

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN111919\
 Data File : VN059308.D
 Acq On : 19 Nov 2019 15:54
 Operator : JC/SP
 Sample : VN1119WBS04
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1119WBS04

Manual Integrations
 APPROVED

MMDadoda
 11/20/2019 1:37:09 PM

Quant Time: Nov 20 02:45:38 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	380538	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	600501	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	537201	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	244445	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.01	65	184439	39.43	ug/l	0.00
Spiked Amount	50.000		Recovery	=	78.86%	
35) Dibromofluoromethane	7.57	113	149496	41.69	ug/l	0.00
Spiked Amount	50.000		Recovery	=	83.38%	
50) Toluene-d8	10.08	98	549963	38.94	ug/l	0.00
Spiked Amount	50.000		Recovery	=	77.88%	
62) 4-Bromofluorobenzene	12.40	95	205710	40.40	ug/l	0.00
Spiked Amount	50.000		Recovery	=	80.80%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.83	85	95740	24.971	ug/l	99
3) Chloromethane	2.04	50	107966	20.716	ug/l	99
4) Vinyl Chloride	2.17	62	115071	22.773	ug/l	100
5) Bromomethane	2.55	94	60299	20.737	ug/l	95
6) Chloroethane	2.69	64	58658	19.624	ug/l	98
7) Trichlorofluoromethane	3.00	101	112671	18.642	ug/l	99
8) Diethyl Ether	3.39	74	46728	19.028	ug/l	100
9) 1,1,2-Trichlorotrifluoroet	3.74	101	70715	19.405	ug/l	99
10) Methyl Iodide	3.93	142	84344	18.699	ug/l	98
11) Tert butyl alcohol	4.75	59	73144	82.047	ug/l	99
12) 1,1-Dichloroethene	3.72	96	68985	19.433	ug/l	98
13) Acrolein	3.58	56	33020	71.840	ug/l	98
14) Allyl chloride	4.30	41	130671	17.920	ug/l	98
15) Acrylonitrile	4.95	53	206634	93.137	ug/l	99
16) Acetone	3.79	43	201980	83.032	ug/l	99
17) Carbon Disulfide	4.03	76	219870	19.953	ug/l	99
18) Methyl Acetate	4.30	43	116623	20.198	ug/l	98
19) Methyl tert-butyl Ether	5.01	73	227837	18.642	ug/l	99
20) Methylene Chloride	4.53	84	80792	19.064	ug/l	99
21) trans-1,2-Dichloroethene	5.01	96	76270	20.016	ug/l	95
22) Diisopropyl ether	5.92	45	251659	18.272	ug/l	96
23) Vinyl Acetate	5.87	43	998770	93.567	ug/l	100
24) 1,1-Dichloroethane	5.82	63	143383	18.639	ug/l	99
25) 2-Butanone	6.81	43	279935	87.317	ug/l	98
26) 2,2-Dichloropropane	6.80	77	122377	18.193	ug/l	99
27) cis-1,2-Dichloroethene	6.81	96	85099	19.250	ug/l	97
28) Bromochloromethane	7.18	49	29124	12.584	ug/l	98
29) Tetrahydrofuran	7.18	42	187158	91.877	ug/l	99
30) Chloroform	7.35	83	140712	19.068	ug/l	100
31) Cyclohexane	7.63	56	135069	18.547	ug/l	# 93
32) 1,1,1-Trichloroethane	7.55	97	116006	18.698	ug/l	99
36) 1,1-Dichloropropene	7.77	75	105576	18.809	ug/l	99
37) Ethyl Acetate	6.90	43	115087	18.431	ug/l	98
38) Carbon Tetrachloride	7.75	117	101788	18.220	ug/l	96

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN111919\
 Data File : VN059308.D
 Acq On : 19 Nov 2019 15:54
 Operator : JC/SP
 Sample : VN1119WBS04
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleID :
 VN1119WBS04

Manual Integrations
 APPROVED

MMDadoda
 11/20/2019 1:37:09 PM

Quant Time: Nov 20 02:45:38 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	129489	19.878	ug/l	97
40) Benzene	8.02	78	317597	18.790	ug/l	100
41) Methacrylonitrile	7.16	41	49027m	18.056	ug/l	
42) 1,2-Dichloroethane	8.10	62	106501	18.371	ug/l	99
43) Isopropyl Acetate	8.15	43	172176	17.296	ug/l	93
44) Trichloroethene	8.82	130	79277	19.080	ug/l	95
45) 1,2-Dichloropropane	9.10	63	84774	18.465	ug/l	99
46) Dibromomethane	9.19	93	52654	18.405	ug/l	99
47) Bromodichloromethane	9.39	83	102682	17.974	ug/l	98
48) Methyl methacrylate	9.18	41	75620	16.983	ug/l	96
49) 1,4-Dioxane	9.18	88	24991	315.812	ug/l	96
51) 4-Methyl-2-Pentanone	9.97	43	534835	94.952	ug/l	100
52) Toluene	10.15	92	192995	19.050	ug/l	99
53) t-1,3-Dichloropropene	10.37	75	117046	17.734	ug/l	99
54) cis-1,3-Dichloropropene	9.83	75	130474	18.378	ug/l	99
55) 1,1,2-Trichloroethane	10.55	97	74463	18.161	ug/l	98
56) Ethyl methacrylate	10.42	69	109974	17.352	ug/l	98
57) 1,3-Dichloropropane	10.70	76	130868	18.545	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.69	63	147734	64.745	ug/l	99
59) 2-Hexanone	10.75	43	387447	89.617	ug/l	99
60) Dibromochloromethane	10.90	129	77839	17.956	ug/l	100
61) 1,2-Dibromoethane	11.00	107	77334	18.632	ug/l	98
64) Tetrachloroethene	10.63	164	69978	19.157	ug/l	97
65) Chlorobenzene	11.43	112	200396	19.136	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.51	131	73359	18.674	ug/l	99
67) Ethyl Benzene	11.51	91	358676	19.304	ug/l	100
68) m/p-Xylenes	11.62	106	264693	38.032	ug/l	100
69) o-Xylene	11.95	106	126130	18.753	ug/l	99
70) Styrene	11.96	104	196919	18.616	ug/l	100
71) Bromoform	12.13	173	54708	17.904	ug/l #	99
73) Isopropylbenzene	12.25	105	339347	19.085	ug/l	99
74) N-amyl acetate	12.07	43	128577	17.065	ug/l	97
75) 1,1,2,2-Tetrachloroethane	12.51	83	111154	18.357	ug/l	99
76) 1,2,3-Trichloropropane	12.55	75	102367m	18.394	ug/l	
77) Bromobenzene	12.53	156	81138	18.162	ug/l	98
78) n-propylbenzene	12.59	91	387596	19.038	ug/l	99
79) 2-Chlorotoluene	12.68	91	231308	18.314	ug/l	100
80) 1,3,5-Trimethylbenzene	12.73	105	286308	19.003	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.30	75	36745	17.439	ug/l	99
82) 4-Chlorotoluene	12.78	91	234481	18.510	ug/l	98
83) tert-Butylbenzene	12.99	119	240556	18.488	ug/l	99
84) 1,2,4-Trimethylbenzene	13.04	105	279504	19.174	ug/l	99
85) sec-Butylbenzene	13.17	105	325199	19.218	ug/l	100
86) p-Isopropyltoluene	13.29	119	289324	19.364	ug/l	99
87) 1,3-Dichlorobenzene	13.28	146	139355	18.217	ug/l	100
88) 1,4-Dichlorobenzene	13.36	146	139119	18.176	ug/l	99
89) n-Butylbenzene	13.62	91	247901	18.956	ug/l	99
90) Hexachloroethane	13.88	117	52578	17.524	ug/l	96
91) 1,2-Dichlorobenzene	13.66	146	138127	18.355	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.27	75	20876	17.298	ug/l	97

