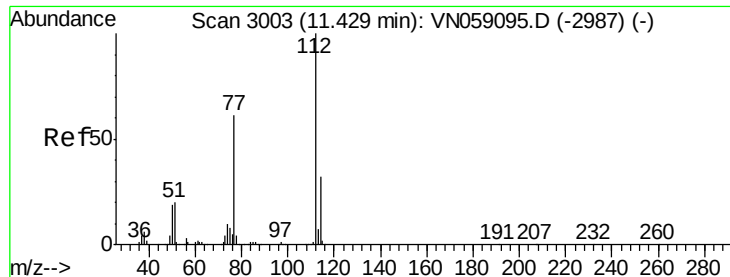
MMDadoda
11/12/2019 4:19:34 PM



#64
Tetrachloroethene
Concen: 18.563 ug/l
RT: 10.63 min Scan# 2753
Delta R.T. 0.00 min
Lab File: VN059160.D
Acq: 11 Nov 2019 14:53

Tgt Ion	Ratio	Lower	Upper
164	100		
166	129.3	101.5	152.3
129	96.5	78.3	117.5
131	96.9	75.9	113.9





#65

Chlorobenzene

Concen: 19.683 ug/l

RT: 11.43 min Scan# 3003

Delta R.T. -0.00 min

Lab File: VN059160.D

Acq: 11 Nov 2019 14:53

Instrument :

MSVOA_N

ClientSampleId :

VN1111WBSD01

Tot Ion:112 Resp: 255201

Ion Ratio Lower Upper

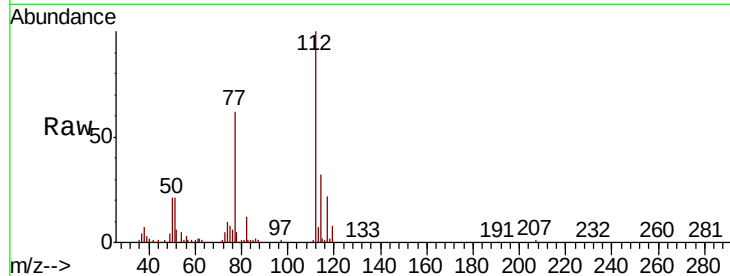
112 100

114 31.8 25.2 37.8

Manual Integrations
APPROVED

MMDadoda

11/12/2019 4:19:34 PM



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V

11.43

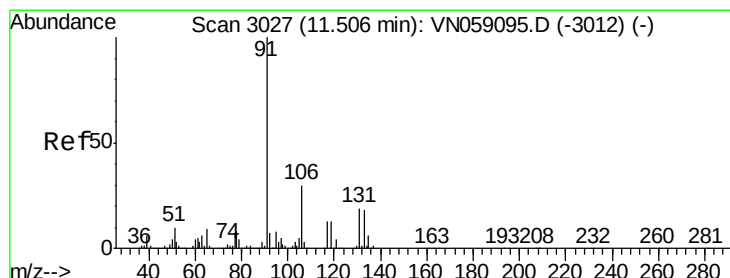
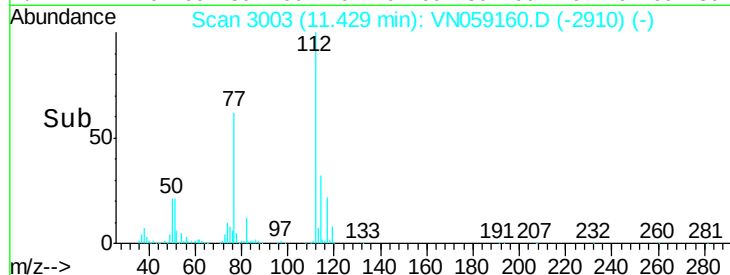
150000

100000

50000

0

Time-->



#66

1,1,1,2-Tetrachloroethane

Concen: 19.671 ug/l

RT: 11.51 min Scan# 3027

Delta R.T. -0.00 min

Lab File: VN059160.D

Acq: 11 Nov 2019 14:53

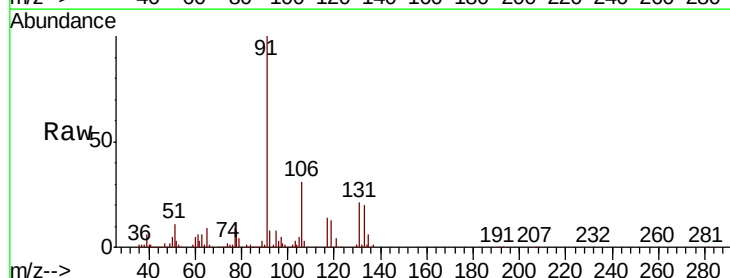
Tgt Ion:131 Resp: 95672

Ion Ratio Lower Upper

131 100

133 99.0 47.4 142.3

119 65.4 33.2 99.6



Abundance Ion 130.80 (130.50 to 131.50): V

Ion 132.80 (132.50 to 133.50): V

Ion 118.80 (118.50 to 119.50): V

120000

100000

80000

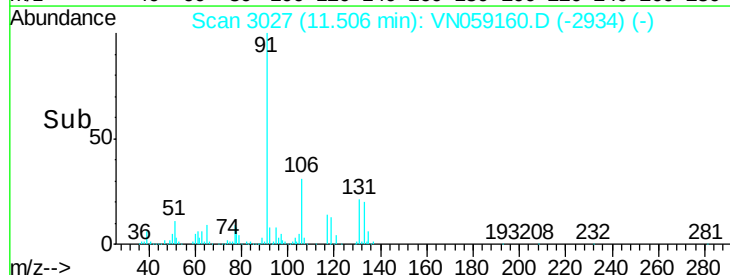
60000

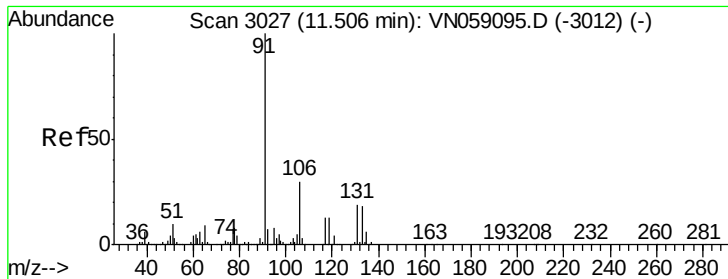
40000

20000

0

Time-->





#67

Ethyl Benzene

Concen: 19.748 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. 0.00 min

Lab File: VN059160.D

Acq: 11 Nov 2019 14:53

Instrument :

MSVOA_N

ClientSampleId :

VN1111WBSD01

Tot Ion: 91 Resp: 454272

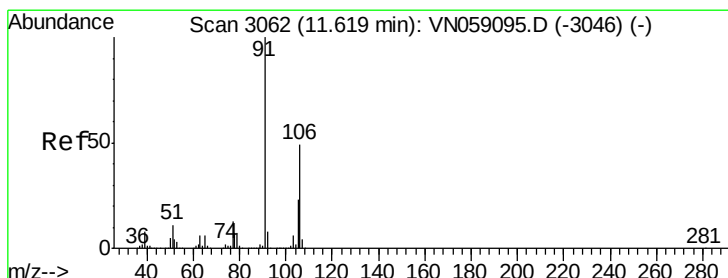
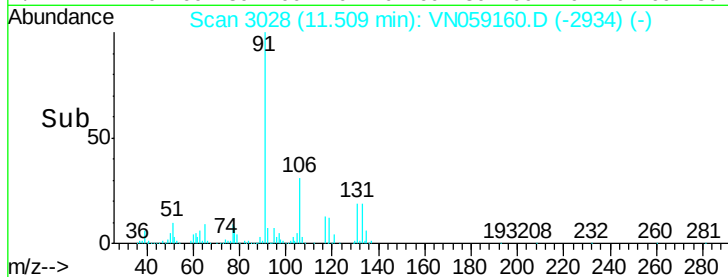
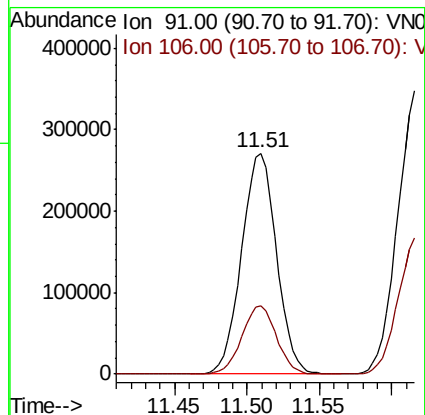
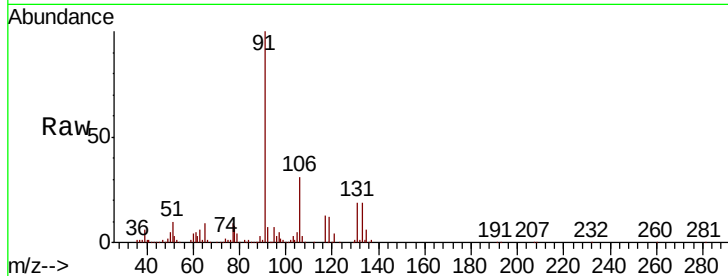
Ion Ratio Lower Upper

91 100

106 30.8 24.1 36.1

Manual Integrations
APPROVED

MMDadoda
11/12/2019 4:19:34 PM



#68

m/p-Xylenes

Concen: 38.493 ug/l

RT: 11.62 min Scan# 3062

Delta R.T. -0.00 min

Lab File: VN059160.D

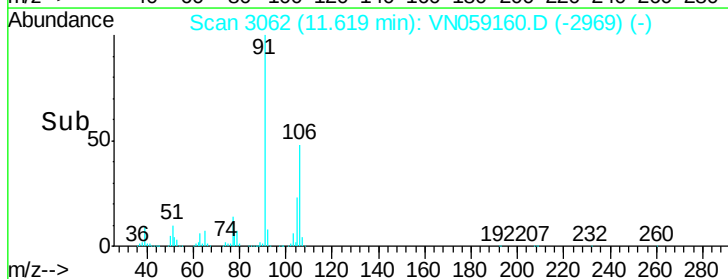
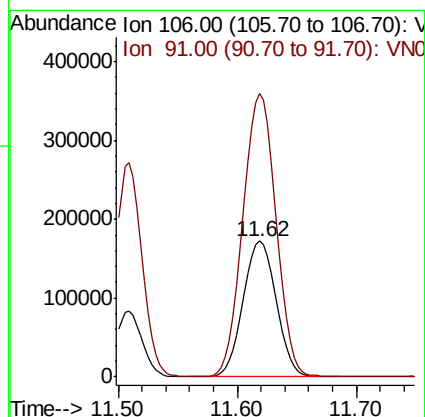
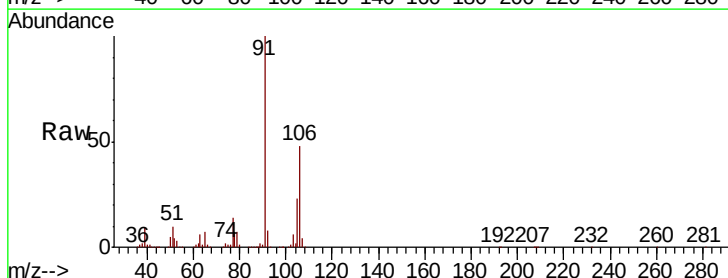
Acq: 11 Nov 2019 14:53

