

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN110719\
 Data File : VN059120.D
 Acq On : 7 Nov 2019 14:26
 Operator : JC/SP
 Sample : VN1107WBS02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1107WBS02

Manual Integrations
 APPROVED

MMDadoda
 11/8/2019 9:39:16 AM

Quant Time: Nov 08 02:53:53 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	471105	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	738101	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	659144	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	296317	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.00	65	292989	50.59	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.18%	
35) Dibromofluoromethane	7.57	113	231242	52.47	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.94%	
50) Toluene-d8	10.08	98	888013	51.15	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.30%	
62) 4-Bromofluorobenzene	12.40	95	311395	49.75	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.50%	

Target Compounds

					Qvalue	
2) Dichlorodifluoromethane	1.83	85	91656	19.310	ug/l	96
3) Chloromethane	2.04	50	122839	19.038	ug/l	100
4) Vinyl Chloride	2.17	62	122068	19.514	ug/l	99
5) Bromomethane	2.54	94	72443	20.124	ug/l	98
6) Chloroethane	2.68	64	71289	19.265	ug/l	93
7) Trichlorofluoromethane	3.00	101	152709	20.409	ug/l	100
8) Diethyl Ether	3.39	74	61151	20.114	ug/l	97
9) 1,1,2-Trichlorotrifluoroet	3.74	101	91421	20.264	ug/l	99
10) Methyl Iodide	3.93	142	109386	19.589	ug/l	99
11) Tert butyl alcohol	4.75	59	116385	105.454	ug/l	100
12) 1,1-Dichloroethene	3.71	96	88963	20.243	ug/l	99
13) Acrolein	3.58	56	52312	91.933	ug/l	99
14) Allyl chloride	4.30	41	175667	19.460	ug/l	100
15) Acrylonitrile	4.96	53	294476	107.214	ug/l	99
16) Acetone	3.79	43	298942	99.267	ug/l	100
17) Carbon Disulfide	4.03	76	255874	18.756	ug/l	98
18) Methyl Acetate	4.30	43	154545	21.621	ug/l	99
19) Methyl tert-butyl Ether	5.01	73	310340	20.511	ug/l	99
20) Methylene Chloride	4.53	84	104626	19.942	ug/l	97
21) trans-1,2-Dichloroethene	5.01	96	95220	20.186	ug/l	95
22) Diisopropyl ether	5.92	45	350321	20.545	ug/l	95
23) Vinyl Acetate	5.87	43	1443876	109.261	ug/l	99
24) 1,1-Dichloroethane	5.82	63	192060	20.167	ug/l	98
25) 2-Butanone	6.81	43	412696	103.981	ug/l	99
26) 2,2-Dichloropropane	6.80	77	160977	19.331	ug/l	99
27) cis-1,2-Dichloroethene	6.81	96	111605	20.393	ug/l	98
28) Bromochloromethane	7.17	49	60223	21.019	ug/l	100
29) Tetrahydrofuran	7.19	42	267823	106.200	ug/l	99
30) Chloroform	7.35	83	184884	20.238	ug/l	99
31) Cyclohexane	7.63	56	175524	19.469	ug/l	97
32) 1,1,1-Trichloroethane	7.55	97	158224	20.600	ug/l	98
36) 1,1-Dichloropropene	7.77	75	138463	20.070	ug/l	100
37) Ethyl Acetate	6.90	43	159918	20.836	ug/l	98
38) Carbon Tetrachloride	7.75	117	137254	19.988	ug/l	98

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN110719\
 Data File : VN059120.D
 Acq On : 7 Nov 2019 14:26
 Operator : JC/SP
 Sample : VN1107WBS02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleID :
 VN1107WBS02

Manual Integrations
 APPROVED

MMDadoda
 11/8/2019 9:39:16 AM

Quant Time: Nov 08 02:53:53 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	157950	19.726	ug/l	100
40) Benzene	8.02	78	423599	20.389	ug/l	99
41) Methacrylonitrile	7.15	41	64350m	19.281	ug/l	
42) 1,2-Dichloroethane	8.10	62	147688	20.727	ug/l	99
43) Isopropyl Acetate	8.15	43	248452	20.305	ug/l	99
44) Trichloroethene	8.82	130	102921	20.153	ug/l	100
45) 1,2-Dichloropropane	9.10	63	115278	20.428	ug/l	99
46) Dibromomethane	9.19	93	70966	20.181	ug/l	100
47) Bromodichloromethane	9.39	83	144719	20.610	ug/l	99
48) Methyl methacrylate	9.18	41	109299	19.970	ug/l	100
49) 1,4-Dioxane	9.18	88	41406	425.703	ug/l	98
51) 4-Methyl-2-Pentanone	9.97	43	792638	114.487	ug/l	100
52) Toluene	10.15	92	254495	20.438	ug/l	99
53) t-1,3-Dichloropropene	10.37	75	159985	19.721	ug/l	98
54) cis-1,3-Dichloropropene	9.83	75	176360	20.210	ug/l	99
55) 1,1,2-Trichloroethane	10.55	97	103364	20.511	ug/l	99
56) Ethyl methacrylate	10.42	69	151951	19.274	ug/l	98
57) 1,3-Dichloropropane	10.70	76	180510	20.811	ug/l	98
58) 2-Chloroethyl Vinyl ether	9.68	63	309291	110.278	ug/l	99
59) 2-Hexanone	10.74	43	588928	110.825	ug/l	100
60) Dibromochloromethane	10.90	129	107732	20.219	ug/l	100
61) 1,2-Dibromoethane	11.00	107	104096	20.405	ug/l	100
64) Tetrachloroethene	10.63	164	90321	20.152	ug/l	98
65) Chlorobenzene	11.43	112	266493	20.740	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.51	131	101102	20.975	ug/l	99
67) Ethyl Benzene	11.51	91	477028	20.925	ug/l	100
68) m/p-Xylenes	11.62	106	350383	41.030	ug/l	98
69) o-Xylene	11.95	106	167018	20.238	ug/l	99
70) Styrene	11.96	104	267496	20.609	ug/l	99
71) Bromoform	12.13	173	77522	20.677	ug/l #	99
73) Isopropylbenzene	12.25	105	451400	20.943	ug/l	100
74) N-amyl acetate	12.07	43	189889	20.791	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.50	83	158782	21.632	ug/l	99
76) 1,2,3-Trichloropropane	12.55	75	139527m	20.682	ug/l	
77) Bromobenzene	12.53	156	110388	20.384	ug/l	99
78) n-propylbenzene	12.59	91	520938	21.108	ug/l	99
79) 2-Chlorotoluene	12.67	91	320121	20.909	ug/l	99
80) 1,3,5-Trimethylbenzene	12.73	105	383162	20.979	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.30	75	53899	21.103	ug/l	98
82) 4-Chlorotoluene	12.77	91	315346	20.536	ug/l	98
83) tert-Butylbenzene	12.99	119	324006	20.543	ug/l	99
84) 1,2,4-Trimethylbenzene	13.04	105	367701	20.809	ug/l	100
85) sec-Butylbenzene	13.17	105	425298	20.733	ug/l	100
86) p-Isopropyltoluene	13.29	119	376947	20.812	ug/l	100
87) 1,3-Dichlorobenzene	13.28	146	189014	20.383	ug/l	99
88) 1,4-Dichlorobenzene	13.36	146	185400	19.982	ug/l	100
89) n-Butylbenzene	13.62	91	307972	19.427	ug/l	100
90) Hexachloroethane	13.88	117	73289	20.151	ug/l	95
91) 1,2-Dichlorobenzene	13.66	146	189280	20.749	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.27	75	30663	20.954	ug/l	98

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN110719\
Data File : VN059120.D
Acq On : 7 Nov 2019 14:26
Operator : JC/SP
Sample : VN1107WBS02
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN1107WBS02

Manual Integrations
APPROVED

MMDadoda
11/8/2019 9:39:16 AM

Quant Time: Nov 08 02:53:53 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	95309	19.218	ug/l	99
94) Hexachlorobutadiene	15.01	225	61159	19.444	ug/l	98
95) Naphthalene	15.13	128	256722	18.746	ug/l	100
96) 1,2,3-Trichlorobenzene	15.30	180	98999	19.365	ug/l	100

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. -0.00 min

Lab File: VN059120.D

Acq: 7 Nov 2019 14:26

Instrument :

MSVOA_N

ClientSampleId :

VN1107WBS02

Tot Ion:168 Resp: 471105

Ion Ratio Lower Upper

168 100

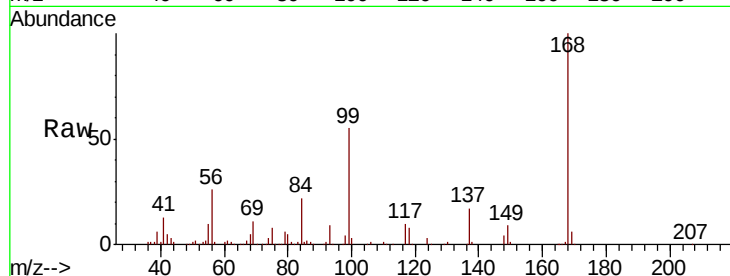
99 55.0 45.7 68.5

Manual Integrations

APPROVED

MMDadoda

11/8/2019 9:39:16 AM



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

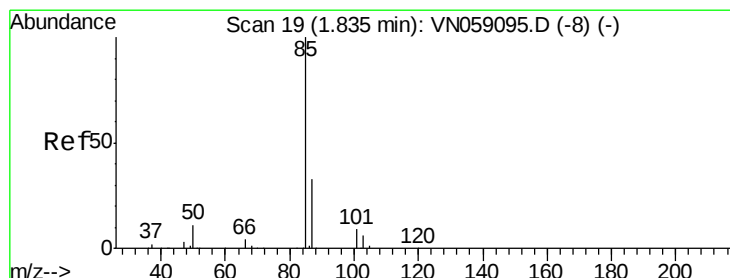
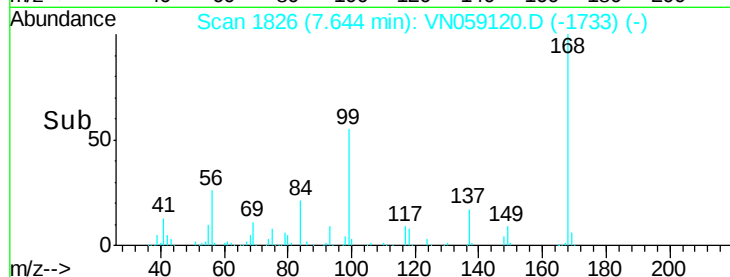
Time-->

7.50

7.60

7.70

7.80



#2

Dichlorodifluoromethane

Concen: 19.310 ug/l

RT: 1.83 min Scan# 19

Delta R.T. -0.00 min

Lab File: VN059120.D

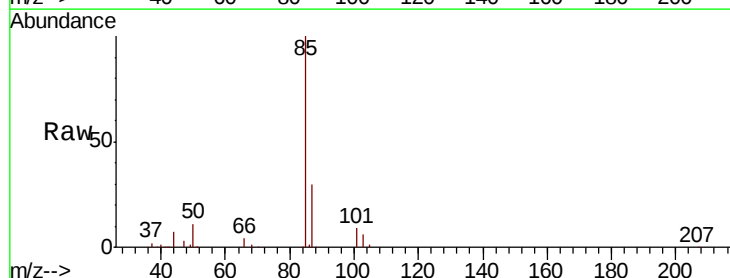
Acq: 7 Nov 2019 14:26

Tgt Ion: 85 Resp: 91656

Ion Ratio Lower Upper

85 100

87 30.4 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

40000

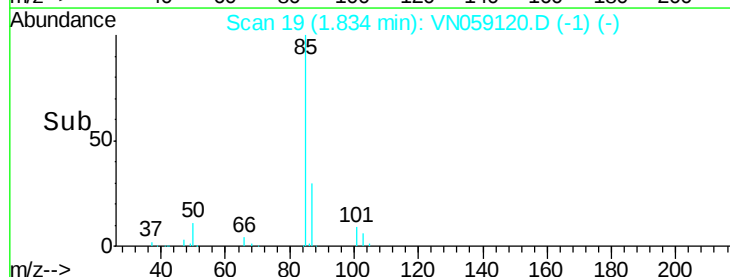
20000

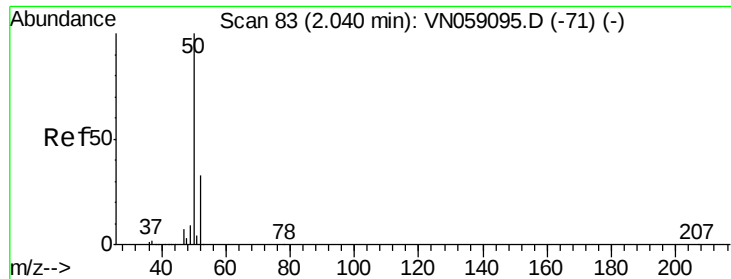
0

Time-->

1.80

1.90





#3

Chloromethane

Concen: 19.038 ug/l

RT: 2.04 min Scan# 83

Delta R.T. -0.00 min

Lab File: VN059120.D

Acq: 7 Nov 2019 14:26

Instrument :

MSVOA_N

ClientSampleId :

VN1107WBS02

Tot Ion: 50 Resp: 122839

Ion Ratio Lower Upper

50 100

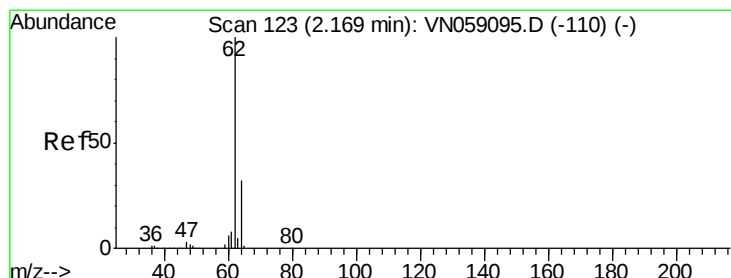
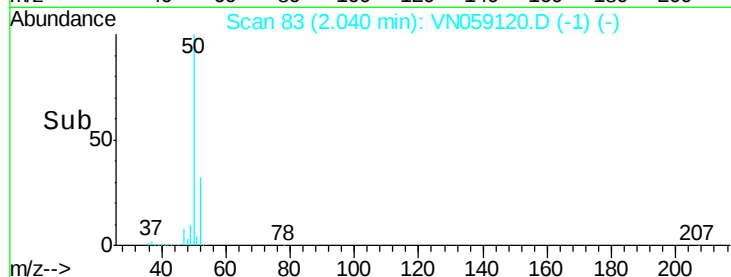
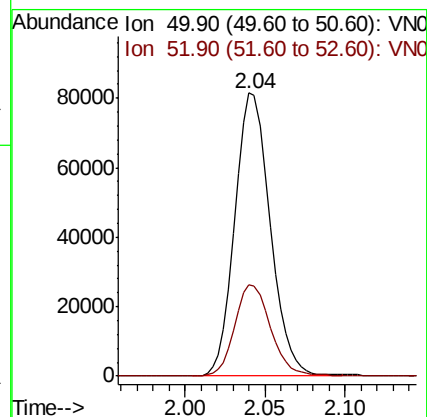
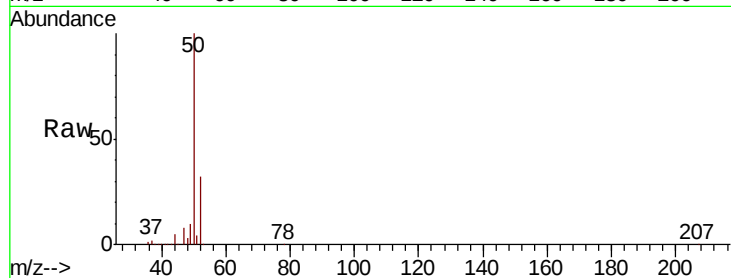
52 32.4 26.0 39.0

Manual Integrations

APPROVED

MMDadoda

11/8/2019 9:39:16 AM



#4

Vinyl Chloride

Concen: 19.514 ug/l

RT: 2.17 min Scan# 123

Delta R.T. -0.00 min

Lab File: VN059120.D

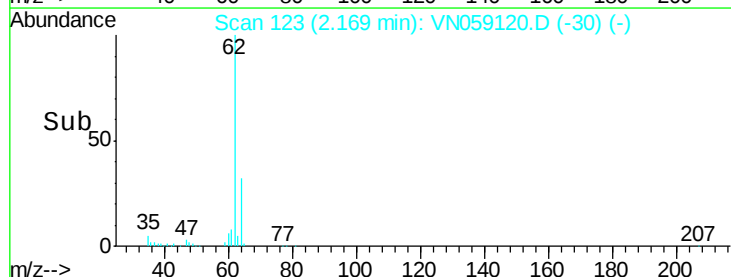
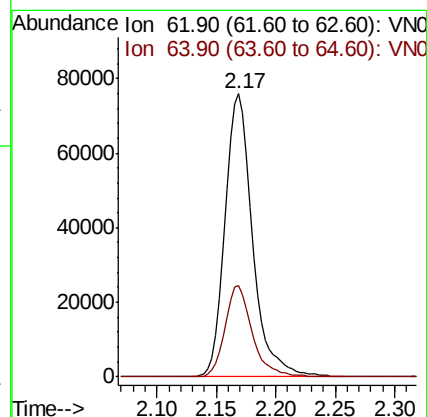
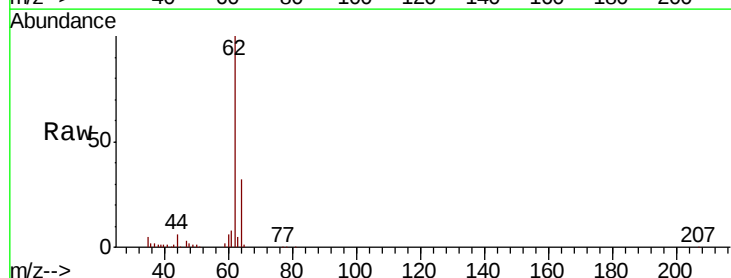
Acq: 7 Nov 2019 14:26

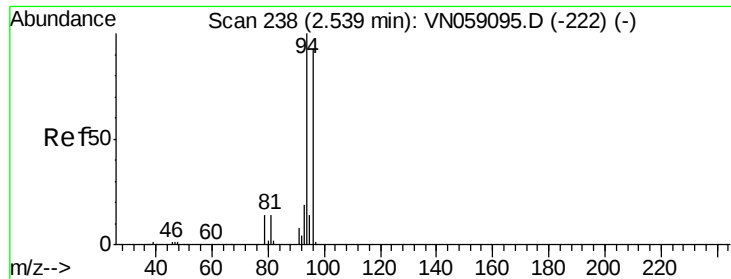
Tgt Ion: 62 Resp: 122068

Ion Ratio Lower Upper

62 100

64 32.4 25.4 38.2





#5

Bromomethane

Concen: 20.124 ug/l

RT: 2.54 min Scan# 240

Delta R.T. 0.01 min

Lab File: VN059120.D

Acq: 7 Nov 2019 14:26

Instrument :

MSVOA_N

ClientSampleId :

VN1107WBS02

Tot Ion: 94 Resp: 72443

Ion Ratio Lower Upper

94 100

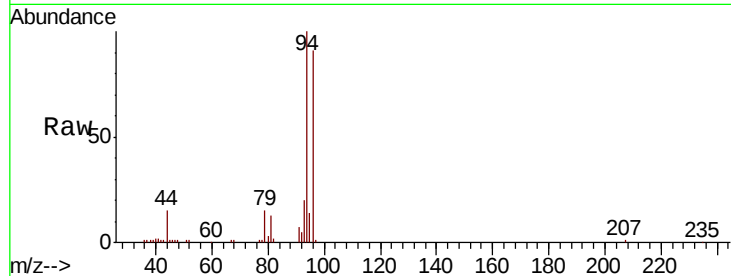
96 91.2 74.2 111.2

Manual Integrations

APPROVED

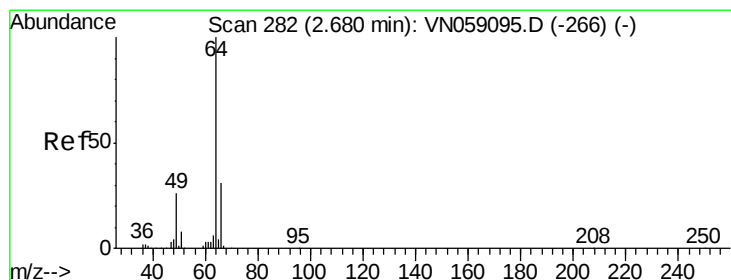
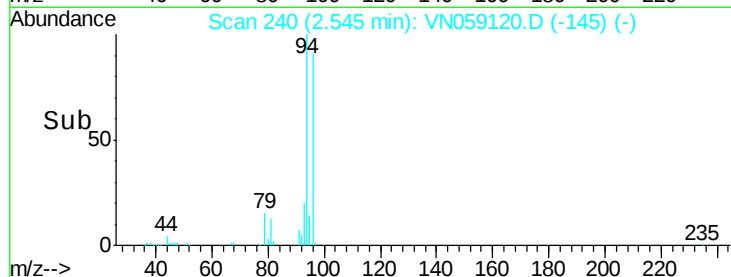
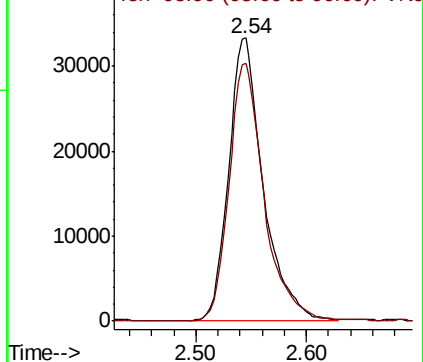
MMDadoda

11/8/2019 9:39:16 AM



Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO



#6

Chloroethane

Concen: 19.265 ug/l

RT: 2.68 min Scan# 283

Delta R.T. 0.00 min

Lab File: VN059120.D

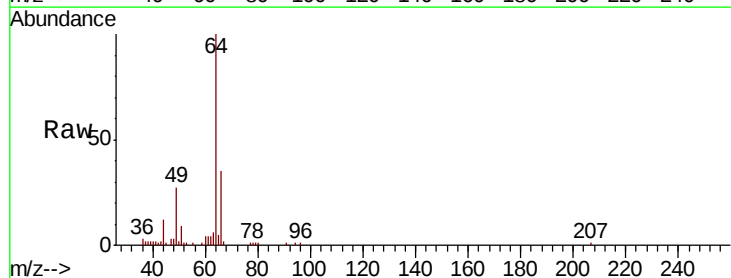
Acq: 7 Nov 2019 14:26

Tgt Ion: 64 Resp: 71289

Ion Ratio Lower Upper

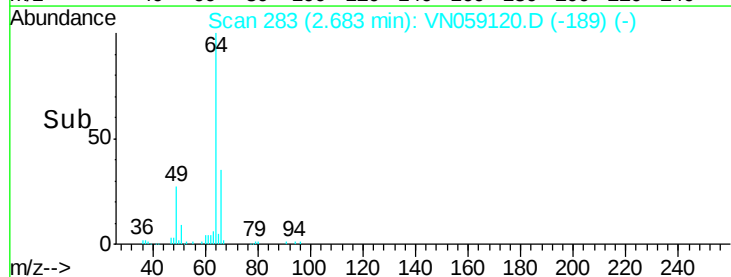
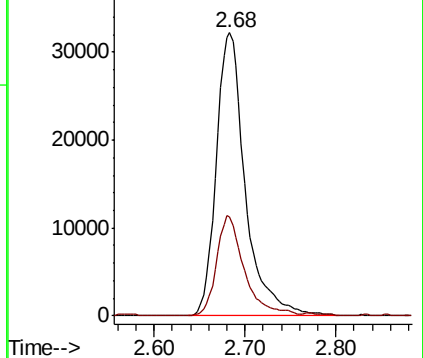
64 100

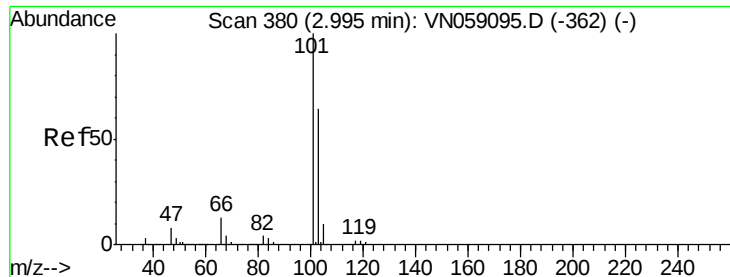
66 35.1 25.2 37.8



Abundance Ion 63.90 (63.60 to 64.60): VNO

Ion 65.90 (65.60 to 66.60): VNO





#7

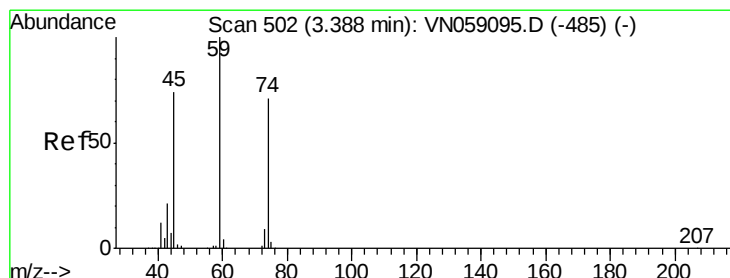
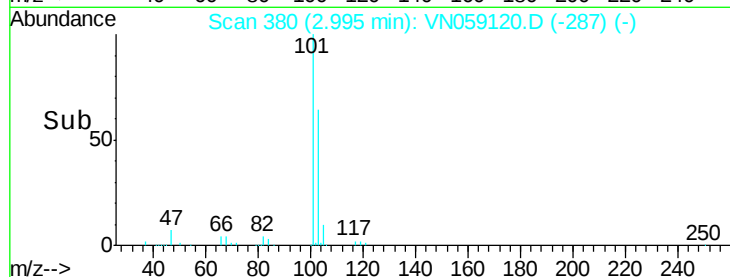
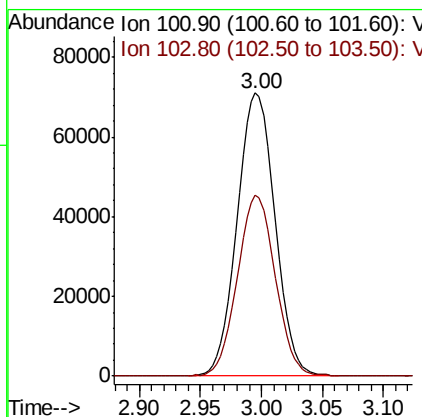
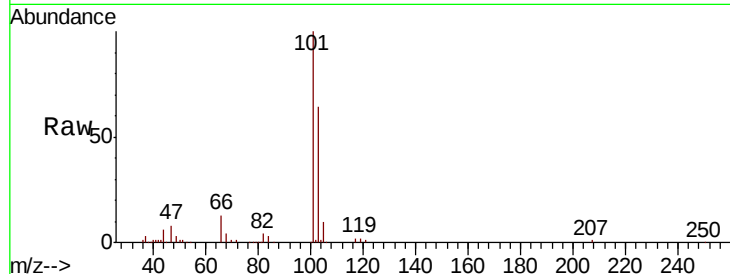
Trichlorofluoromethane
 Concen: 20.409 ug/l
 RT: 3.00 min Scan# 380
 Delta R.T. -0.00 min
 Lab File: VN059120.D
 Acq: 7 Nov 2019 14:26

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1107WBS02

Tot Ion	Ratio	Lower	Upper
101	100		
103	63.9	51.2	76.8

Manual Integrations
 APPROVED

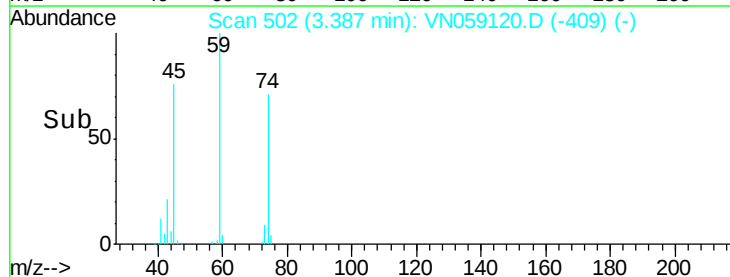
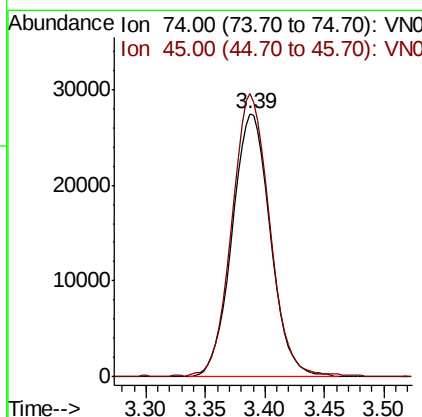
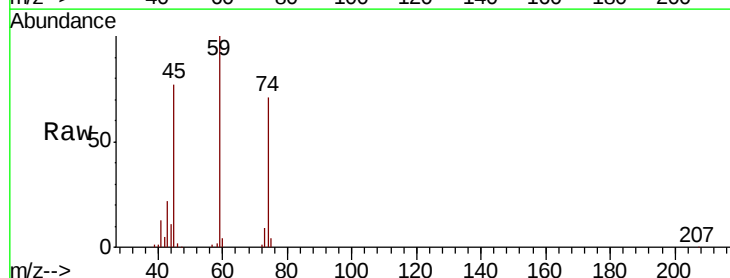
MMDadoda
 11/8/2019 9:39:16 AM

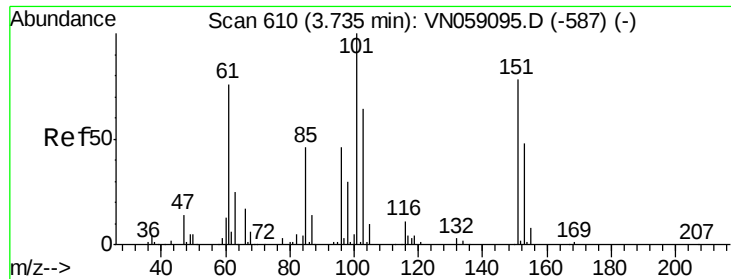


#8

Diethyl Ether
 Concen: 20.114 ug/l
 RT: 3.39 min Scan# 502
 Delta R.T. -0.00 min
 Lab File: VN059120.D
 Acq: 7 Nov 2019 14:26

Tgt Ion	Ratio	Lower	Upper
74	100		
45	106.4	51.6	154.9





#9

1,1,2-Trichlorotrifluoroethane

Concen: 20.264 ug/l

RT: 3.74 min Scan# 611

Delta R.T. 0.00 min

Lab File: VN059120.D

Acq: 7 Nov 2019 14:26

Instrument :

MSVOA_N

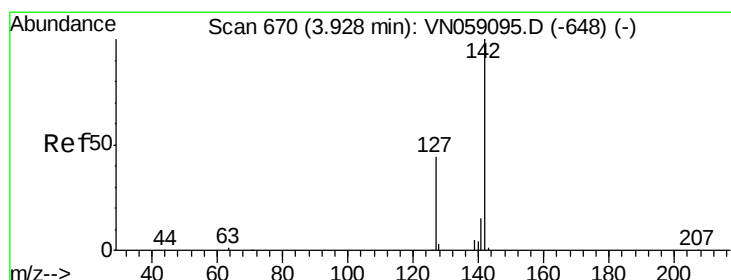
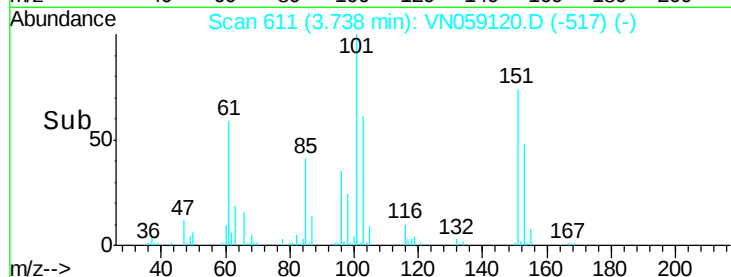
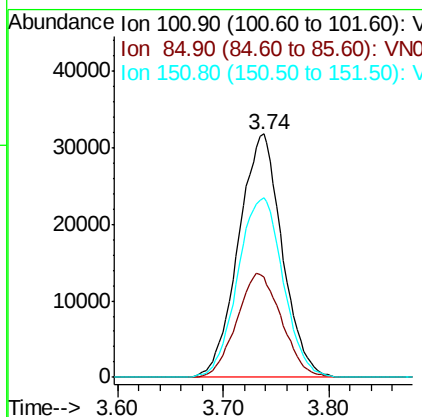
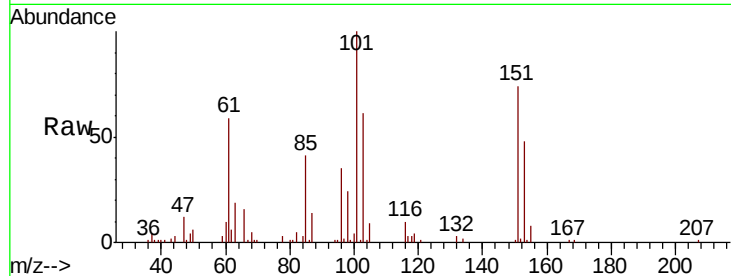
ClientSampleId :

VN1107WBS02

Tot Ion:	101	Resp:	91421
Ion Ratio	Lower	Upper	
101	100		
85	43.8	35.5	53.3
151	76.8	62.2	93.2

Manual Integrations
APPROVED

MMDadoda
11/8/2019 9:39:16 AM



#10

Methyl Iodide

Concen: 19.589 ug/l

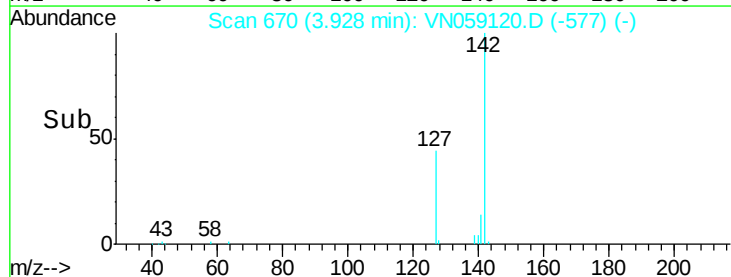
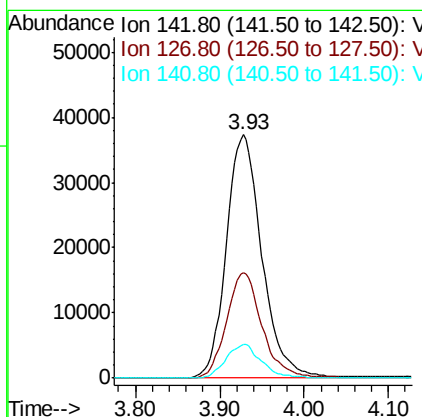
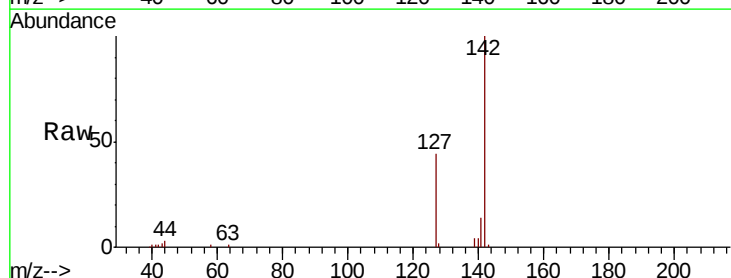
RT: 3.93 min Scan# 670