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN111919\
Data File : VN059308.D
Acq On : 19 Nov 2019 15:54
Operator : JC/SP
Sample : VN1119WBS04
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN1119WBS04

Manual Integrations
APPROVED

MMDadoda
11/20/2019 1:37:09 PM

Quant Time: Nov 20 02:45:38 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	71564	17.766	ug/l	99
94) Hexachlorobutadiene	15.01	225	48838	18.822	ug/l	99
95) Naphthalene	15.13	128	185465	16.795	ug/l	100
96) 1,2,3-Trichlorobenzene	15.30	180	71619	16.982	ug/l	99

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

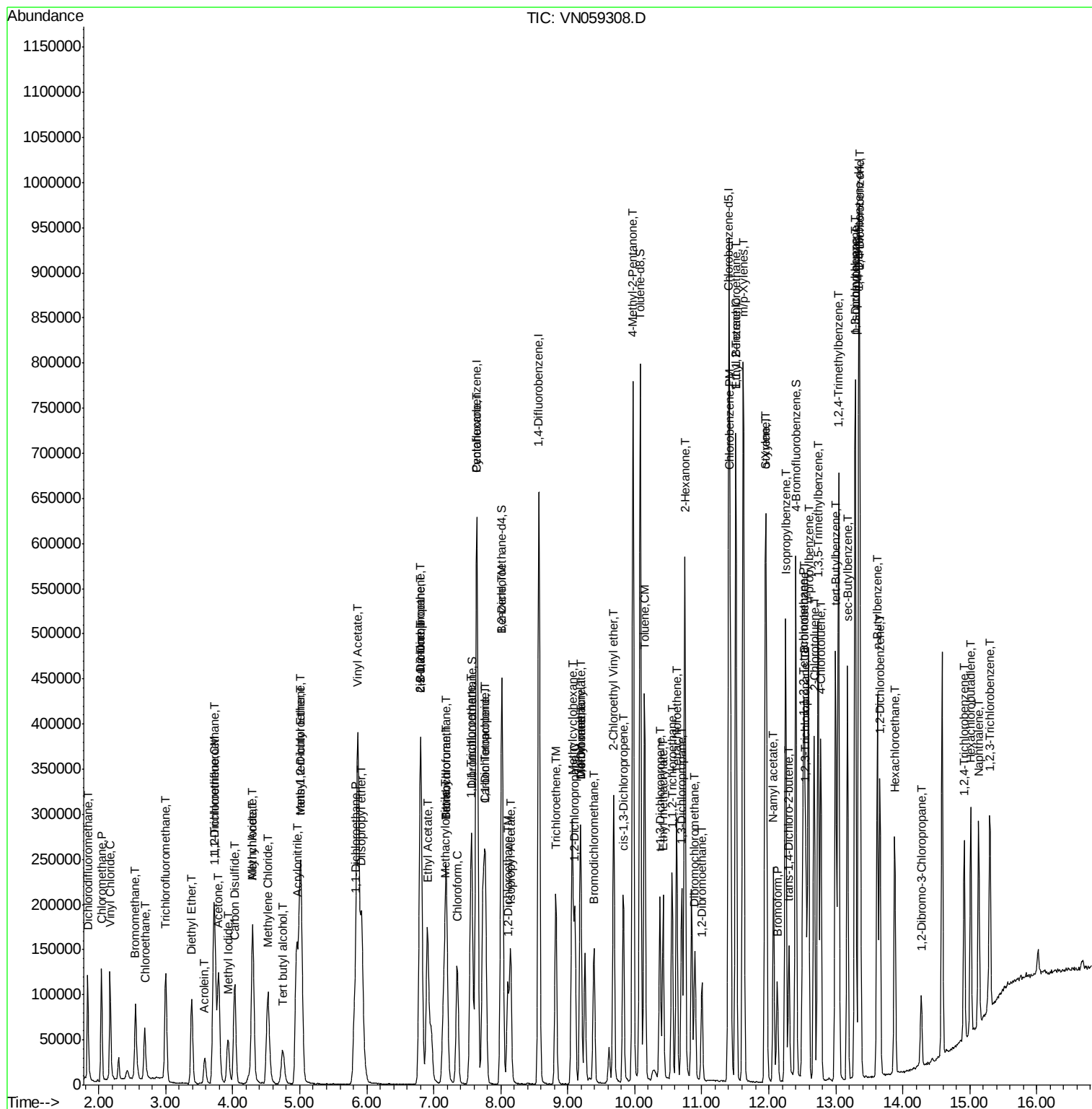
Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN111919\
Data File : VN059308.D
Acq On : 19 Nov 2019 15:54
Operator : JC/SP
Sample : VN1119WBS04
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 13 Sample Multiplier: 1

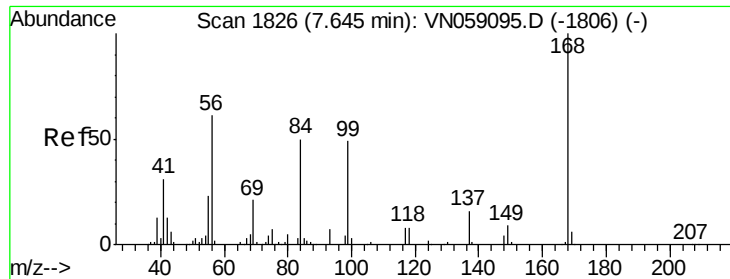
Instrument :
MSVOA_N
Client Sample ID :
VN1119WBS04

Manual Integrations
APPROVED

MMDadoda
11/20/2019 1:37:09 PM

Quant Time: Nov 20 02:45:38 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





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. -0.00 min

Lab File: VN059308.D

Acq: 19 Nov 2019 15:54

Instrument :

MSVOA_N

ClientSampleId :