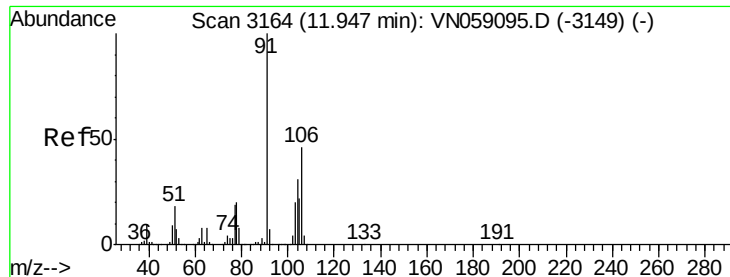
Tgt Ion: 106 Resp: 331694

Ion Ratio Lower Upper

106 100

91 208.5 164.7 247.1





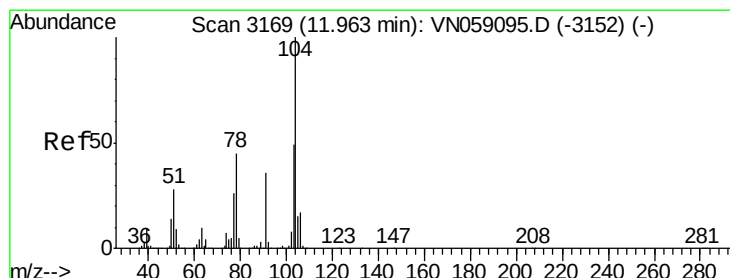
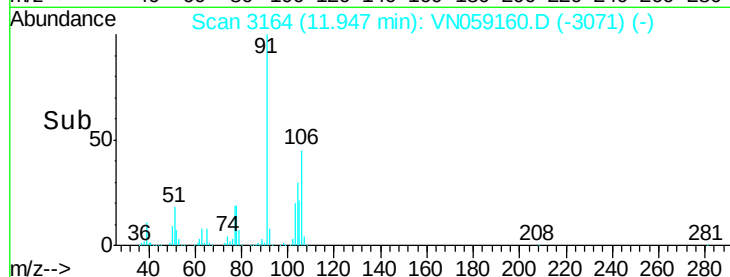
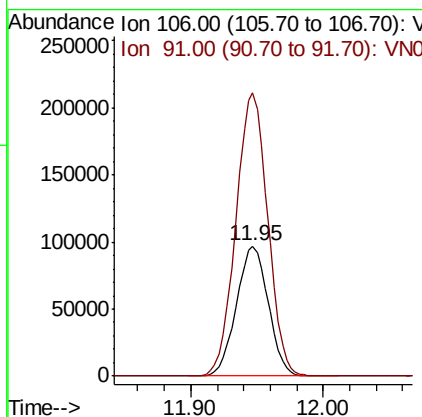
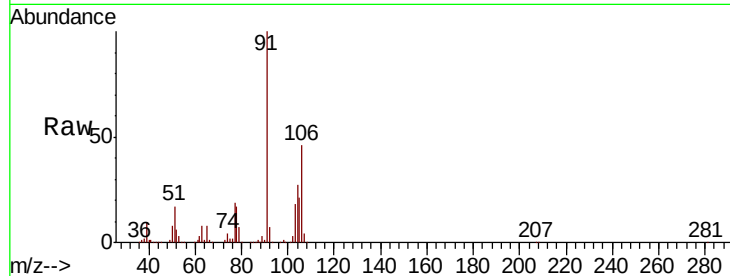
#69
o-Xylene
Concen: 19.427 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. -0.00 min
Lab File: VN059160.D
Acq: 11 Nov 2019 14:53

Instrument :
MSVOA_N
ClientSampleId :
VN1111WBSD01

Tot Ion	Ratio	Lower	Upper
106	100		
91	217.6	110.1	330.3

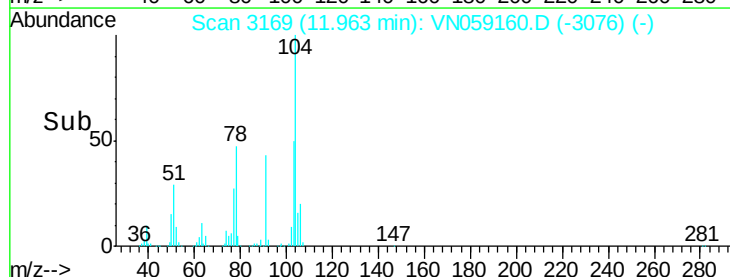
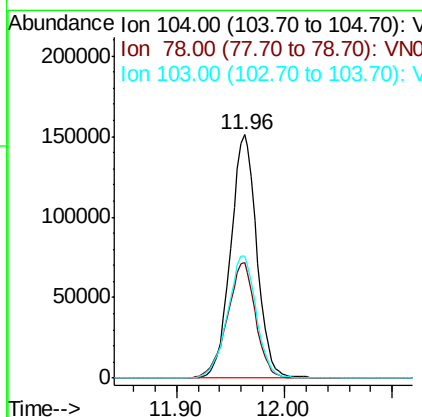
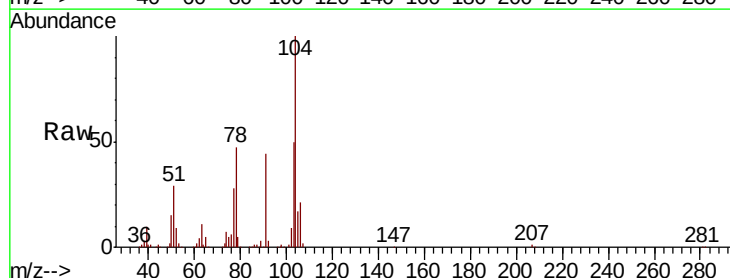
Manual Integrations
APPROVED

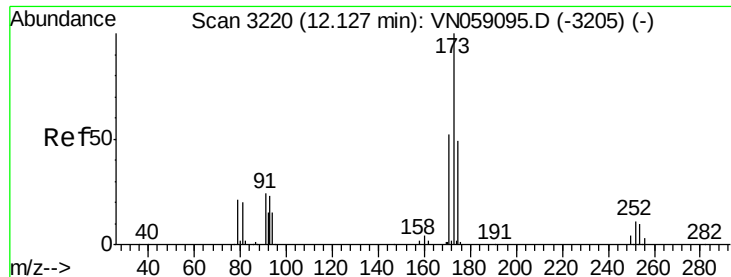
MMDadoda
11/12/2019 4:19:34 PM



#70
Styrene
Concen: 19.553 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. 0.00 min
Lab File: VN059160.D
Acq: 11 Nov 2019 14:53

Tgt Ion	Ratio	Lower	Upper
104	100		
78	51.3	41.2	61.8
103	54.8	43.8	65.6





#71

Bromoform

Concen: 19.482 ug/l

RT: 12.13 min Scan# 3220

Delta R.T. 0.00 min

Lab File: VN059160.D

Acq: 11 Nov 2019 14:53

Instrument :

MSVOA_N

ClientSampleId :

VN1111WBSD01

Tot Ion:173 Resp: 73705

Ion Ratio Lower Upper

173 100

175 47.6 24.2 72.6

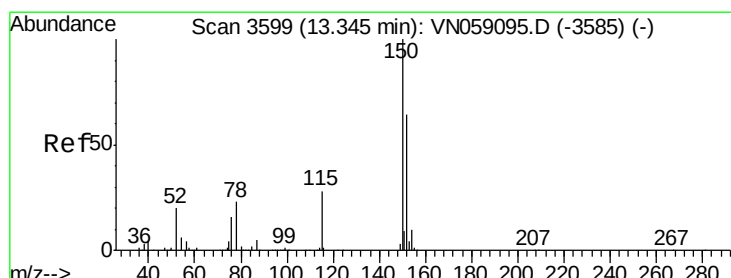
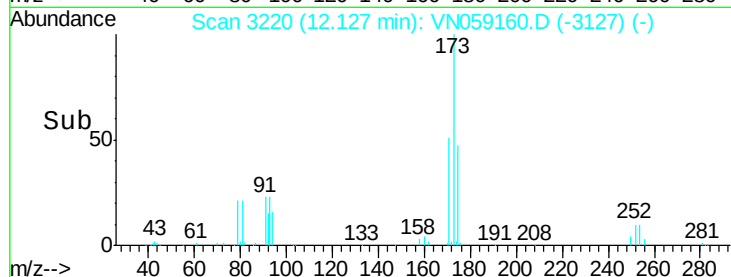
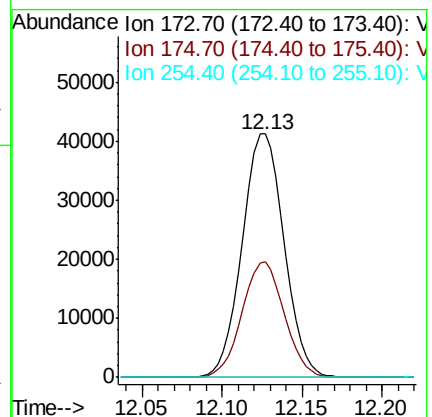
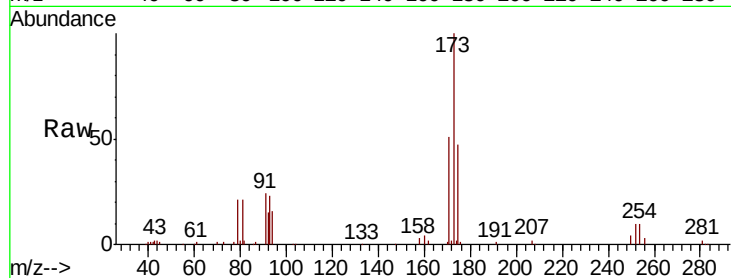
254 0.0 0.1 0.1#

Manual Integrations

APPROVED

MMDadoda

11/12/2019 4:19:34 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: VN059160.D

Acq: 11 Nov 2019 14:53

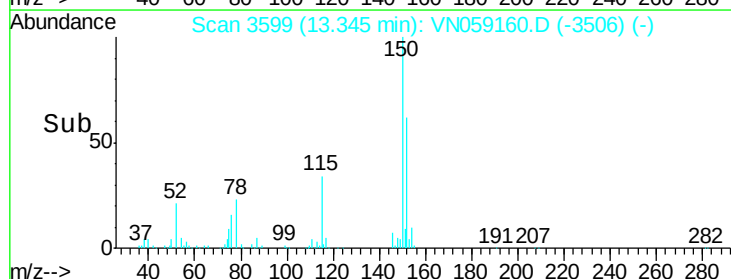
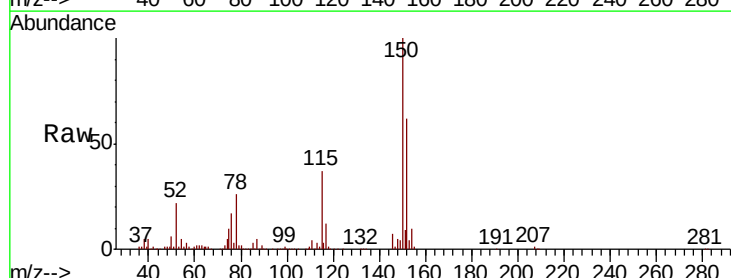
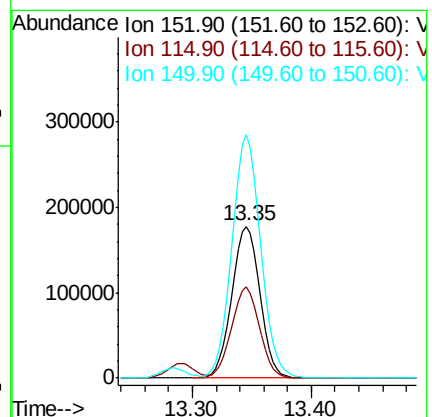
Tgt Ion:152 Resp: 291847