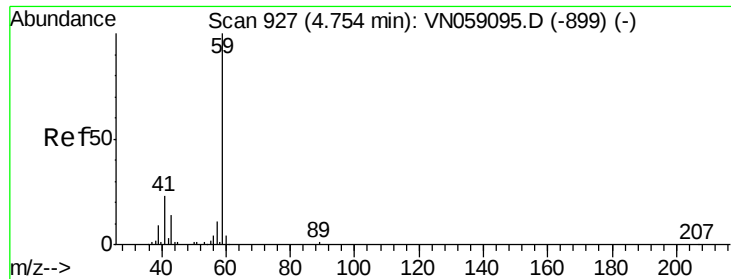
Delta R.T. -0.00 min

Lab File: VN059120.D

Acq: 7 Nov 2019 14:26

Tgt Ion:	142	Resp:	109386
Ion Ratio	Lower	Upper	
142	100		
127	42.9	34.2	51.2
141	13.8	11.4	17.0





#11

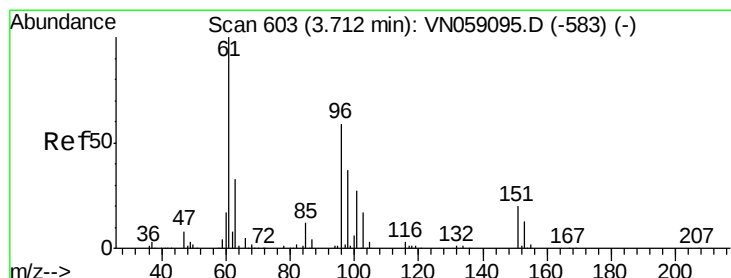
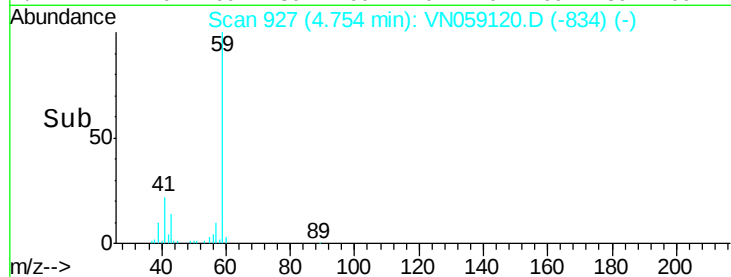
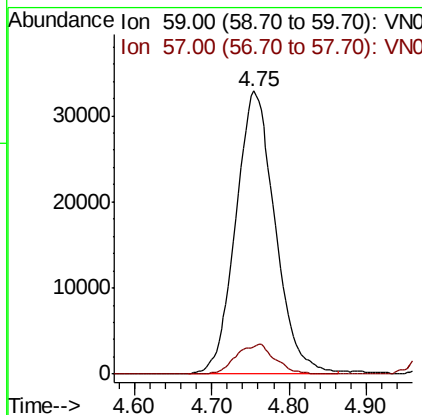
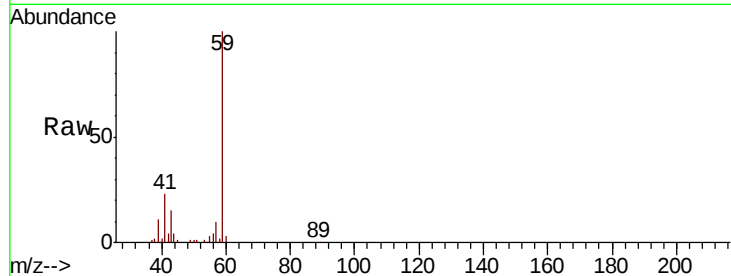
Tert butyl alcohol
Concen: 105.454 ug/l
RT: 4.75 min Scan# 927
Delta R.T. -0.00 min
Lab File: VN059120.D
Acq: 7 Nov 2019 14:26

Instrument :
MSVOA_N
ClientSampleId :
VN1107WBS02

Tot Ion	59	Resp	116385
Ion Ratio	100	Lower	Upper
57	10.3	8.3	12.5

Manual Integrations
APPROVED

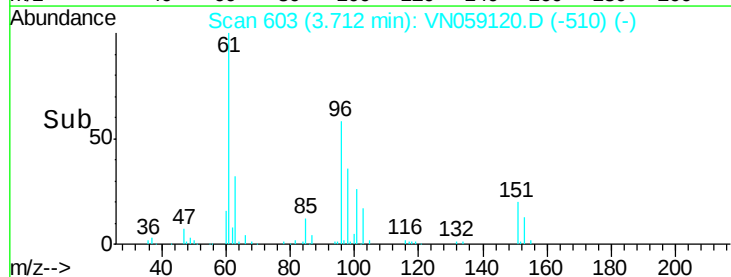
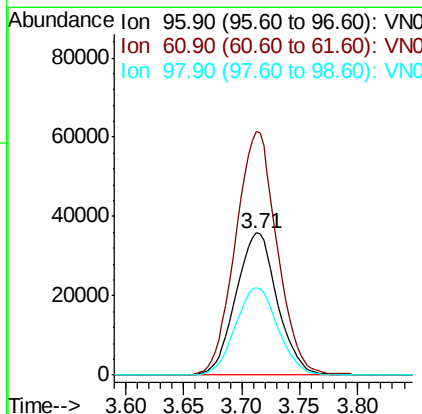
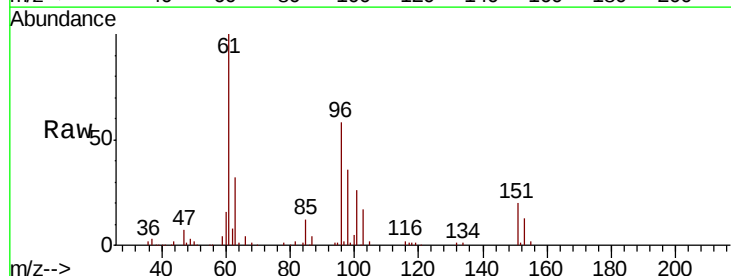
MMDadoda
11/8/2019 9:39:16 AM

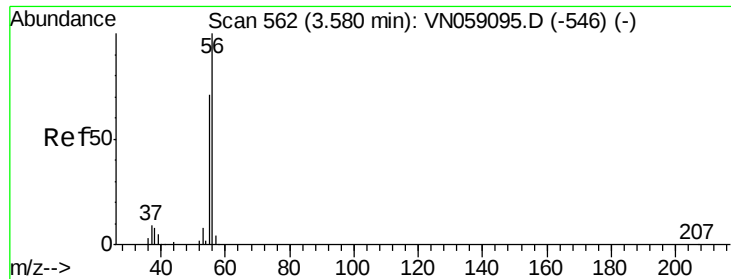


#12

1,1-Dichloroethene
Concen: 20.243 ug/l
RT: 3.71 min Scan# 603
Delta R.T. -0.00 min
Lab File: VN059120.D
Acq: 7 Nov 2019 14:26

Tgt Ion	96	Resp	88963
Ion Ratio	100	Lower	Upper
61	171.3	136.5	204.7
98	61.7	50.2	75.4





#13

Acrolein

Concen: 91.933 ug/l

RT: 3.58 min Scan# 562

Delta R.T. -0.00 min

Lab File: VN059120.D

Acq: 7 Nov 2019 14:26

Instrument :

MSVOA_N

ClientSampleId :

VN1107WBS02

Tot Ion: 56 Resp: 52312

Ion Ratio Lower Upper

56 100

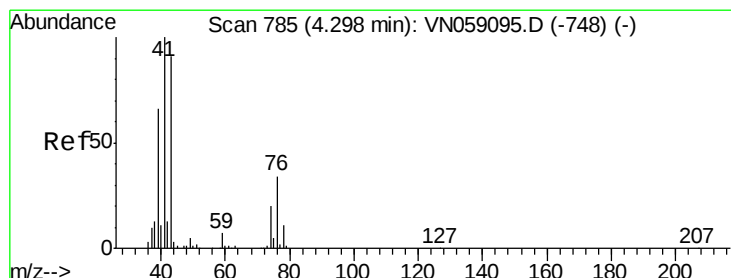
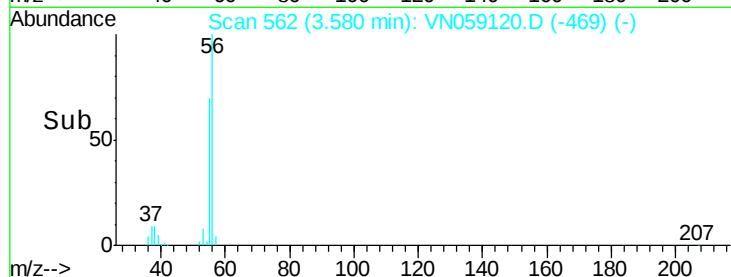
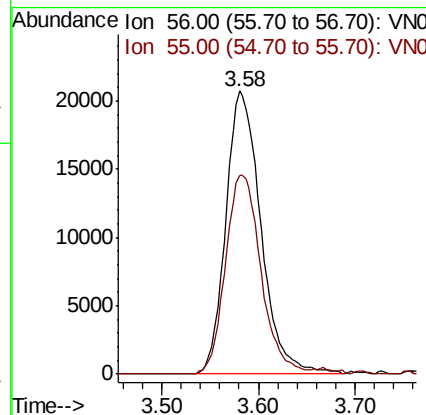
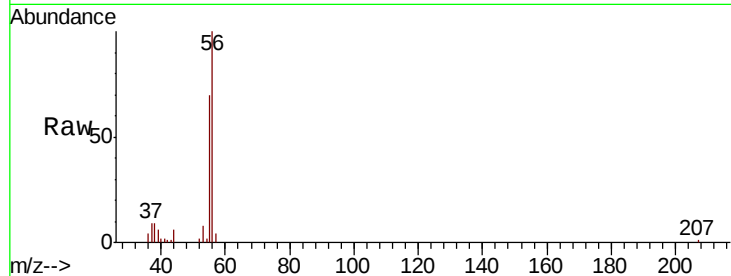
55 71.1 56.4 84.6

Manual Integrations

APPROVED

MMDadoda

11/8/2019 9:39:16 AM



#14

Allyl chloride

Concen: 19.460 ug/l

RT: 4.30 min Scan# 785

Delta R.T. -0.00 min

Lab File: VN059120.D

Acq: 7 Nov 2019 14:26

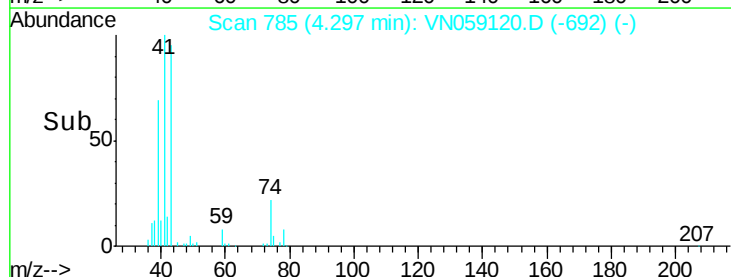
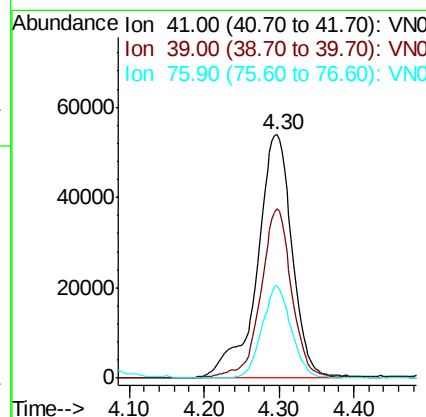
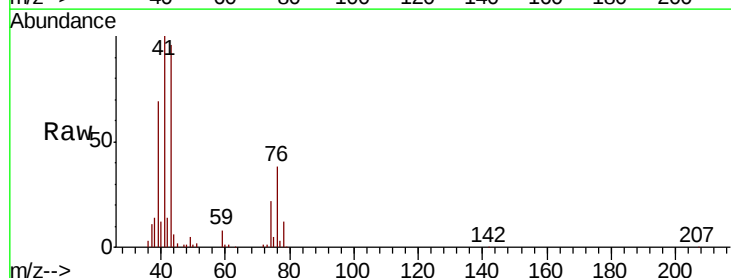
Tgt Ion: 41 Resp: 175667

Ion Ratio Lower Upper

41 100

39 61.4 49.1 73.7

76 31.6 24.9 37.3





#15

Acrylonitrile

Concen: 107.214 ug/l

RT: 4.96 min Scan# 990

Delta R.T. 0.00 min

Lab File: VN059120.D

Acq: 7 Nov 2019 14:26

Instrument :

MSVOA_N

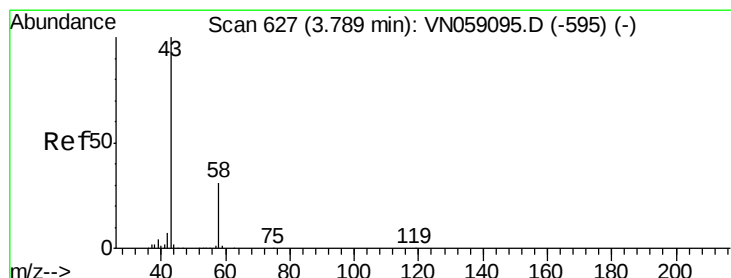
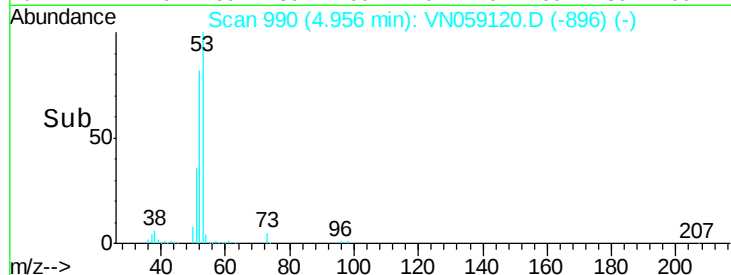
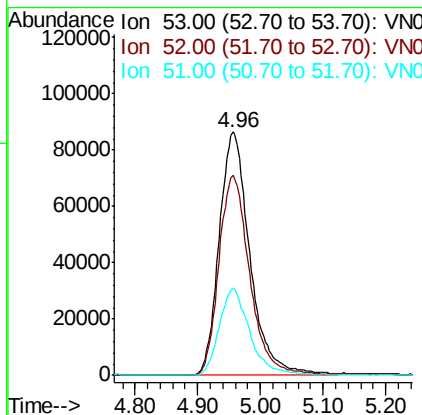
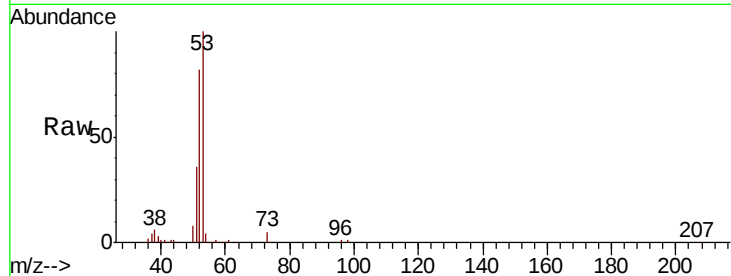
ClientSampleId :

VN1107WBS02

Tot Ion:	53	Resp:	294476
Ion Ratio		Lower	Upper
53	100		
52	82.2	65.0	97.6
51	35.5	28.0	42.0

Manual Integrations
APPROVED

MMDadoda
11/8/2019 9:39:16 AM



#16

Acetone

Concen: 99.267 ug/l

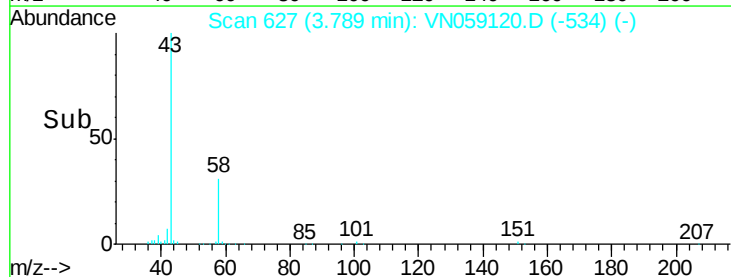
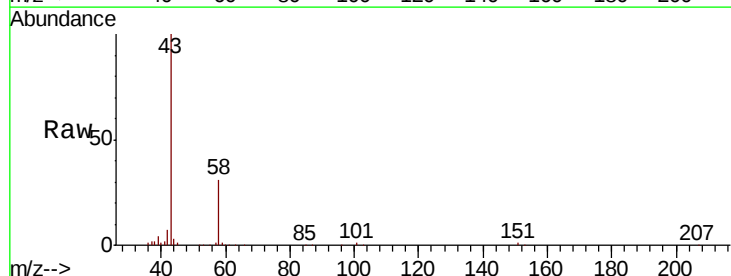
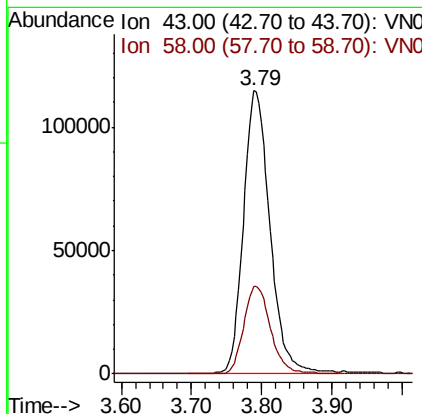
RT: 3.79 min Scan# 627

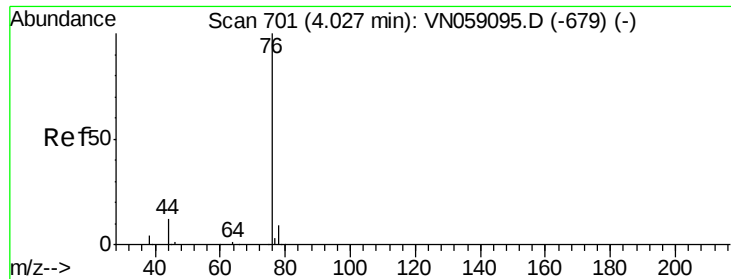
Delta R.T. -0.00 min

Lab File: VN059120.D

Acq: 7 Nov 2019 14:26

Tgt Ion:	43	Resp:	298942
Ion Ratio		Lower	Upper
43	100		
58	30.9	24.9	37.3





#17

Carbon Disulfide

Concen: 18.756 ug/l

RT: 4.03 min Scan# 701

Delta R.T. -0.00 min

Lab File: VN059120.D

Acq: 7 Nov 2019 14:26

Instrument :

MSVOA_N

ClientSampleId :

VN1107WBS02

Tot Ion: 76 Resp: 255874

Ion Ratio Lower Upper

76 100

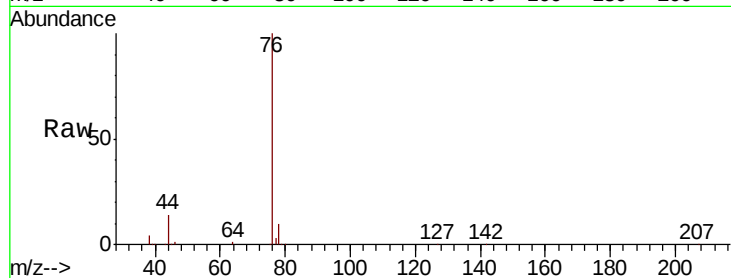
78 9.8 7.4 11.0

Manual Integrations

APPROVED

MMDadoda

11/8/2019 9:39:16 AM



Abundance Ion 75.90 (75.60 to 76.60): VNO

Ion 77.90 (77.60 to 78.60): VNO

4.03

100000

80000

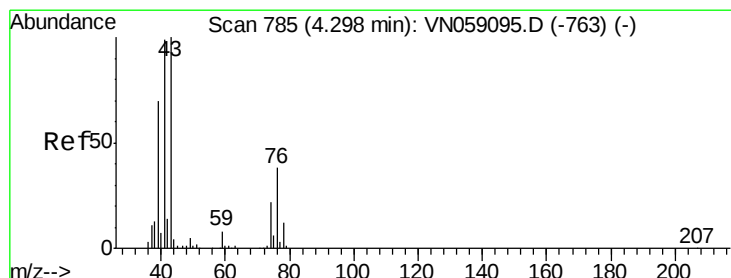
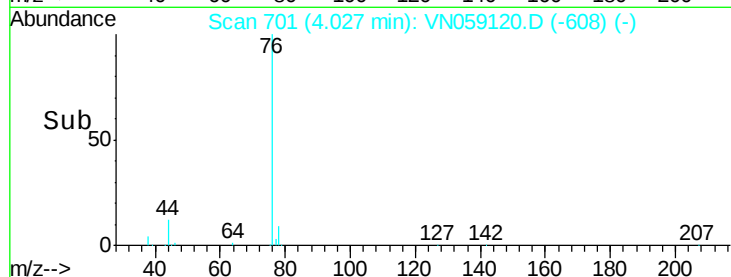
60000

40000

20000

0

Time-->



#18

Methyl Acetate

Concen: 21.621 ug/l

RT: 4.30 min Scan# 786

Delta R.T. 0.00 min

Lab File: VN059120.D

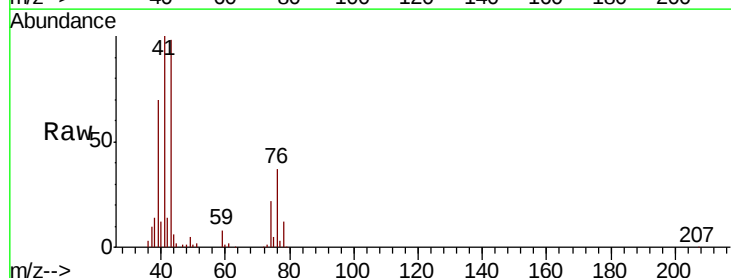
Acq: 7 Nov 2019 14:26

Tgt Ion: 43 Resp: 154545

Ion Ratio Lower Upper

43 100

74 21.7 17.8 26.8



Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 74.00 (73.70 to 74.70): VNO

4.30

60000

50000

40000

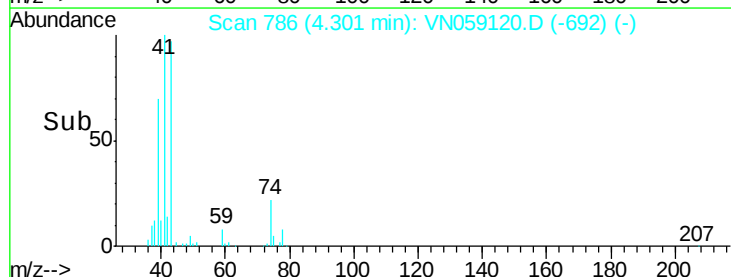
30000

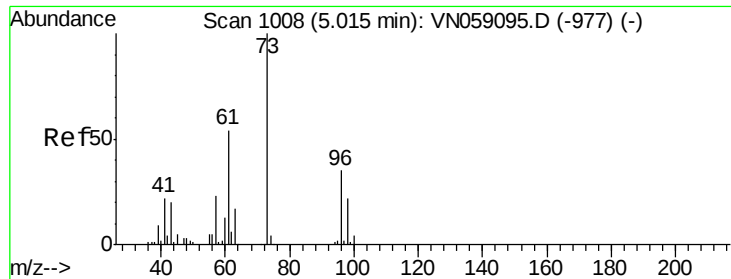
20000

10000

0

Time-->





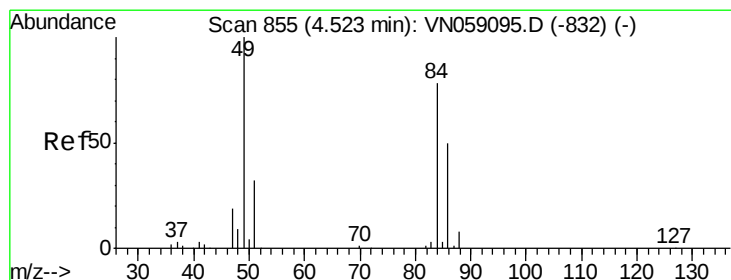
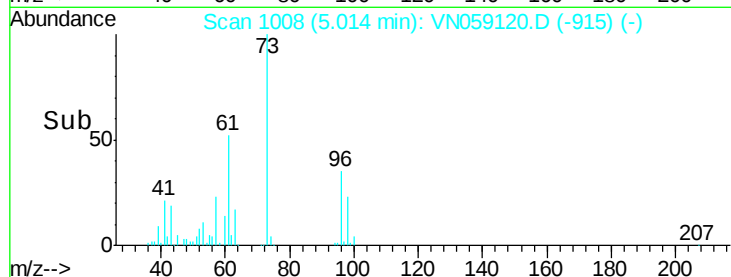
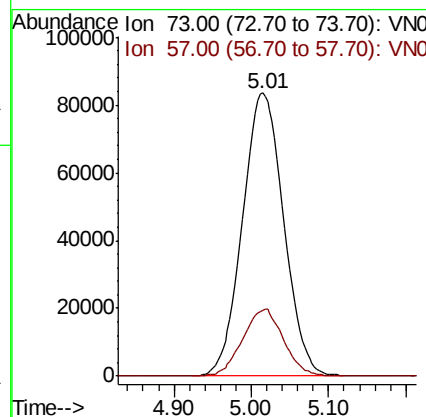
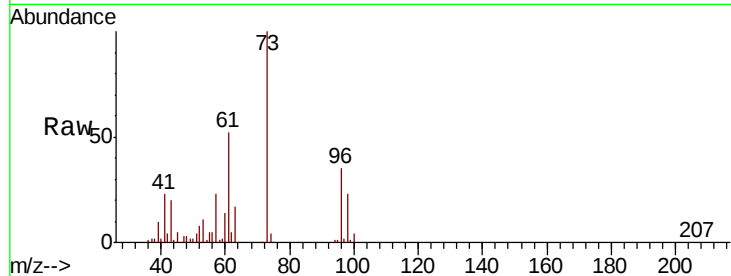
#19
Methvl tert-butvl Ether
Concen: 20.511 ug/l
RT: 5.01 min Scan# 1008
Delta R.T. -0.00 min
Lab File: VN059120.D
Acq: 7 Nov 2019 14:26

Instrument :
MSVOA_N
ClientSampleId :
VN1107WBS02

Tot Ion: 73 Resp: 310340
Ion Ratio Lower Upper
73 100
57 23.4 18.4 27.6

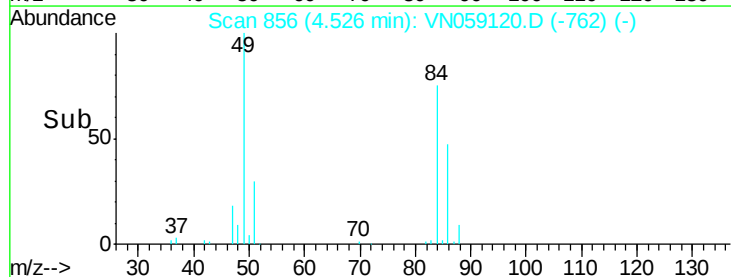
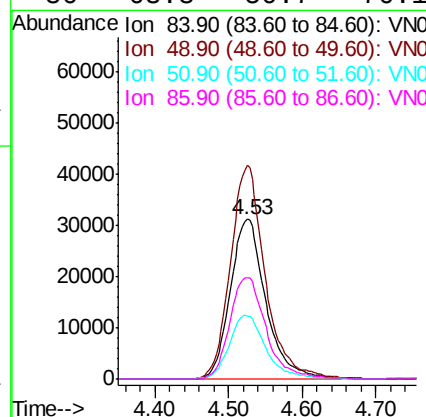
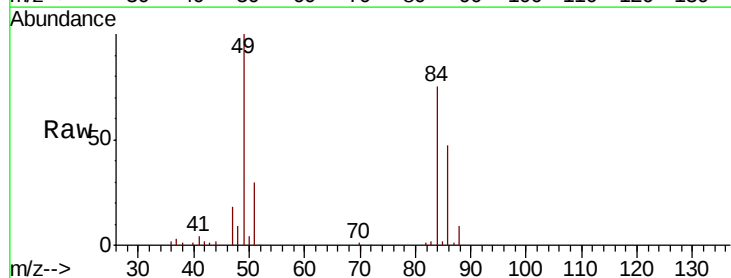
Manual Integrations
APPROVED

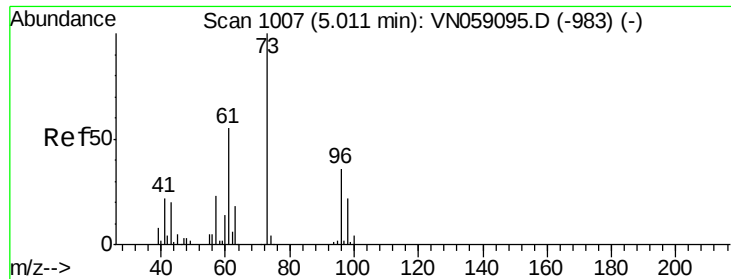
MMDadoda
11/8/2019 9:39:16 AM



#20
Methylene Chloride
Concen: 19.942 ug/l
RT: 4.53 min Scan# 856
Delta R.T. 0.00 min
Lab File: VN059120.D
Acq: 7 Nov 2019 14:26

Tgt Ion: 84 Resp: 104626
Ion Ratio Lower Upper
84 100
49 133.5 102.0 153.0
51 39.5 32.2 48.2
86 63.3 50.7 76.1





#21

trans-1,2-Dichloroethene

Concen: 20.186 ug/l

RT: 5.01 min Scan# 1006

Delta R.T. -0.00 min

Lab File: VN059120.D

Acq: 7 Nov 2019 14:26

Instrument :

MSVOA_N

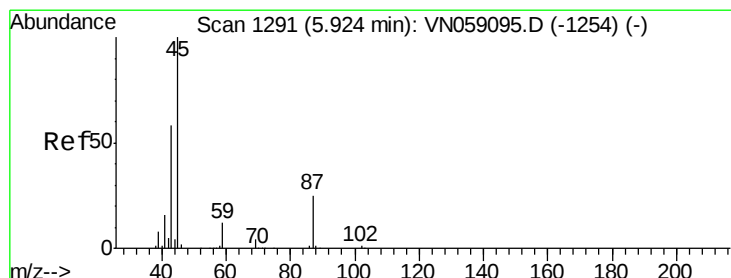
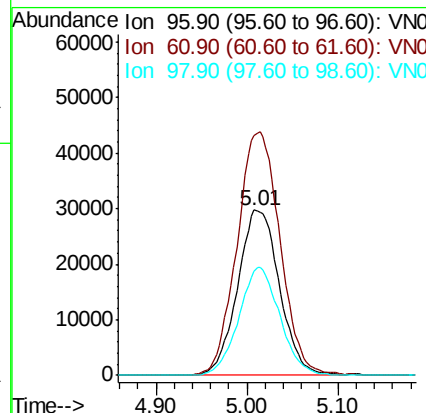
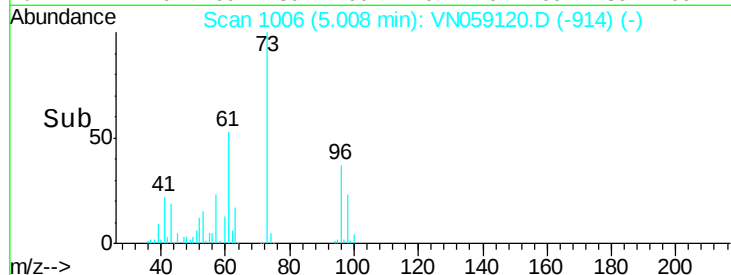
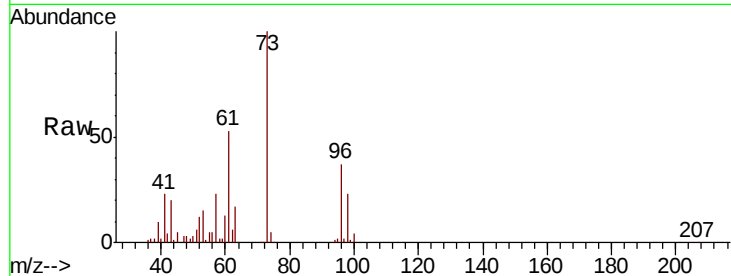
ClientSampleId :

VN1107WBS02

Tot Ion:	96	Resp:	95220
Ion	Ratio	Lower	Upper
96	100		
61	144.3	122.6	183.8
98	63.1	50.3	75.5

Manual Integrations
APPROVED

MMDadoda
11/8/2019 9:39:16 AM



#22

Diisopropyl ether

Concen: 20.545 ug/l

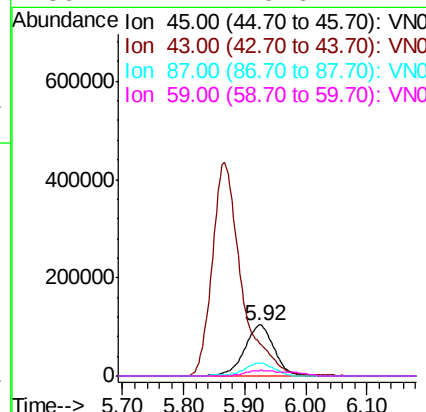
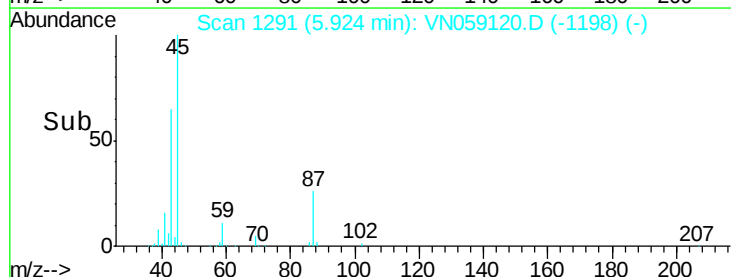
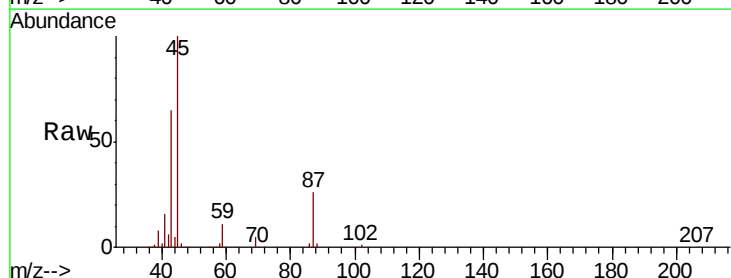
RT: 5.92 min Scan# 1291

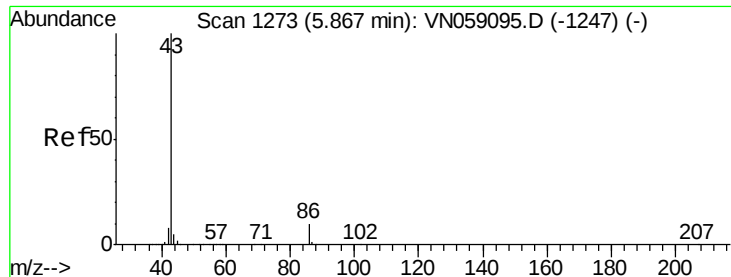
Delta R.T. -0.00 min

Lab File: VN059120.D

Acq: 7 Nov 2019 14:26

Tgt Ion:	45	Resp:	350321
Ion	Ratio	Lower	Upper
45	100		
43	64.0	46.7	70.1
87	25.7	20.5	30.7
59	11.4	9.6	14.4