VN1119WBS04

Tot Ion:168 Resp: 380538

Ion Ratio Lower Upper

168 100

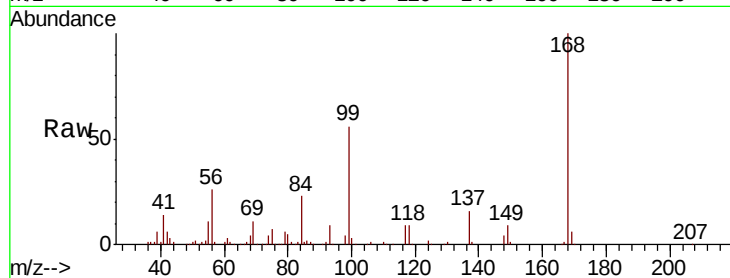
99 56.0 45.7 68.5

Manual Integrations

APPROVED

MMDadoda

11/20/2019 1:37:09 PM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.64

150000

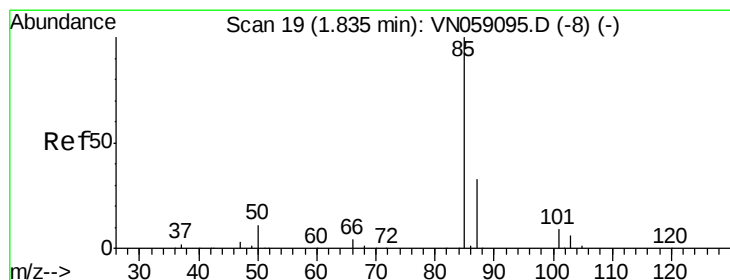
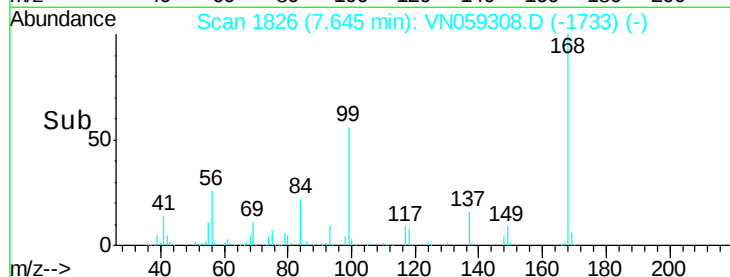
100000

50000

0

7.60 7.70

Time-->



#2

Dichlorodifluoromethane

Concen: 24.971 ug/l

RT: 1.83 min Scan# 19

Delta R.T. -0.00 min

Lab File: VN059308.D

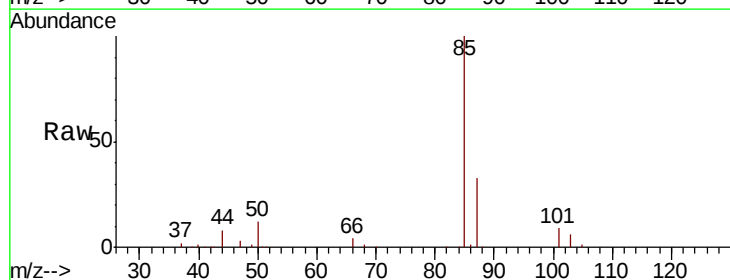
Acq: 19 Nov 2019 15:54

Tgt Ion: 85 Resp: 95740

Ion Ratio Lower Upper

85 100

87 33.0 16.3 48.9



Abundance Ion 84.90 (84.60 to 85.60): VN

Ion 86.90 (86.60 to 87.60): VN

1.83

60000

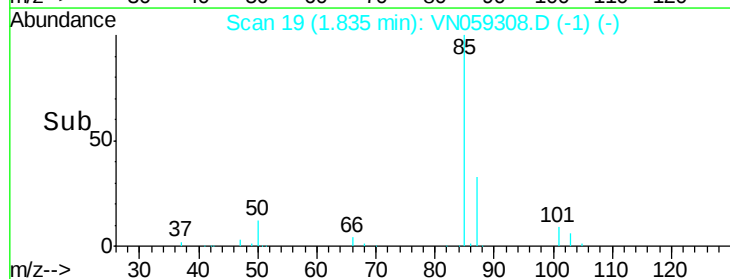
40000

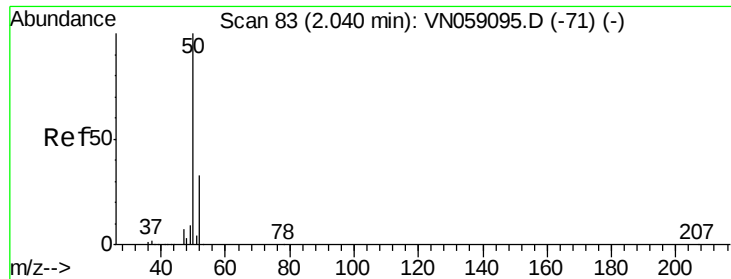
20000

0

1.75 1.80 1.85 1.90 1.95

Time-->





#3

Chloromethane

Concen: 20.716 ug/l

RT: 2.04 min Scan# 83

Delta R.T. -0.00 min

Lab File: VN059308.D

Acq: 19 Nov 2019 15:54

Instrument :

MSVOA_N

ClientSampleId :

VN1119WBS04

Tot Ion: 50 Resp: 107966

Ion Ratio Lower Upper

50 100

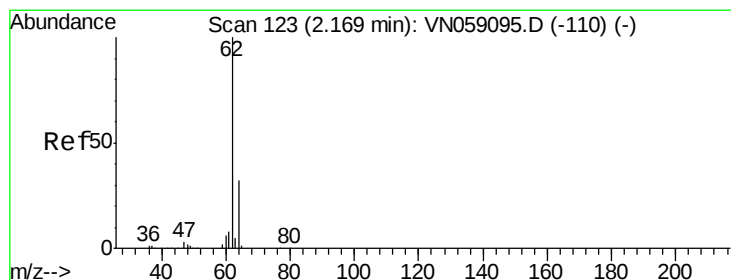
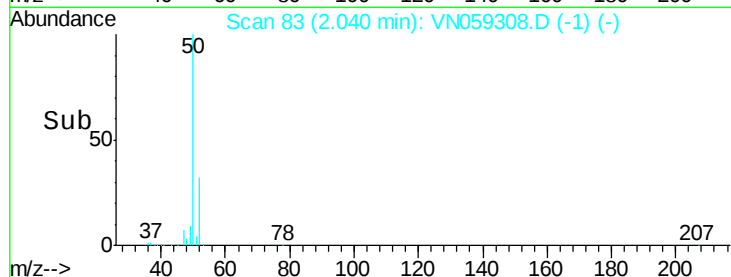
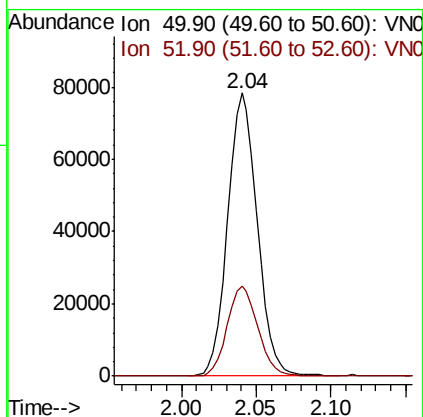
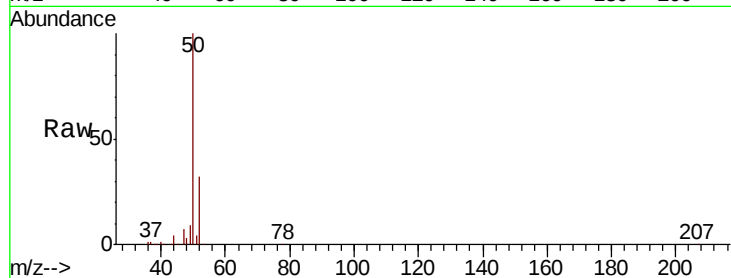
52 32.0 26.0 39.0