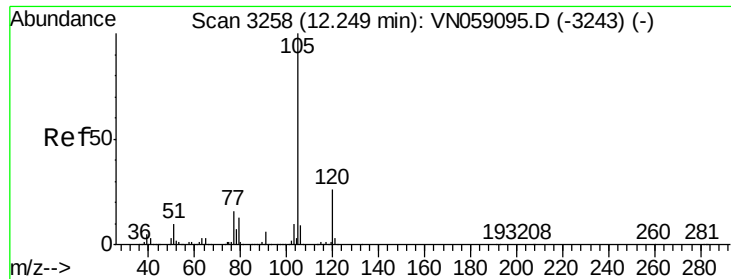
Ion Ratio Lower Upper

152 100

115 59.0 29.4 88.2

150 163.5 0.0 345.8





#73

Isopropylbenzene

Concen: 20.551 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. -0.00 min

Lab File: VN059160.D

Acq: 11 Nov 2019 14:53

Instrument :

MSVOA_N

ClientSampleId :

VN1111WBSD01

Tot Ion: 105 Resp: 436282

Ion Ratio Lower Upper

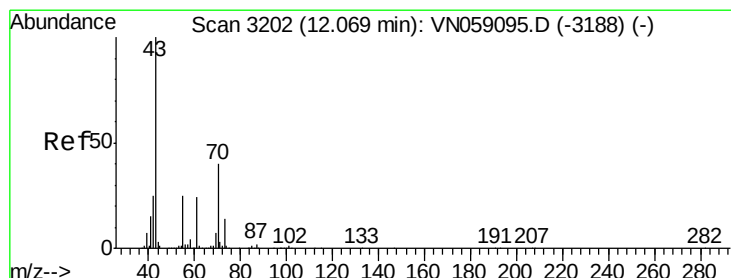
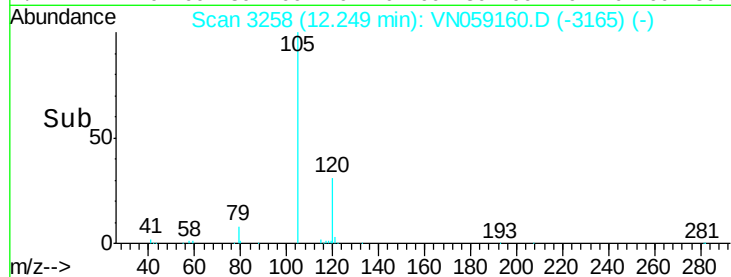
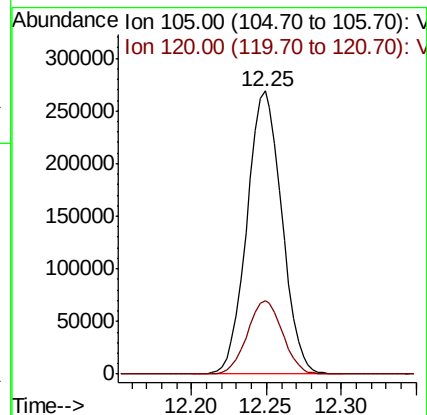
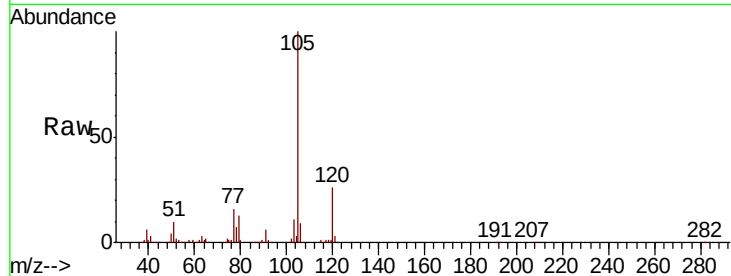
105 100

120 26.2 13.1 39.3

Manual Integrations
APPROVED

MMDadoda

11/12/2019 4:19:34 PM



#74

N-ethyl acetate

Concen: 20.412 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. 0.00 min

Lab File: VN059160.D

Acq: 11 Nov 2019 14:53

Tgt Ion: 43 Resp: 183616

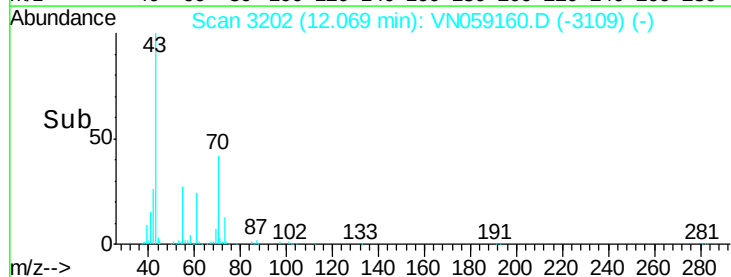
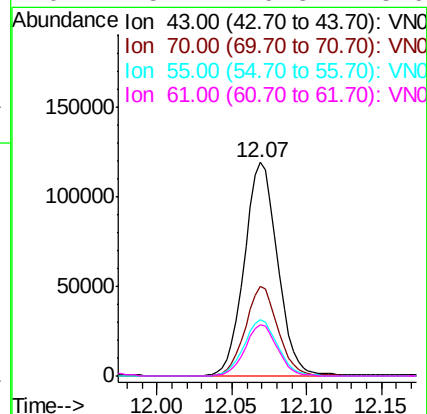
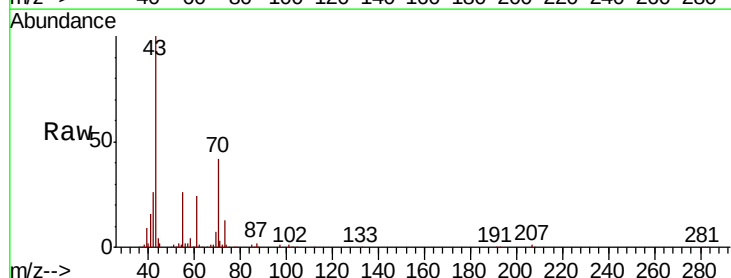
Ion Ratio Lower Upper

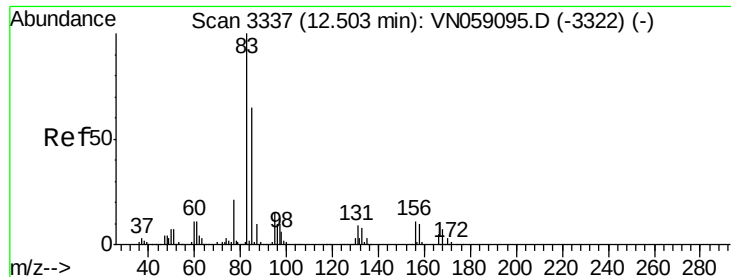
43 100

70 41.6 32.2 48.4

55 27.0 20.4 30.6

61 23.7 19.3 28.9





#75

1,1,2,2-Tetrachloroethane

Concen: 20.924 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. 0.00 min

Lab File: VN059160.D

Acq: 11 Nov 2019 14:53

Instrument :

MSVOA_N

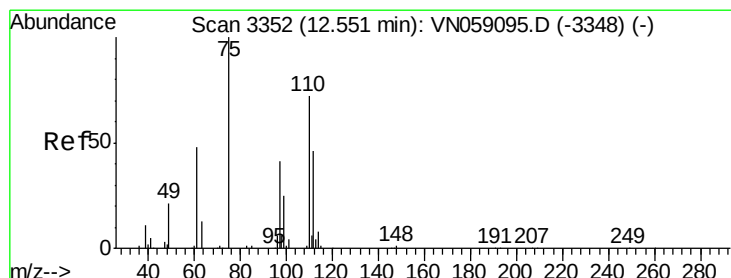
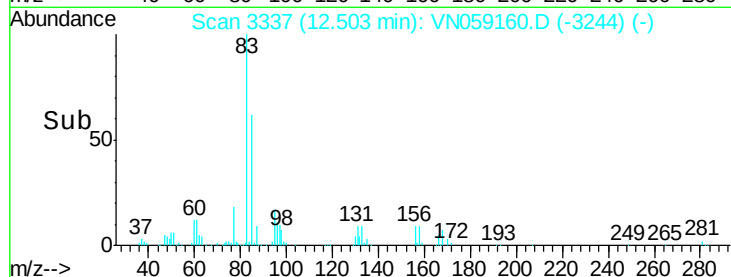
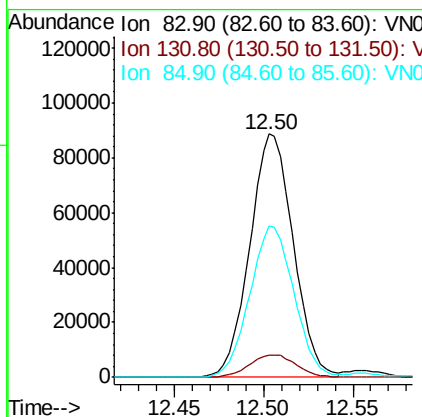
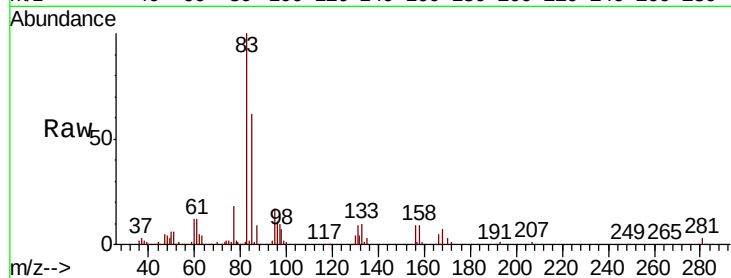
ClientSampleId :

VN1111WBSD01

Tot Ion:	83	Resp:	151269
Ion Ratio	Lower	Upper	
83	100		
131	9.8	4.9	14.6
85	63.1	32.4	97.2

Manual Integrations
APPROVED

MMDadoda
11/12/2019 4:19:34 PM



#76

1,2,3-Trichloropropane

Concen: 22.120 ug/l m

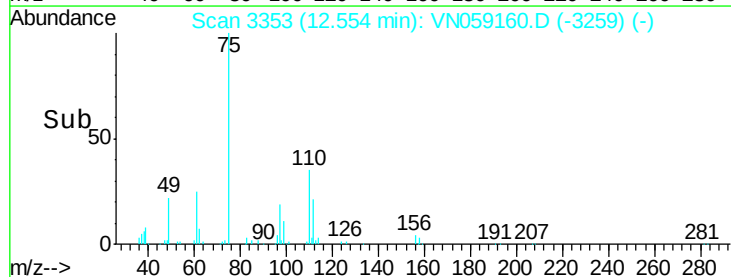
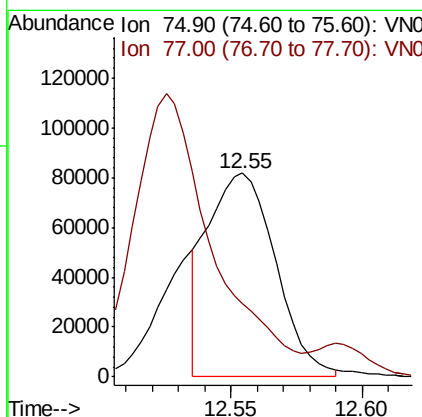
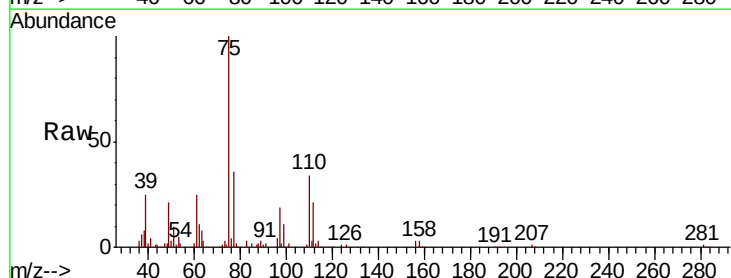
RT: 12.55 min Scan# 3353