#23

Vinyl Acetate

Concen: 109.261 ug/l

RT: 5.87 min Scan# 1273

Delta R.T. -0.00 min

Lab File: VN059120.D

Acq: 7 Nov 2019 14:26

Instrument :

MSVOA_N

ClientSampleId :

VN1107WBS02

Tot Ion: 43 Resp: 1443876

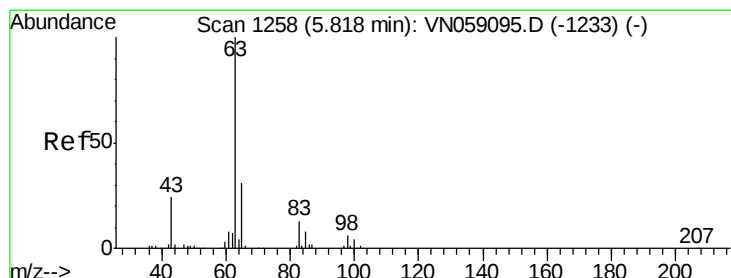
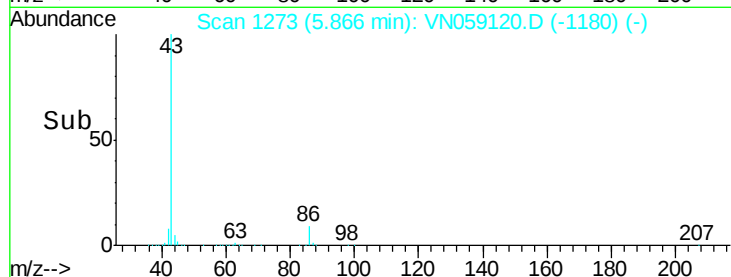
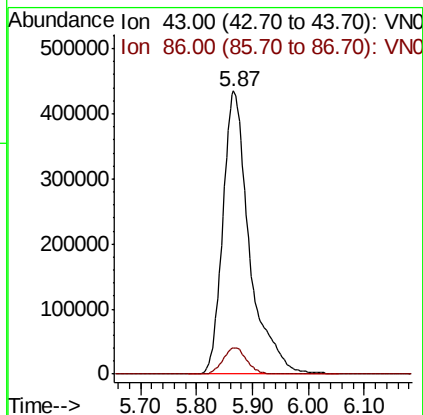
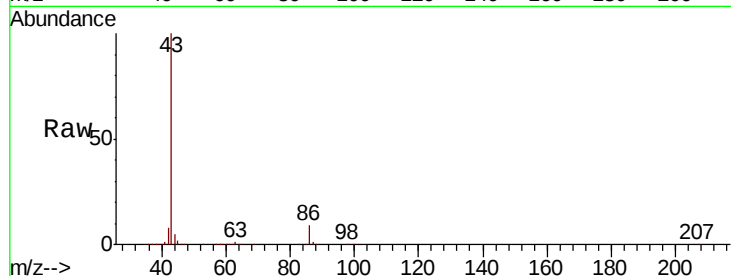
Ion Ratio Lower Upper

43 100

86 9.4 7.7 11.5

Manual Integrations
APPROVED

MMDadoda
11/8/2019 9:39:16 AM



#24

1,1-Dichloroethane

Concen: 20.167 ug/l

RT: 5.82 min Scan# 1259

Delta R.T. 0.00 min

Lab File: VN059120.D

Acq: 7 Nov 2019 14:26

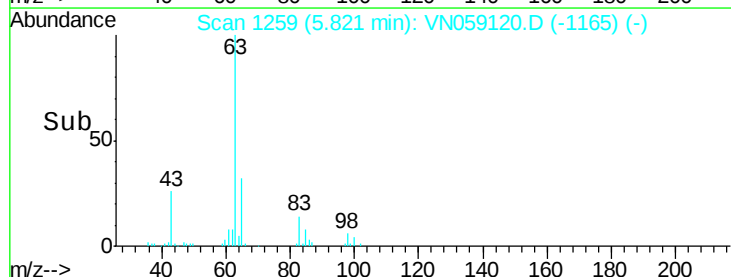
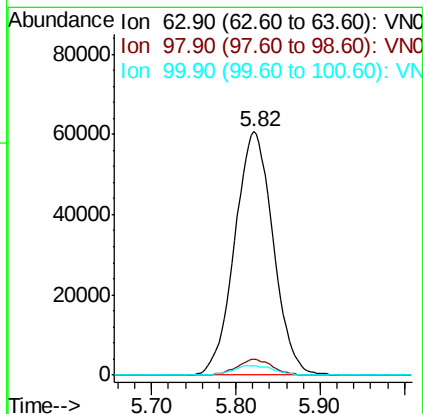
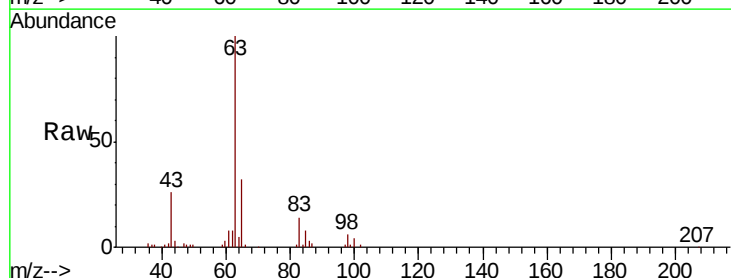
Tgt Ion: 63 Resp: 192060

Ion Ratio Lower Upper

63 100

98 6.4 2.8 8.4

100 4.0 1.9 5.7





#25

2-Butanone

Concen: 103.981 ug/l

RT: 6.81 min Scan# 1566

Delta R.T. -0.00 min

Lab File: VN059120.D

Acq: 7 Nov 2019 14:26

Instrument :

MSVOA_N

ClientSampleId :

VN1107WBS02

Tot Ion: 43 Resp: 412696

Ion Ratio Lower Upper

43 100

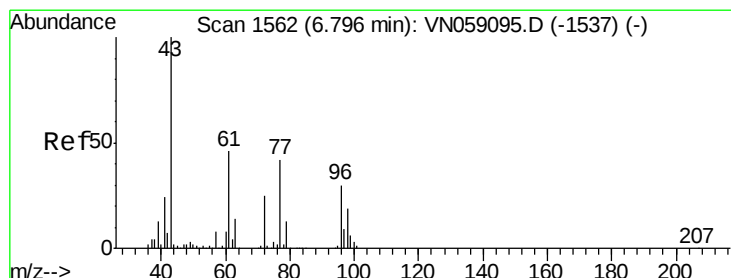
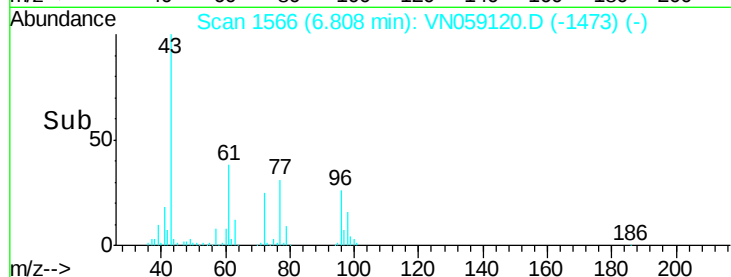
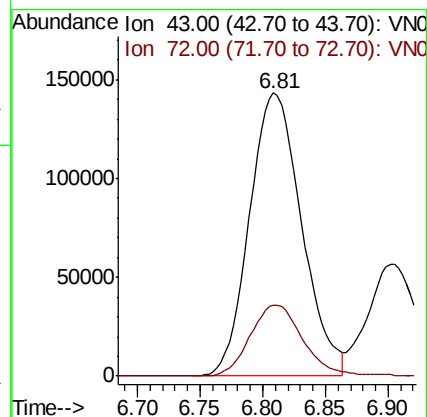
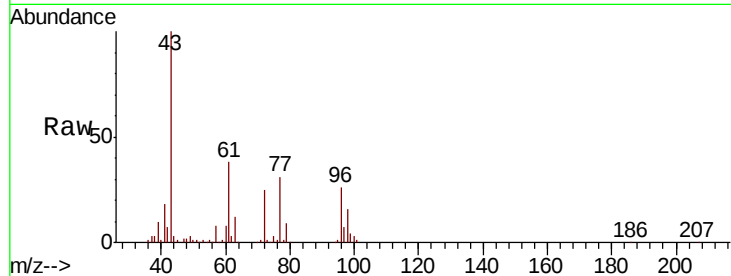
72 25.0 20.3 30.5

Manual Integrations

APPROVED

MMDadoda

11/8/2019 9:39:16 AM



#26

2,2-Dichloropropane

Concen: 19.331 ug/l

RT: 6.80 min Scan# 1563

Delta R.T. 0.00 min

Lab File: VN059120.D

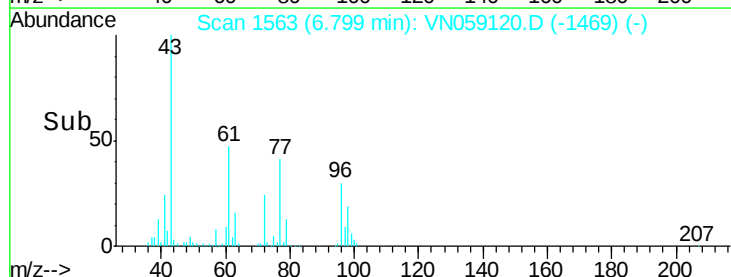
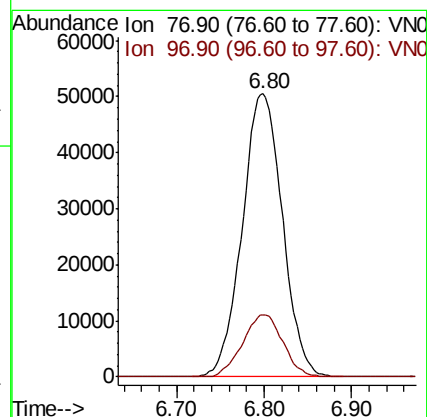
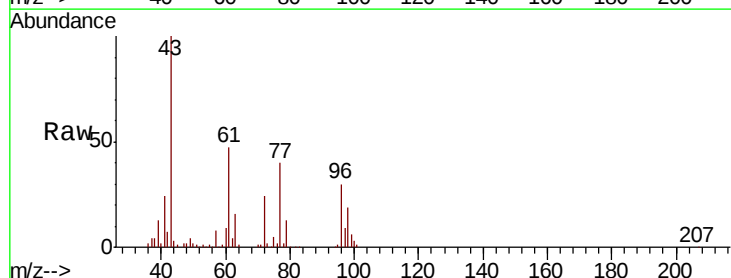
Acq: 7 Nov 2019 14:26

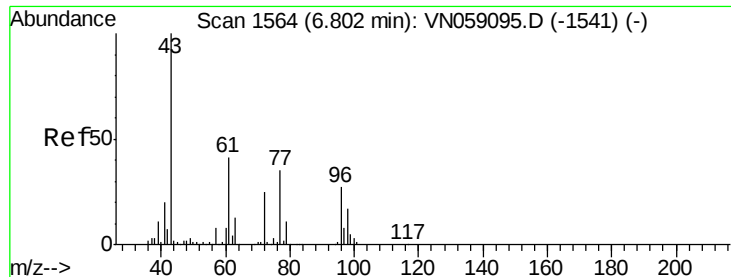
Tgt Ion: 77 Resp: 160977

Ion Ratio Lower Upper

77 100

97 22.0 11.2 33.6





#27

cis-1,2-Dichloroethene

Concen: 20.393 ug/l

RT: 6.81 min Scan# 1565

Delta R.T. 0.00 min

Lab File: VN059120.D

Acq: 7 Nov 2019 14:26

Instrument :

MSVOA_N

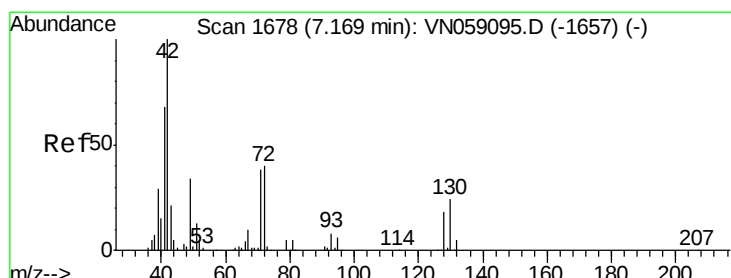
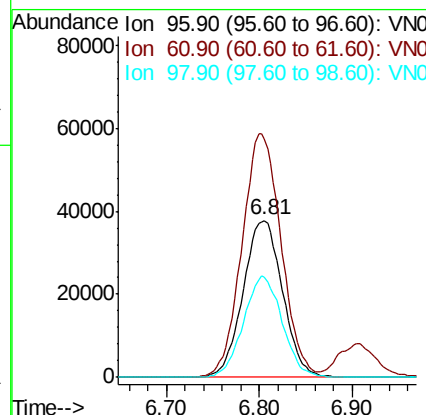
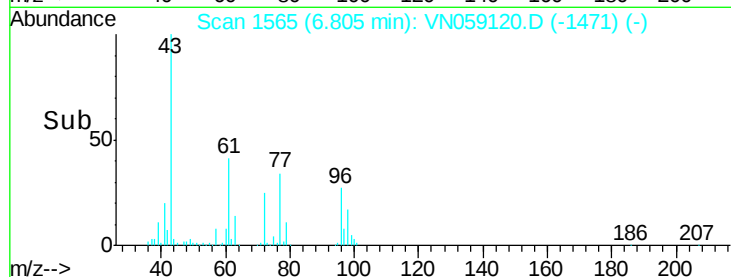
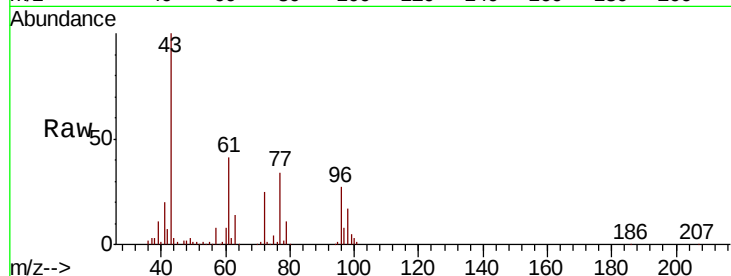
ClientSampleId :

VN1107WBS02

Tot Ion:	96	Resp:	111605
Ion Ratio	Lower	Upper	
96	100		
61	154.0	0.0	311.6
98	63.0	0.0	129.8

Manual Integrations
APPROVED

MMDadoda
11/8/2019 9:39:16 AM



#28

Bromochloromethane

Concen: 21.019 ug/l

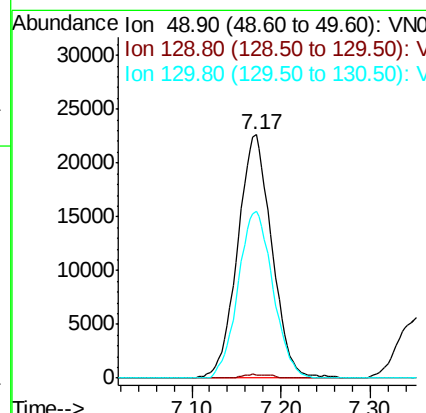
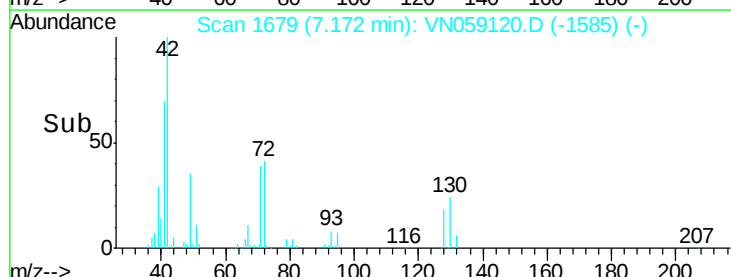
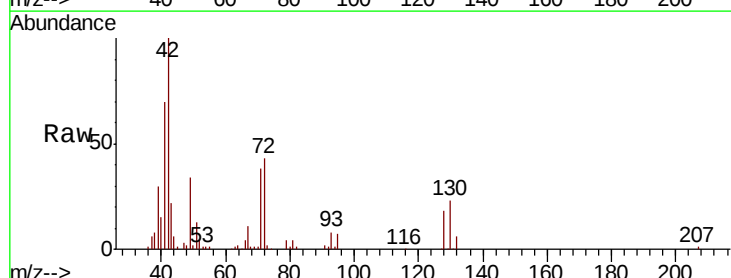
RT: 7.17 min Scan# 1679

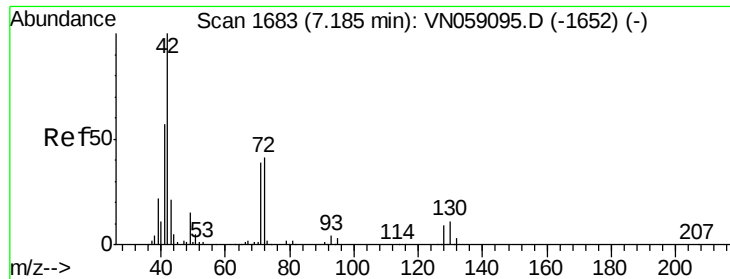
Delta R.T. 0.00 min

Lab File: VN059120.D

Acq: 7 Nov 2019 14:26

Tgt Ion:	49	Resp:	60223
Ion Ratio	Lower	Upper	
49	100		
129	1.2	0.0	3.8
130	69.4	55.6	83.4





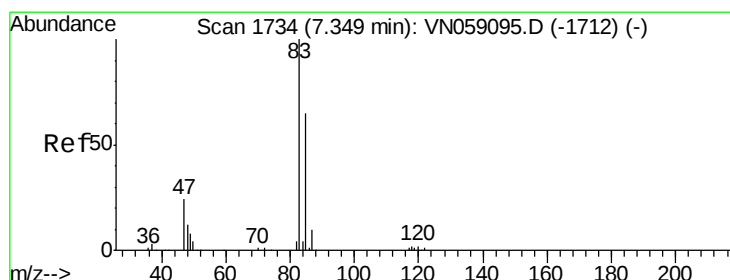
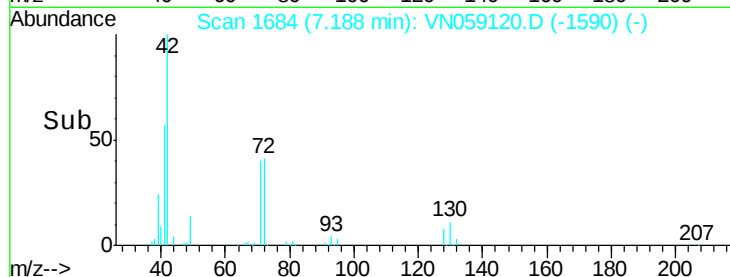
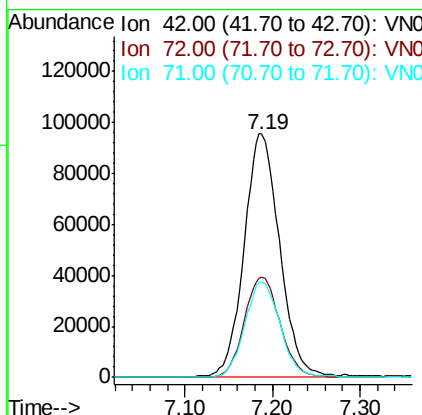
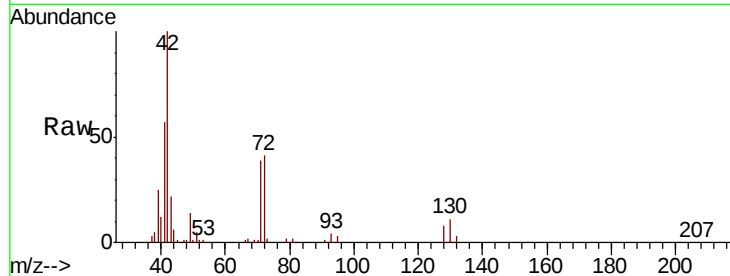
#29
Tetrahydrofuran
Concen: 106.200 ug/l
RT: 7.19 min Scan# 1684
Delta R.T. 0.00 min
Lab File: VN059120.D
Acq: 7 Nov 2019 14:26

Instrument :
MSVOA_N
ClientSampleId :
VN1107WBS02

Tot Ion	Ratio	Lower	Upper
42	100		
72	41.6	33.1	49.7
71	39.1	30.9	46.3

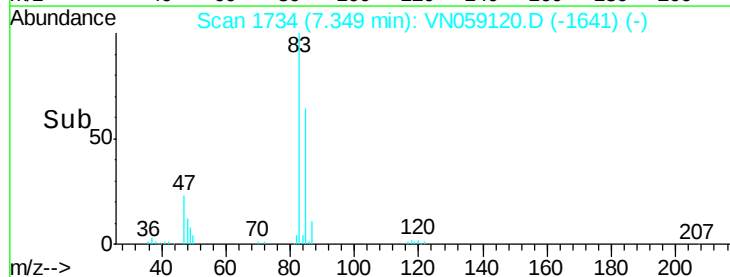
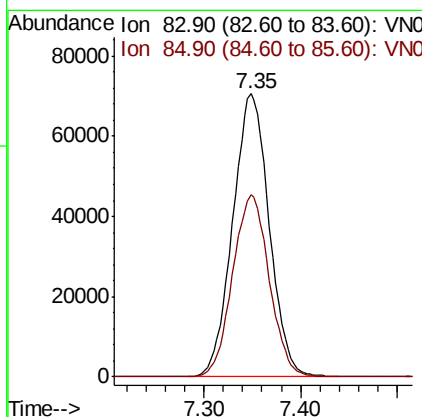
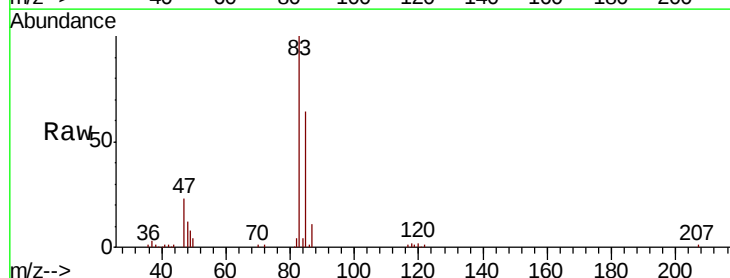
Manual Integrations
APPROVED

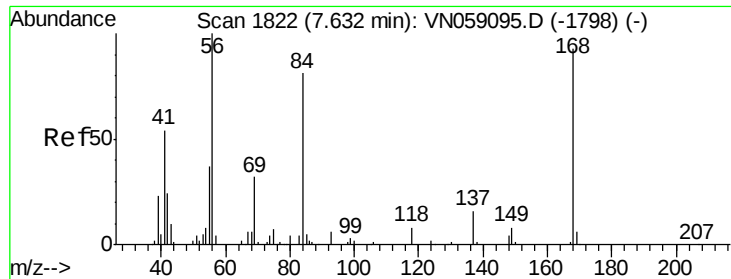
MMDadoda
11/8/2019 9:39:16 AM



#30
Chloroform
Concen: 20.238 ug/l
RT: 7.35 min Scan# 1734
Delta R.T. -0.00 min
Lab File: VN059120.D
Acq: 7 Nov 2019 14:26

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.4	51.8	77.8





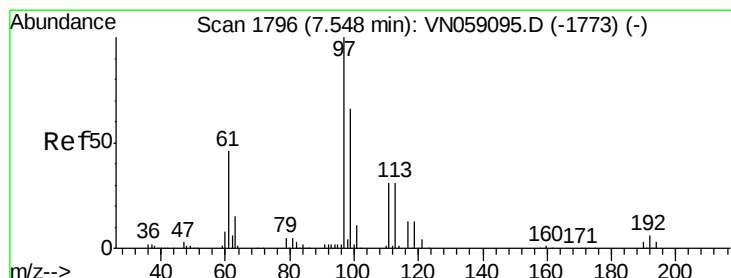
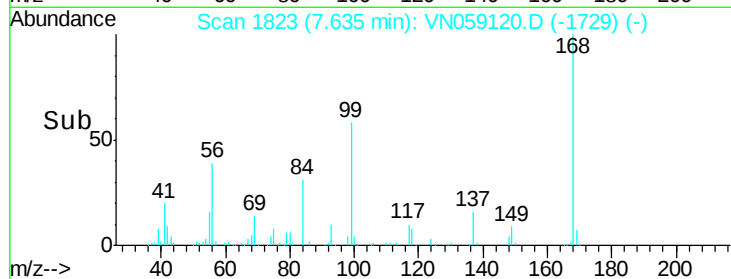
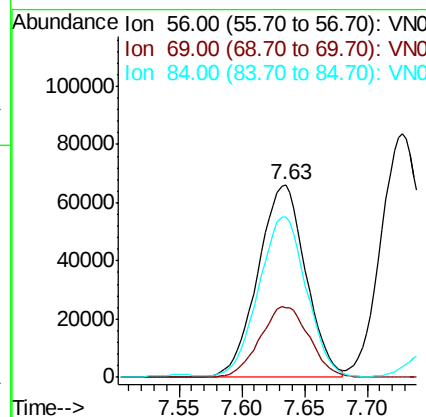
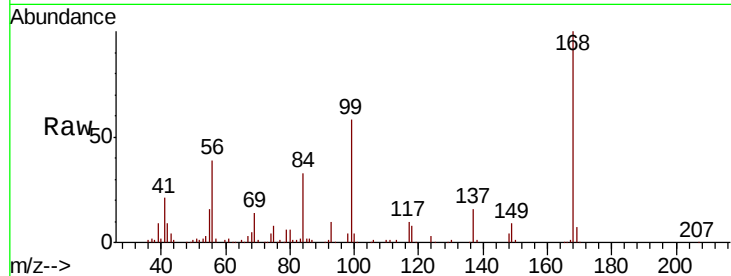
#31
Cyclohexane
Concen: 19.469 ug/l
RT: 7.63 min Scan# 1823
Delta R.T. 0.00 min
Lab File: VN059120.D
Acq: 7 Nov 2019 14:26

Instrument :
MSVOA_N
ClientSampleId :
VN1107WBS02

Tot Ion	Ratio	Lower	Upper
56	100		
69	36.3	25.8	38.8
84	82.1	65.0	97.4

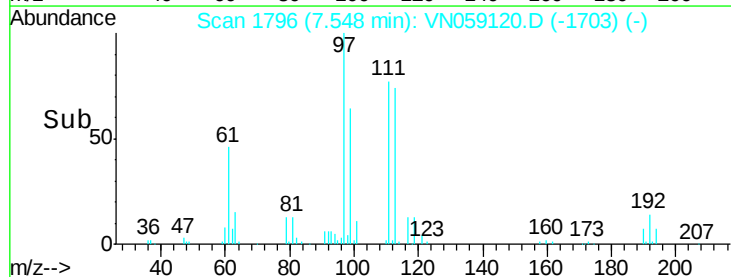
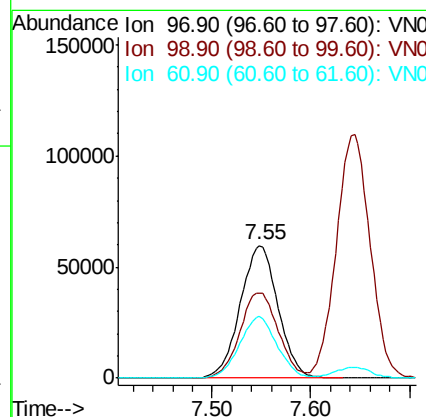
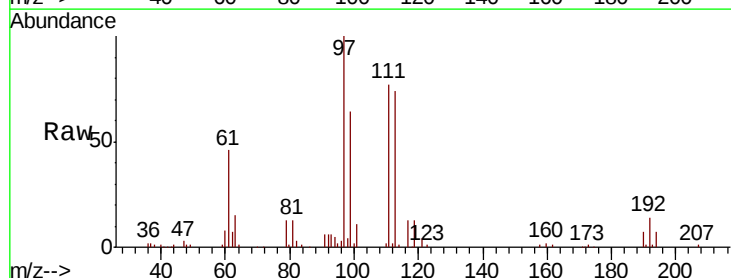
Manual Integrations
APPROVED

MMDadoda
11/8/2019 9:39:16 AM



#32
1,1,1-Trichloroethane
Concen: 20.600 ug/l
RT: 7.55 min Scan# 1796
Delta R.T. -0.00 min
Lab File: VN059120.D
Acq: 7 Nov 2019 14:26

Tgt Ion	Ratio	Lower	Upper
97	100		
99	65.5	51.0	76.6
61	46.0	35.8	53.8





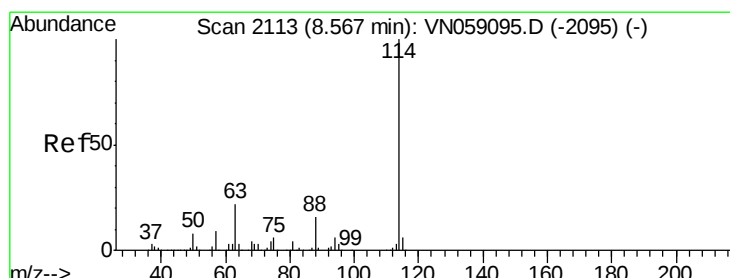
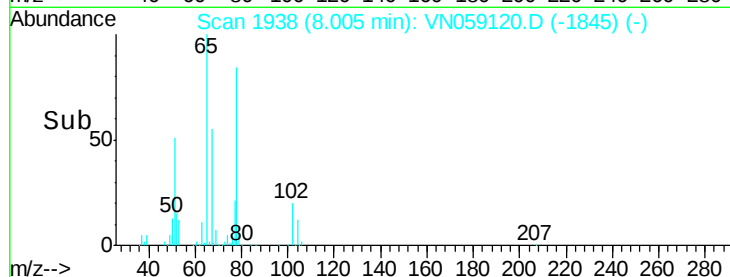
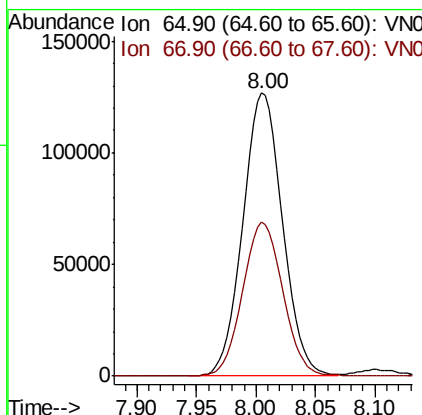
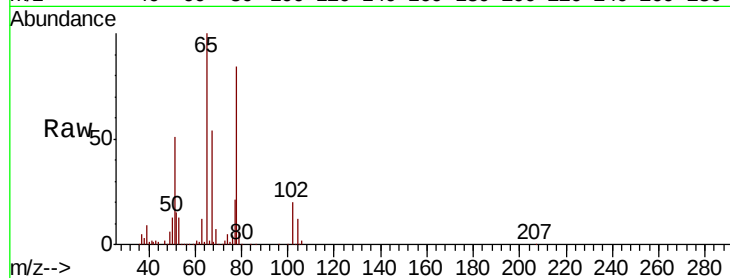
#33
 1,2-Dichloroethane-d4
 Concen: 50.593 ug/l
 RT: 8.00 min Scan# 1938
 Delta R.T. -0.00 min
 Lab File: VN059120.D
 Acq: 7 Nov 2019 14:26

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1107WBS02

Tot Ion	Ratio	Resp	Lower	Upper
65	100			
67	55.1	0.0	107.4	

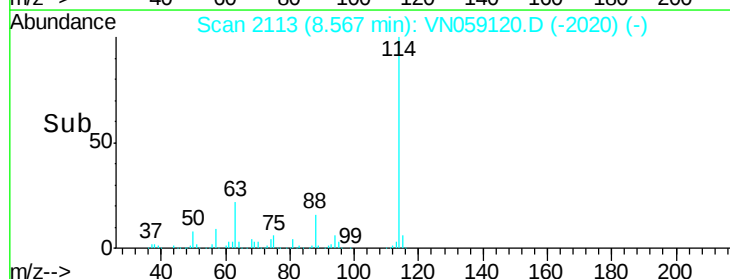
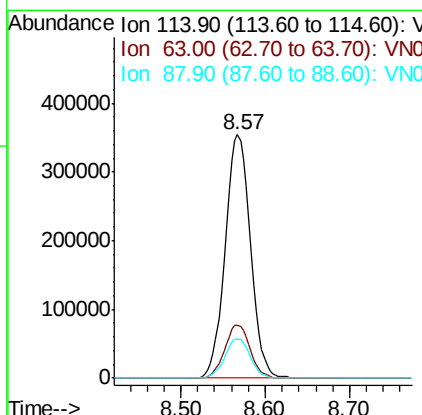
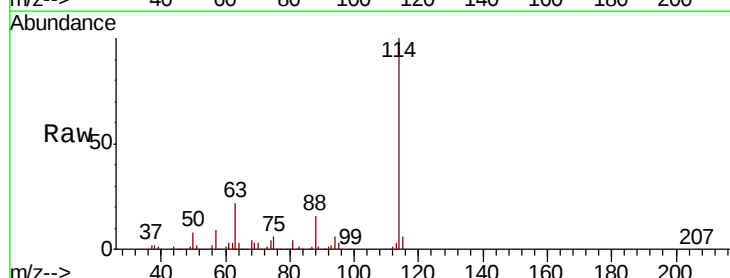
Manual Integrations
 APPROVED

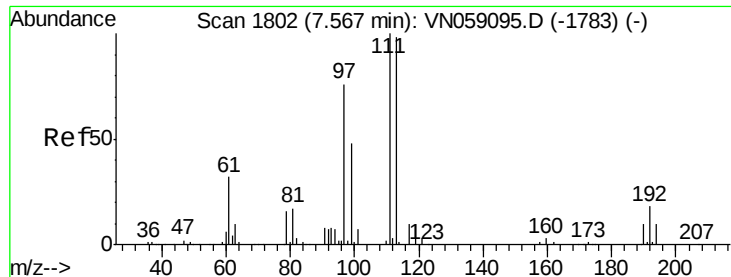
MMDadoda
 11/8/2019 9:39:16 AM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2113
 Delta R.T. -0.00 min
 Lab File: VN059120.D
 Acq: 7 Nov 2019 14:26