Manual Integrations

APPROVED

MMDadoda

11/20/2019 1:37:09 PM



#4

Vinyl Chloride

Concen: 22.773 ug/l

RT: 2.17 min Scan# 123

Delta R.T. -0.00 min

Lab File: VN059308.D

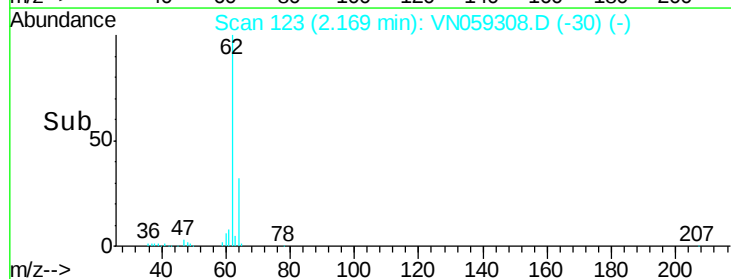
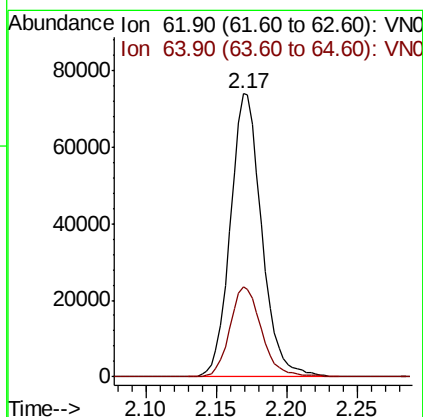
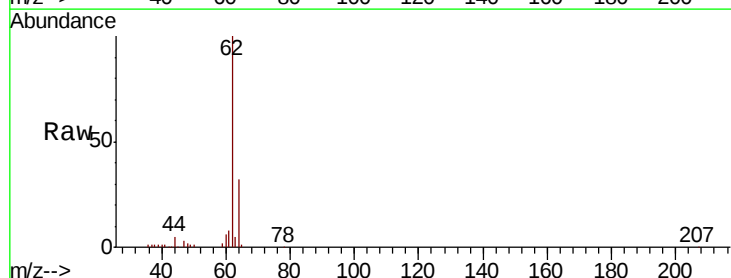
Acq: 19 Nov 2019 15:54

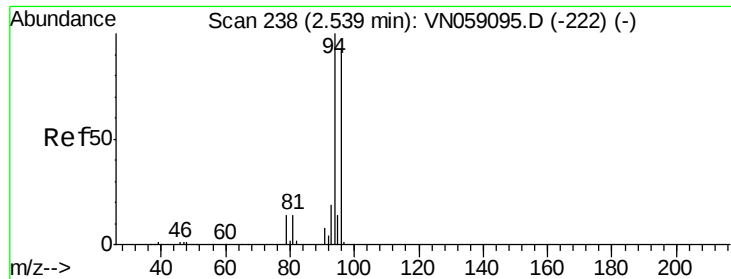
Tgt Ion: 62 Resp: 115071

Ion Ratio Lower Upper

62 100

64 31.9 25.4 38.2





#5

Bromomethane

Concen: 20.737 ug/l

RT: 2.55 min Scan# 241

Delta R.T. 0.01 min

Lab File: VN059308.D

Acq: 19 Nov 2019 15:54

Instrument :

MSVOA_N

ClientSampleId :

VN1119WBS04

Tot Ion: 94 Resp: 60299

Ion Ratio Lower Upper

94 100

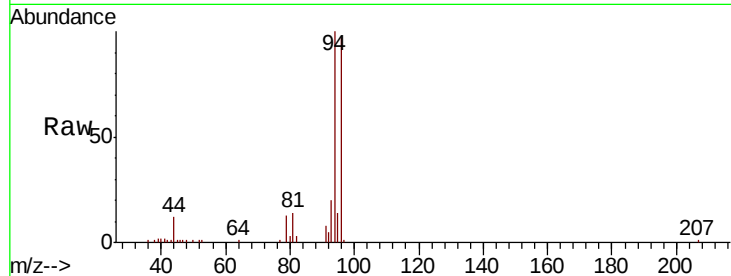
96 97.3 74.2 111.2

Manual Integrations

APPROVED

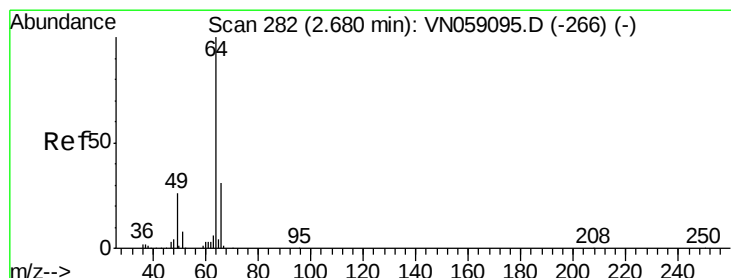
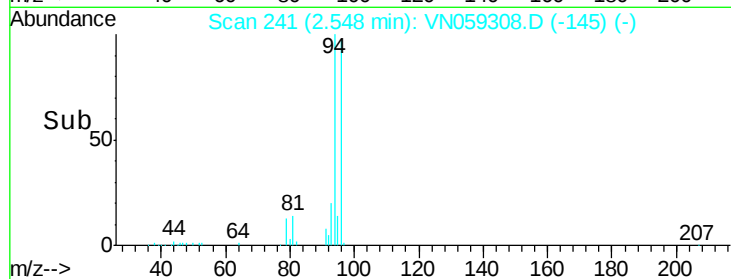
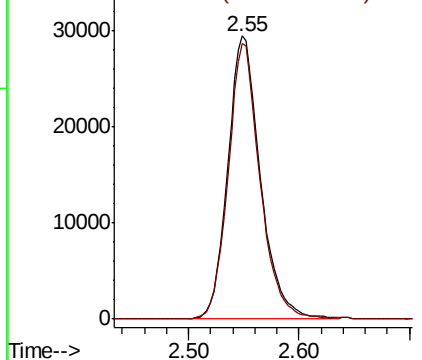
MMDadoda

11/20/2019 1:37:09 PM



Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO



#6

Chloroethane

Concen: 19.624 ug/l

RT: 2.69 min Scan# 284

Delta R.T. 0.01 min

Lab File: VN059308.D

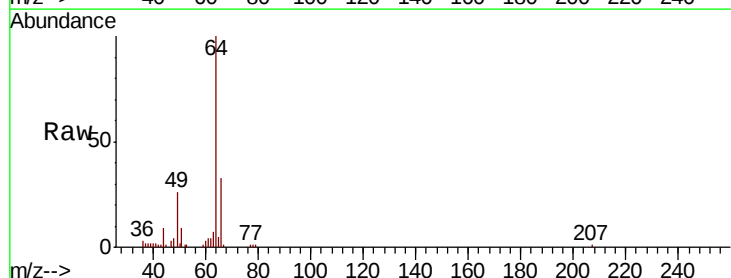
Acq: 19 Nov 2019 15:54

Tgt Ion: 64 Resp: 58658

Ion Ratio Lower Upper

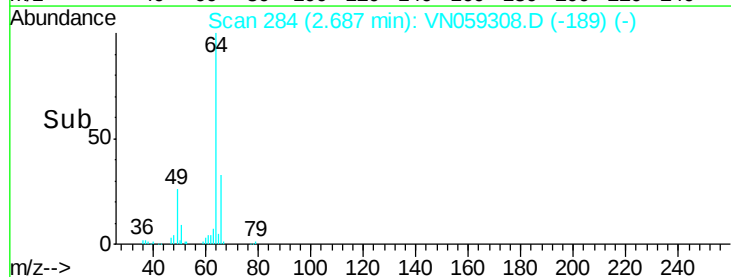
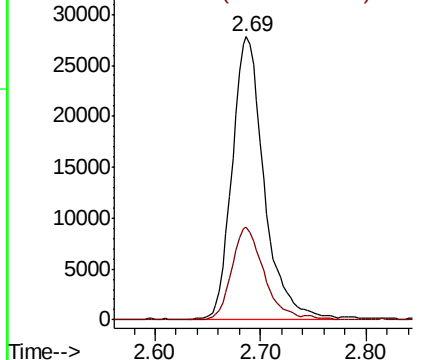
64 100