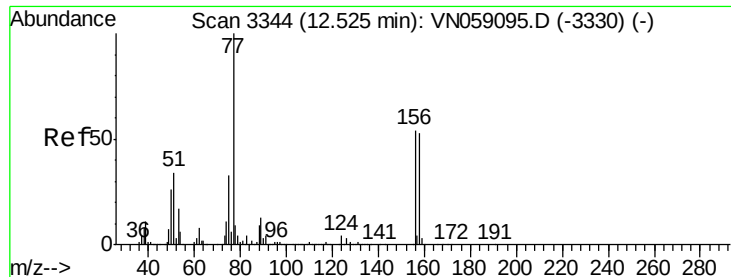
Delta R.T. 0.00 min

Lab File: VN059160.D

Acq: 11 Nov 2019 14:53

Tgt Ion:	75	Resp:	146976
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 19.708 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. -0.00 min

Lab File: VN059160.D

Acq: 11 Nov 2019 14:53

Instrument :

MSVOA_N

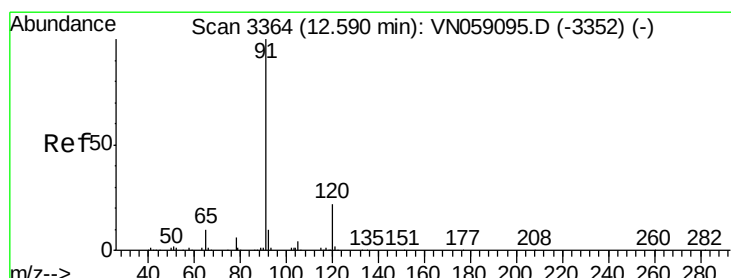
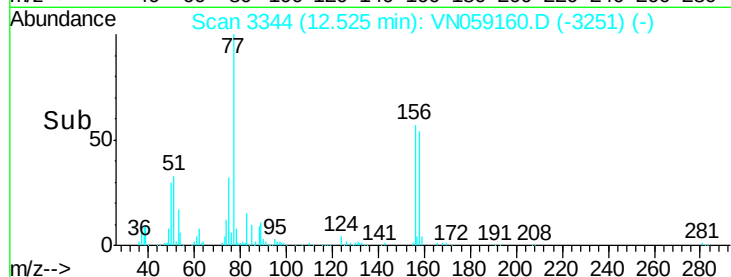
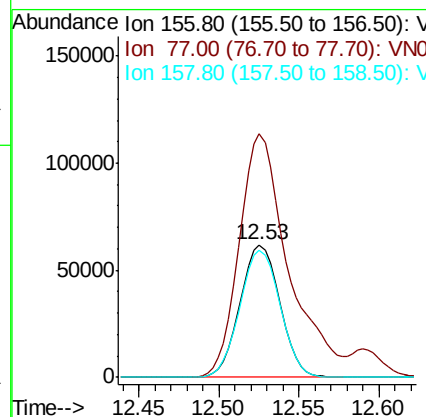
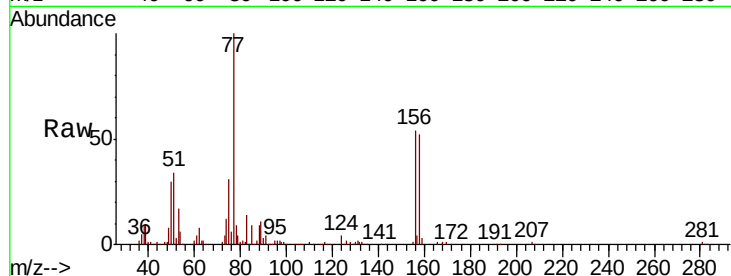
ClientSampleId :

VN1111WBSD01

Tot Ion:	156	Resp:	105117
Ion Ratio	Lower	Upper	
156	100		
77	226.6	112.8	338.3
158	96.7	48.4	145.3

Manual Integrations
APPROVED

MMDadoda
11/12/2019 4:19:34 PM



#78

n-propylbenzene

Concen: 20.432 ug/l

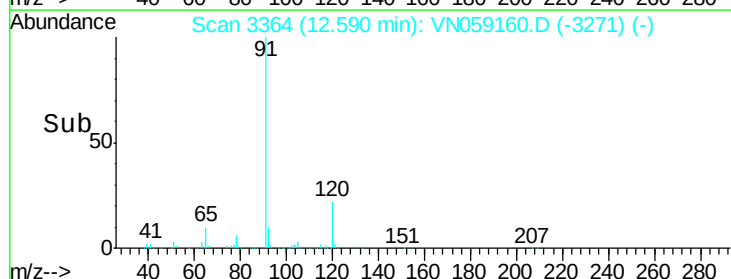
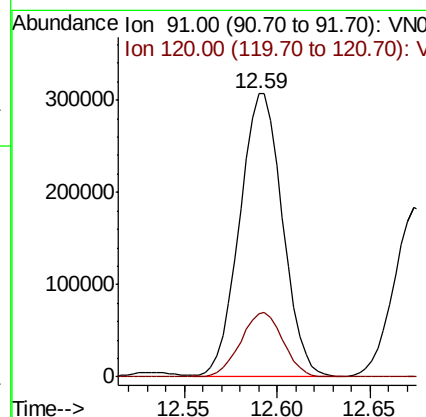
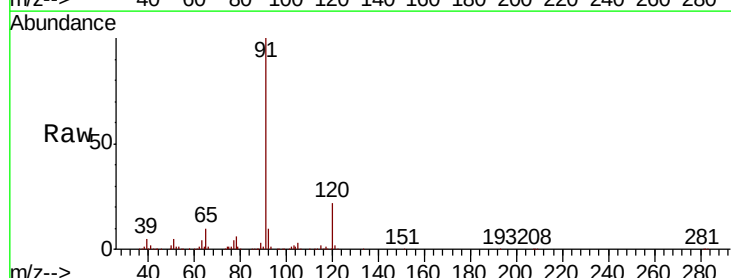
RT: 12.59 min Scan# 3364

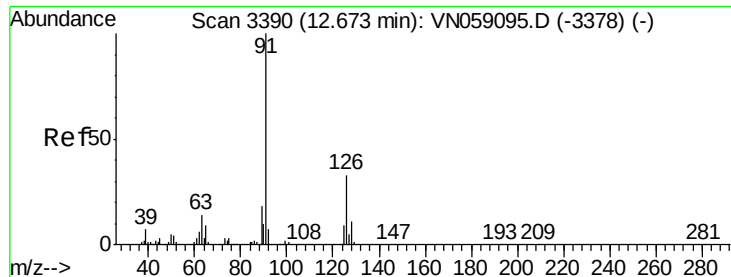
Delta R.T. 0.00 min

Lab File: VN059160.D

Acq: 11 Nov 2019 14:53

Tgt Ion:	91	Resp:	496633
Ion Ratio	Lower	Upper	
91	100		
120	22.3	11.2	33.5





#79

2-Chlorotoluene

Concen: 20.062 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. 0.00 min

Lab File: VN059160.D

Acq: 11 Nov 2019 14:53

Instrument :

MSVOA_N

ClientSampleId :

VN1111WBSD01

Tot Ion: 91 Resp: 302509

Ion Ratio Lower Upper

91 100

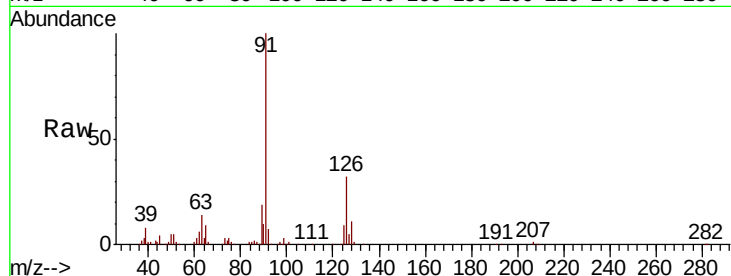
126 32.9 16.7 50.1

Manual Integrations

APPROVED

MMDadoda

11/12/2019 4:19:34 PM



Abundance Ion 91.00 (90.70 to 91.70): VN059160.D (-3297) (-)

Ion 125.90 (125.60 to 126.60): VN059160.D (-3297) (-)

300000

250000

200000

150000

100000

50000

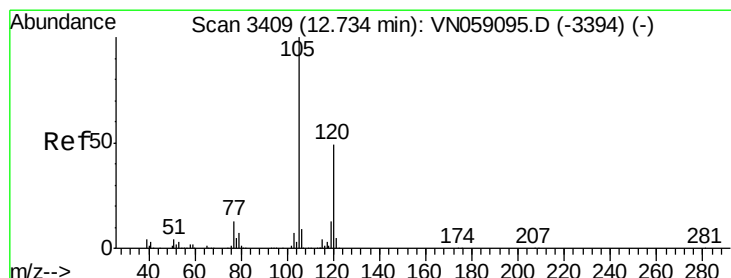
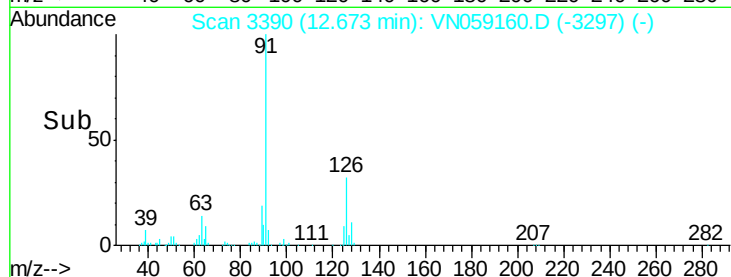
0

12.60

12.65

12.70

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 20.021 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. -0.00 min

Lab File: VN059160.D

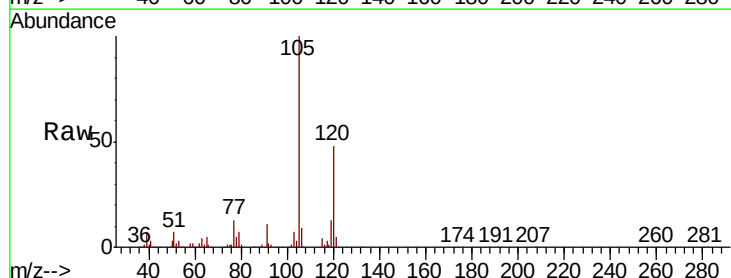
Acq: 11 Nov 2019 14:53

Tgt Ion:105 Resp: 360149

Ion Ratio Lower Upper

105 100

120 48.2 24.0 72.0



Abundance Ion 105.00 (104.70 to 105.70): VN059160.D (-3316) (-)

Ion 120.00 (119.70 to 120.70): VN059160.D (-3316) (-)