Tgt Ion	Ratio	Resp	Lower	Upper
114	100			
63	21.8	0.0	43.4	
88	16.1	0.0	32.2	





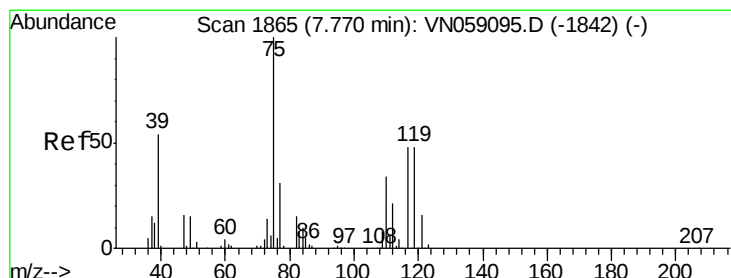
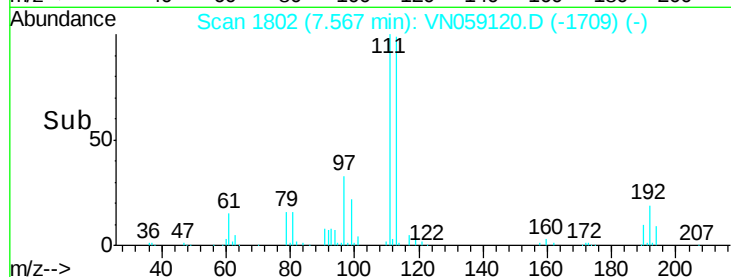
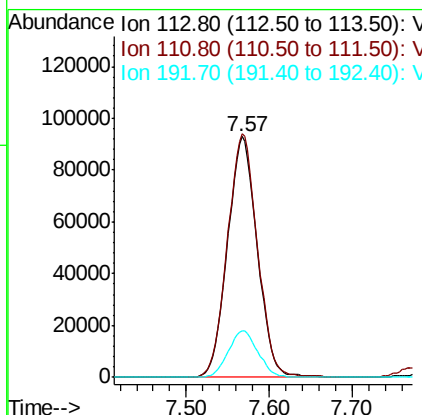
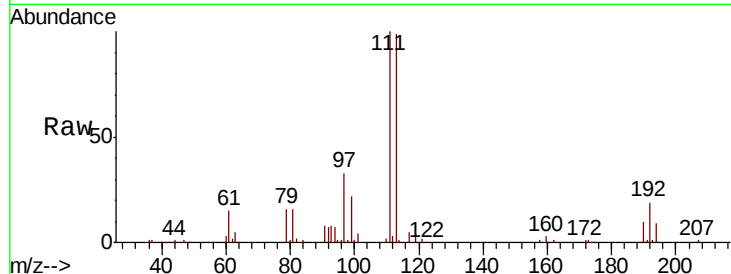
#35
Dibromofluoromethane
Concen: 52.469 ug/l
RT: 7.57 min Scan# 1802
Delta R.T. -0.00 min
Lab File: VN059120.D
Acq: 7 Nov 2019 14:26

Instrument :
MSVOA_N
ClientSampleId :
VN1107WBS02

Tot Ion	Ratio	Resp	Lower	Upper
113	100	231242		
111	102.5	82.8	124.2	
192	19.4	16.1	24.1	

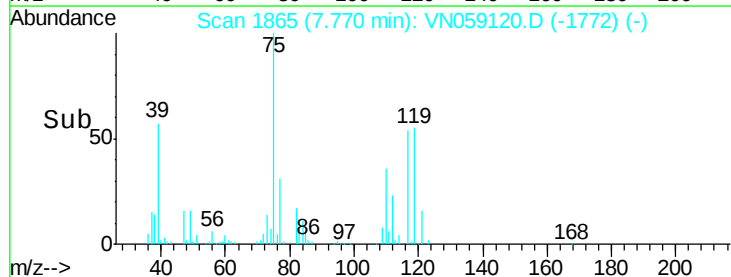
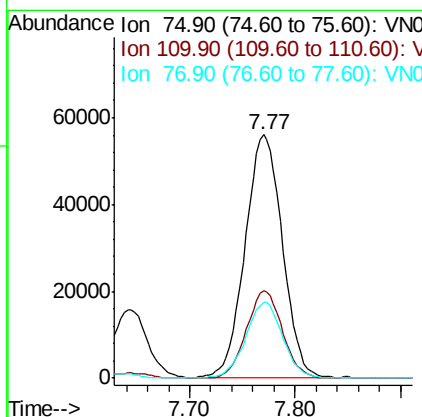
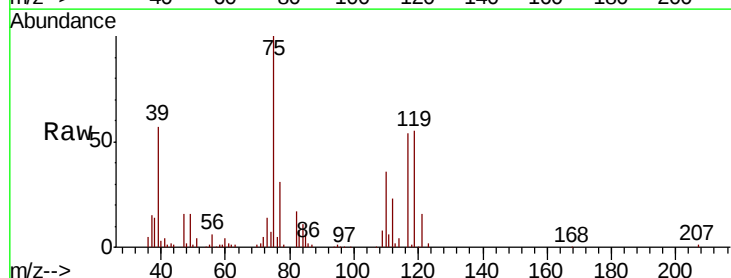
Manual Integrations
APPROVED

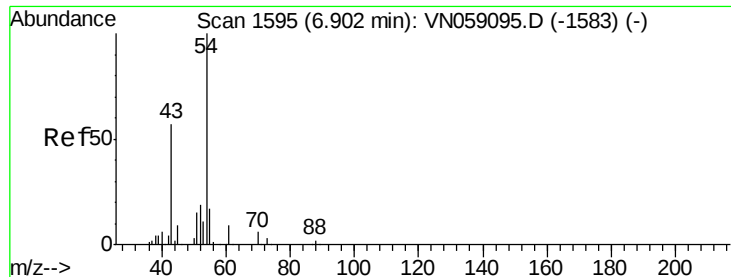
MMDadoda
11/8/2019 9:39:16 AM



#36
1,1-Dichloropropene
Concen: 20.070 ug/l
RT: 7.77 min Scan# 1865
Delta R.T. -0.00 min
Lab File: VN059120.D
Acq: 7 Nov 2019 14:26

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	138463		
110	34.4	17.1	51.2	
77	30.8	24.8	37.2	





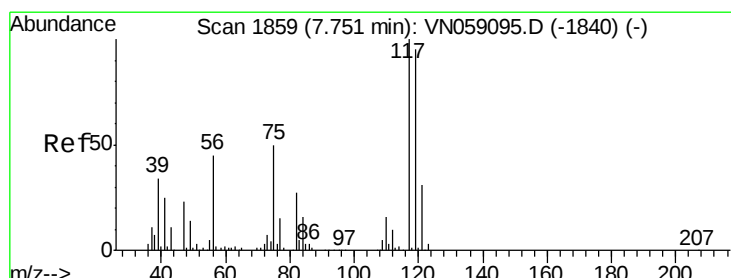
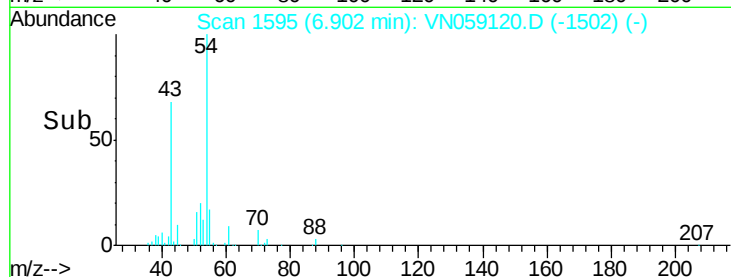
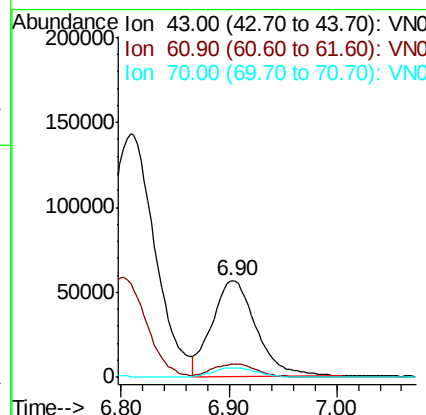
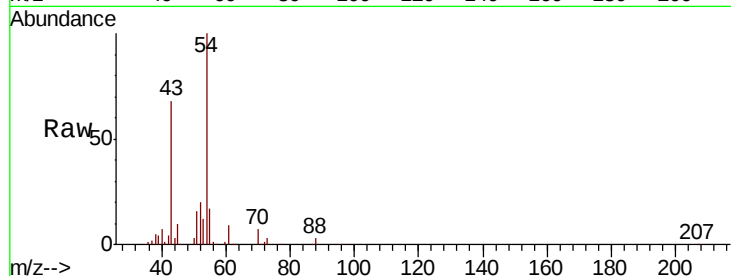
#37
Ethyl Acetate
Concen: 20.836 ug/l
RT: 6.90 min Scan# 1595
Delta R.T. -0.00 min
Lab File: VN059120.D
Acq: 7 Nov 2019 14:26

Instrument :
MSVOA_N
ClientSampleId :
VN1107WBS02

Tot Ion	Ratio	Lower	Upper
43	100		
61	14.7	11.2	16.8
70	10.3	7.8	11.8

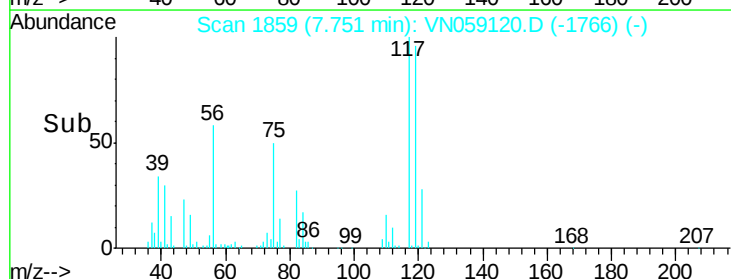
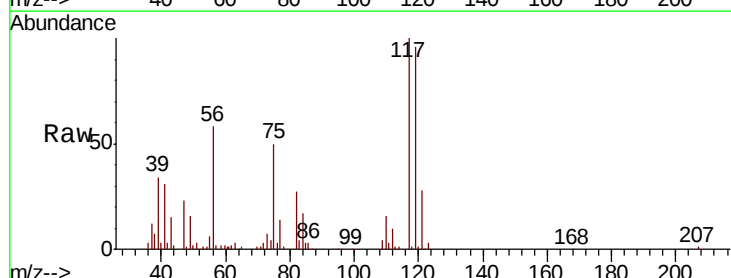
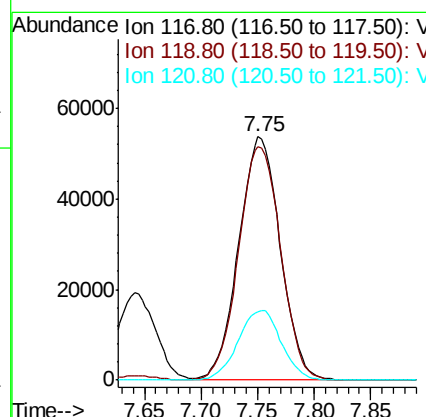
Manual Integrations
APPROVED

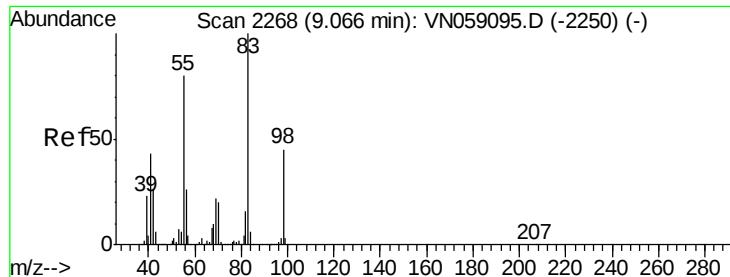
MMDadoda
11/8/2019 9:39:16 AM



#38
Carbon Tetrachloride
Concen: 19.988 ug/l
RT: 7.75 min Scan# 1859
Delta R.T. -0.00 min
Lab File: VN059120.D
Acq: 7 Nov 2019 14:26

Tgt Ion	Ratio	Lower	Upper
117	100		
119	96.0	75.6	113.4
121	28.1	24.6	36.8





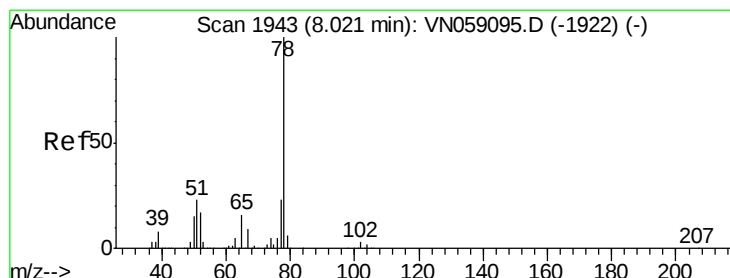
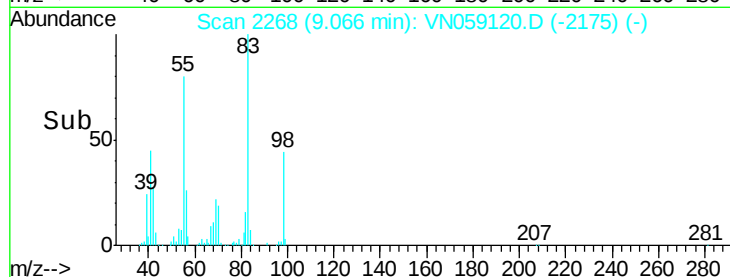
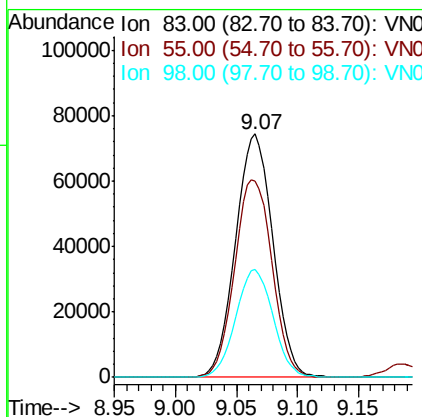
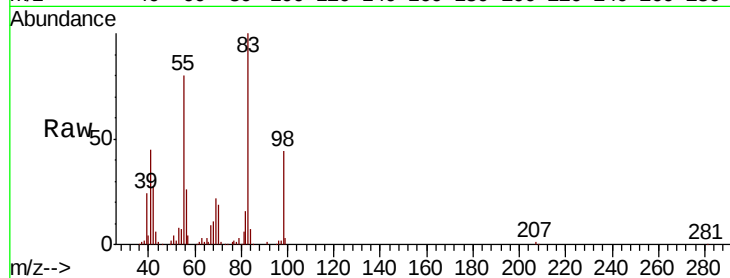
#39
Methvlcvclohexane
Concen: 19.726 ug/l
RT: 9.07 min Scan# 2268
Delta R.T. -0.00 min
Lab File: VN059120.D
Acq: 7 Nov 2019 14:26

Instrument :
MSVOA_N
ClientSampleId :
VN1107WBS02

Tot Ion	Ratio	Lower	Upper
83	100		
55	80.4	63.9	95.9
98	44.3	35.6	53.4

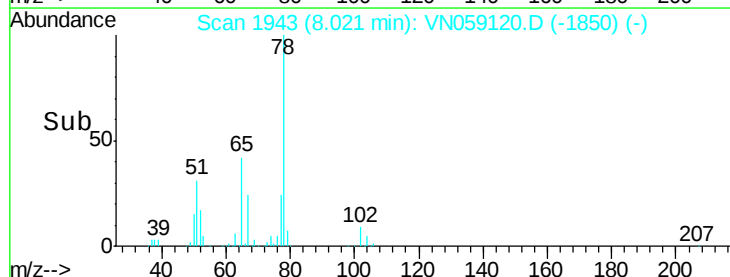
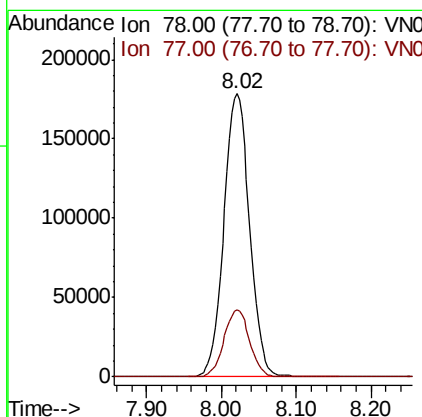
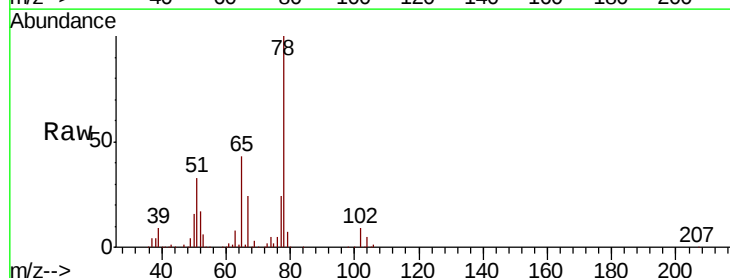
Manual Integrations
APPROVED

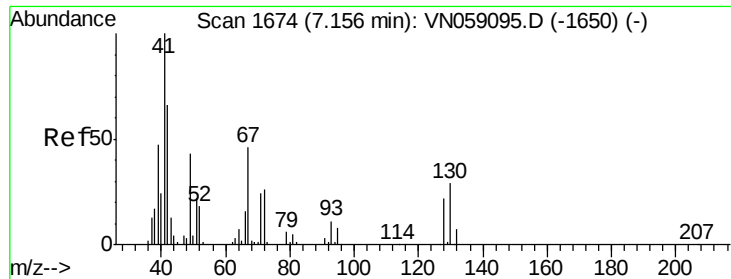
MMDadoda
11/8/2019 9:39:16 AM



#40
Benzene
Concen: 20.389 ug/l
RT: 8.02 min Scan# 1943
Delta R.T. -0.00 min
Lab File: VN059120.D
Acq: 7 Nov 2019 14:26

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.9	18.8	28.2





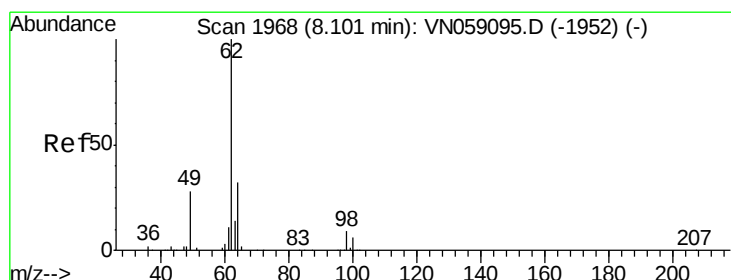
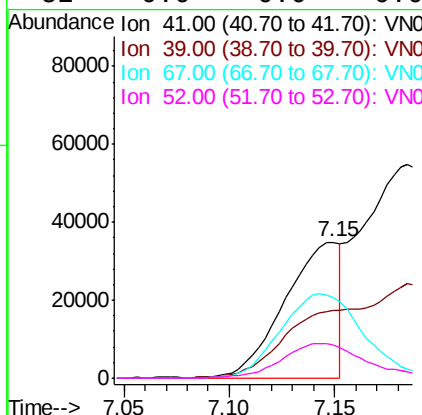
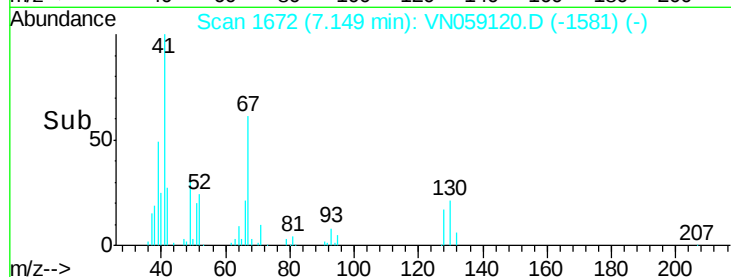
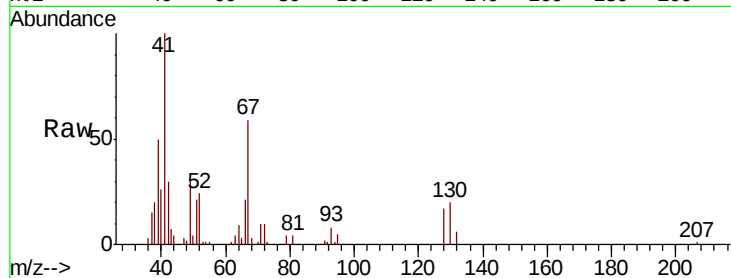
#41
Methacrylonitrile
Concen: 19.281 ug/l m
RT: 7.15 min Scan# 1672
Delta R.T. -0.01 min
Lab File: VN059120.D
Acq: 7 Nov 2019 14:26

Instrument :
MSVOA_N
ClientSampleId :
VN1107WBS02

Tot Ion	Ion	Ratio	Resp	Lower	Upper
41	100		64350		
39	167.1	0.0	0.0	0.0	0.0
67	0.0	0.0	0.0	0.0	0.0
52	0.0	0.0	0.0	0.0	0.0

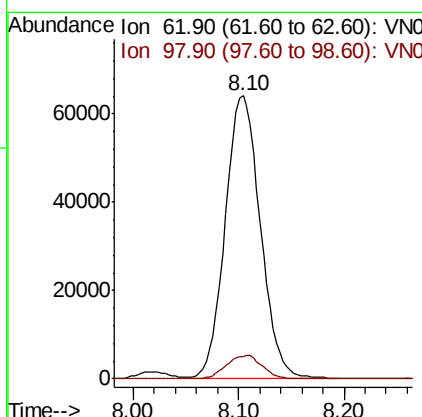
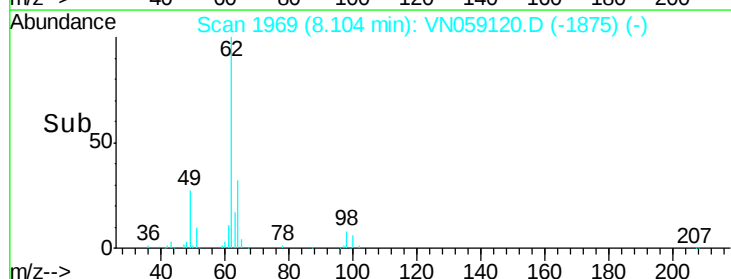
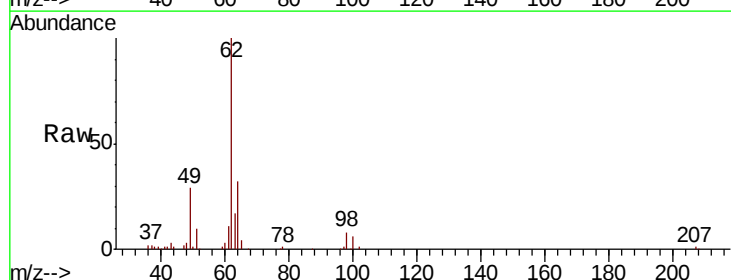
Manual Integrations
APPROVED

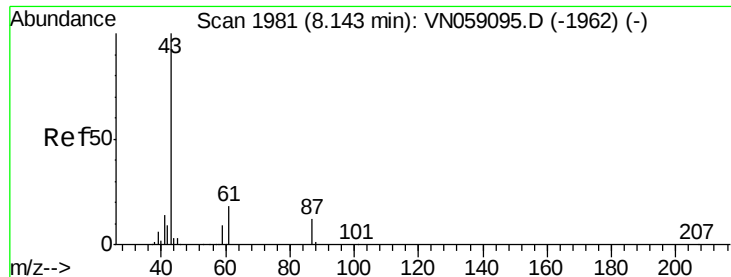
MMDadoda
11/8/2019 9:39:16 AM



#42
1,2-Dichloroethane
Concen: 20.727 ug/l
RT: 8.10 min Scan# 1969
Delta R.T. 0.00 min
Lab File: VN059120.D
Acq: 7 Nov 2019 14:26

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
62	100		147688		
98	8.4	0.0	17.8		





#43

Isopropyl Acetate

Concen: 20.305 ug/l

RT: 8.15 min Scan# 1982

Delta R.T. 0.00 min

Lab File: VN059120.D

Acq: 7 Nov 2019 14:26

Instrument :

MSVOA_N

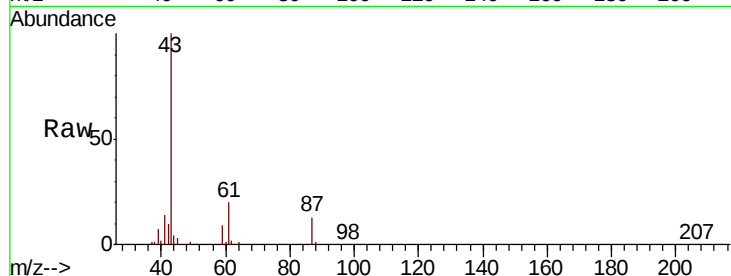
ClientSampleId :

VN1107WBS02

Tot Ion:	43	Resp:	248452
Ion	Ratio	Lower	Upper
43	100		
61	25.8	21.0	31.6
87	12.4	9.8	14.6

Manual Integrations
APPROVED

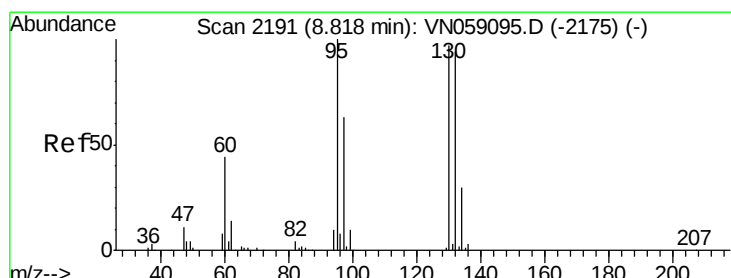
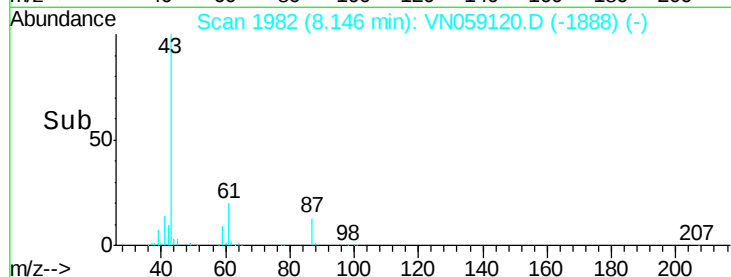
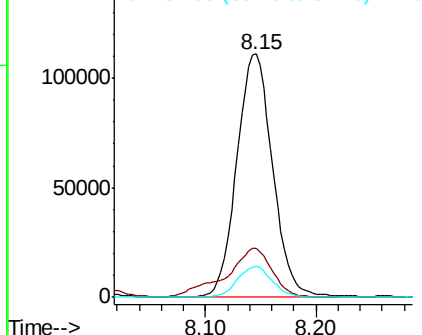
MMDadoda
11/8/2019 9:39:16 AM



Abundance Ion 43.00 (42.70 to 43.70): VN059120.D (-1888) (-)

Ion 61.00 (60.70 to 61.70): VN059120.D (-1888) (-)

Ion 87.00 (86.70 to 87.70): VN059120.D (-1888) (-)



#44

Trichloroethene

Concen: 20.153 ug/l

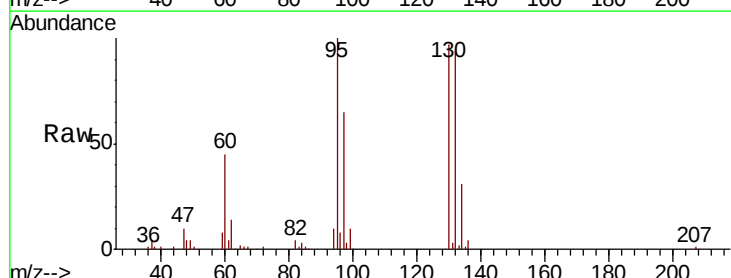
RT: 8.82 min Scan# 2191

Delta R.T. -0.00 min

Lab File: VN059120.D

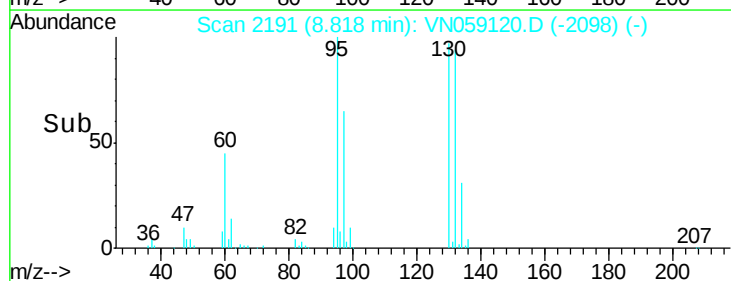
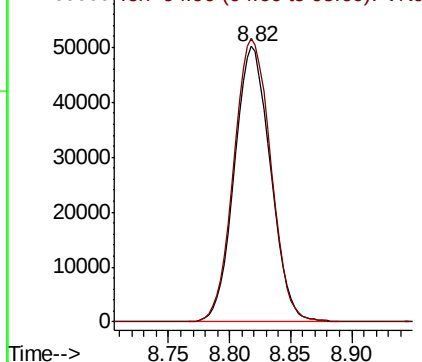
Acq: 7 Nov 2019 14:26

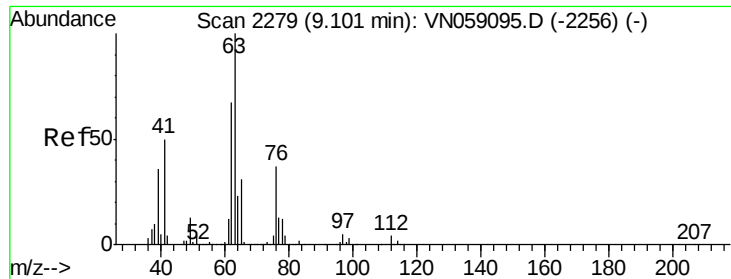
Tgt Ion:	130	Resp:	102921
Ion	Ratio	Lower	Upper
130	100		
95	102.8	0.0	206.4



Abundance Ion 129.80 (129.50 to 130.50): VN059120.D (-2098) (-)

Ion 94.90 (94.60 to 95.60): VN059120.D (-2098) (-)





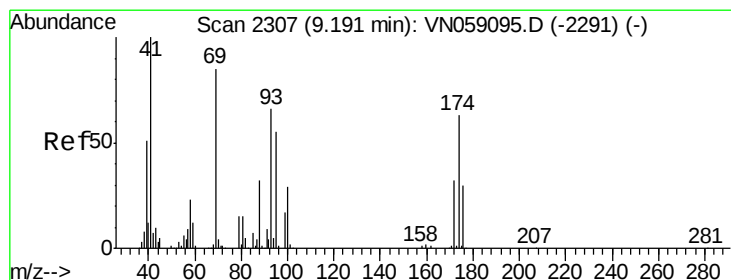
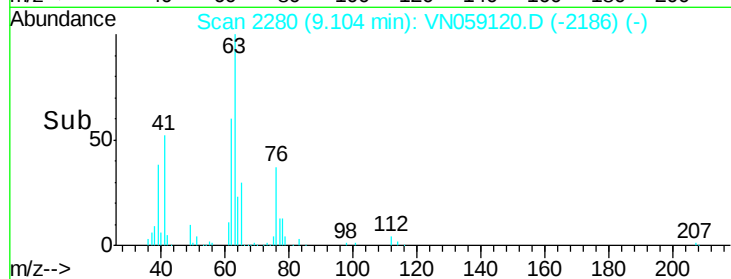
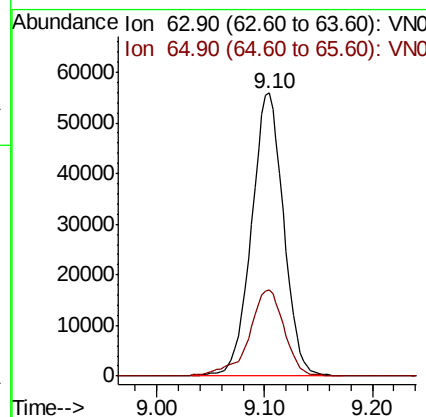
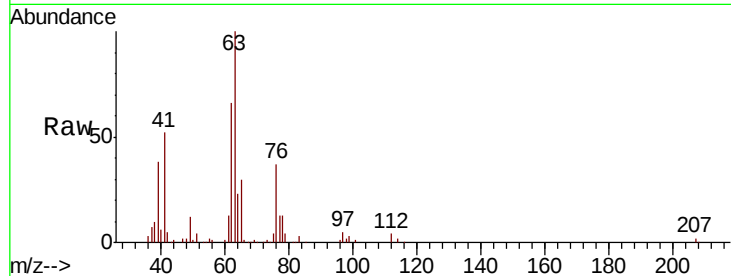
#45
 1,2-Dichloropropane
 Concen: 20.428 ug/l
 RT: 9.10 min Scan# 2280
 Delta R.T. 0.00 min
 Lab File: VN059120.D
 Acq: 7 Nov 2019 14:26

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1107WBS02

Tot Ion: 63 Resp: 115278
 Ion Ratio Lower Upper
 63 100
 65 30.3 24.6 37.0

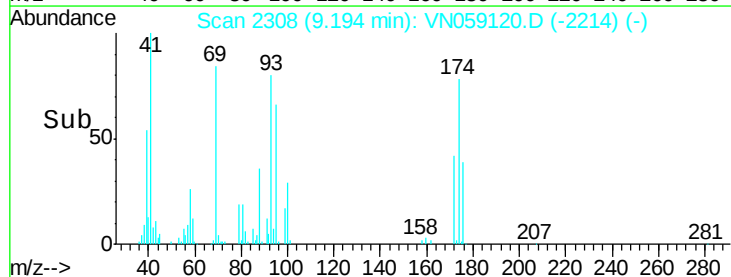
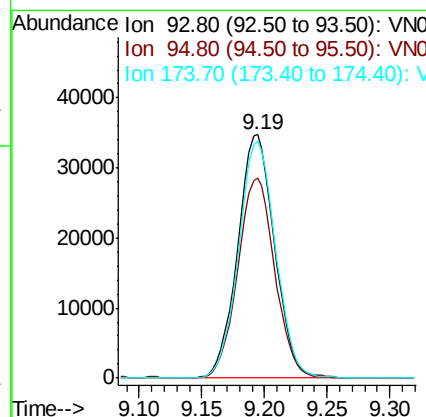
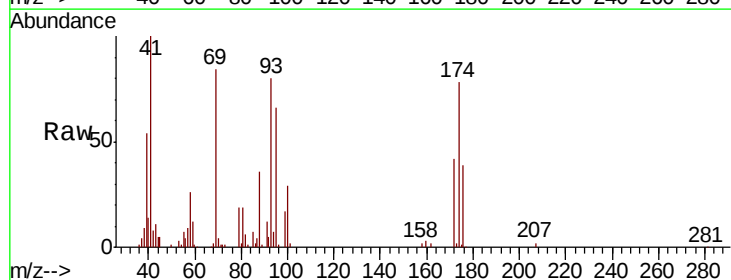
Manual Integrations
 APPROVED

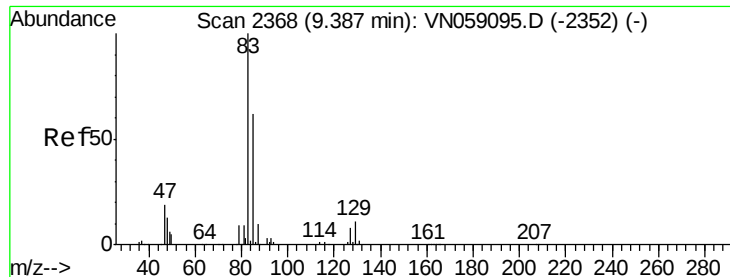
MMDadoda
 11/8/2019 9:39:16 AM



#46
 Dibromomethane
 Concen: 20.181 ug/l
 RT: 9.19 min Scan# 2308
 Delta R.T. 0.00 min
 Lab File: VN059120.D
 Acq: 7 Nov 2019 14:26

Tgt Ion: 93 Resp: 70966
 Ion Ratio Lower Upper
 93 100
 95 82.7 66.6 100.0
 174 97.5 78.2 117.2