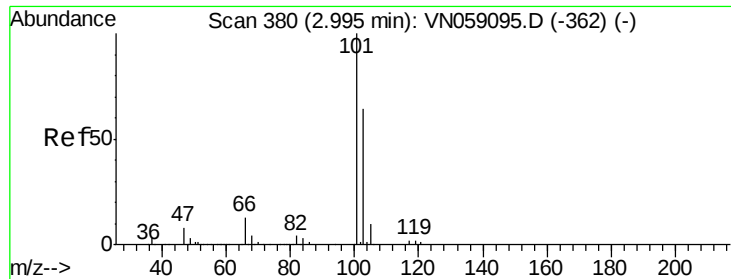
66 32.7 25.2 37.8



Abundance Ion 63.90 (63.60 to 64.60): VNO

Ion 65.90 (65.60 to 66.60): VNO





#7

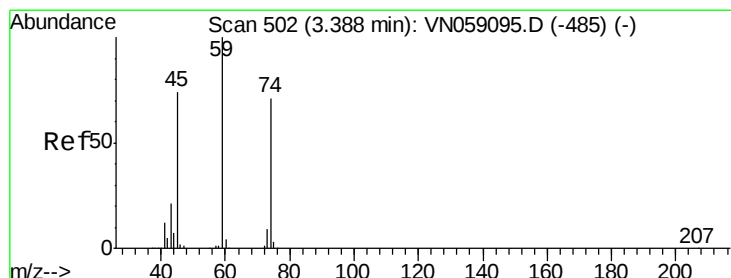
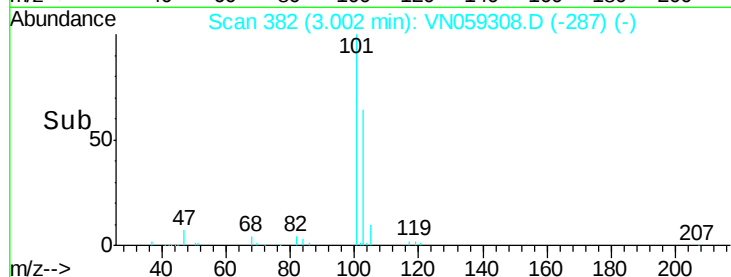
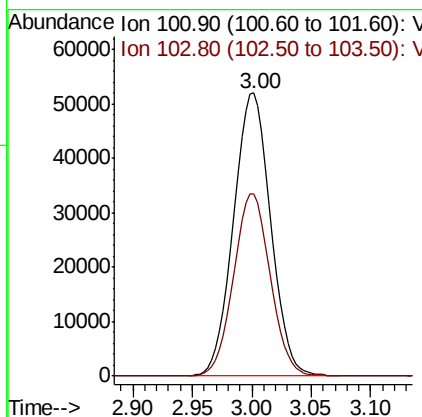
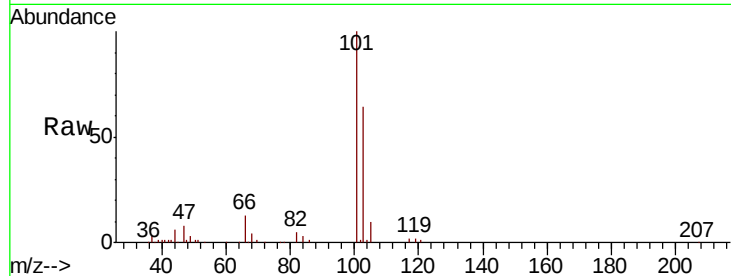
Trichlorofluoromethane
 Concen: 18.642 ug/l
 RT: 3.00 min Scan# 382
 Delta R.T. 0.01 min
 Lab File: VN059308.D
 Acq: 19 Nov 2019 15:54

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1119WBS04

Tot Ion	Ratio	Lower	Upper
101	100		
103	64.4	51.2	76.8

Manual Integrations
 APPROVED

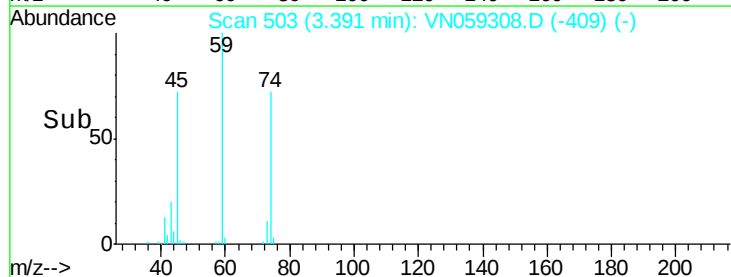
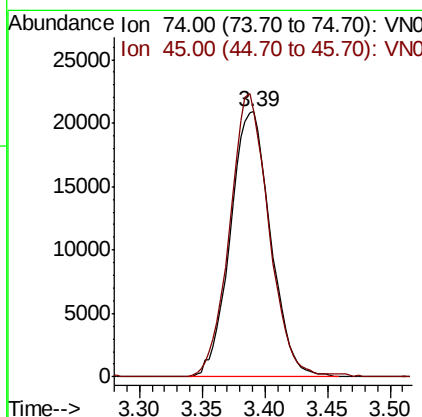
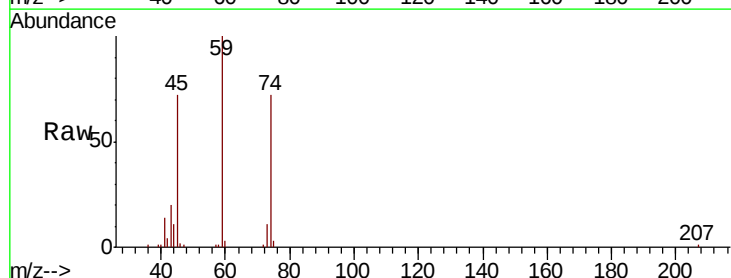
MMDadoda
 11/20/2019 1:37:09 PM

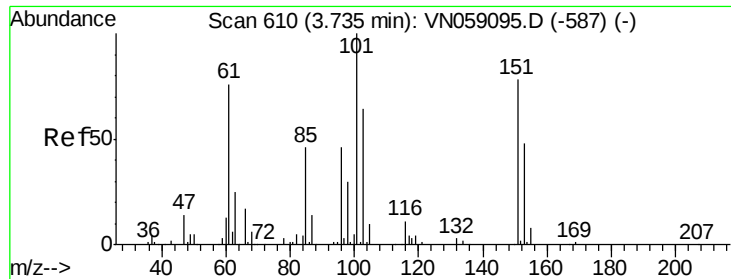


#8

Diethyl Ether
 Concen: 19.028 ug/l
 RT: 3.39 min Scan# 503
 Delta R.T. 0.00 min
 Lab File: VN059308.D
 Acq: 19 Nov 2019 15:54