250000

200000

150000

100000

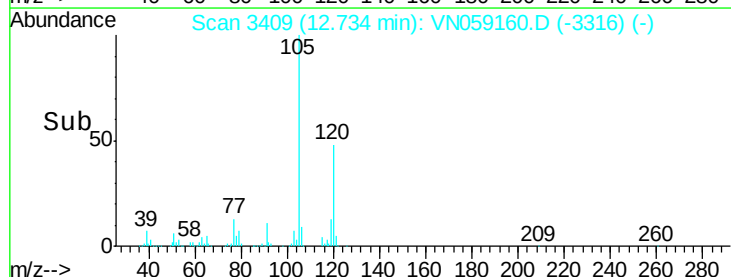
50000

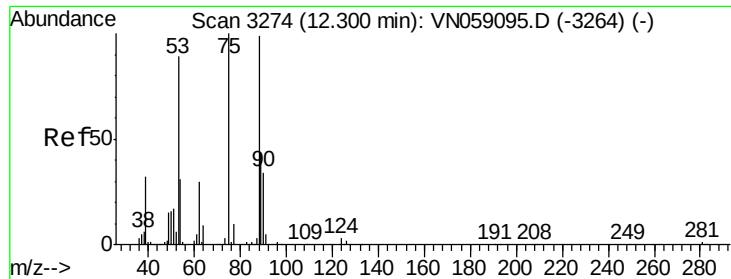
0

12.70

12.80

Time-->





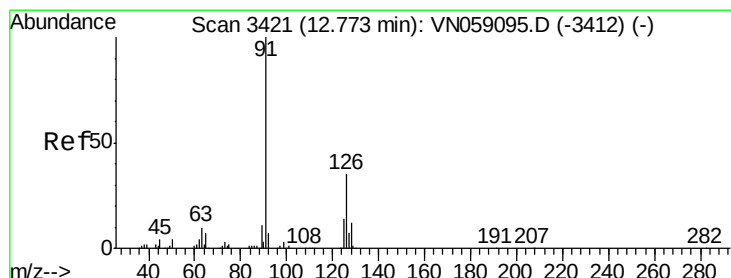
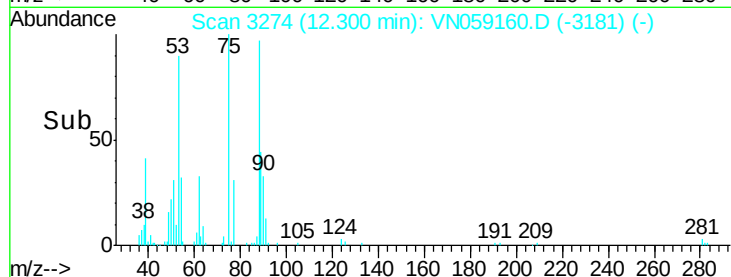
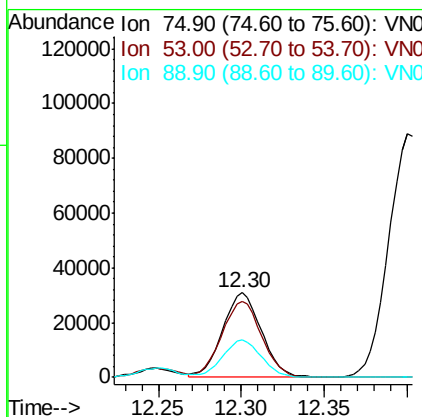
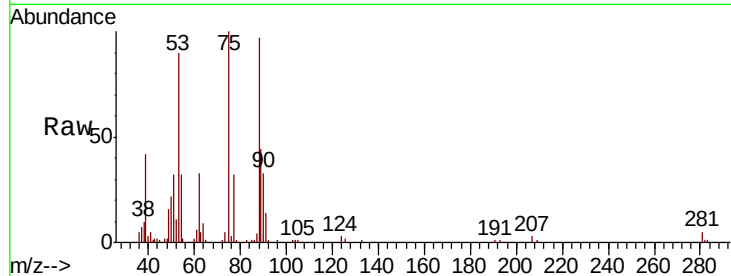
#81
trans-1,4-Dichloro-2-butene
Concen: 19.476 ug/l
RT: 12.30 min Scan# 3274
Delta R.T. -0.00 min
Lab File: VN059160.D
Acq: 11 Nov 2019 14:53

Instrument :
MSVOA_N
ClientSampleId :
VN1111WBSD01

Tot Ion	Ratio	Lower	Upper
75	100		
53	93.8	72.2	108.2
89	46.2	35.8	53.8

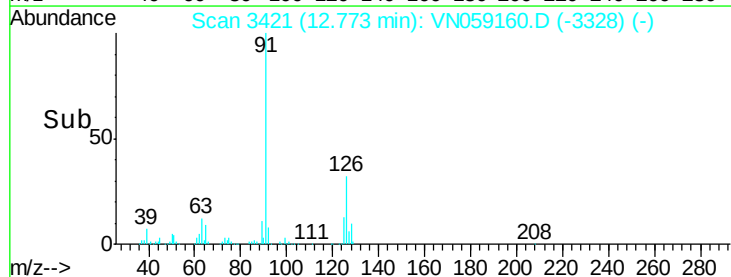
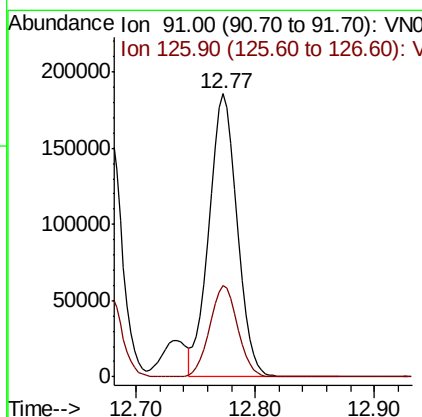
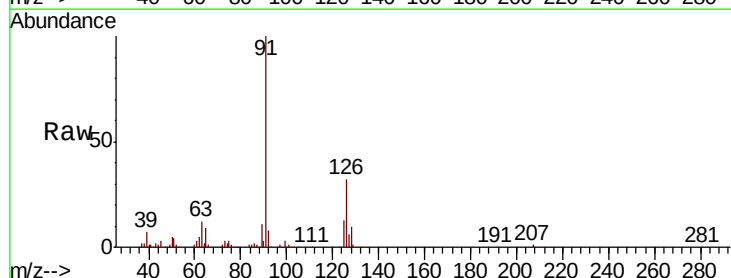
Manual Integrations
APPROVED

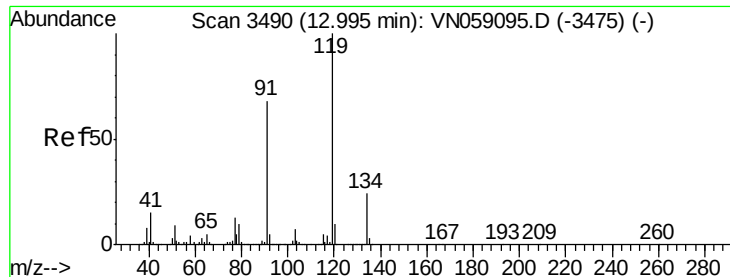
MMDadoda
11/12/2019 4:19:34 PM



#82
4-Chlorotoluene
Concen: 20.020 ug/l
RT: 12.77 min Scan# 3421
Delta R.T. -0.00 min
Lab File: VN059160.D
Acq: 11 Nov 2019 14:53

Tgt Ion	Ratio	Lower	Upper
91	100		
126	32.2	16.1	48.2





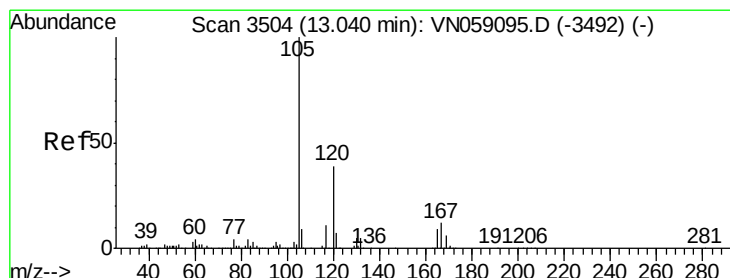
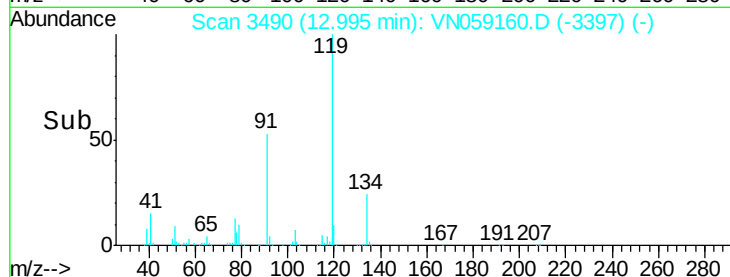
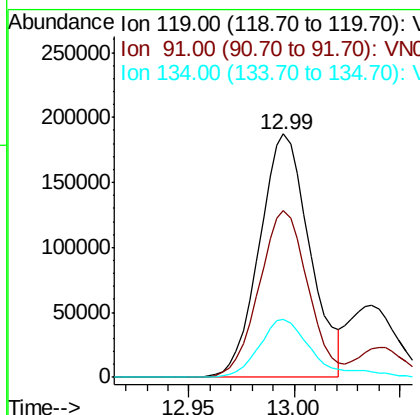
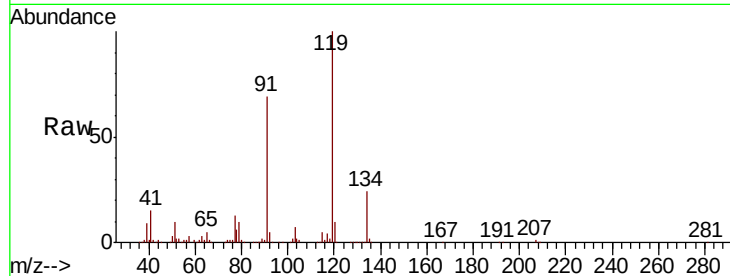
#83
 tert-Butylbenzene
 Concen: 20.008 ug/l
 RT: 12.99 min Scan# 3490
 Delta R.T. 0.00 min
 Lab File: VN059160.D
 Acq: 11 Nov 2019 14:53

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1111WBSD01

Tot Ion	Ratio	Lower	Upper
119	100		
91	66.9	33.2	99.6
134	25.6	12.7	38.1

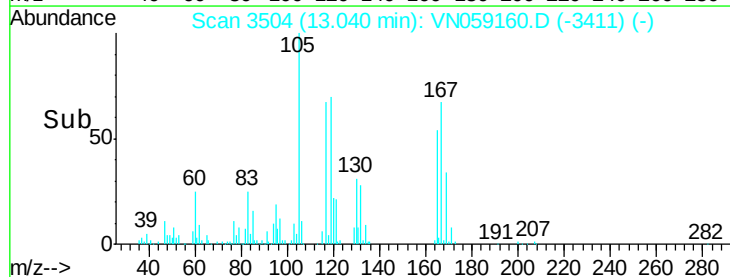
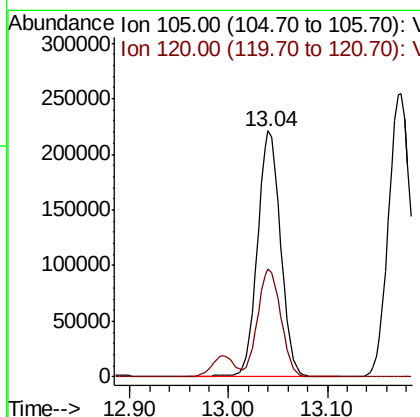
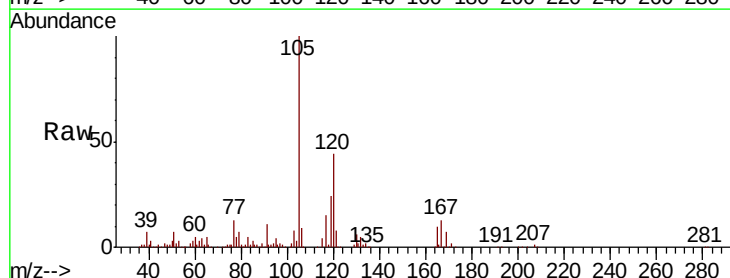
Manual Integrations
 APPROVED