#47

Bromodichloromethane

Concen: 20.610 ug/l

RT: 9.39 min Scan# 2368

Delta R.T. -0.00 min

Lab File: VN059120.D

Acq: 7 Nov 2019 14:26

Instrument :

MSVOA_N

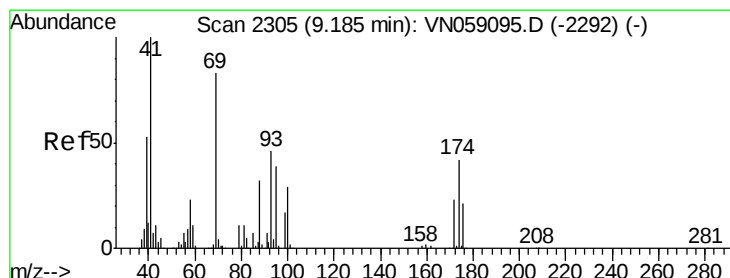
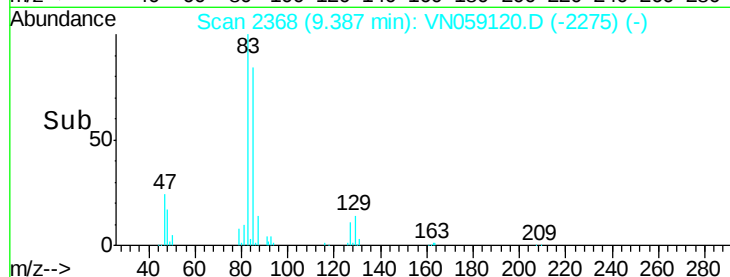
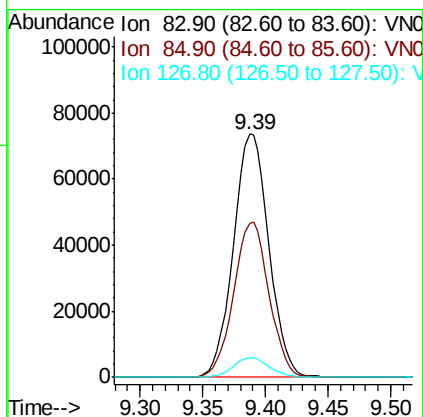
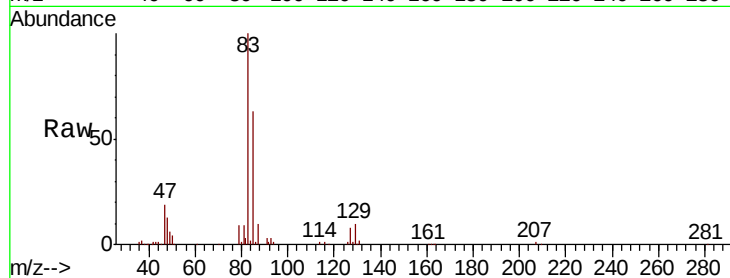
ClientSampleId :

VN1107WBS02

Tot Ion:	83	Resp:	144719
Ion Ratio	Lower	Upper	
83	100		
85	63.3	49.7	74.5
127	8.2	6.4	9.6

Manual Integrations
APPROVED

MMDadoda
11/8/2019 9:39:16 AM



#48

Methyl methacrylate

Concen: 19.970 ug/l

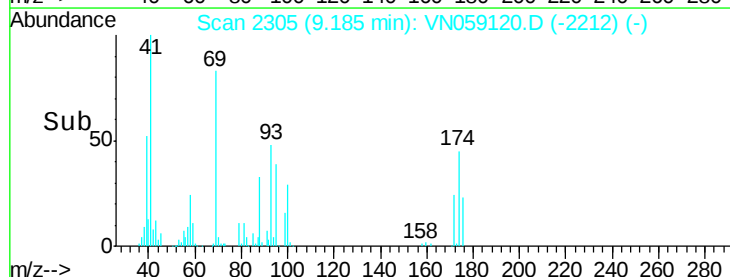
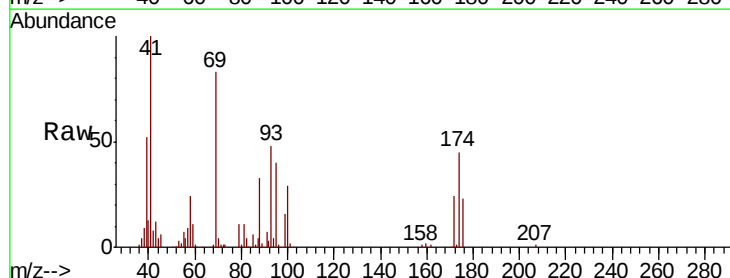
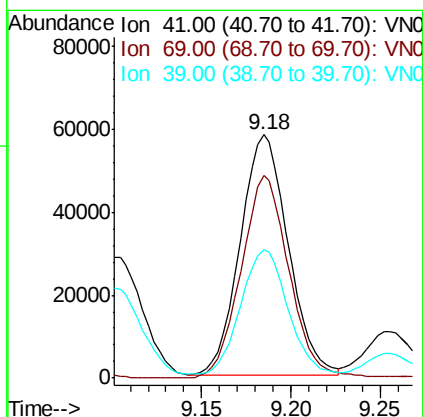
RT: 9.18 min Scan# 2305

Delta R.T. -0.00 min

Lab File: VN059120.D

Acq: 7 Nov 2019 14:26

Tgt Ion:	41	Resp:	109299
Ion Ratio	Lower	Upper	
41	100		
69	84.2	67.3	100.9
39	53.4	43.3	64.9





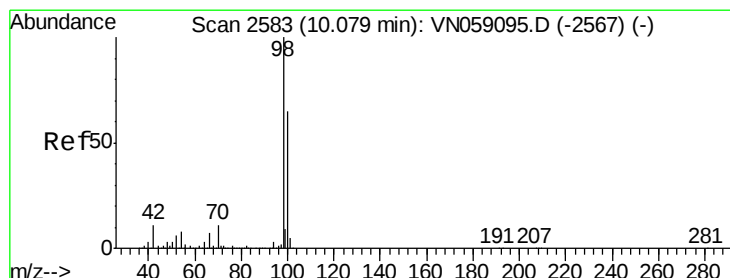
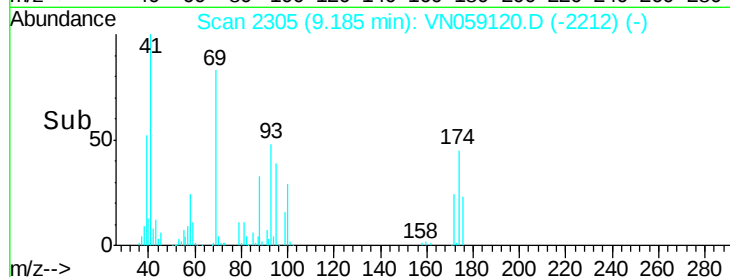
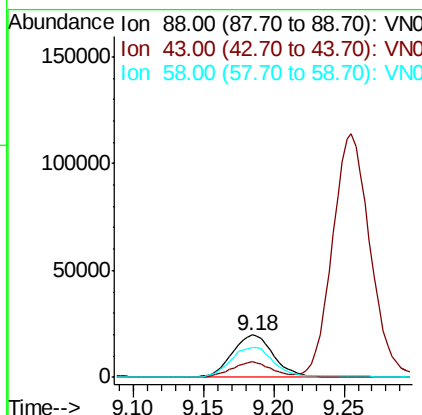
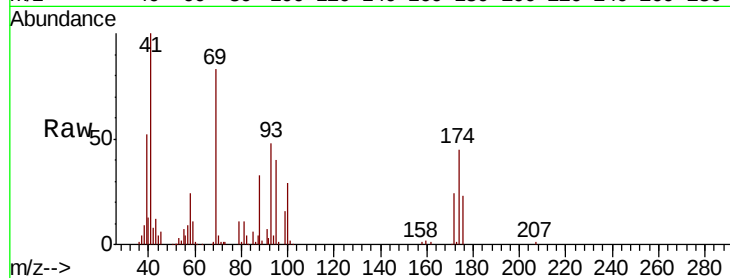
#49
1,4-Dioxane
Concen: 425.703 ug/l
RT: 9.18 min Scan# 2305
Delta R.T. -0.00 min
Lab File: VN059120.D
Acq: 7 Nov 2019 14:26

Instrument :
MSVOA_N
ClientSampleId :
VN1107WBS02

Tot Ion	88	Resp	41406
Ion Ratio	Lower	Upper	
88	100		
43	33.0	26.3	39.5
58	72.9	60.6	90.8

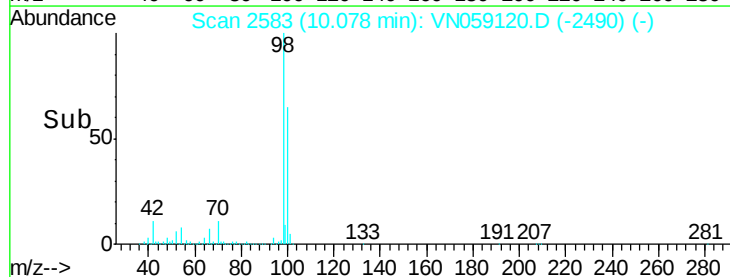
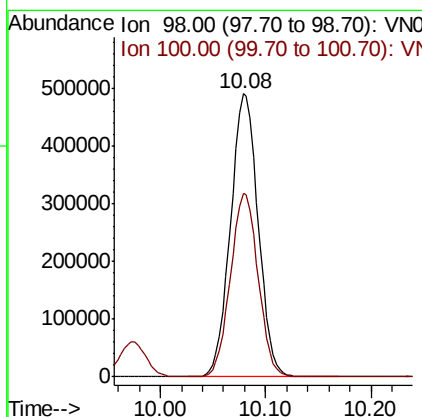
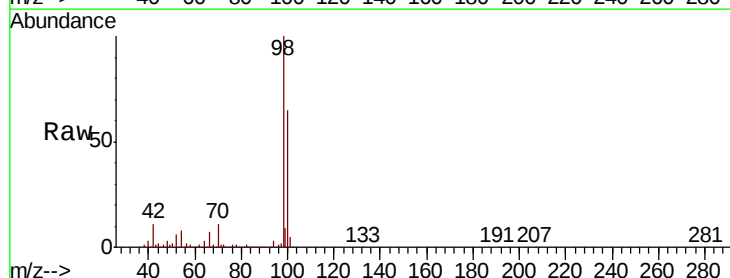
Manual Integrations
APPROVED

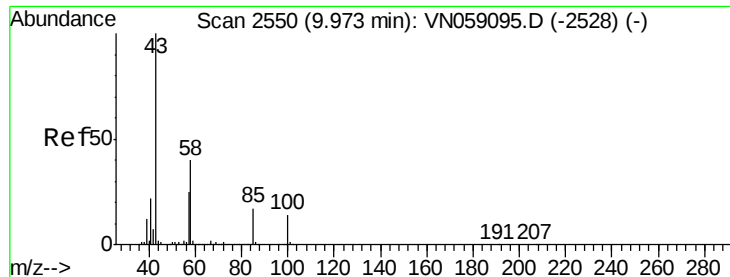
MMDadoda
11/8/2019 9:39:16 AM



#50
Toluene-d8
Concen: 51.154 ug/l
RT: 10.08 min Scan# 2583
Delta R.T. -0.00 min
Lab File: VN059120.D
Acq: 7 Nov 2019 14:26

Tgt Ion	98	Resp	888013
Ion Ratio	Lower	Upper	
98	100		
100	64.8	52.2	78.2





#51

4-Methyl-2-Pentanone

Concen: 114.487 ug/l

RT: 9.97 min Scan# 2550

Delta R.T. -0.00 min

Lab File: VN059120.D

Acq: 7 Nov 2019 14:26

Instrument :

MSVOA_N

ClientSampleId :

VN1107WBS02

Tot Ion: 43 Resp: 792638

Ion Ratio Lower Upper

43 100

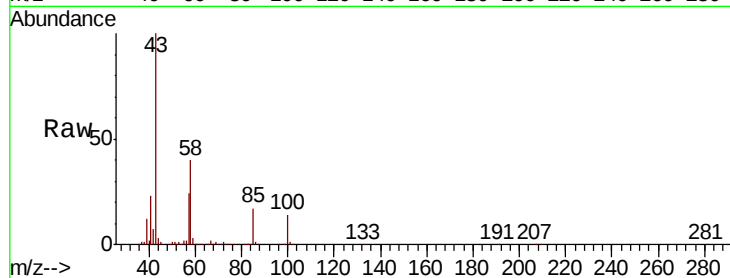
58 39.3 31.5 47.3

Manual Integrations

APPROVED

MMDadoda

11/8/2019 9:39:16 AM



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

500000

400000

300000

200000

100000

0

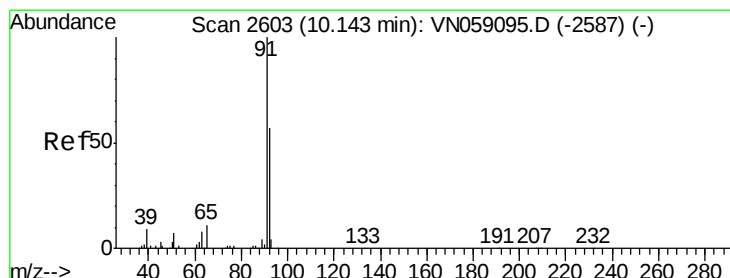
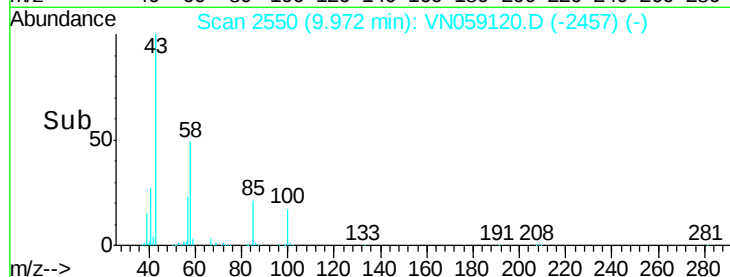
9.90

9.97

10.00

10.10

Time-->



#52

Toluene

Concen: 20.438 ug/l

RT: 10.15 min Scan# 2604

Delta R.T. 0.00 min

Lab File: VN059120.D

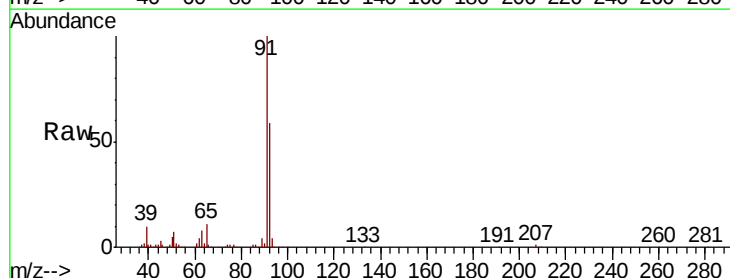
Acq: 7 Nov 2019 14:26

Tgt Ion: 92 Resp: 254495

Ion Ratio Lower Upper

92 100

91 172.5 139.5 209.3



Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0

250000

200000

150000

100000

50000

0

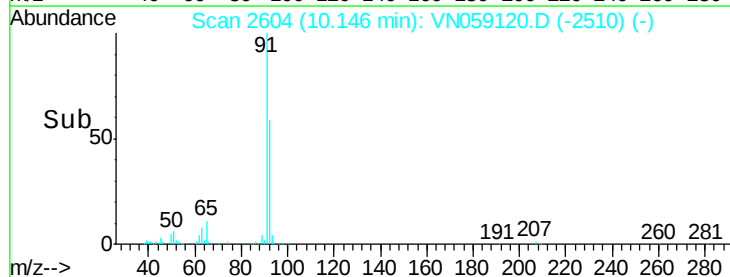
10.05

10.10

10.15

10.20

Time-->





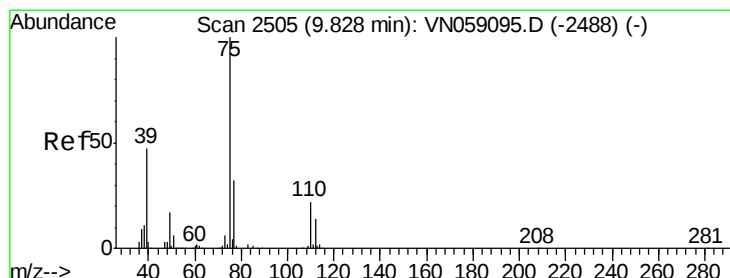
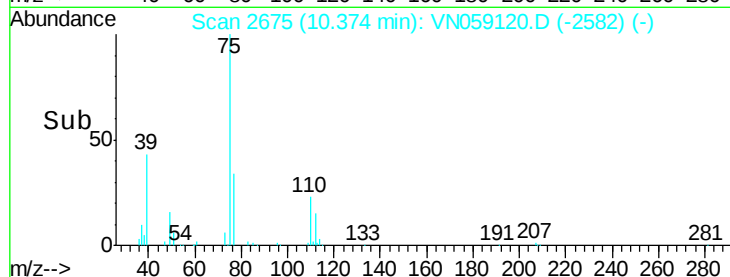
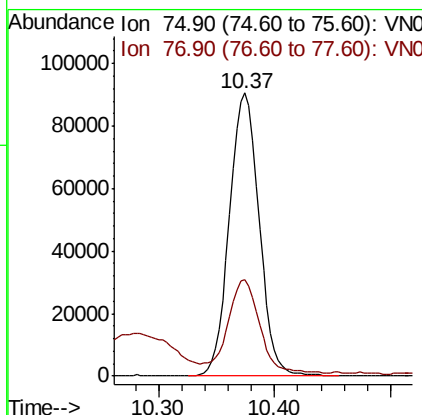
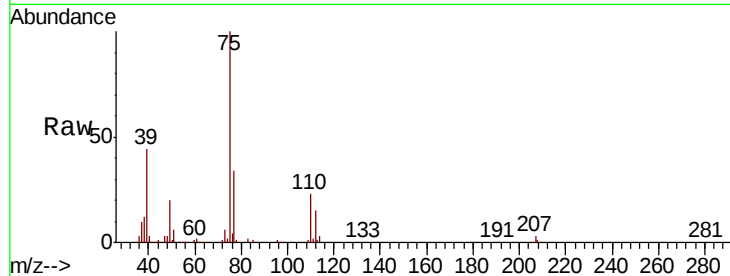
#53
t-1,3-Dichloropropene
Concen: 19.721 ug/l
RT: 10.37 min Scan# 2675
Delta R.T. -0.00 min
Lab File: VN059120.D
Acq: 7 Nov 2019 14:26

Instrument :
MSVOA_N
ClientSampleId :
VN1107WBS02

Tot Ion	Ratio	Lower	Upper
75	100		
77	32.8	25.3	37.9

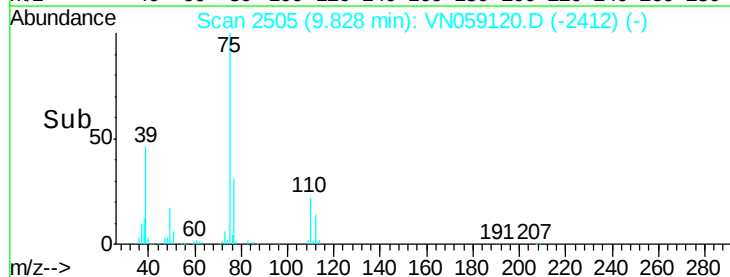
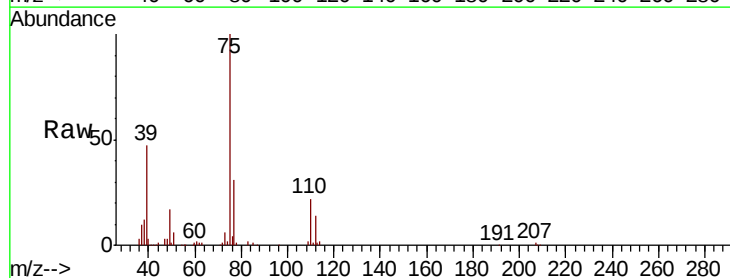
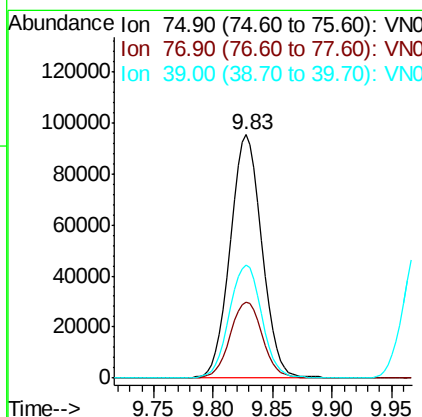
Manual Integrations
APPROVED

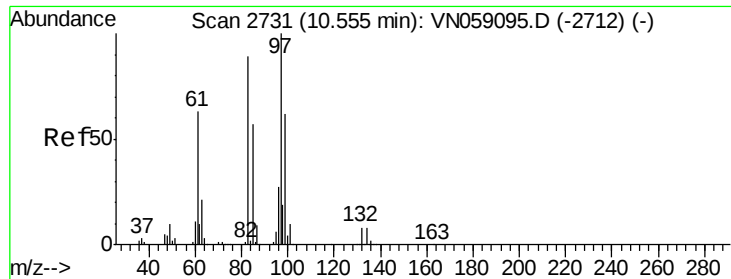
MMDadoda
11/8/2019 9:39:16 AM



#54
cis-1,3-Dichloropropene
Concen: 20.210 ug/l
RT: 9.83 min Scan# 2505
Delta R.T. -0.00 min
Lab File: VN059120.D
Acq: 7 Nov 2019 14:26

Tgt Ion	Ratio	Lower	Upper
75	100		
77	31.3	25.5	38.3
39	46.4	37.3	55.9





#55

1,1,2-Trichloroethane

Concen: 20.511 ug/l

RT: 10.55 min Scan# 2731

Delta R.T. -0.00 min

Lab File: VN059120.D

Acq: 7 Nov 2019 14:26

Instrument :

MSVOA_N

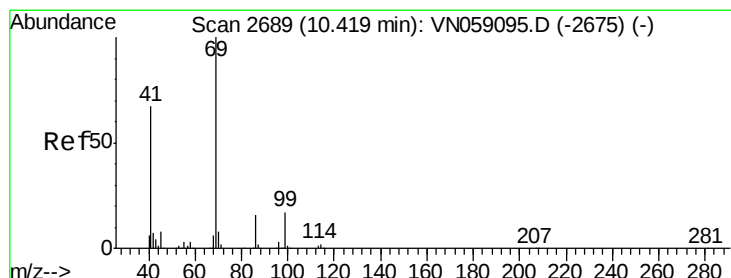
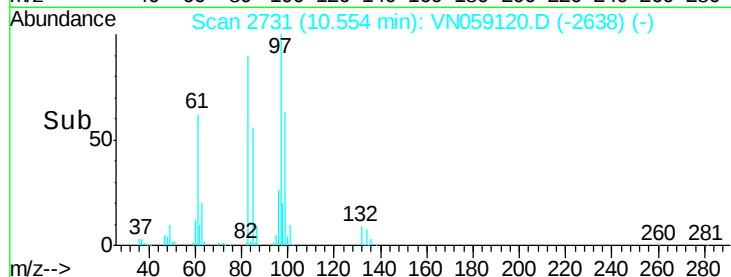
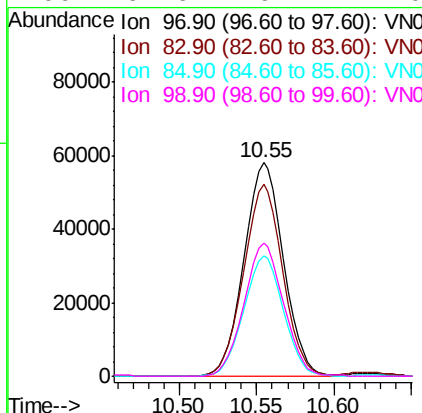
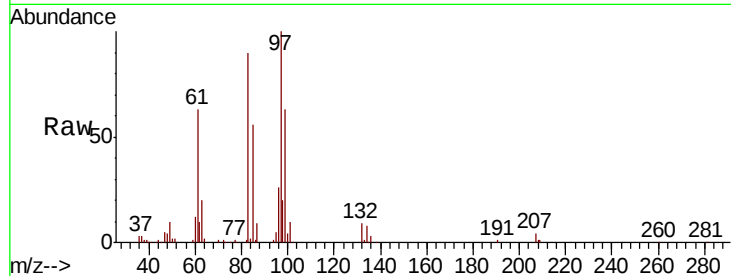
ClientSampleId :

VN1107WBS02

Tot Ion:	97	Resp:	103364
Ion	Ratio	Lower	Upper
97	100		
83	89.9	71.0	106.4
85	56.5	45.8	68.8
99	62.6	49.4	74.0

Manual Integrations
APPROVED

MMDadoda
11/8/2019 9:39:16 AM



#56

Ethyl methacrylate

Concen: 19.274 ug/l

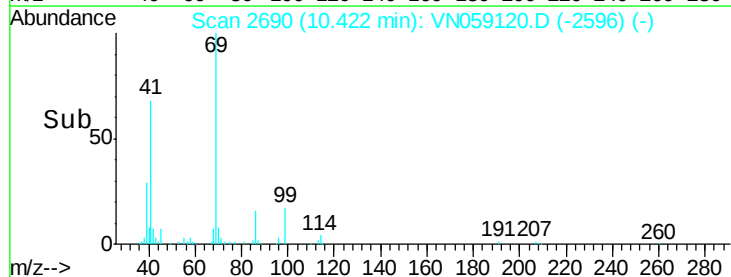
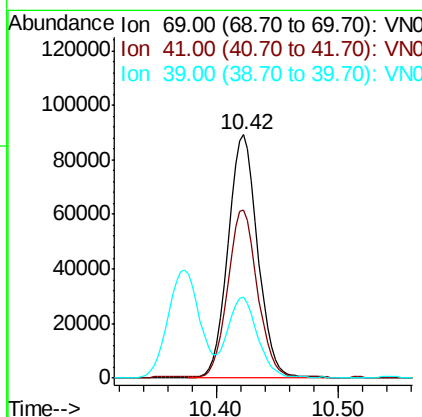
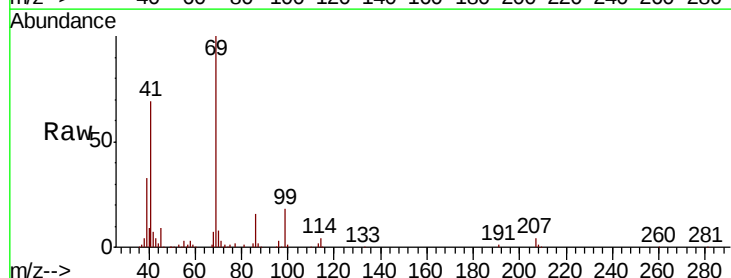
RT: 10.42 min Scan# 2690

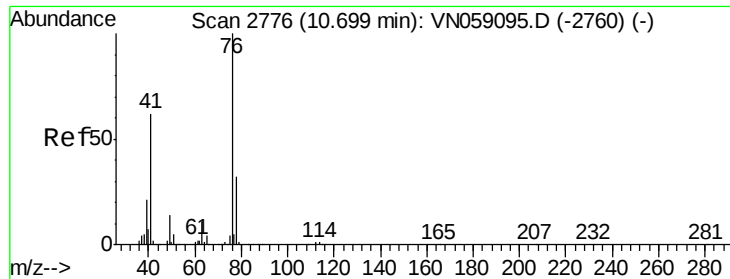
Delta R.T. 0.00 min

Lab File: VN059120.D

Acq: 7 Nov 2019 14:26

Tgt Ion:	69	Resp:	151951
Ion	Ratio	Lower	Upper
69	100		
41	68.8	53.6	80.4
39	32.3	26.2	39.4





#57

1,3-Dichloropropane

Concen: 20.811 ug/l

RT: 10.70 min Scan# 2776

Delta R.T. -0.00 min

Lab File: VN059120.D

Acq: 7 Nov 2019 14:26

Instrument :

MSVOA_N

ClientSampleId :

VN1107WBS02

Tot Ion: 76 Resp: 180510

Ion Ratio Lower Upper

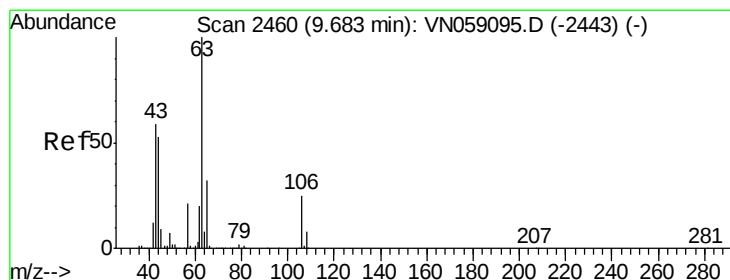
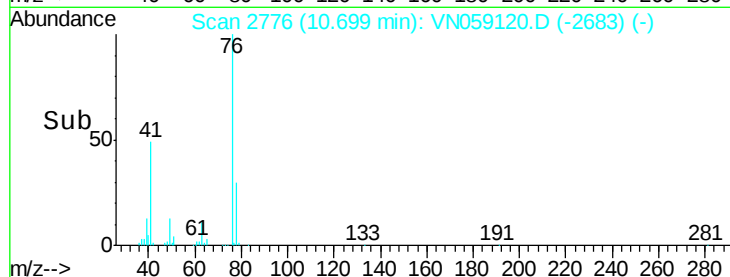
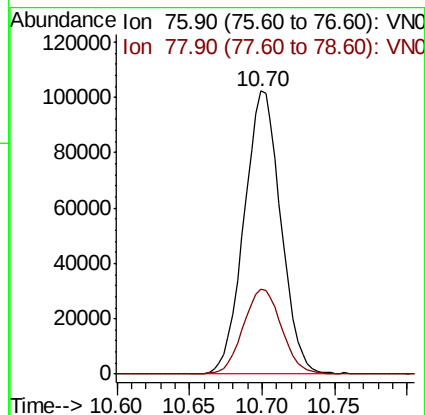
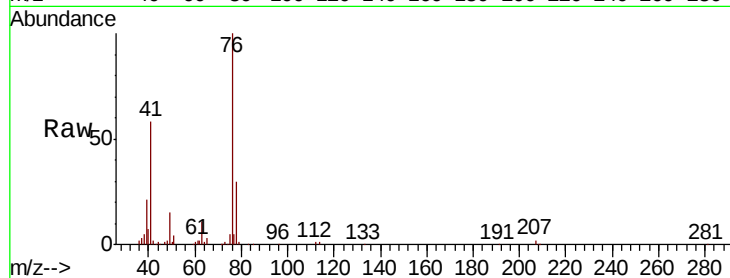
76 100

78 31.4 25.8 38.8

Manual Integrations
APPROVED

MMDadoda

11/8/2019 9:39:16 AM



#58

2-Chloroethyl Vinyl ether

Concen: 110.278 ug/l

RT: 9.68 min Scan# 2460

Delta R.T. -0.00 min

Lab File: VN059120.D

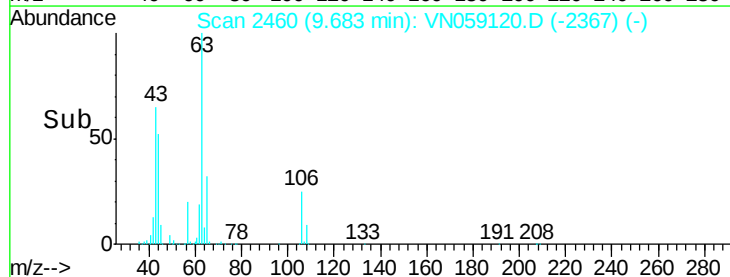
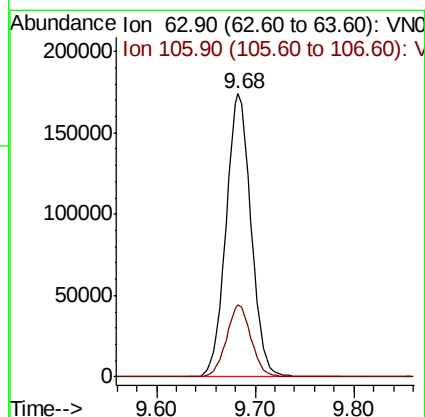
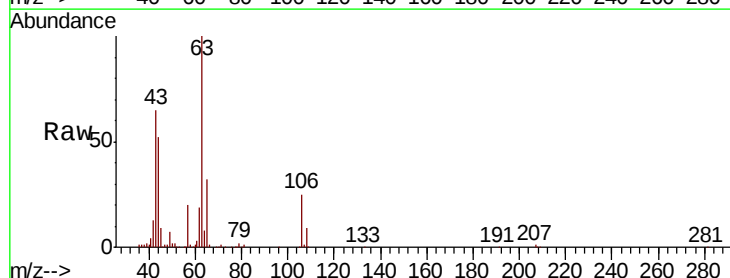
Acq: 7 Nov 2019 14:26

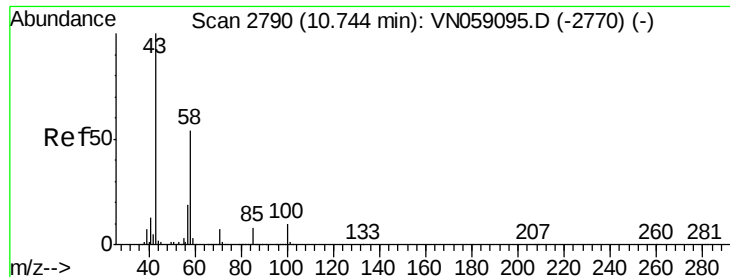
Tgt Ion: 63 Resp: 309291

Ion Ratio Lower Upper

63 100

106 24.9 20.2 30.2





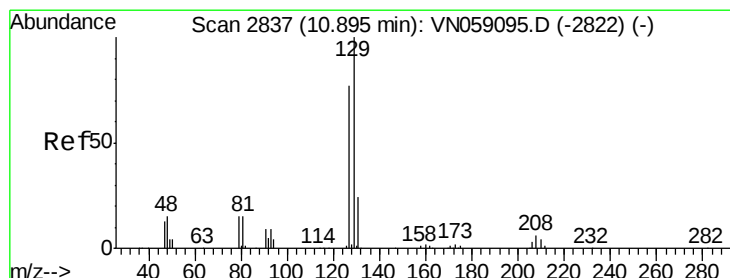
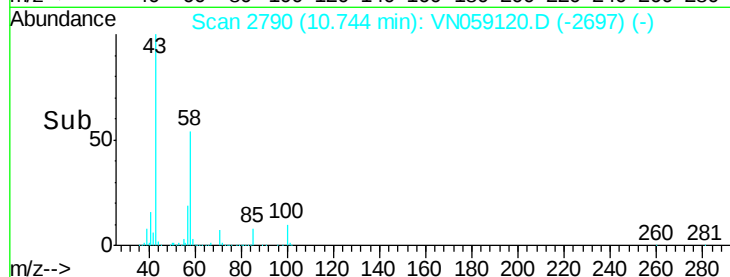
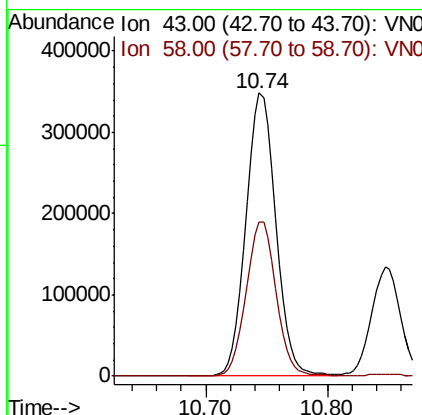
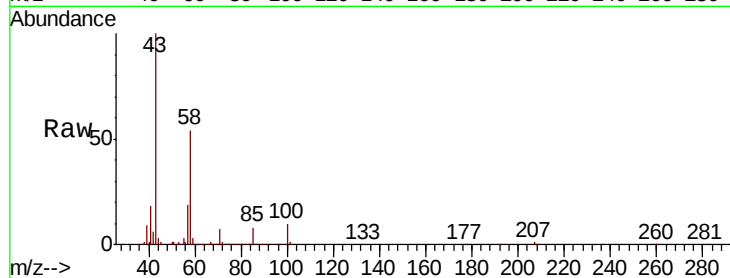
#59
2-Hexanone
Concen: 110.825 ug/l
RT: 10.74 min Scan# 2790
Delta R.T. -0.00 min
Lab File: VN059120.D
Acq: 7 Nov 2019 14:26