Tgt Ion	Ratio	Lower	Upper
74	100		
45	103.4	51.6	154.9





#9

1,1,2-Trichlorotrifluoroethane

Concen: 19.405 ug/l

RT: 3.74 min Scan# 611

Delta R.T. 0.00 min

Lab File: VN059308.D

Acq: 19 Nov 2019 15:54

Instrument :

MSVOA_N

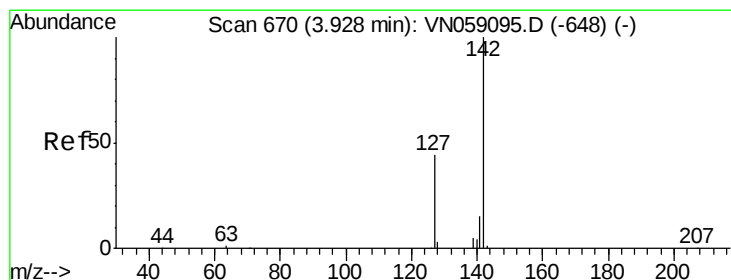
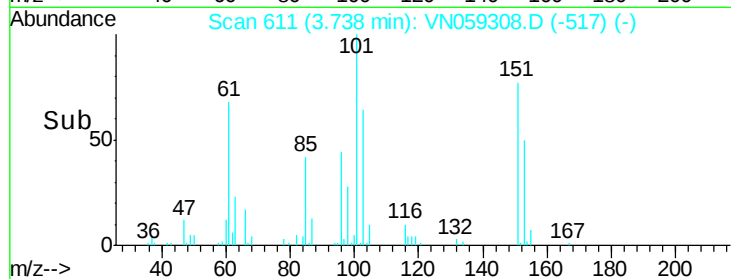
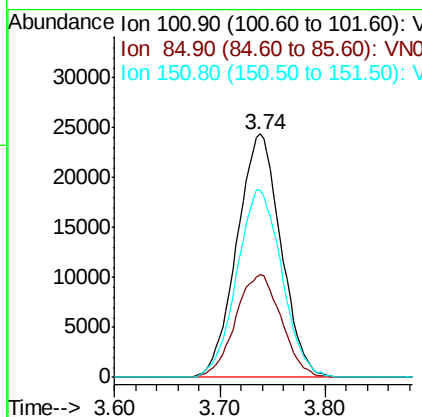
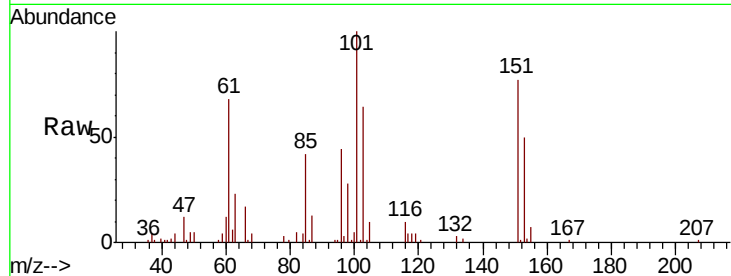
ClientSampleId :

VN1119WBS04

Tot Ion:	101	Resp:	70715
Ion Ratio	Lower	Upper	
101	100		
85	43.9	35.5	53.3
151	78.6	62.2	93.2

Manual Integrations
APPROVED

MMDadoda
11/20/2019 1:37:09 PM



#10

Methyl Iodide

Concen: 18.699 ug/l

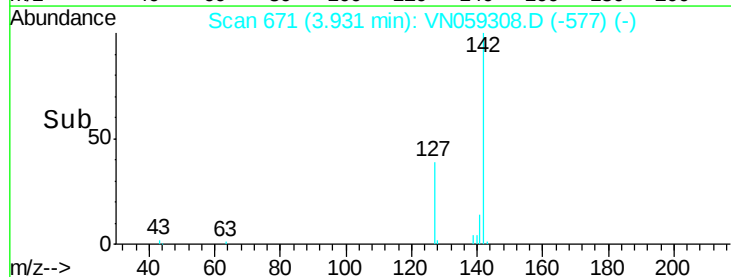
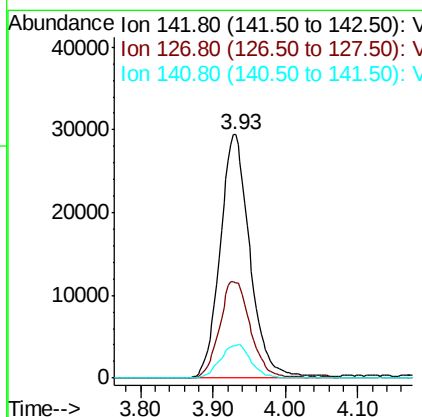
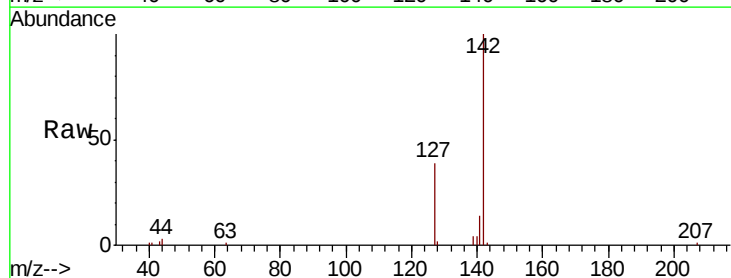
RT: 3.93 min Scan# 671

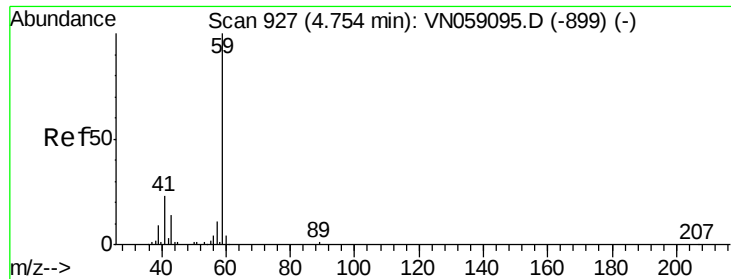
Delta R.T. 0.00 min

Lab File: VN059308.D

Acq: 19 Nov 2019 15:54

Tgt Ion:	142	Resp:	84344
Ion Ratio	Lower	Upper	
142	100		
127	41.0	34.2	51.2
141	14.0	11.4	17.0