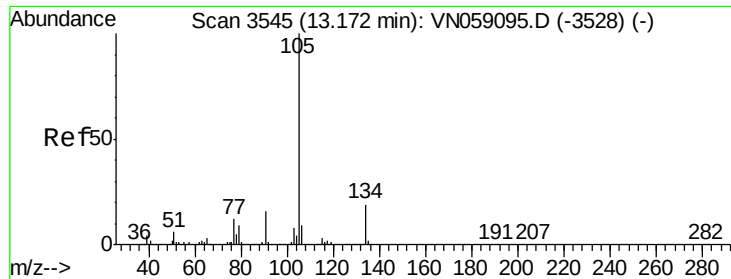
MMDadoda
 11/12/2019 4:19:34 PM



#84
 1,2,4-Trimethylbenzene
 Concen: 20.437 ug/l
 RT: 13.04 min Scan# 3504
 Delta R.T. -0.00 min
 Lab File: VN059160.D
 Acq: 11 Nov 2019 14:53

Tgt Ion	Ratio	Lower	Upper
105	100		
120	43.7	22.8	68.4





#85

sec-Butylbenzene

Concen: 19.957 ug/l

RT: 13.17 min Scan# 3546

Delta R.T. 0.00 min

Lab File: VN059160.D

Acq: 11 Nov 2019 14:53

Instrument :

MSVOA_N

ClientSampleId :

VN1111WBSD01

Tot Ion:105 Resp: 403198

Ion Ratio Lower Upper

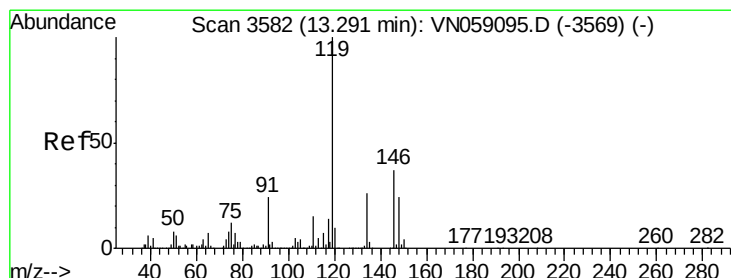
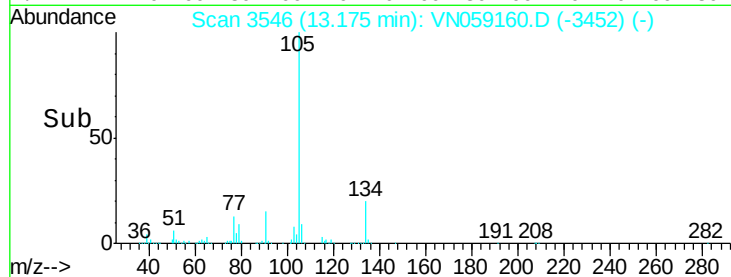
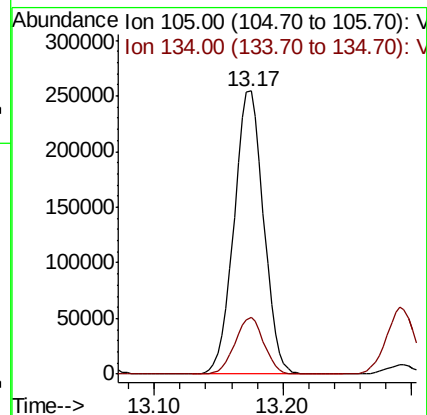
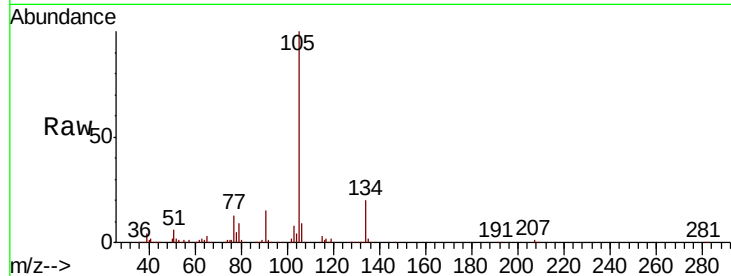
105 100

134 19.7 9.7 29.1

Manual Integrations
APPROVED

MMDadoda

11/12/2019 4:19:34 PM



#86

p-Isopropyltoluene

Concen: 19.877 ug/l

RT: 13.29 min Scan# 3582

Delta R.T. 0.00 min

Lab File: VN059160.D

Acq: 11 Nov 2019 14:53

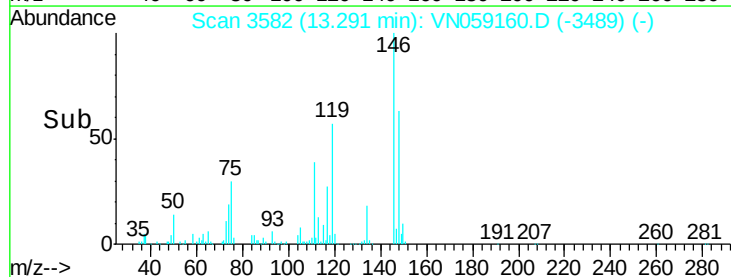
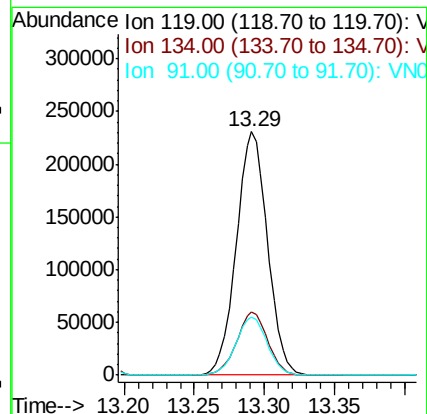
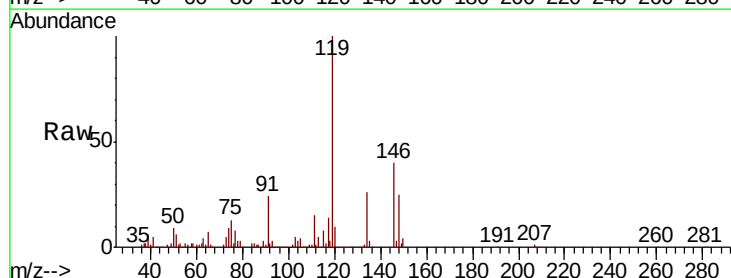
Tgt Ion:119 Resp: 354578

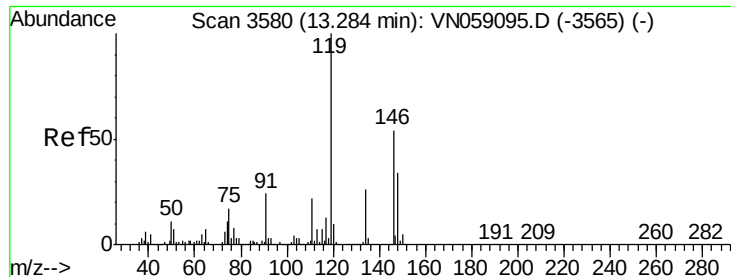
Ion Ratio Lower Upper

119 100

134 26.1 13.0 38.9

91 23.9 11.7 35.1





#87

1,3-Dichlorobenzene

Concen: 19.525 ug/l

RT: 13.28 min Scan# 3580

Delta R.T. -0.00 min

Lab File: VN059160.D

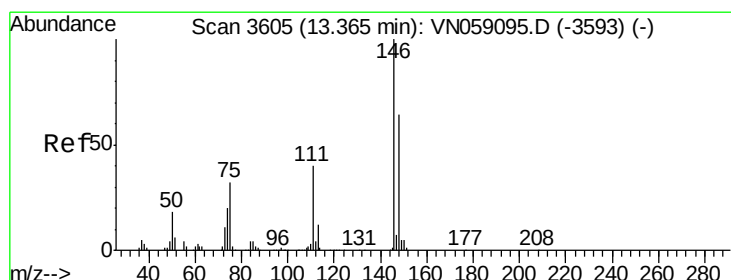
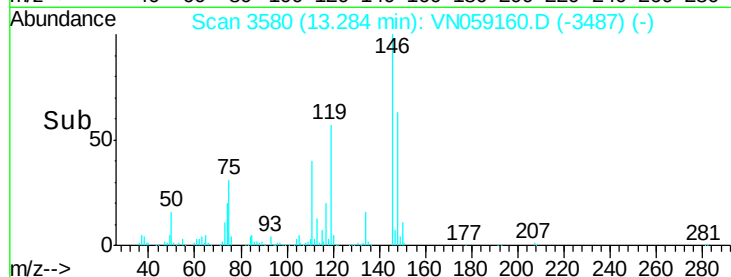
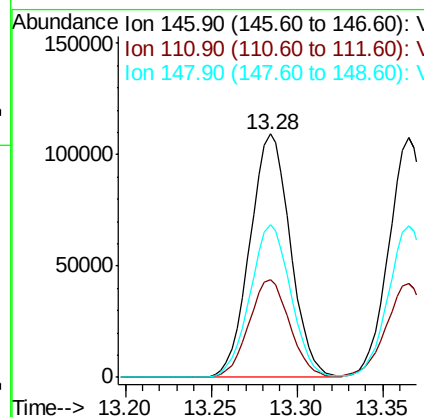
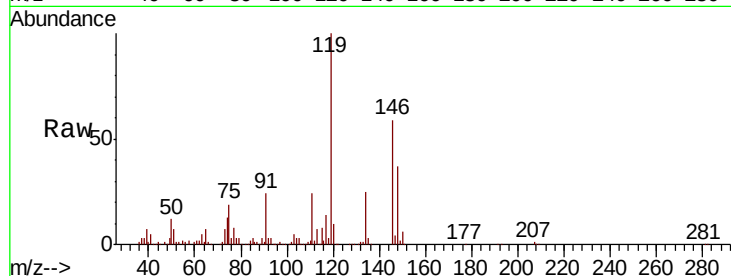
Acq: 11 Nov 2019 14:53

Instrument :
MSVOA_N
ClientSampleId :
VN1111WBSD01

Tot Ion	Ratio	Lower	Upper
146	100		
111	40.4	20.4	61.3
148	63.3	32.2	96.6

Manual Integrations
APPROVED

MMDadoda
11/12/2019 4:19:34 PM



#88

1,4-Dichlorobenzene

Concen: 19.064 ug/l

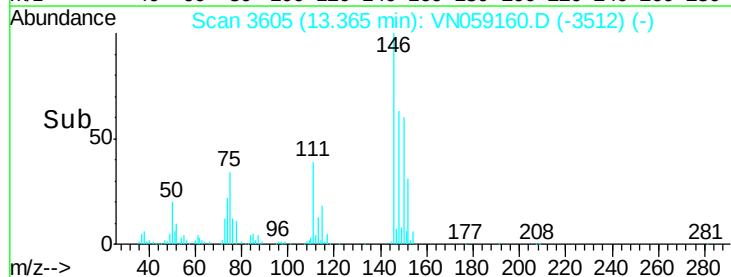
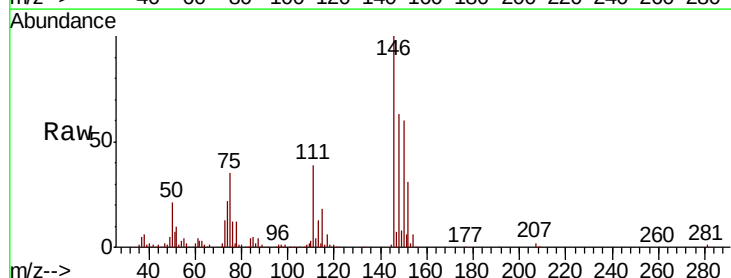
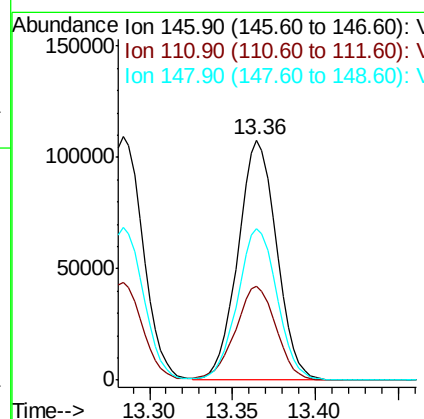
RT: 13.36 min Scan# 3605