Instrument :
MSVOA_N
ClientSampleId :
VN1107WBS02

Tot Ion	Ratio	Lower	Upper
43	100		
58	54.5	27.3	81.8

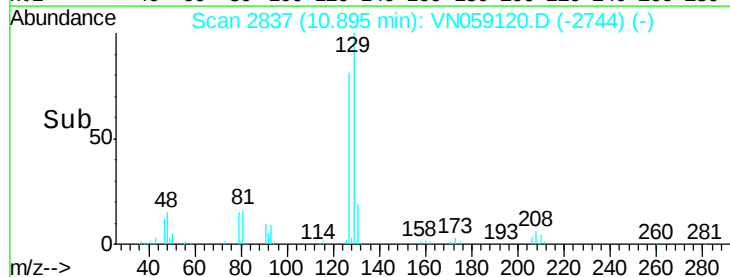
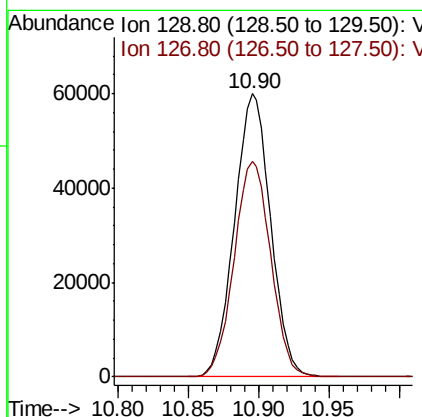
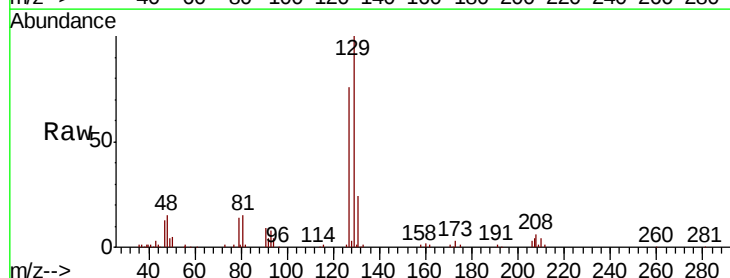
Manual Integrations
APPROVED

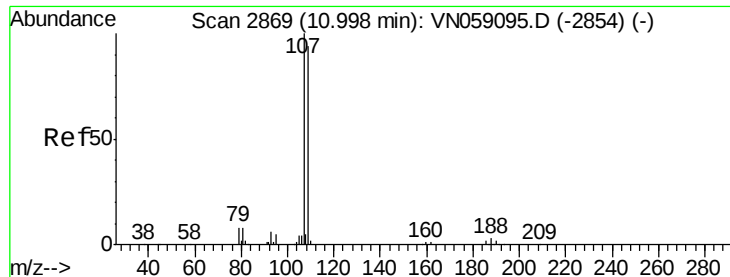
MMDadoda
11/8/2019 9:39:16 AM



#60
Dibromochloromethane
Concen: 20.219 ug/l
RT: 10.90 min Scan# 2837
Delta R.T. -0.00 min
Lab File: VN059120.D
Acq: 7 Nov 2019 14:26

Tgt Ion	Ratio	Lower	Upper
129	100		
127	77.1	38.6	115.8





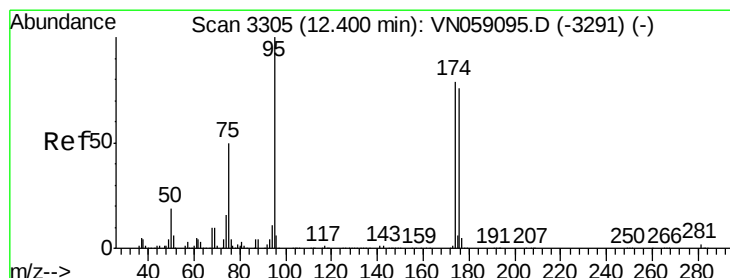
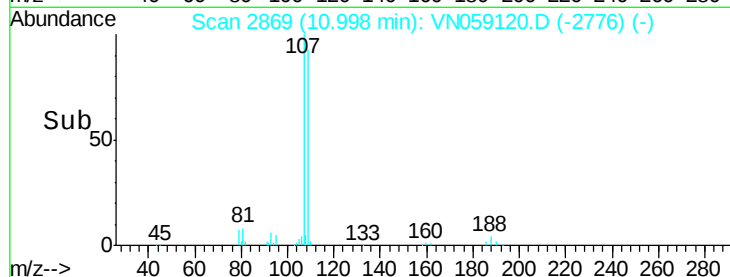
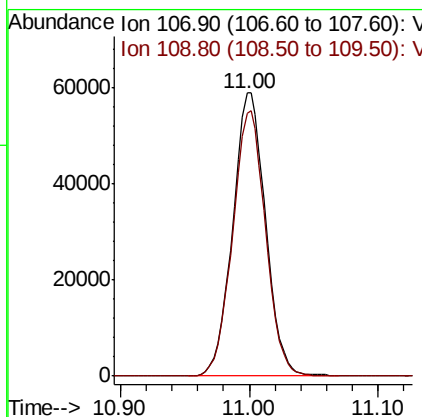
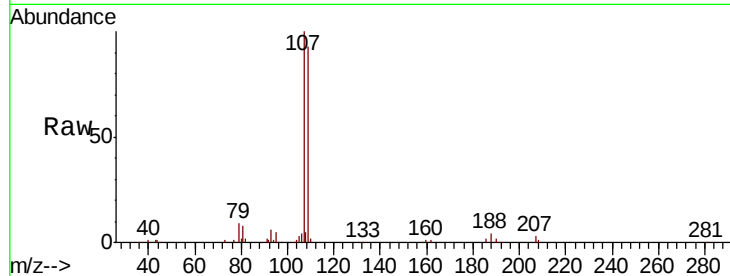
#61
 1,2-Dibromoethane
 Concen: 20.405 ug/l
 RT: 11.00 min Scan# 2869
 Delta R.T. -0.00 min
 Lab File: VN059120.D
 Acq: 7 Nov 2019 14:26

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1107WBS02

Tot Ion	Ratio	Lower	Upper
107	100		
109	94.1	75.5	113.3

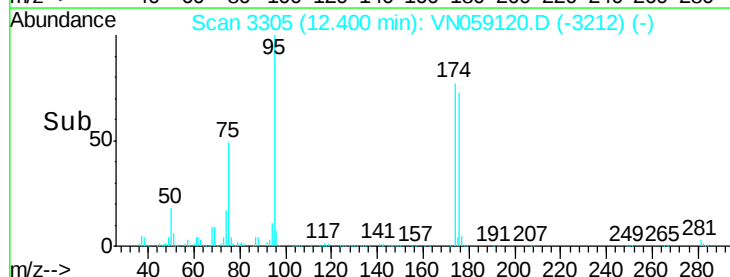
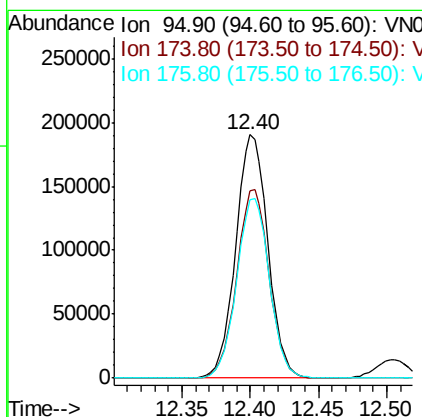
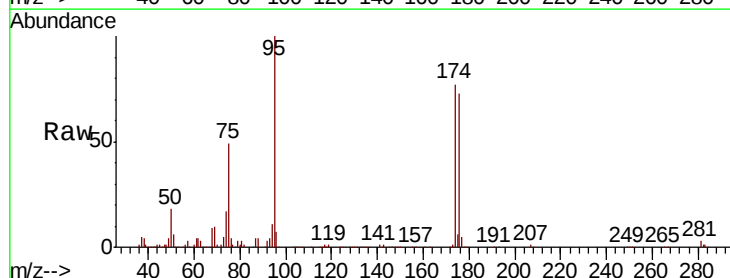
Manual Integrations
 APPROVED

MMDadoda
 11/8/2019 9:39:16 AM



#62
 4-Bromofluorobenzene
 Concen: 49.750 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. -0.00 min
 Lab File: VN059120.D
 Acq: 7 Nov 2019 14:26

Tgt Ion	Ratio	Lower	Upper
95	100		
174	77.9	0.0	158.2
176	75.1	0.0	151.8





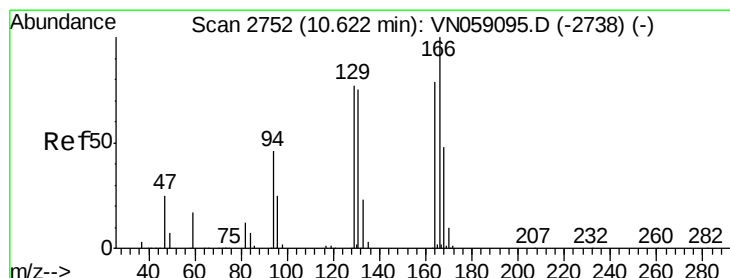
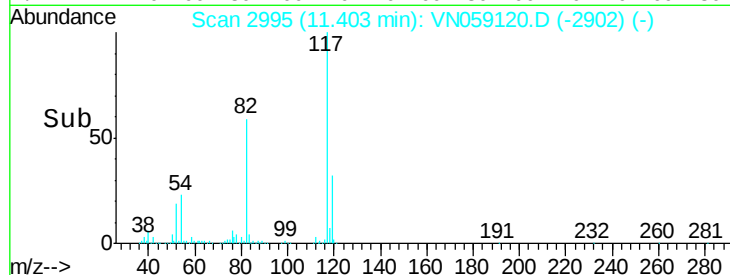
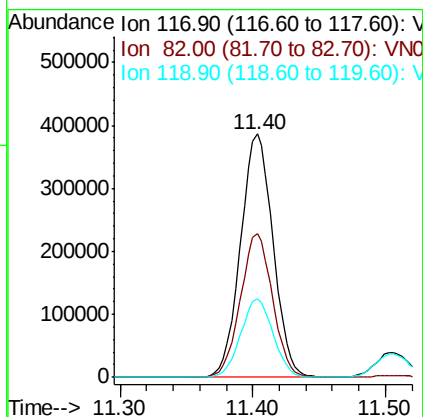
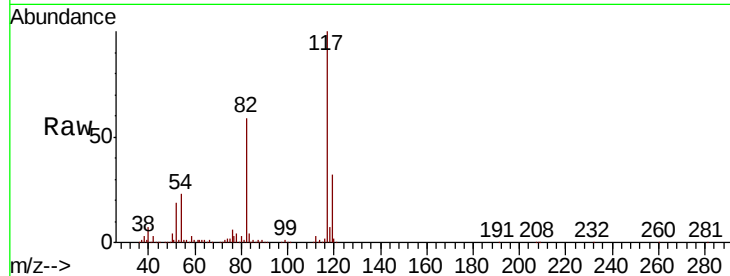
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2995
Delta R.T. -0.00 min
Lab File: VN059120.D
Acq: 7 Nov 2019 14:26

Instrument :
MSVOA_N
ClientSampleId :
VN1107WBS02

Tot Ion	Ratio	Lower	Upper
117	100		
82	59.0	45.8	68.8
119	32.2	25.8	38.6

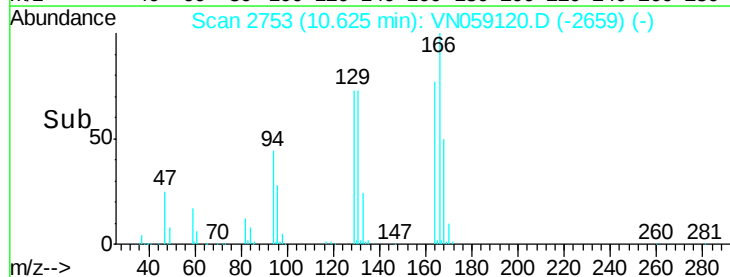
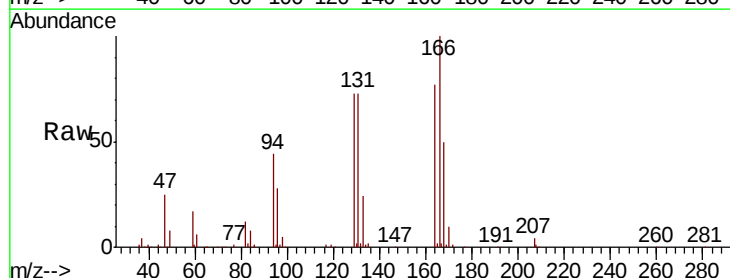
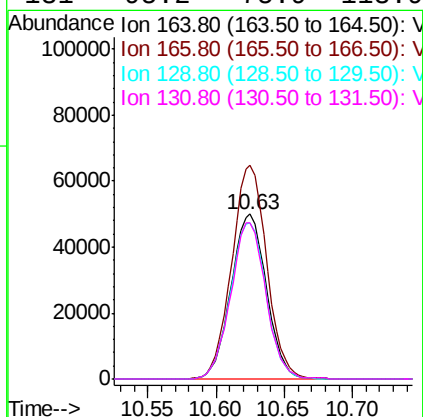
Manual Integrations
APPROVED

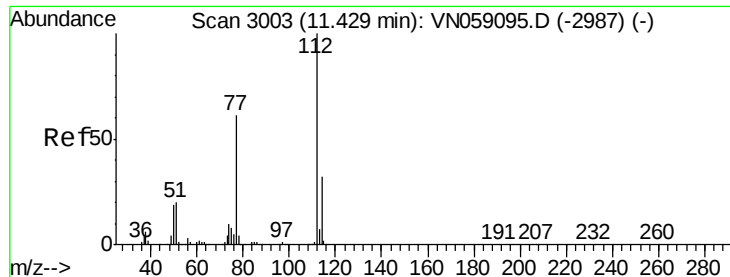
MMDadoda
11/8/2019 9:39:16 AM



#64
Tetrachloroethene
Concen: 20.152 ug/l
RT: 10.63 min Scan# 2753
Delta R.T. 0.00 min
Lab File: VN059120.D
Acq: 7 Nov 2019 14:26

Tgt Ion	Ratio	Lower	Upper
164	100		
166	129.8	101.5	152.3
129	94.9	78.3	117.5
131	95.2	75.9	113.9





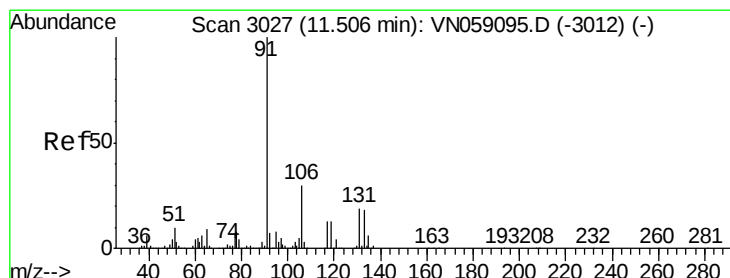
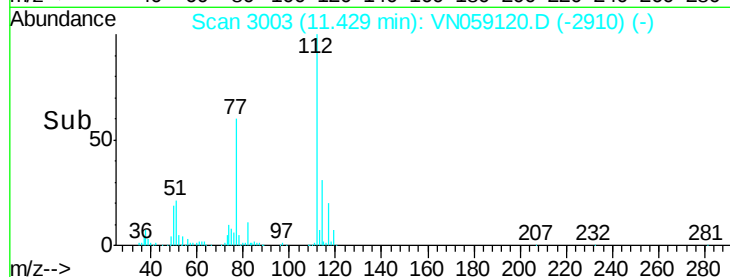
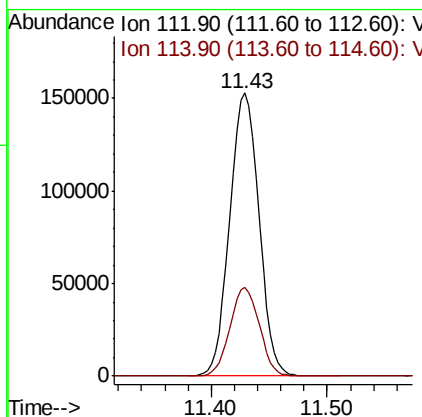
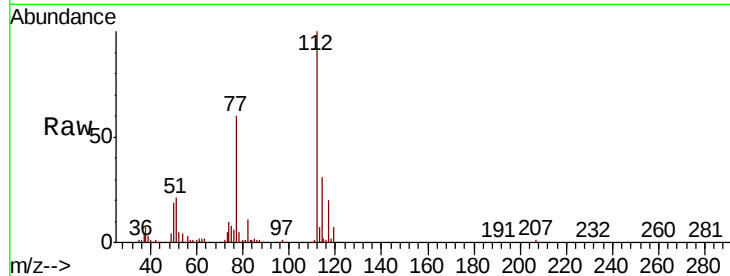
#65
Chlorobenzene
Concen: 20.740 ug/l
RT: 11.43 min Scan# 3003
Delta R.T. -0.00 min
Lab File: VN059120.D
Acq: 7 Nov 2019 14:26

Instrument :
MSVOA_N
ClientSampleId :
VN1107WBS02

Tot Ion	Ratio	Lower	Upper
112	100		
114	31.2	25.2	37.8

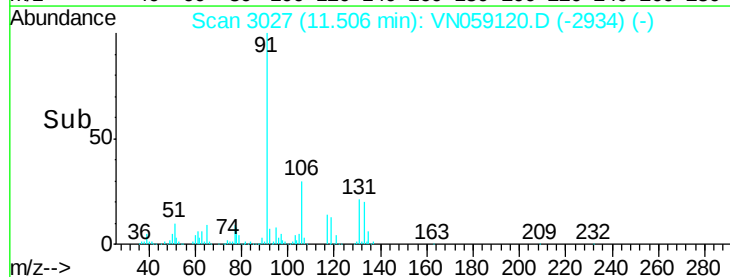
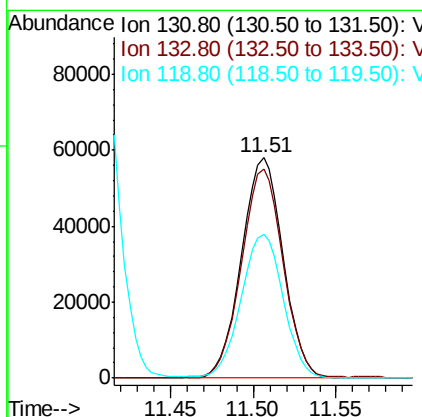
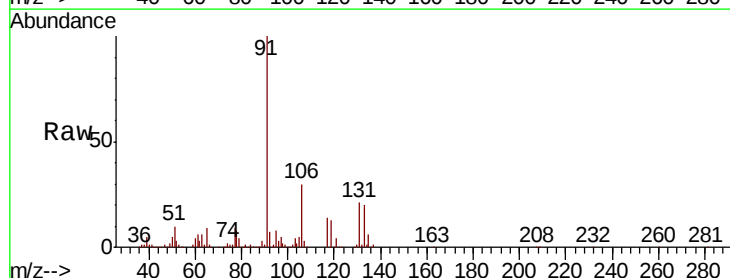
Manual Integrations
APPROVED

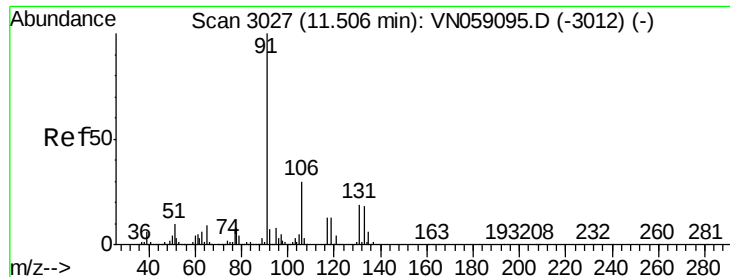
MMDadoda
11/8/2019 9:39:16 AM



#66
1,1,1,2-Tetrachloroethane
Concen: 20.975 ug/l
RT: 11.51 min Scan# 3027
Delta R.T. -0.00 min
Lab File: VN059120.D
Acq: 7 Nov 2019 14:26

Tgt Ion	Ratio	Lower	Upper
131	100		
133	95.7	47.4	142.3
119	66.5	33.2	99.6





#67

Ethyl Benzene

Concen: 20.925 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. 0.00 min

Lab File: VN059120.D

Acq: 7 Nov 2019 14:26

Instrument :

MSVOA_N

ClientSampled :

VN1107WBS02

Tot Ion: 91 Resp: 477028

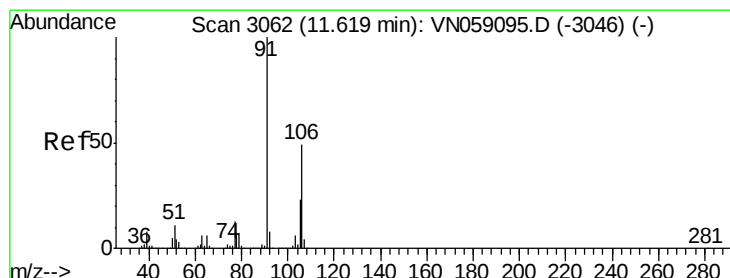
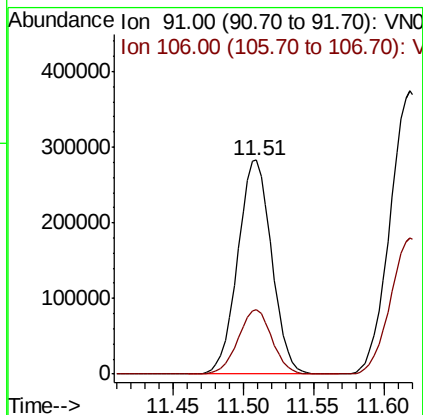
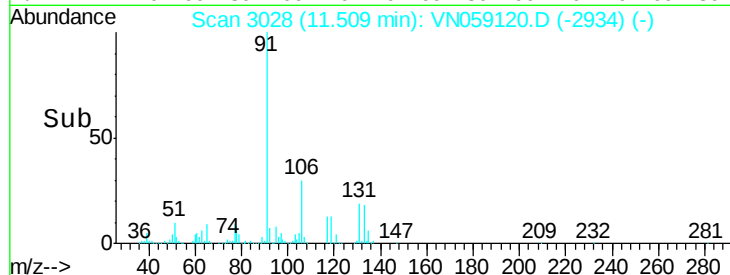
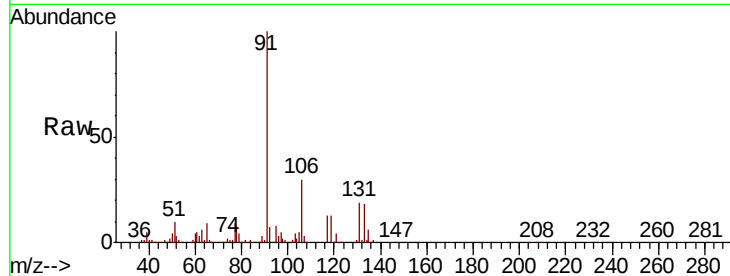
Ion Ratio Lower Upper

91 100

106 30.1 24.1 36.1

Manual Integrations
APPROVED

MMDadoda
11/8/2019 9:39:16 AM



#68

m/p-Xylenes

Concen: 41.030 ug/l

RT: 11.62 min Scan# 3062

Delta R.T. -0.00 min

Lab File: VN059120.D

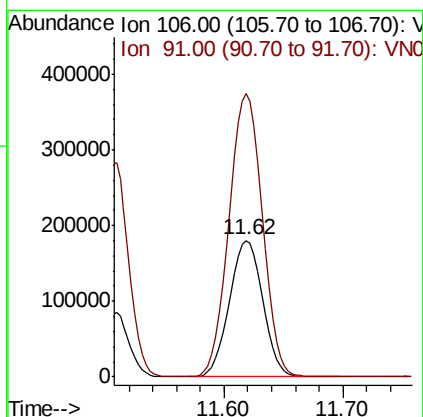
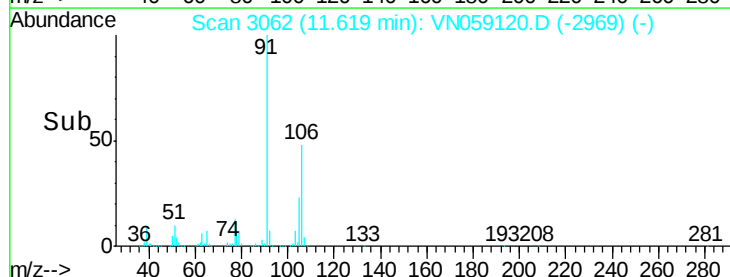
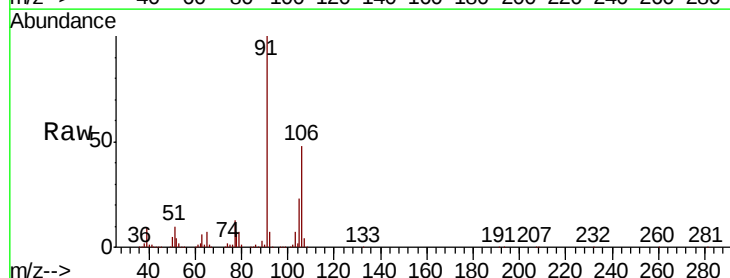
Acq: 7 Nov 2019 14:26

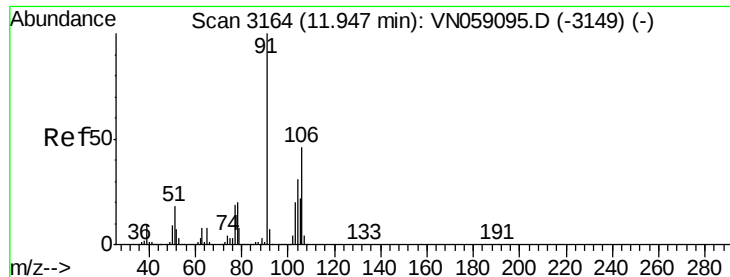
Tgt Ion: 106 Resp: 350383

Ion Ratio Lower Upper

106 100

91 208.4 164.7 247.1





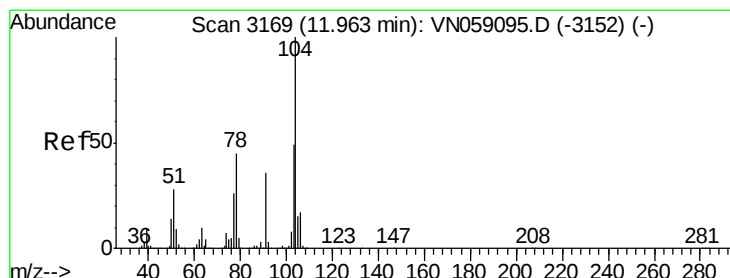
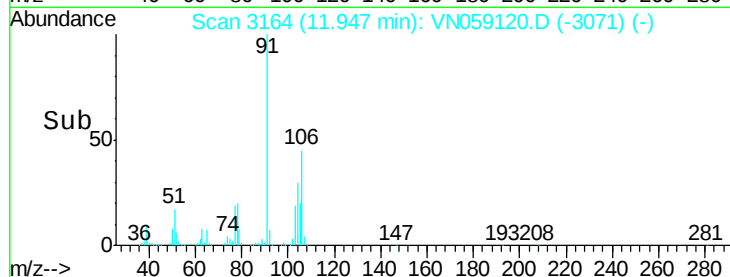
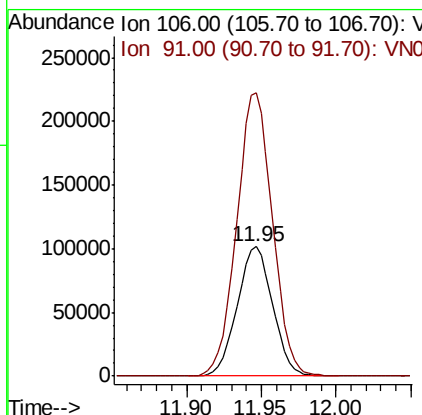
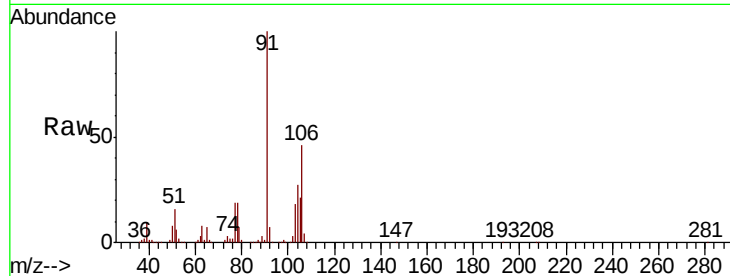
#69
o-Xylene
Concen: 20.238 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. -0.00 min
Lab File: VN059120.D
Acq: 7 Nov 2019 14:26

Instrument :
MSVOA_N
ClientSampleId :
VN1107WBS02

Tot Ion	Ion	Ratio	Lower	Upper
106	106	100		
91	221.2	110.1	330.3	

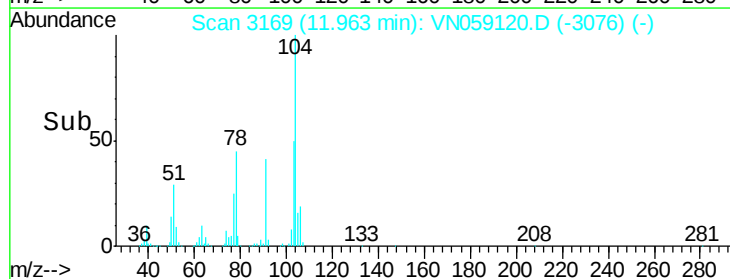
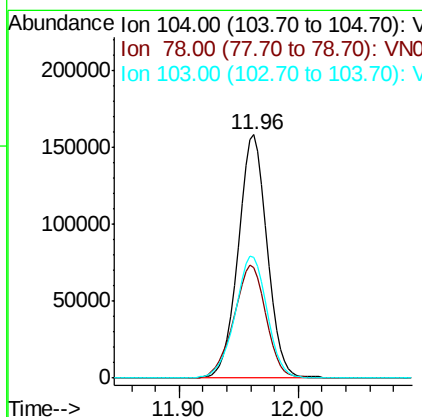
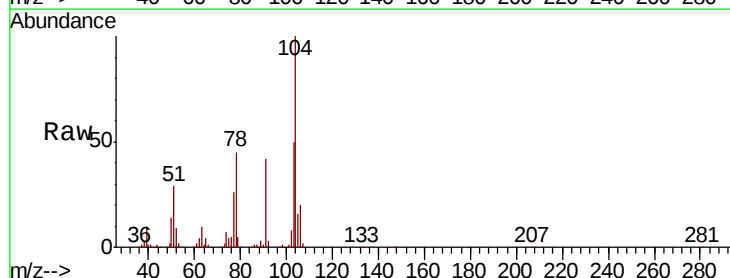
Manual Integrations
APPROVED

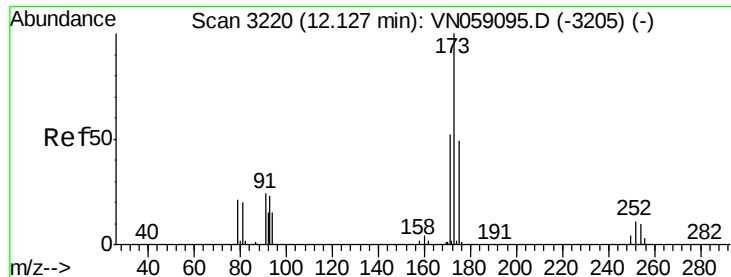
MMDadoda
11/8/2019 9:39:16 AM



#70
Styrene
Concen: 20.609 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. -0.00 min
Lab File: VN059120.D
Acq: 7 Nov 2019 14:26

Tgt Ion	Ion	Ratio	Lower	Upper
104	104	100		
78	51.7	41.2	61.8	
103	55.6	43.8	65.6	





#71

Bromoform

Concen: 20.677 ug/l

RT: 12.13 min Scan# 3220

Delta R.T. -0.00 min

Lab File: VN059120.D

Acq: 7 Nov 2019 14:26

Instrument :

MSVOA_N

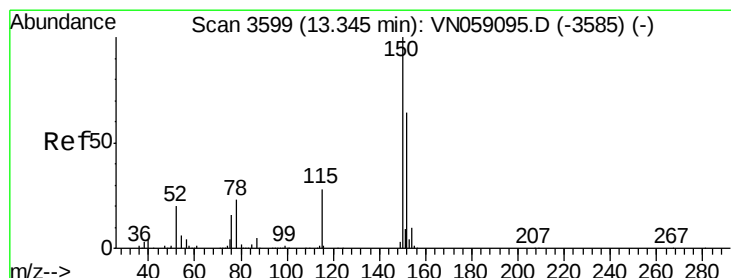
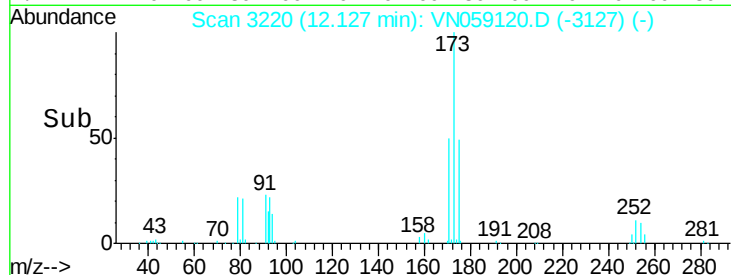
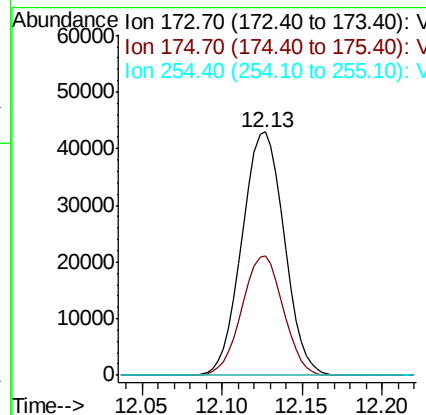
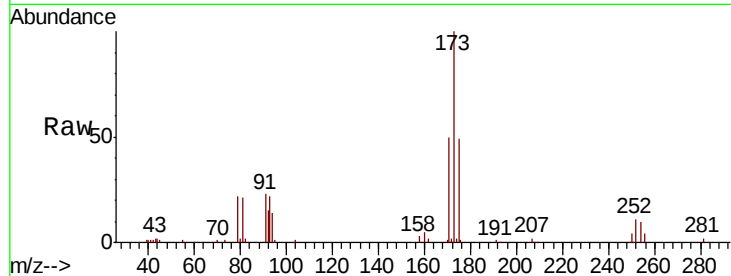
ClientSampleId :