#11

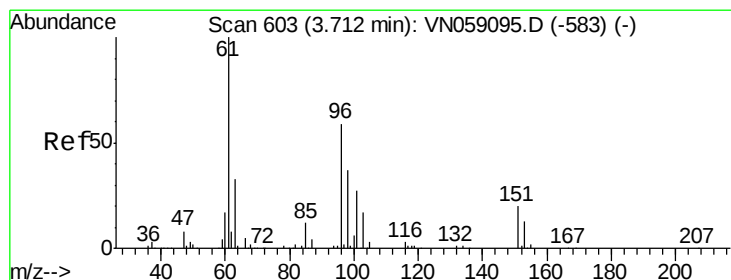
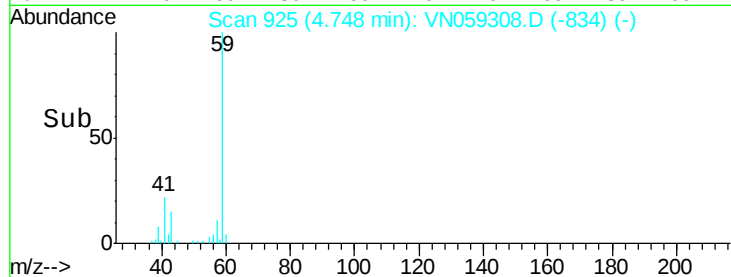
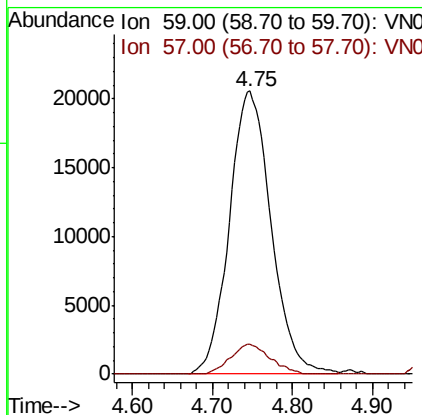
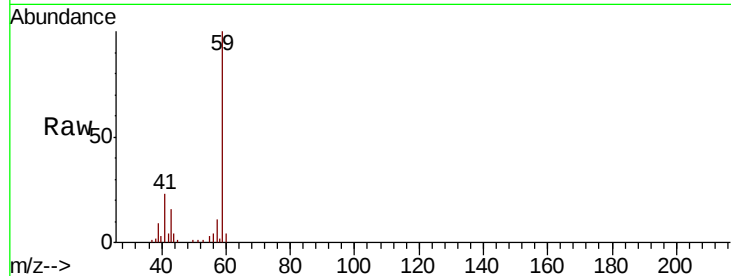
Tert butyl alcohol
 Concen: 82.047 ug/l
 RT: 4.75 min Scan# 925
 Delta R.T. -0.01 min
 Lab File: VN059308.D
 Acq: 19 Nov 2019 15:54

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1119WBS04

Tot Ion	59	Resp	73144
Ion	Ratio	Lower	Upper
59	100		
57	10.0	8.3	12.5

Manual Integrations
 APPROVED

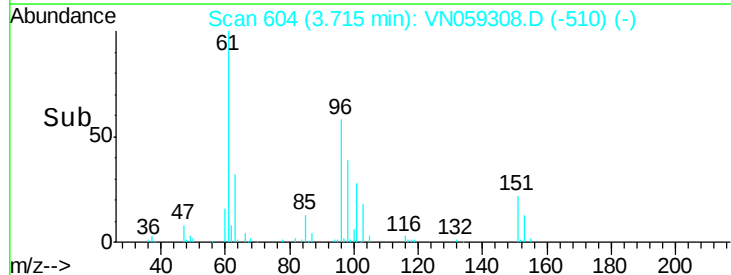
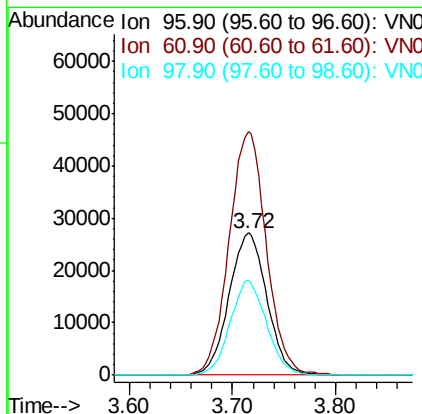
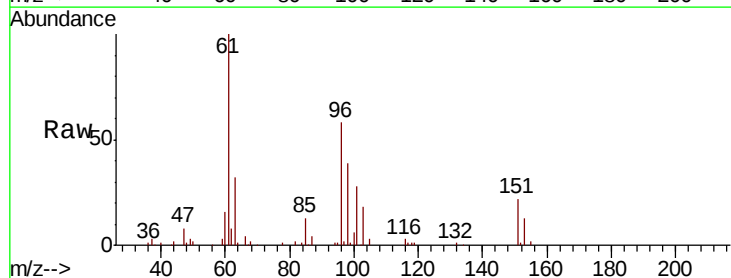
MMDadoda
 11/20/2019 1:37:09 PM

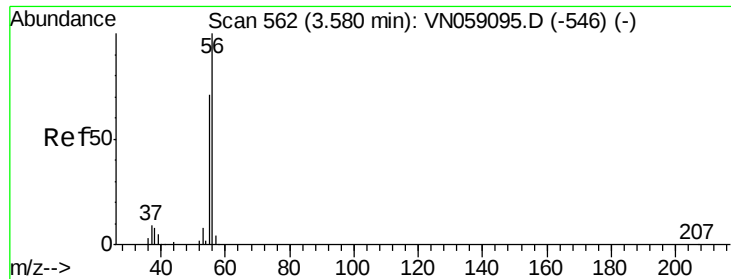


#12

1,1-Dichloroethene
 Concen: 19.433 ug/l
 RT: 3.72 min Scan# 604
 Delta R.T. 0.00 min
 Lab File: VN059308.D
 Acq: 19 Nov 2019 15:54

Tgt Ion	96	Resp	68985
Ion	Ratio	Lower	Upper
96	100		
61	171.1	136.5	204.7
98	66.8	50.2	75.4





#13

Acrolein

Concen: 71.840 ug/l

RT: 3.58 min Scan# 562

Delta R.T. -0.00 min

Lab File: VN059308.D

Acq: 19 Nov 2019 15:54

Instrument :

MSVOA_N

ClientSampleId :

VN1119WBS04

Tot Ion: 56 Resp: 33020

Ion Ratio Lower Upper

56 100

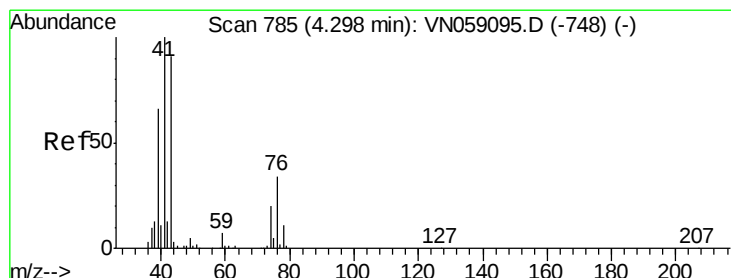
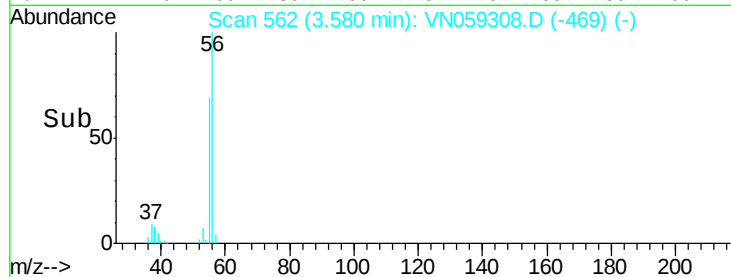
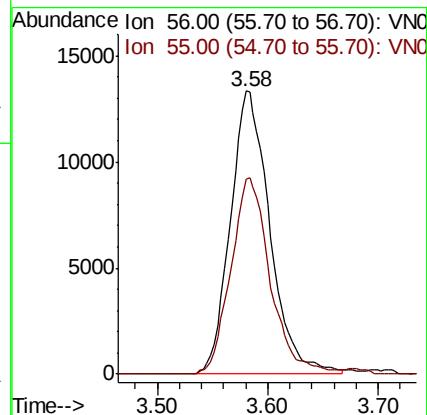
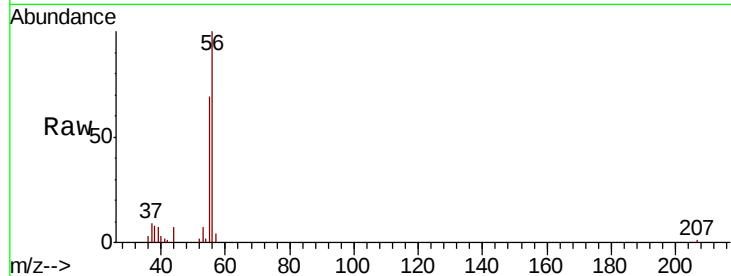
55 69.0 56.4 84.6