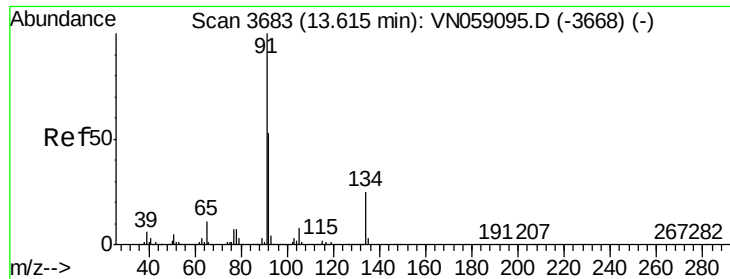
Delta R.T. -0.00 min

Lab File: VN059160.D

Acq: 11 Nov 2019 14:53

Tgt Ion	Ratio	Lower	Upper
146	100		
111	41.6	20.3	60.9
148	64.5	31.9	95.7





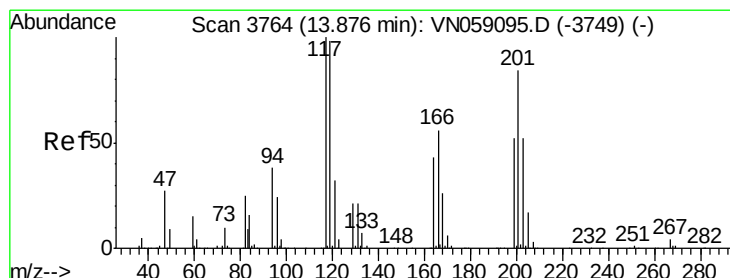
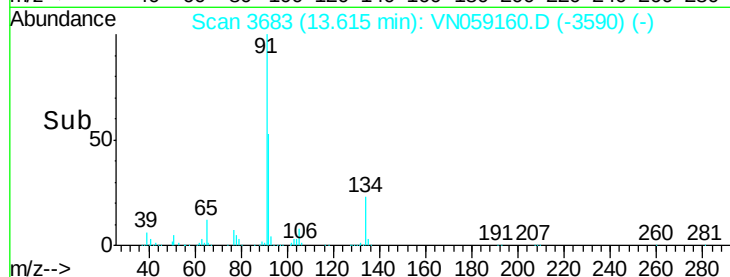
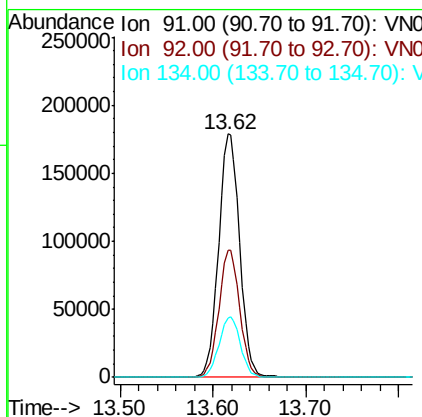
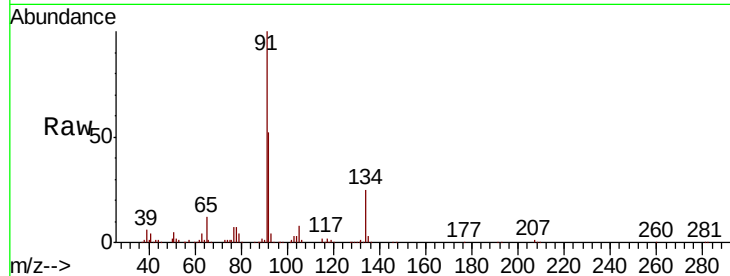
#89
n-Butylbenzene
Concen: 17.997 ug/l
RT: 13.62 min Scan# 3683
Delta R.T. 0.00 min
Lab File: VN059160.D
Acq: 11 Nov 2019 14:53

Instrument :
MSVOA_N
ClientSampleId :
VN1111WBSD01

Tot Ion	Ratio	Lower	Upper
91	100		
92	51.7	26.1	78.3
134	25.1	12.6	37.8

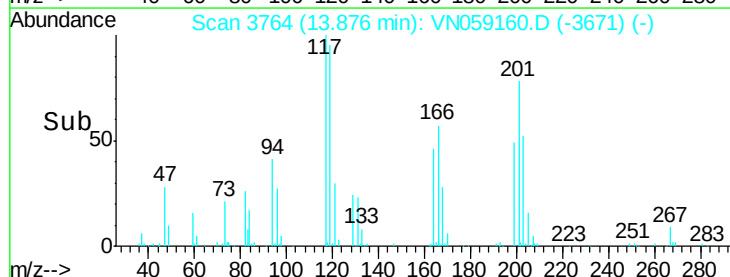
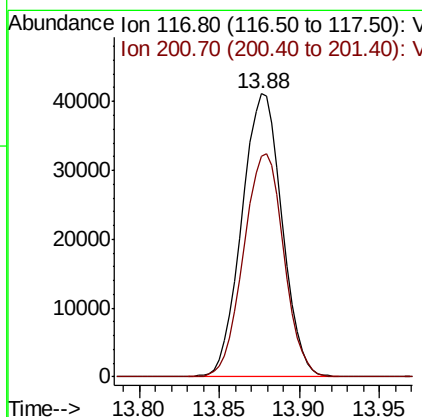
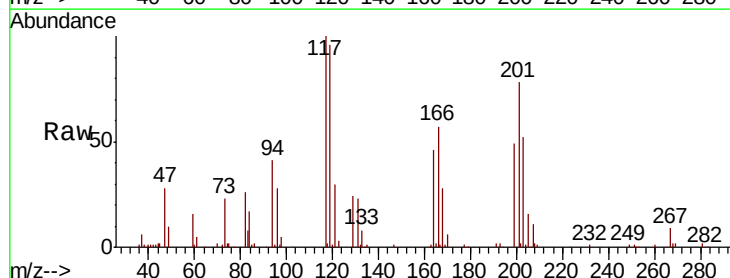
Manual Integrations
APPROVED

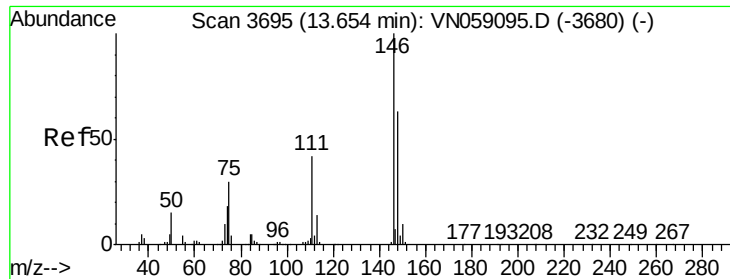
MMDadoda
11/12/2019 4:19:34 PM



#90
Hexachloroethane
Concen: 19.694 ug/l
RT: 13.88 min Scan# 3764
Delta R.T. -0.00 min
Lab File: VN059160.D
Acq: 11 Nov 2019 14:53

Tgt Ion	Ratio	Lower	Upper
117	100		
201	78.8	41.8	125.3





#91

1,2-Dichlorobenzene

Concen: 20.211 ug/l

RT: 13.65 min Scan# 3695

Delta R.T. 0.00 min

Lab File: VN059160.D

Acq: 11 Nov 2019 14:53

Instrument :

MSVOA_N

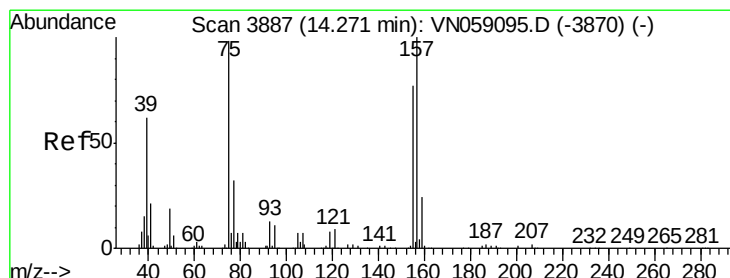
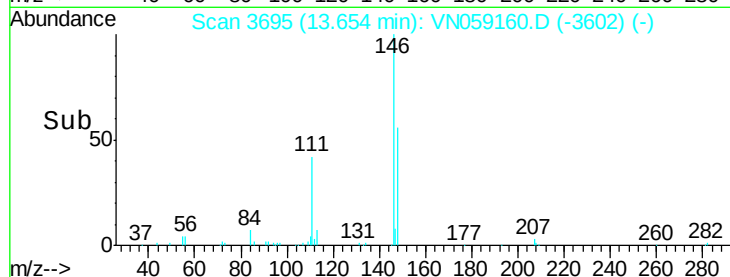
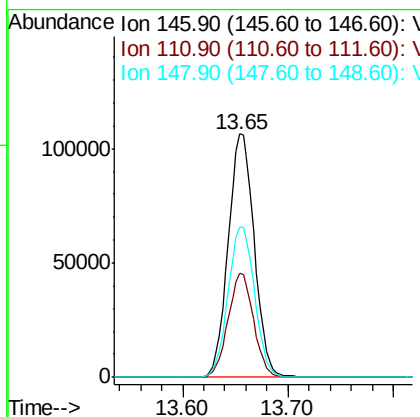
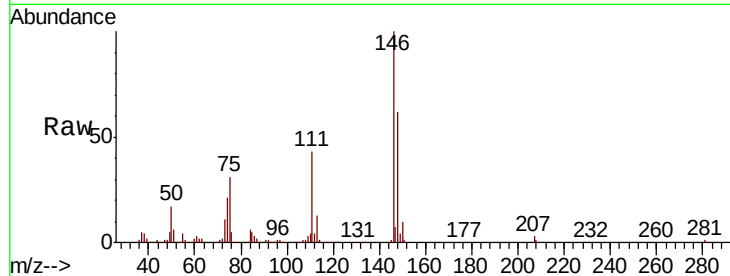
ClientSampleId :

VN1111WBSD01

Tot Ion:	146	Resp:	181588
Ion Ratio	Lower	Upper	
146	100		
111	41.7	21.2	63.6
148	62.9	31.6	94.7

Manual Integrations
APPROVED

MMDadoda
11/12/2019 4:19:34 PM



#92

1,2-Dibromo-3-Chloropropane

Concen: 21.684 ug/l

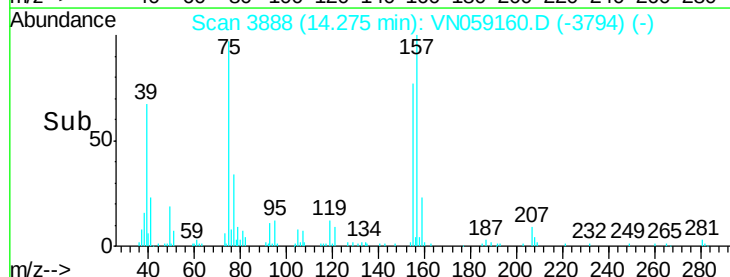
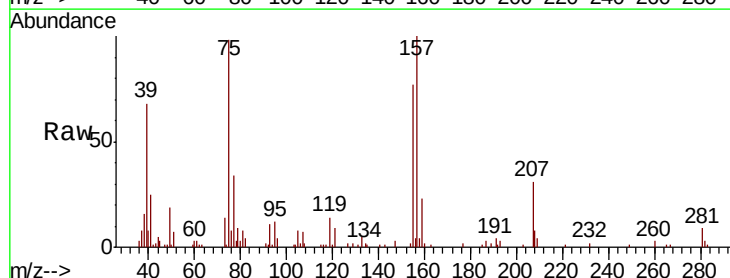
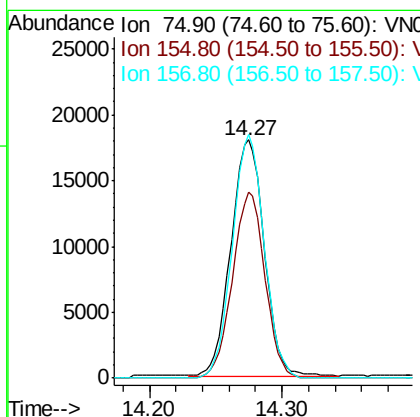
RT: 14.27 min Scan# 3888