VN1107WBS02

Tot Ion:	173	Resp:	77522
Ion Ratio	Lower	Upper	
173	100		
175	47.9	24.2	72.6
254	0.0	0.1	0.1#

Manual Integrations
APPROVED

MMDadoda
11/8/2019 9:39:16 AM



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

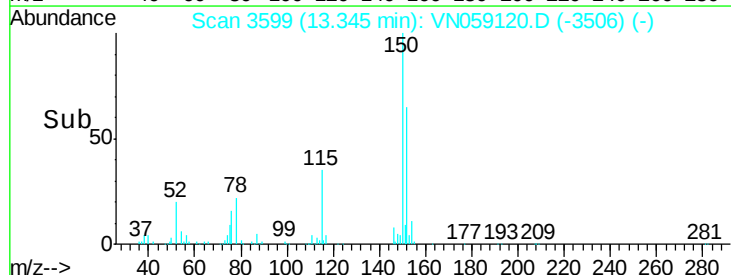
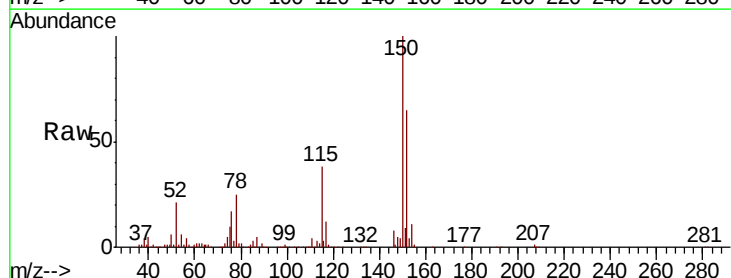
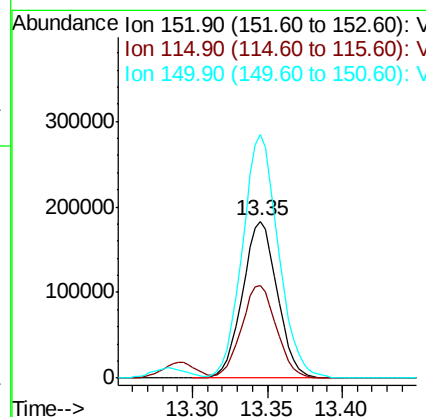
RT: 13.35 min Scan# 3599

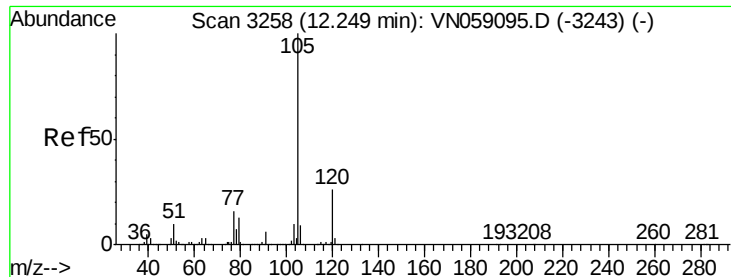
Delta R.T. -0.00 min

Lab File: VN059120.D

Acq: 7 Nov 2019 14:26

Tgt Ion:	152	Resp:	296317
Ion Ratio	Lower	Upper	
152	100		
115	59.2	29.4	88.2
150	160.4	0.0	345.8





#73

Isopropylbenzene

Concen: 20.943 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. -0.00 min

Lab File: VN059120.D

Acq: 7 Nov 2019 14:26

Instrument :

MSVOA_N

ClientSampleId :

VN1107WBS02

Tot Ion: 105 Resp: 451400

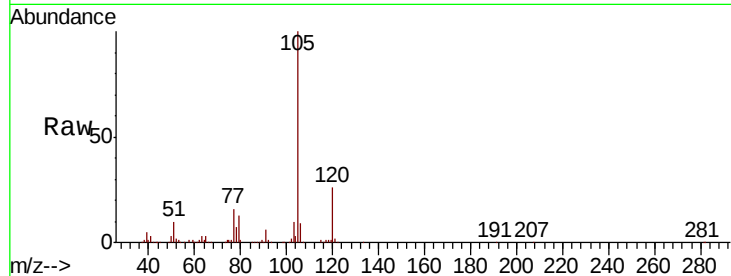
Ion Ratio Lower Upper

105 100

120 26.2 13.1 39.3

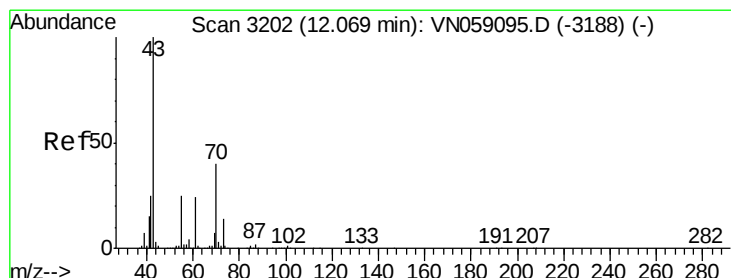
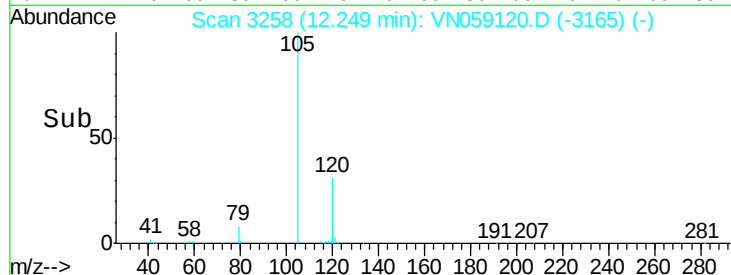
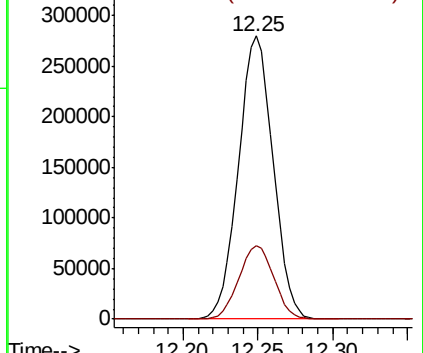
Manual Integrations
APPROVED

MMDadoda
11/8/2019 9:39:16 AM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 20.791 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. -0.00 min

Lab File: VN059120.D

Acq: 7 Nov 2019 14:26

Tgt Ion: 43 Resp: 189889

Ion Ratio Lower Upper

43 100

70 41.4 32.2 48.4

55 27.0 20.4 30.6

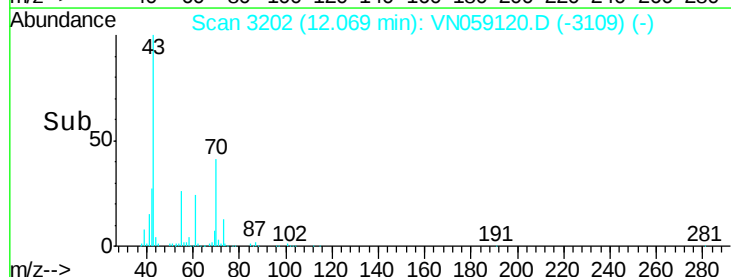
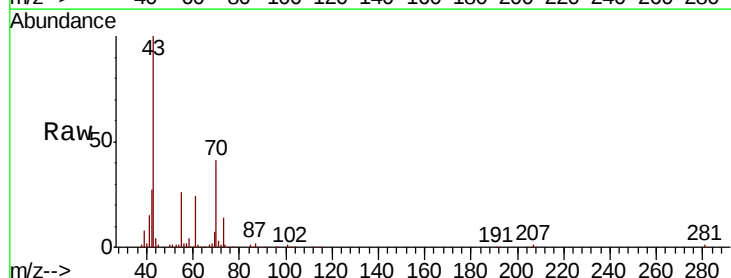
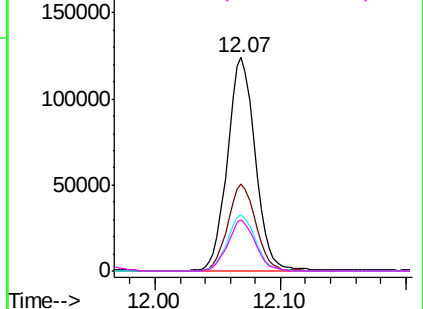
61 23.7 19.3 28.9

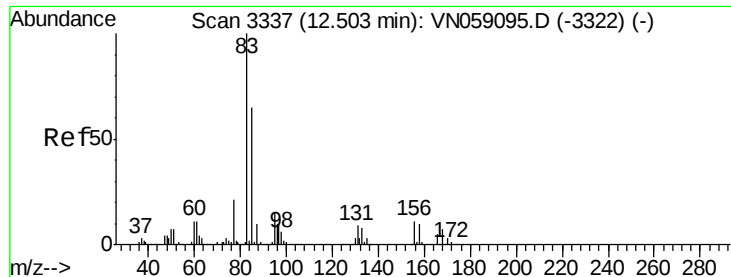
Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V





#75

1,1,2,2-Tetrachloroethane

Concen: 21.632 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. -0.00 min

Lab File: VN059120.D

Acq: 7 Nov 2019 14:26

Instrument :

MSVOA_N

ClientSampleId :

VN1107WBS02

Tot Ion: 83 Resp: 158782

Ion Ratio Lower Upper

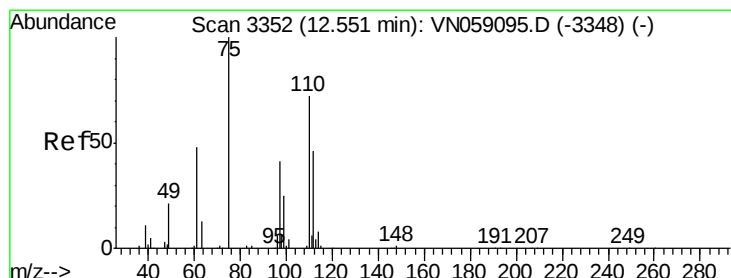
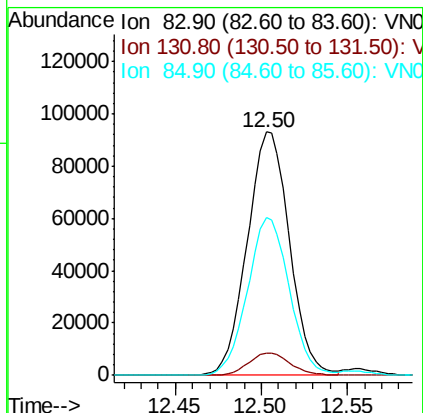
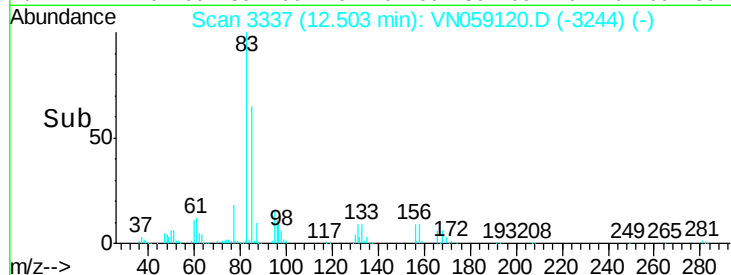
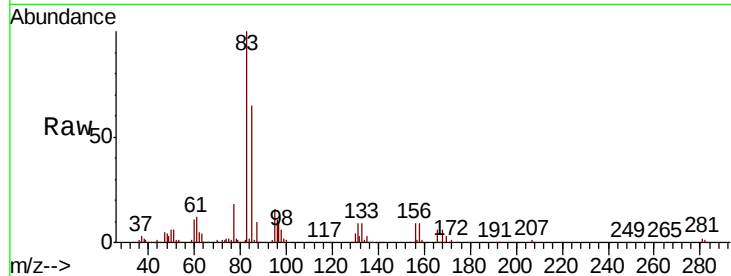
83 100

131 9.2 4.9 14.6

85 64.0 32.4 97.2

Manual Integrations
APPROVED

MMDadoda
11/8/2019 9:39:16 AM



#76

1,2,3-Trichloropropane

Concen: 20.682 ug/l m

RT: 12.55 min Scan# 3353

Delta R.T. 0.00 min

Lab File: VN059120.D

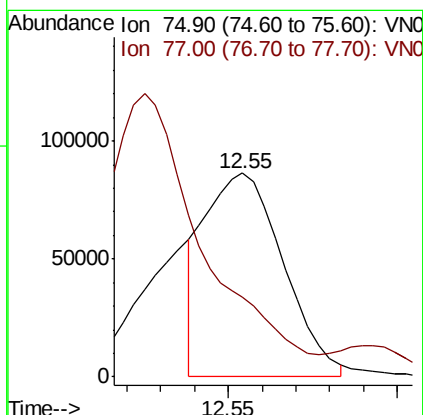
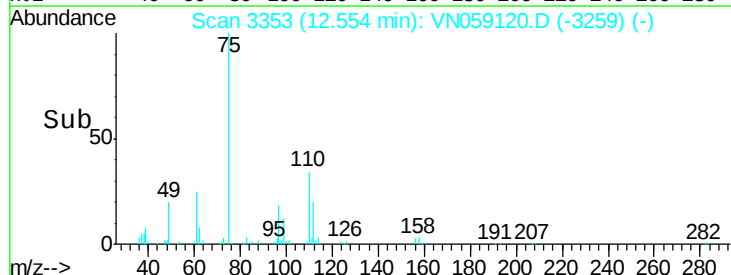
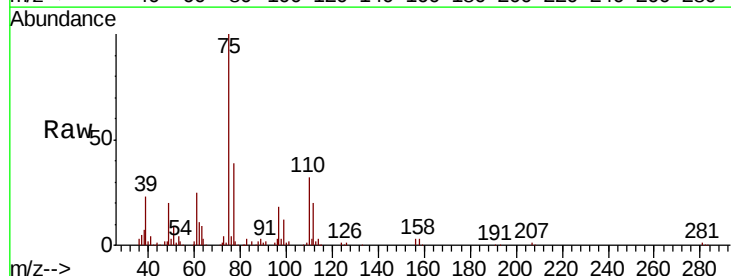
Acq: 7 Nov 2019 14:26

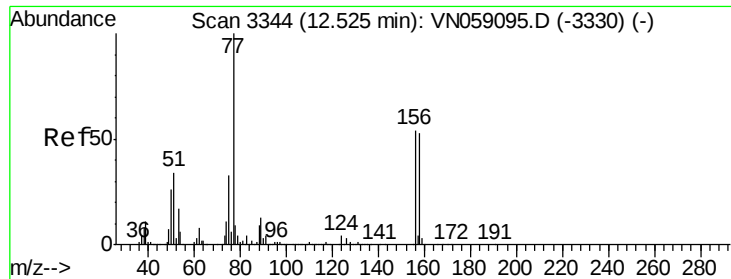
Tgt Ion: 75 Resp: 139527

Ion Ratio Lower Upper

75 100

77 0.0 0.0 0.0





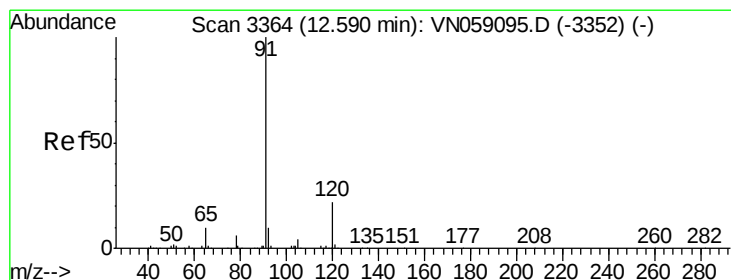
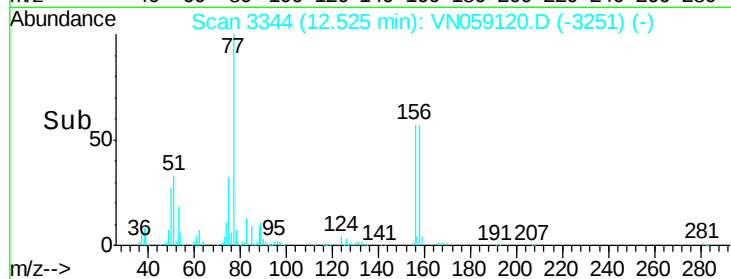
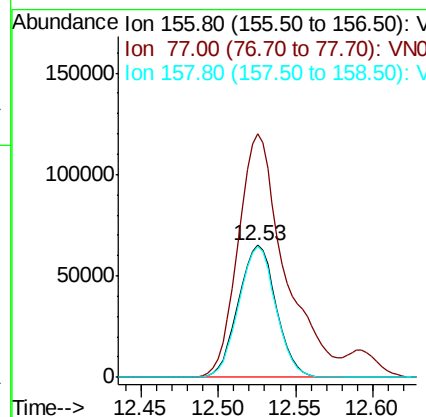
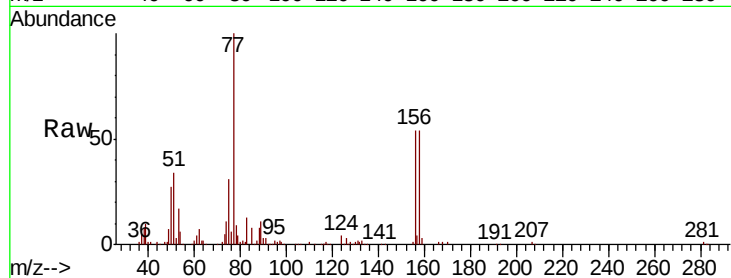
#77
Bromobenzene
Concen: 20.384 ug/l
RT: 12.53 min Scan# 3344
Delta R.T. -0.00 min
Lab File: VN059120.D
Acq: 7 Nov 2019 14:26

Instrument :
MSVOA_N
ClientSampleId :
VN1107WBS02

Tot Ion	Ratio	Lower	Upper
156	100		
77	227.2	112.8	338.3
158	97.5	48.4	145.3

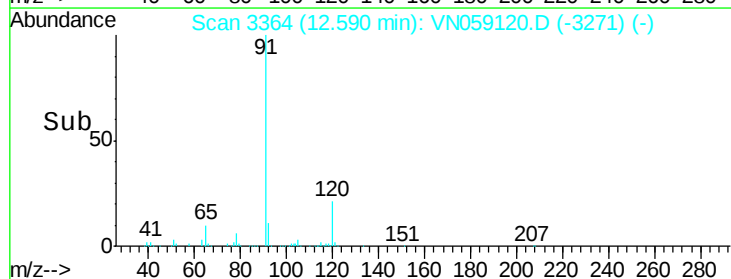
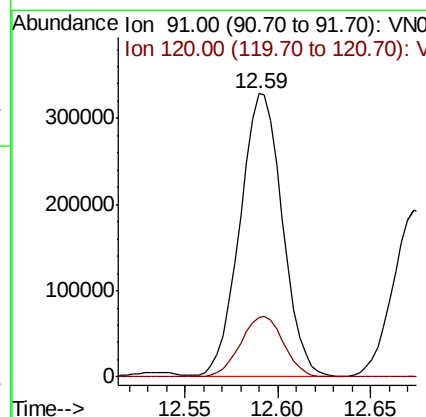
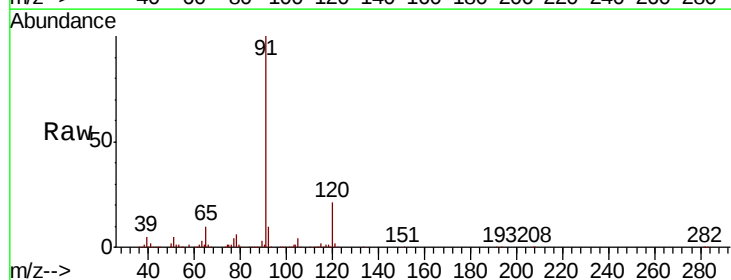
Manual Integrations
APPROVED

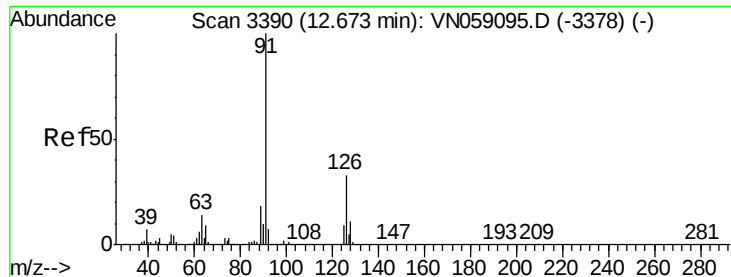
MMDadoda
11/8/2019 9:39:16 AM



#78
n-propylbenzene
Concen: 21.108 ug/l
RT: 12.59 min Scan# 3364
Delta R.T. -0.00 min
Lab File: VN059120.D
Acq: 7 Nov 2019 14:26

Tgt Ion	Ratio	Lower	Upper
91	100		
120	21.9	11.2	33.5





#79

2-Chlorotoluene

Concen: 20.909 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. -0.00 min

Lab File: VN059120.D

Acq: 7 Nov 2019 14:26

Instrument :

MSVOA_N

ClientSampleId :

VN1107WBS02

Tot Ion: 91 Resp: 320121

Ion Ratio Lower Upper

91 100

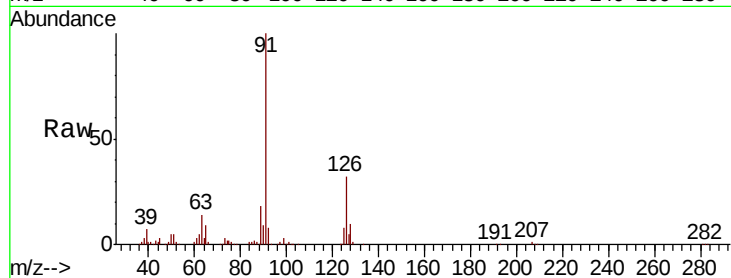
126 32.6 16.7 50.1

Manual Integrations

APPROVED

MMDadoda

11/8/2019 9:39:16 AM



Abundance Ion 91.00 (90.70 to 91.70): VN059120.D (-3397) (-)

Ion 125.90 (125.60 to 126.60): VN059120.D (-3397) (-)

300000

200000

100000

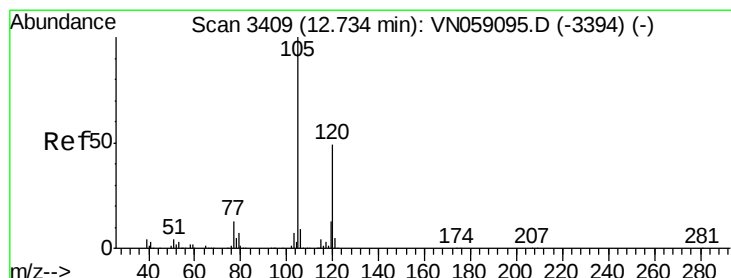
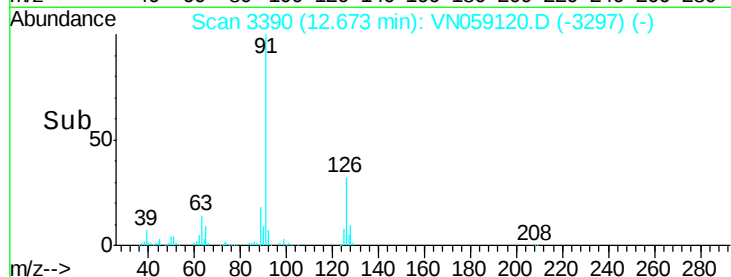
0

12.67

12.65

12.70

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 20.979 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. -0.00 min

Lab File: VN059120.D

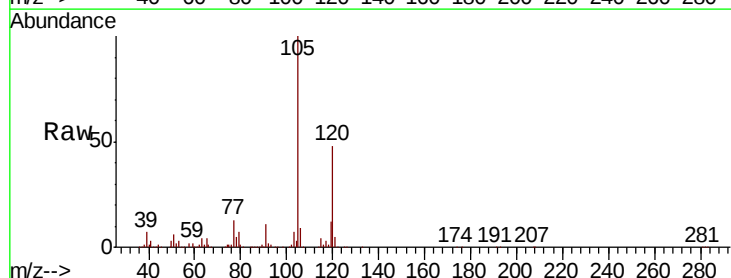
Acq: 7 Nov 2019 14:26

Tgt Ion:105 Resp: 383162

Ion Ratio Lower Upper

105 100

120 47.8 24.0 72.0



Abundance Ion 105.00 (104.70 to 105.70): VN059120.D (-3316) (-)

Ion 120.00 (119.70 to 120.70): VN059120.D (-3316) (-)

250000

200000

150000

100000

50000

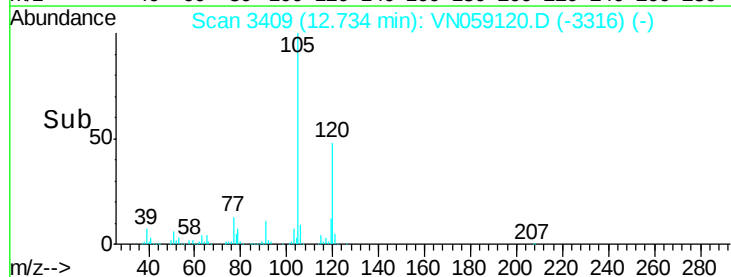
0

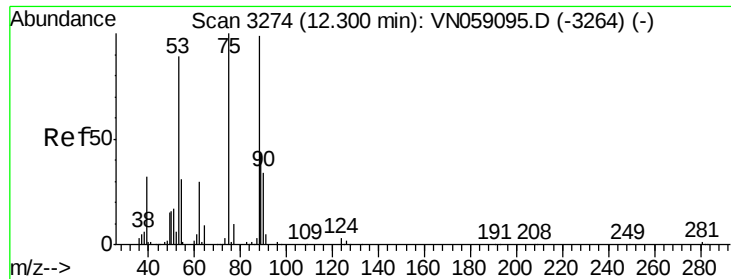
12.73

12.70

12.80

Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 21.103 ug/l

RT: 12.30 min Scan# 3274

Delta R.T. -0.00 min

Lab File: VN059120.D

Acq: 7 Nov 2019 14:26

Instrument :

MSVOA_N

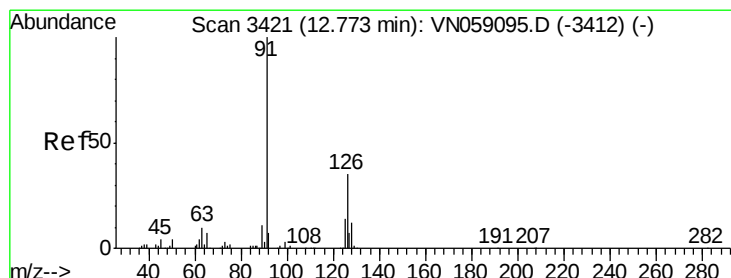
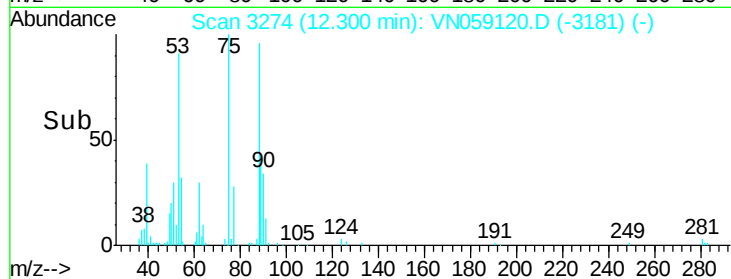
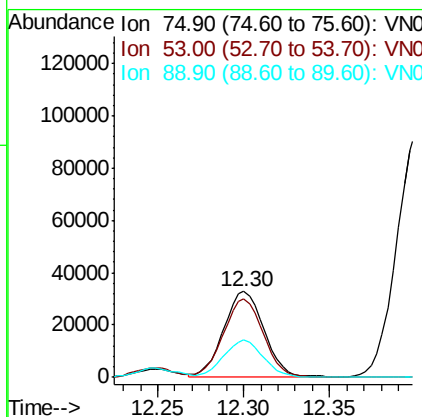
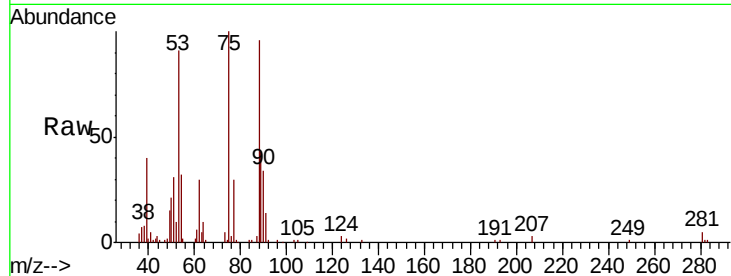
ClientSampleId :

VN1107WBS02

Tot Ion:	75	Resp:	53899
Ion	Ratio	Lower	Upper
75	100		
53	91.3	72.2	108.2
89	42.8	35.8	53.8

Manual Integrations
APPROVED

MMDadoda
11/8/2019 9:39:16 AM



#82

4-Chlorotoluene

Concen: 20.536 ug/l

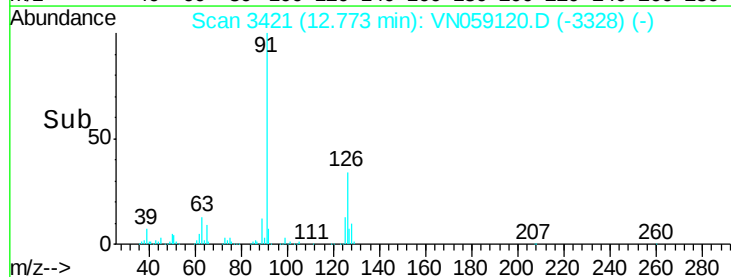
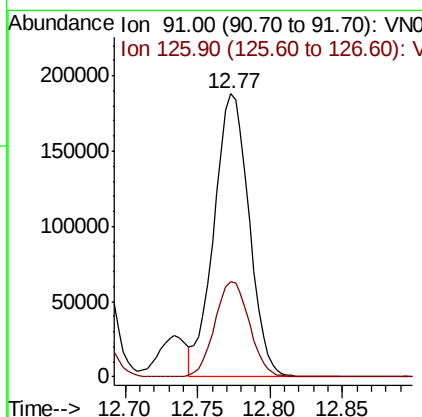
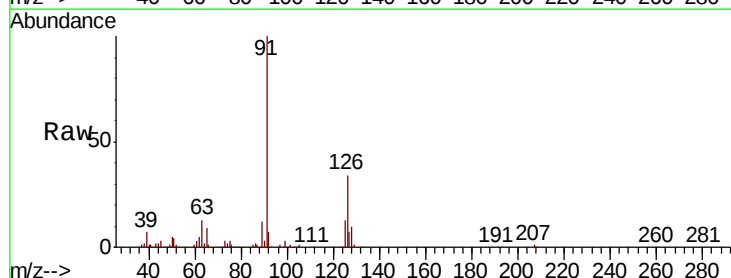
RT: 12.77 min Scan# 3421

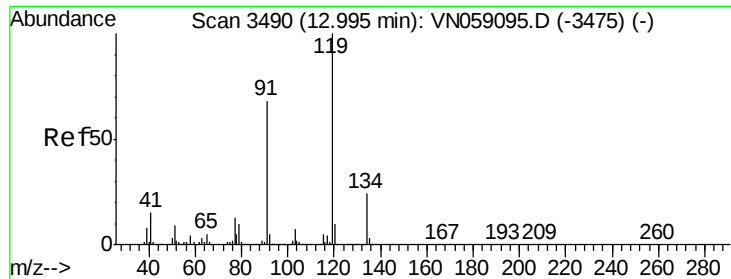
Delta R.T. -0.00 min

Lab File: VN059120.D

Acq: 7 Nov 2019 14:26

Tgt Ion:	91	Resp:	315346
Ion	Ratio	Lower	Upper
91	100		
126	33.4	16.1	48.2





#83

tert-Butylbenzene

Concen: 20.543 ug/l

RT: 12.99 min Scan# 3490

Delta R.T. -0.00 min

Lab File: VN059120.D

Acq: 7 Nov 2019 14:26

Instrument :

MSVOA_N

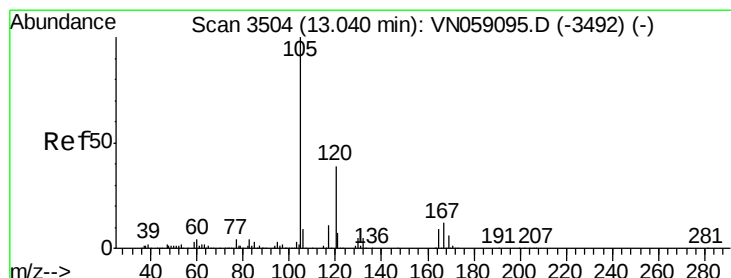
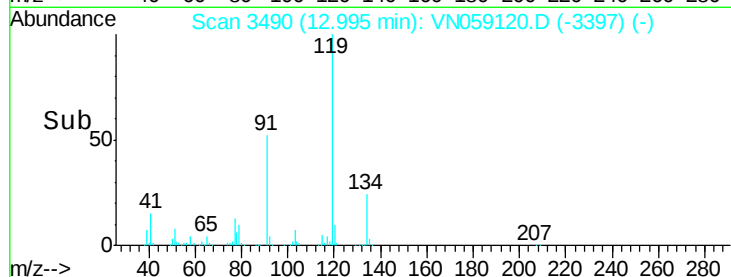
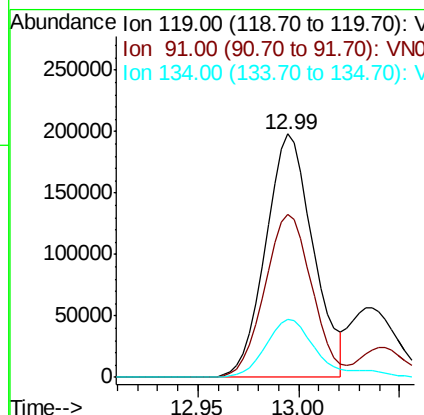
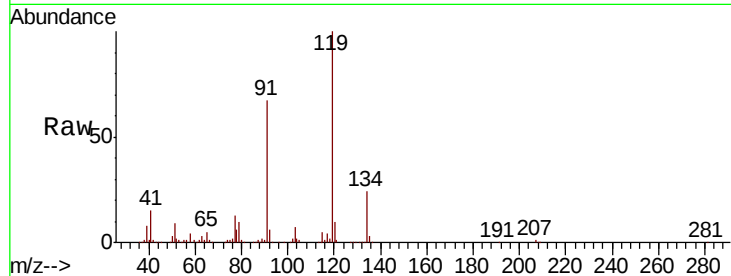
ClientSampleId :

VN1107WBS02

Tot Ion:	119	Resp:	324006
Ion Ratio	Lower	Upper	
119	100		
91	66.8	33.2	99.6
134	26.1	12.7	38.1