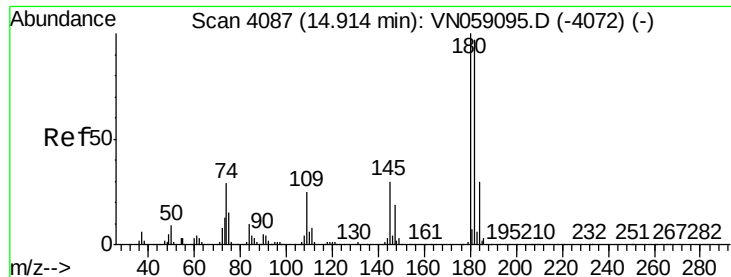
Delta R.T. 0.00 min

Lab File: VN059160.D

Acq: 11 Nov 2019 14:53

Tgt Ion:	75	Resp:	31255
Ion Ratio	Lower	Upper	
75	100		
155	76.5	40.2	120.6
157	98.5	51.8	155.5





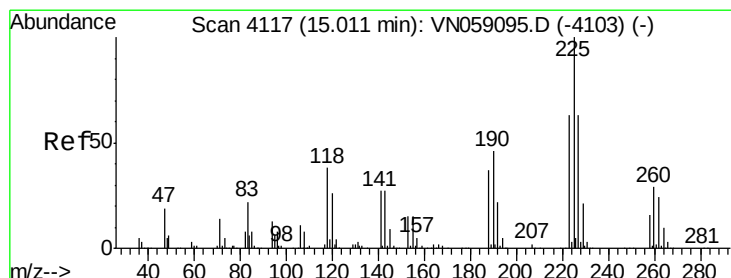
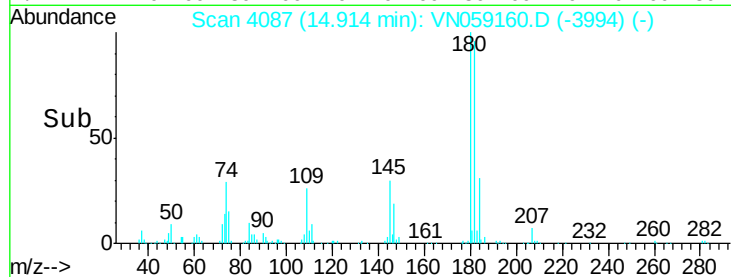
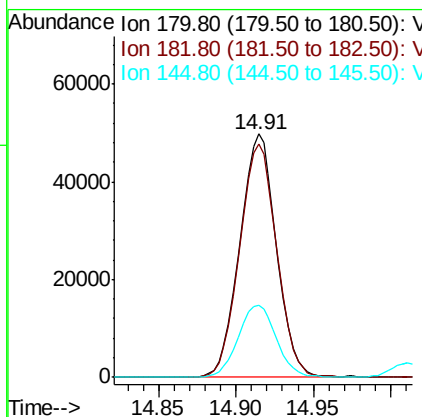
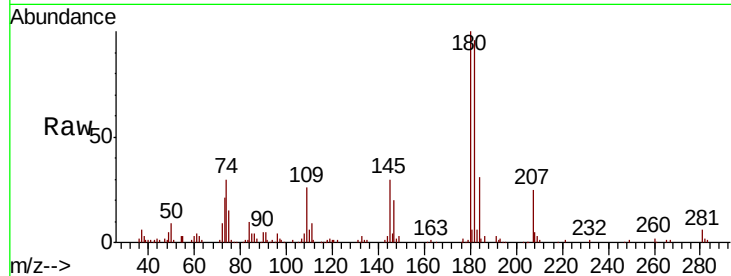
#93
1,2,4-Trichlorobenzene
Concen: 17.132 ug/l
RT: 14.91 min Scan# 4087
Delta R.T. 0.00 min
Lab File: VN059160.D
Acq: 11 Nov 2019 14:53

Instrument :
MSVOA_N
ClientSampleId :
VN1111WBSD01

Tot Ion	Ratio	Lower	Upper
180	100		
182	97.3	48.1	144.3
145	30.9	15.1	45.3

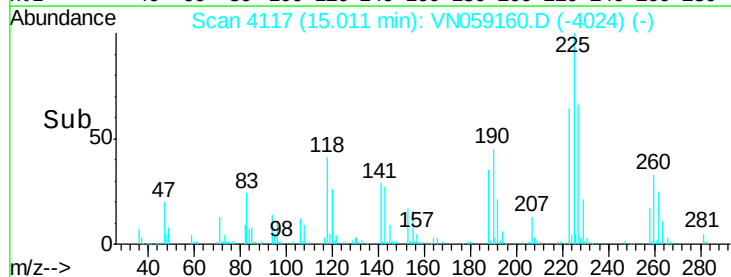
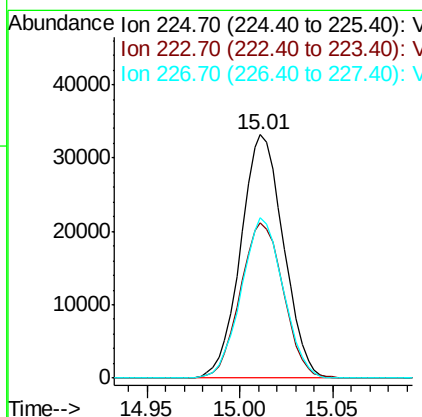
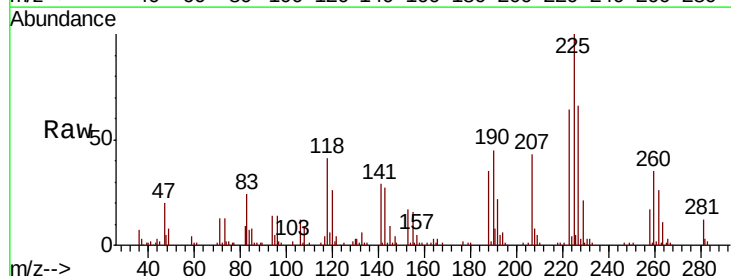
Manual Integrations
APPROVED

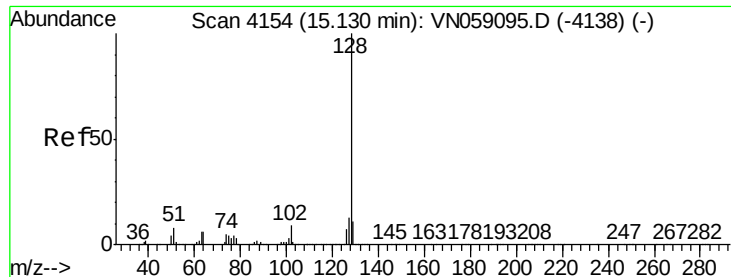
MMDadoda
11/12/2019 4:19:34 PM



#94
Hexachlorobutadiene
Concen: 17.127 ug/l
RT: 15.01 min Scan# 4117
Delta R.T. -0.00 min
Lab File: VN059160.D
Acq: 11 Nov 2019 14:53

Tgt Ion	Ratio	Lower	Upper
225	100		
223	64.0	31.3	93.9
227	64.3	31.5	94.5





#95

Naphthalene

Concen: 17.746 ug/l

RT: 15.13 min Scan# 4154

Delta R.T. 0.00 min

Lab File: VN059160.D

Acq: 11 Nov 2019 14:53

Instrument :

MSVOA_N

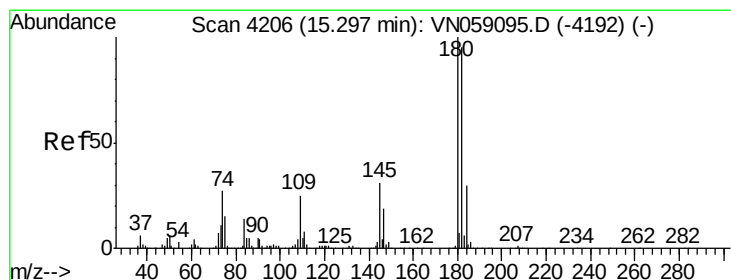
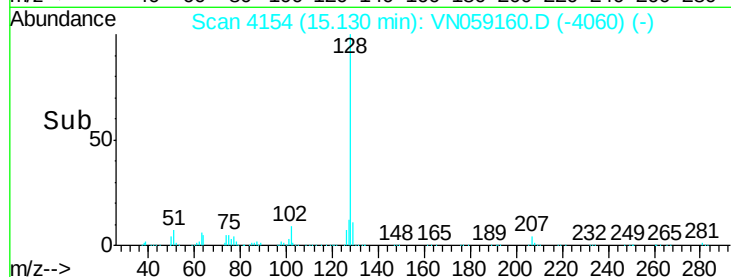
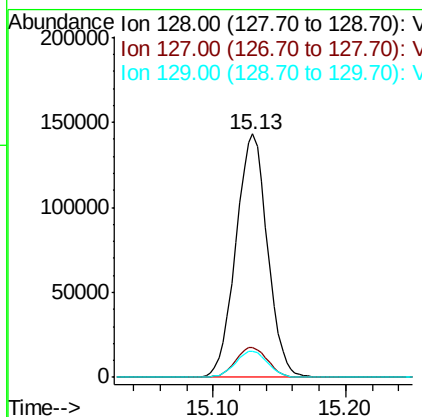
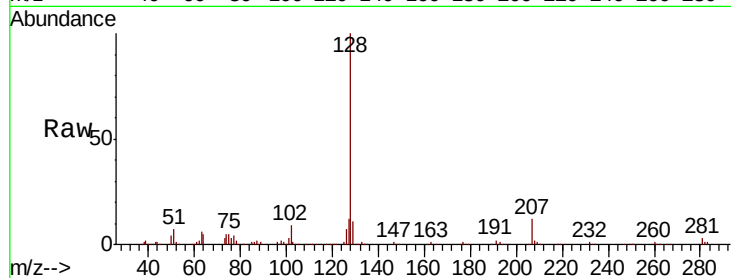
ClientSampleId :

VN1111WBSD01

Tot Ion:	128	Resp:	236751
Ion Ratio	Lower	Upper	
128	100		
127	12.5	10.2	15.2
129	11.0	8.6	12.8

Manual Integrations
APPROVED

MMDadoda
11/12/2019 4:19:34 PM



#96

1,2,3-Trichlorobenzene

Concen: 16.953 ug/l

RT: 15.30 min Scan# 4206

Delta R.T. 0.00 min

Lab File: VN059160.D

Acq: 11 Nov 2019 14:53

Tgt Ion:	180	Resp:	85362
Ion Ratio	Lower	Upper	
180	100		
182	95.7	47.3	141.8
145	31.2	15.8	47.3