Manual Integrations
APPROVED

MMDadoda
11/8/2019 9:39:16 AM



#84

1,2,4-Trimethylbenzene

Concen: 20.809 ug/l

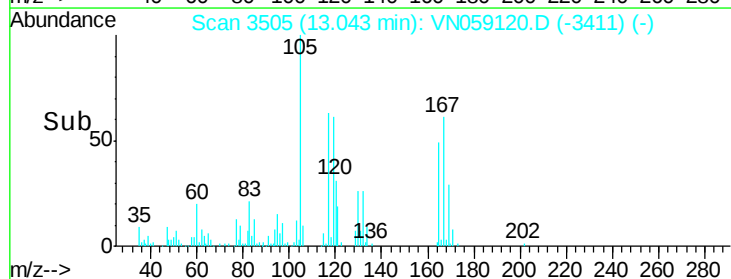
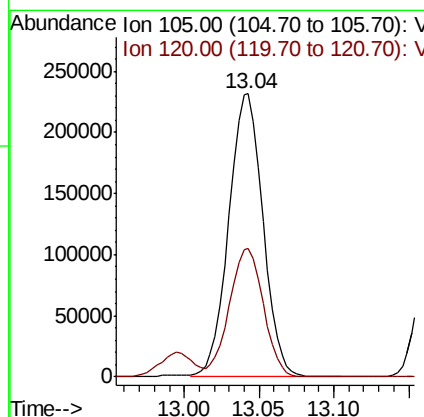
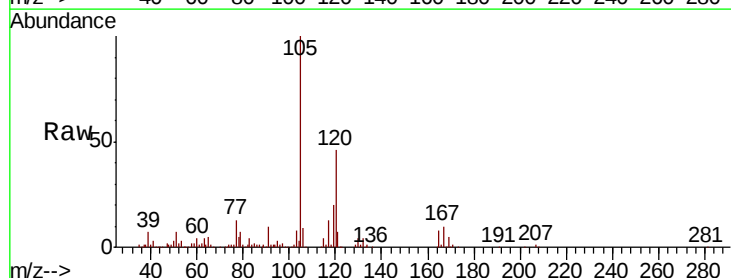
RT: 13.04 min Scan# 3505

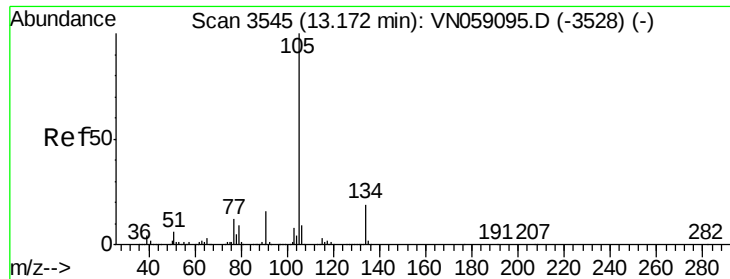
Delta R.T. 0.00 min

Lab File: VN059120.D

Acq: 7 Nov 2019 14:26

Tgt Ion:	105	Resp:	367701
Ion Ratio	Lower	Upper	
105	100		
120	45.4	22.8	68.4





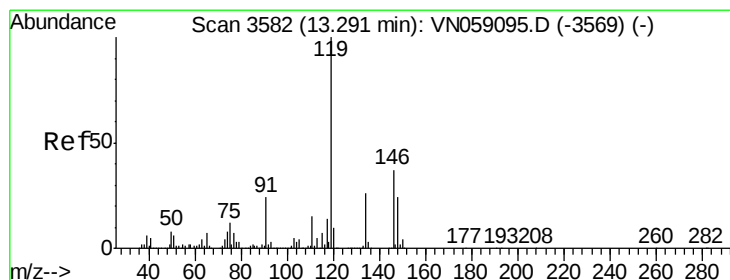
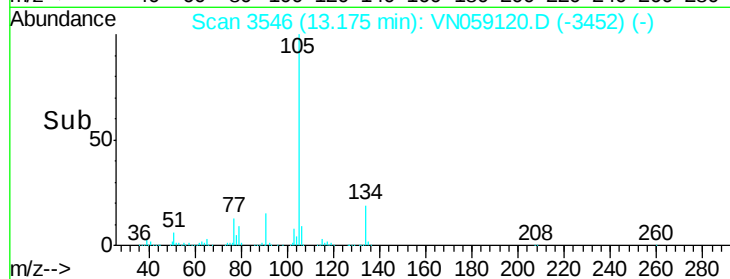
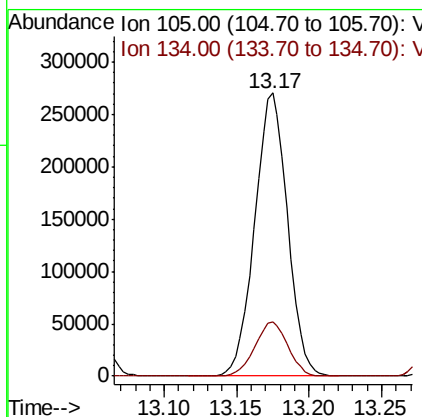
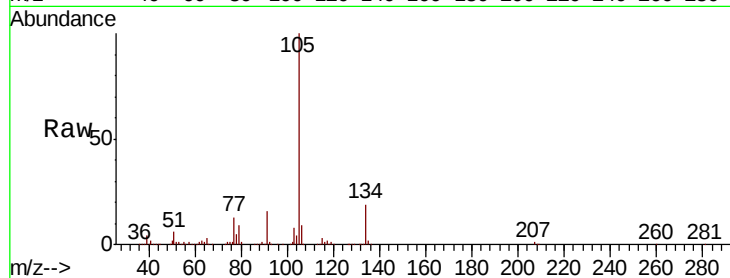
#85
 sec-Butylbenzene
 Concen: 20.733 ug/l
 RT: 13.17 min Scan# 3546
 Delta R.T. 0.00 min
 Lab File: VN059120.D
 Acq: 7 Nov 2019 14:26

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1107WBS02

Tot Ion	Ratio	Lower	Upper
105	100		
134	19.3	9.7	29.1

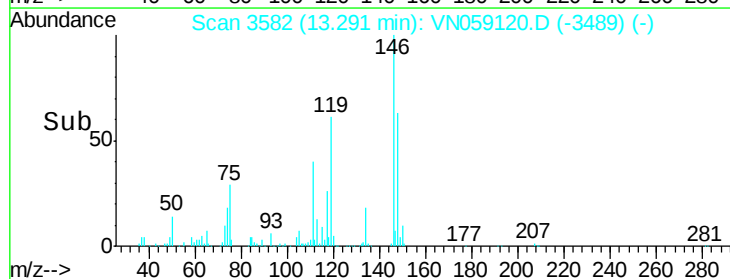
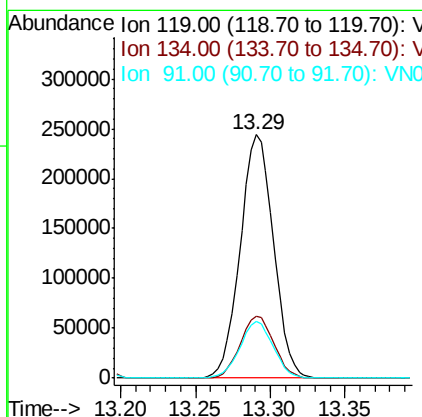
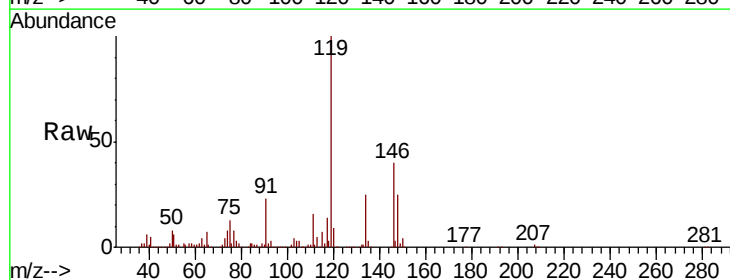
Manual Integrations
 APPROVED

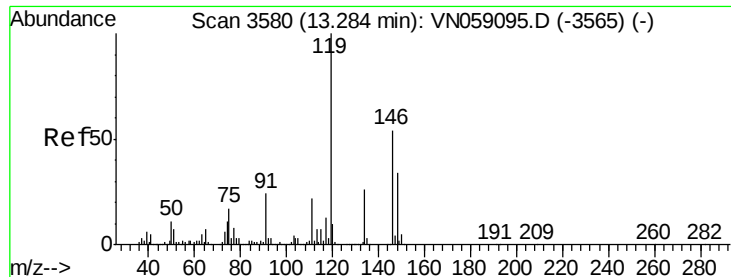
MMDadoda
 11/8/2019 9:39:16 AM



#86
 p-Isopropyltoluene
 Concen: 20.812 ug/l
 RT: 13.29 min Scan# 3582
 Delta R.T. -0.00 min
 Lab File: VN059120.D
 Acq: 7 Nov 2019 14:26

Tgt Ion	Ratio	Lower	Upper
119	100		
134	25.8	13.0	38.9
91	23.2	11.7	35.1





#87

1,3-Dichlorobenzene

Concen: 20.383 ug/l

RT: 13.28 min Scan# 3580

Delta R.T. -0.00 min

Lab File: VN059120.D

Acq: 7 Nov 2019 14:26

Instrument :

MSVOA_N

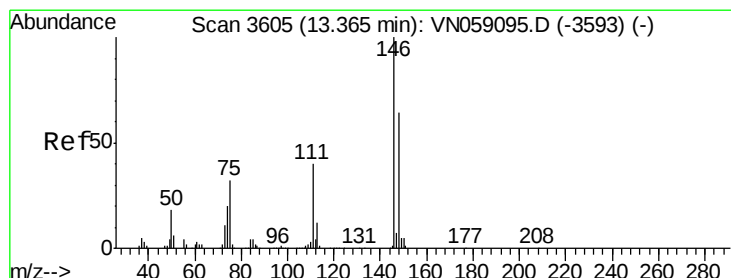
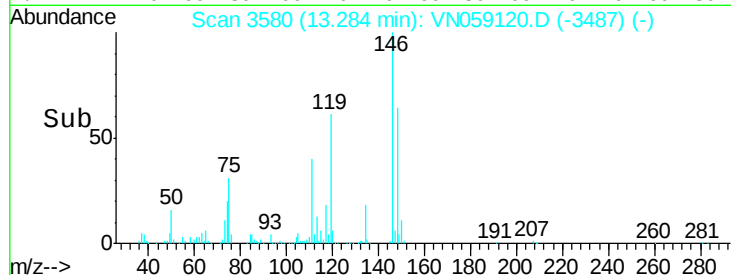
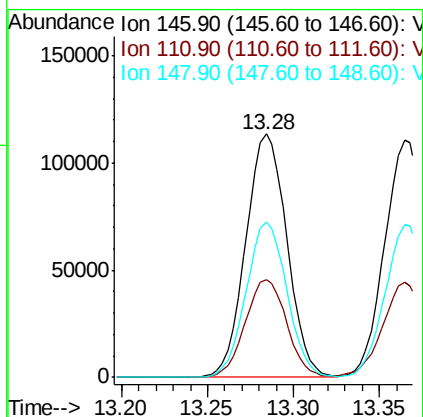
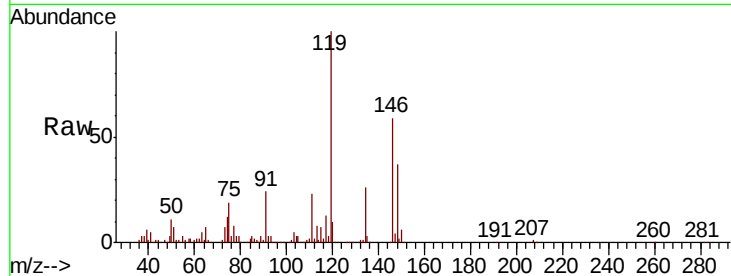
ClientSampleId :

VN1107WBS02

Tot Ion:	146	Resp:	189014
Ion Ratio		Lower	Upper
146	100		
111	40.4	20.4	61.3
148	63.1	32.2	96.6

Manual Integrations
APPROVED

MMDadoda
11/8/2019 9:39:16 AM



#88

1,4-Dichlorobenzene

Concen: 19.982 ug/l

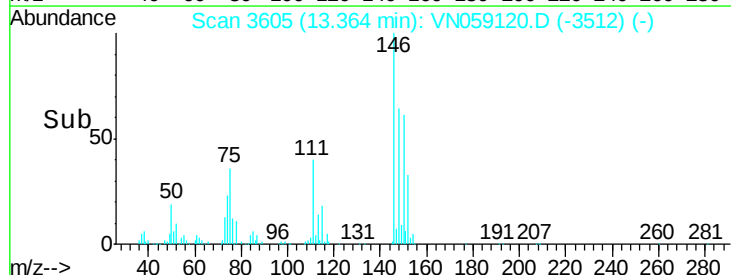
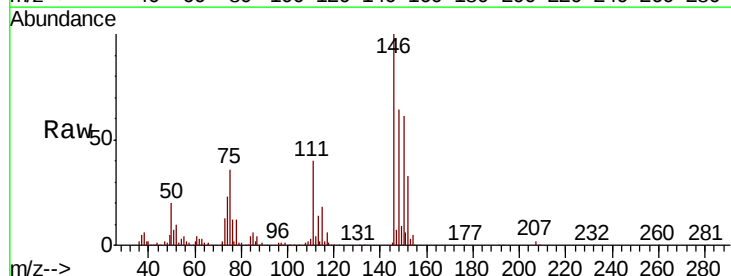
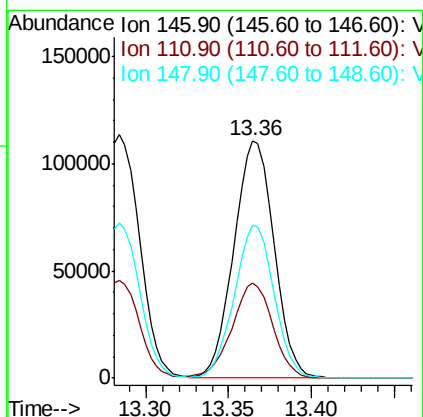
RT: 13.36 min Scan# 3605

Delta R.T. -0.00 min

Lab File: VN059120.D

Acq: 7 Nov 2019 14:26

Tgt Ion:	146	Resp:	185400
Ion Ratio		Lower	Upper
146	100		
111	40.7	20.3	60.9
148	64.3	31.9	95.7





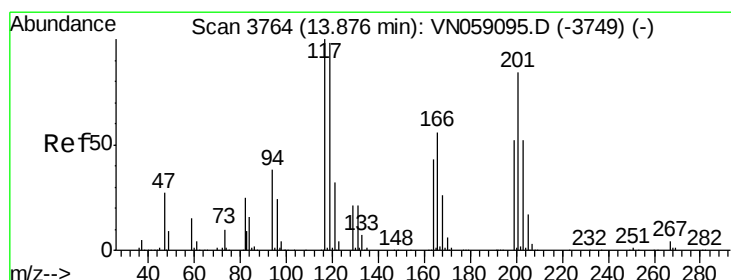
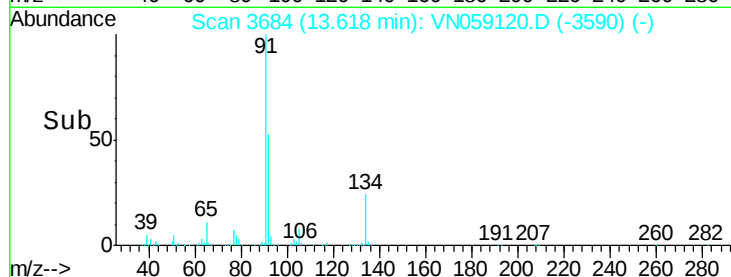
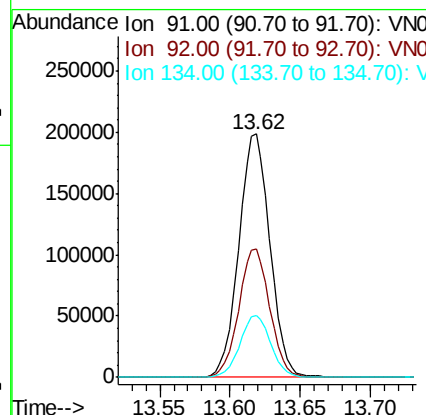
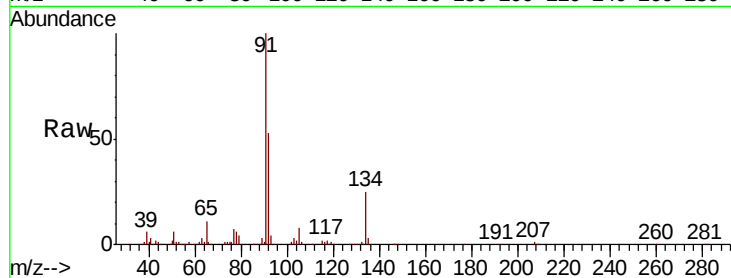
#89
n-Butylbenzene
Concen: 19.427 ug/l
RT: 13.62 min Scan# 3684
Delta R.T. 0.00 min
Lab File: VN059120.D
Acq: 7 Nov 2019 14:26

Instrument :
MSVOA_N
ClientSampleId :
VN1107WBS02

Tot Ion	Ratio	Lower	Upper
91	100		
92	52.5	26.1	78.3
134	25.1	12.6	37.8

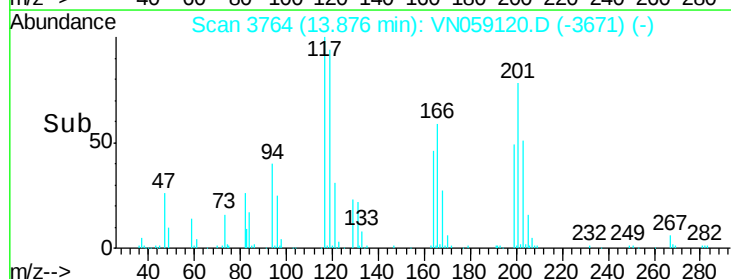
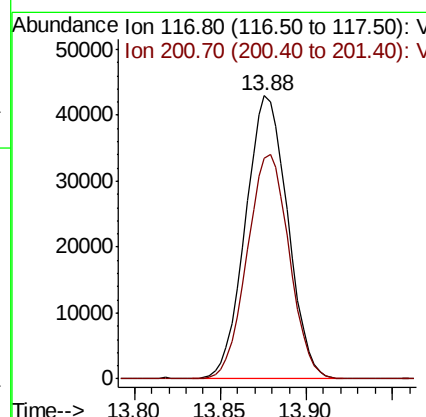
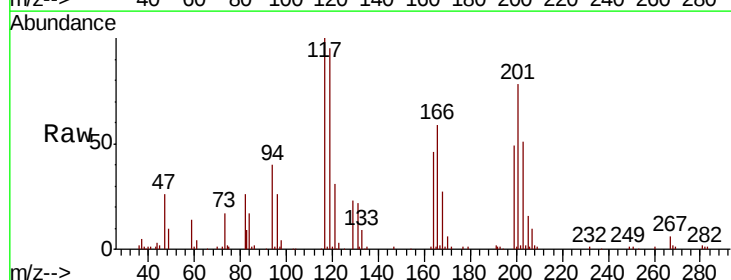
Manual Integrations
APPROVED

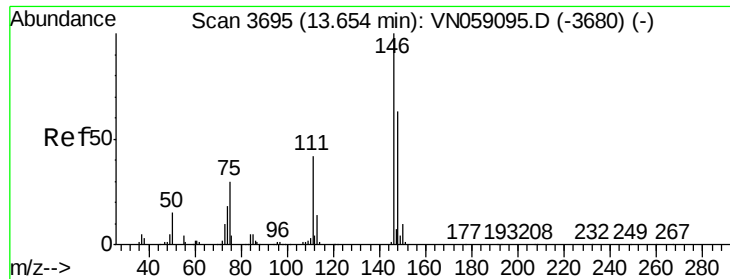
MMDadoda
11/8/2019 9:39:16 AM



#90
Hexachloroethane
Concen: 20.151 ug/l
RT: 13.88 min Scan# 3764
Delta R.T. -0.00 min
Lab File: VN059120.D
Acq: 7 Nov 2019 14:26

Tgt Ion	Ratio	Lower	Upper
117	100		
201	79.0	41.8	125.3





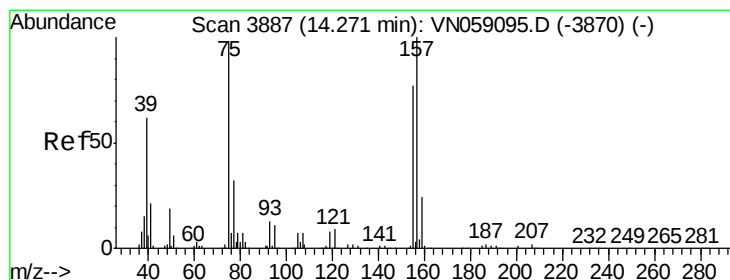
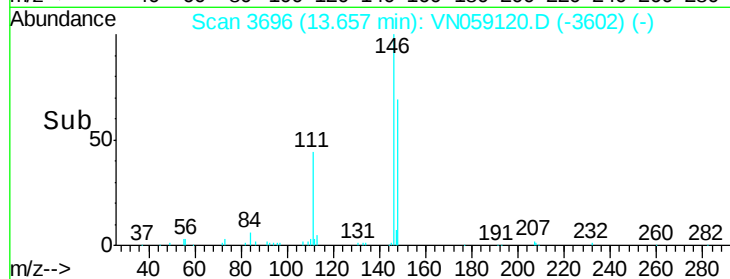
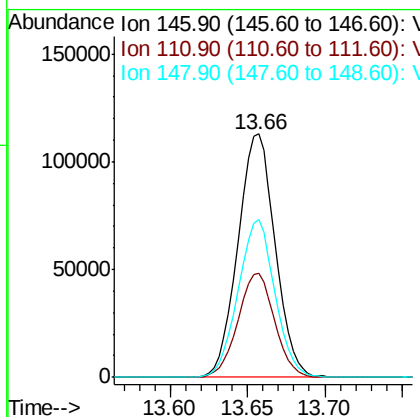
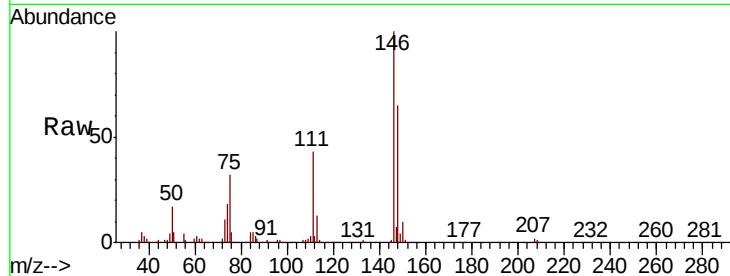
#91
 1,2-Dichlorobenzene
 Concen: 20.749 ug/l
 RT: 13.66 min Scan# 3696
 Delta R.T. 0.00 min
 Lab File: VN059120.D
 Acq: 7 Nov 2019 14:26

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1107WBS02

Tot Ion	Ratio	Lower	Upper
146	100		
111	42.2	21.2	63.6
148	64.0	31.6	94.7

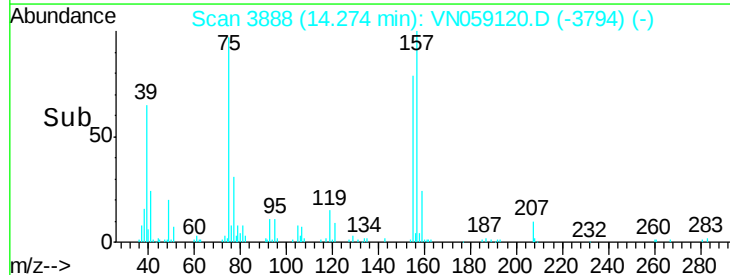
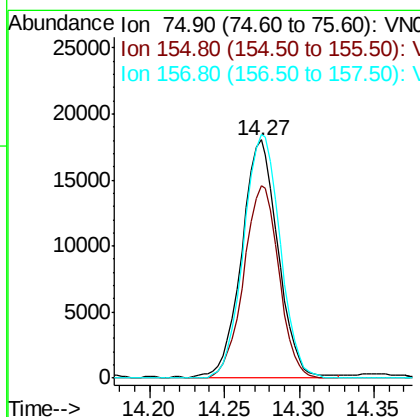
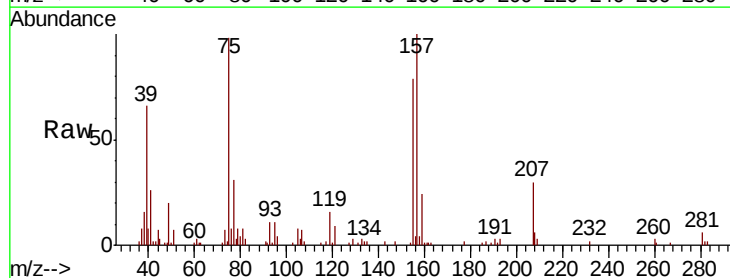
Manual Integrations
 APPROVED

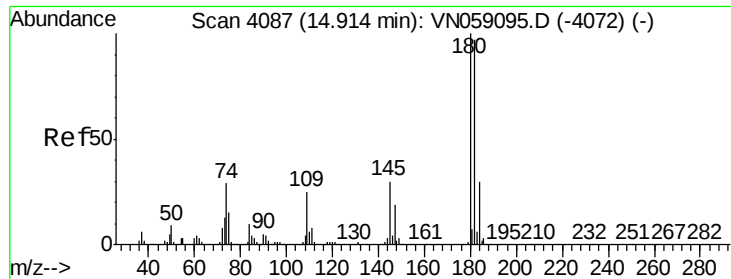
MMDadoda
 11/8/2019 9:39:16 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 20.954 ug/l
 RT: 14.27 min Scan# 3888
 Delta R.T. 0.00 min
 Lab File: VN059120.D
 Acq: 7 Nov 2019 14:26

Tgt Ion	Ratio	Lower	Upper
75	100		
155	77.5	40.2	120.6
157	102.3	51.8	155.5





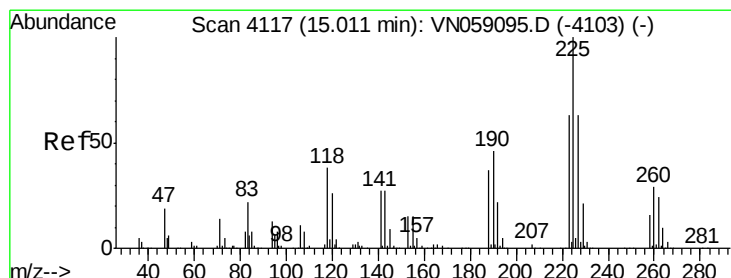
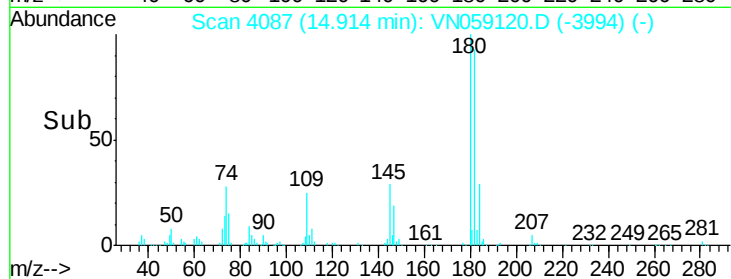
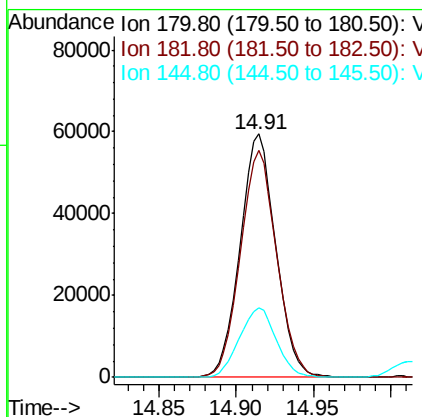
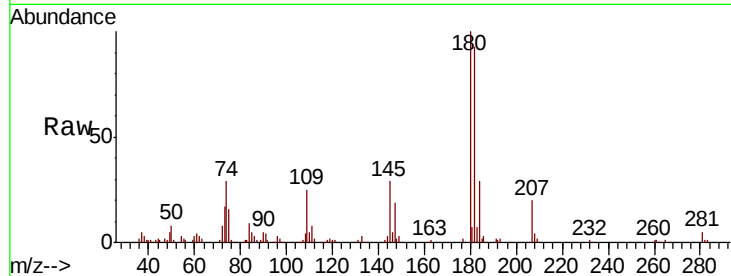
#93
 1,2,4-Trichlorobenzene
 Concen: 19.218 ug/l
 RT: 14.91 min Scan# 4087
 Delta R.T. 0.00 min
 Lab File: VN059120.D
 Acq: 7 Nov 2019 14:26

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1107WBS02

Tot Ion	Ratio	Resp	Lower	Upper
180	100			
182	94.8	48.1	144.3	
145	29.5	15.1	45.3	

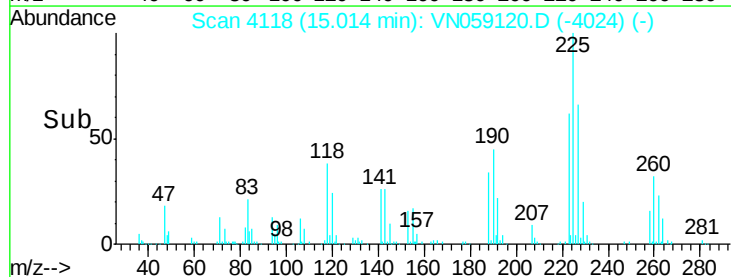
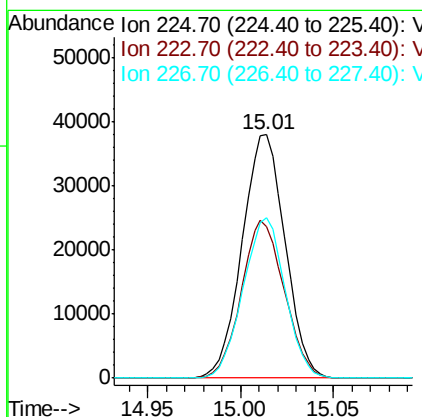
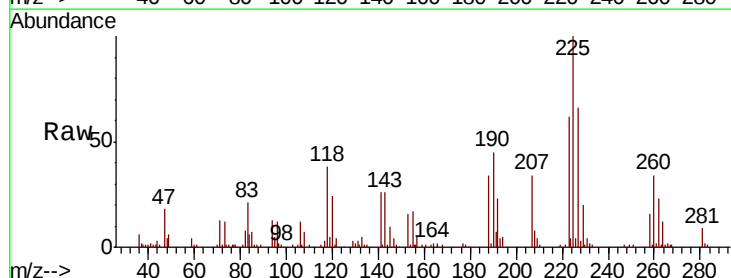
Manual Integrations
 APPROVED

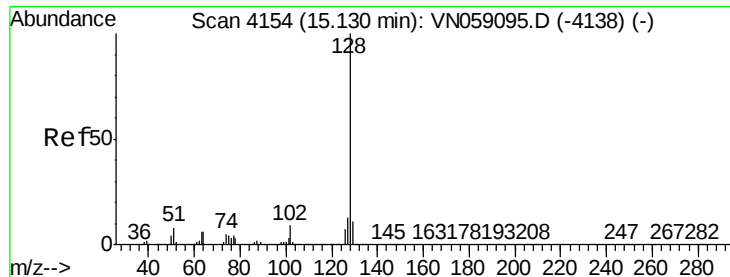
MMDadoda
 11/8/2019 9:39:16 AM



#94
 Hexachlorobutadiene
 Concen: 19.444 ug/l
 RT: 15.01 min Scan# 4118
 Delta R.T. 0.00 min
 Lab File: VN059120.D
 Acq: 7 Nov 2019 14:26

Tgt Ion	Ratio	Resp	Lower	Upper
225	100			
223	64.5	31.3	93.9	
227	64.3	31.5	94.5	





#95

Naphthalene

Concen: 18.746 ug/l

RT: 15.13 min Scan# 4154

Delta R.T. 0.00 min

Lab File: VN059120.D

Acq: 7 Nov 2019 14:26

Instrument :

MSVOA_N

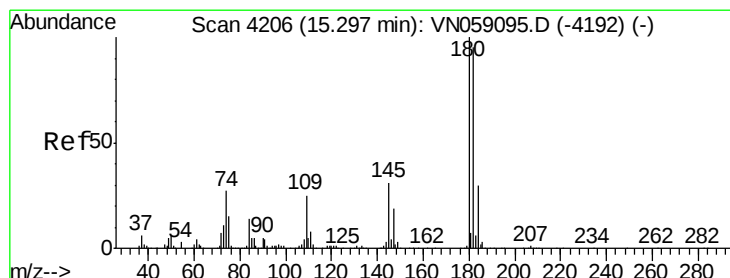
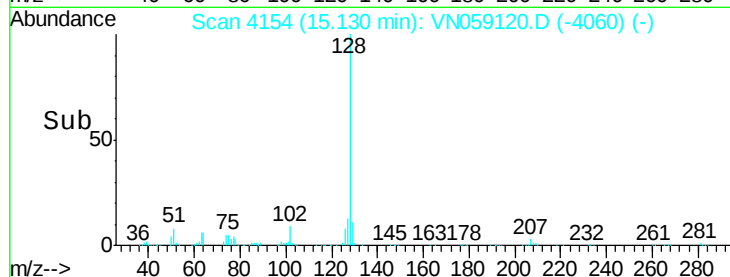
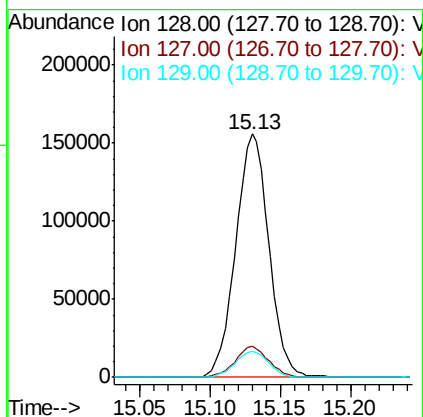
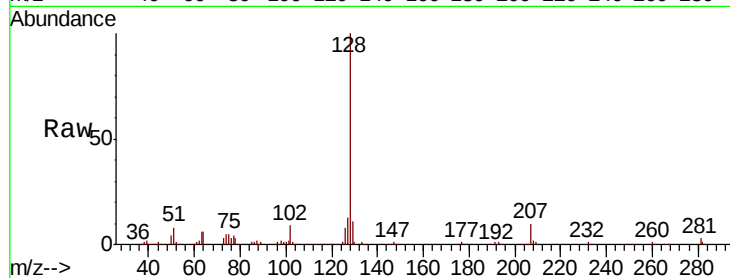
ClientSampleId :

VN1107WBS02

Tot Ion:	128	Resp:	256722
Ion Ratio	Lower	Upper	
128	100		
127	12.7	10.2	15.2
129	10.9	8.6	12.8

Manual Integrations
APPROVED

MMDadoda
11/8/2019 9:39:16 AM



#96

1,2,3-Trichlorobenzene

Concen: 19.365 ug/l

RT: 15.30 min Scan# 4206

Delta R.T. -0.00 min

Lab File: VN059120.D

Acq: 7 Nov 2019 14:26

Tgt Ion:	180	Resp:	98999
Ion Ratio	Lower	Upper	
180	100		
182	94.6	47.3	141.8
145	32.1	15.8	47.3