Manual Integrations

APPROVED

MMDadoda

11/20/2019 1:37:09 PM



#14

Allyl chloride

Concen: 17.920 ug/l

RT: 4.30 min Scan# 785

Delta R.T. -0.00 min

Lab File: VN059308.D

Acq: 19 Nov 2019 15:54

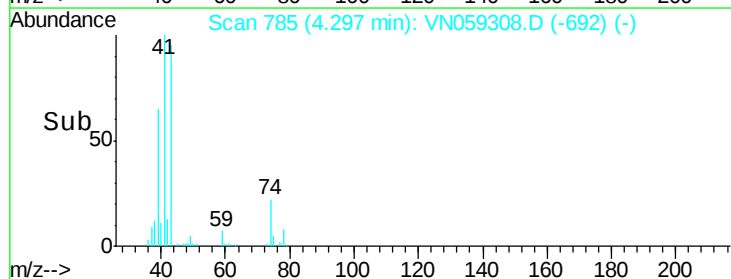
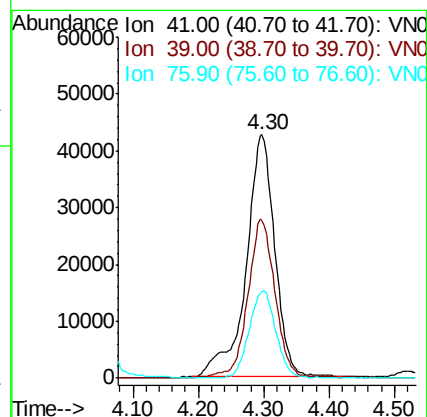
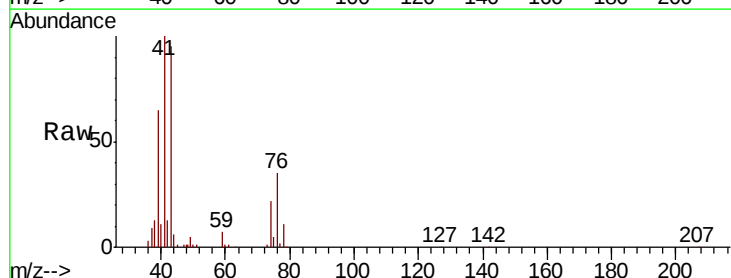
Tgt Ion: 41 Resp: 130671

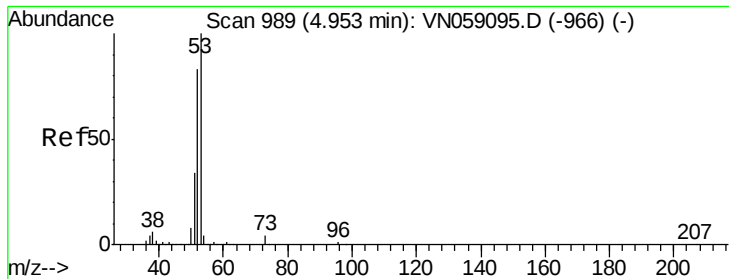
Ion Ratio Lower Upper

41 100

39 62.2 49.1 73.7

76 33.4 24.9 37.3





#15

Acrylonitrile

Concen: 93.137 ug/l

RT: 4.95 min Scan# 989

Delta R.T. -0.00 min

Lab File: VN059308.D

Acq: 19 Nov 2019 15:54

Instrument :

MSVOA_N

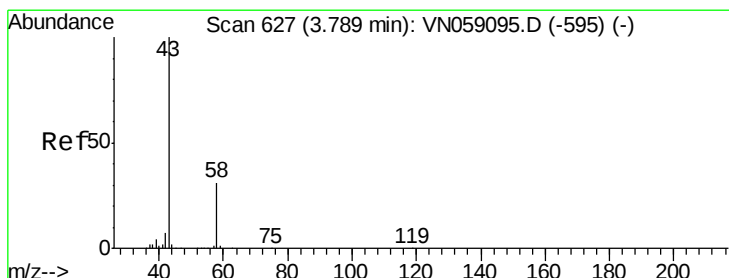
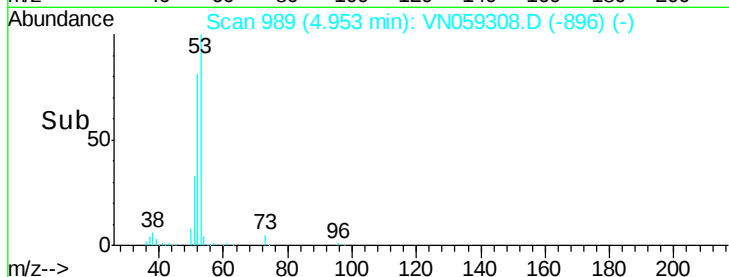
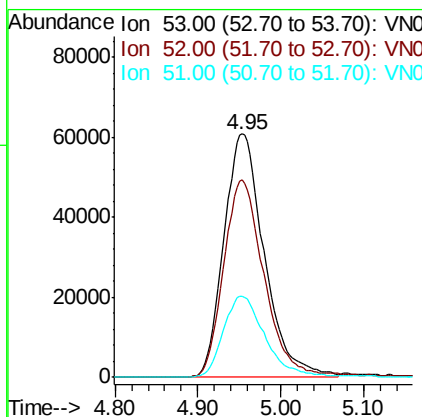
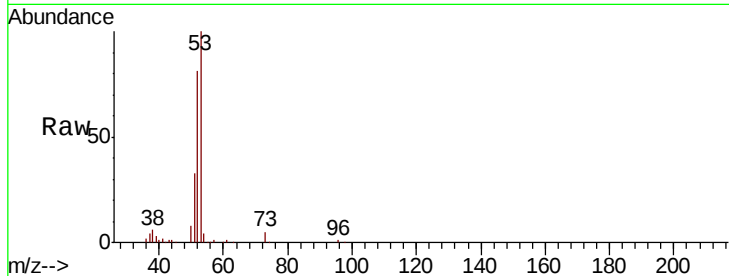
ClientSampleId :

VN1119WBS04

Tot Ion	53	Resp	206634
Ion	Ratio	Lower	Upper
53	100		
52	80.3	65.0	97.6
51	34.3	28.0	42.0

Manual Integrations
APPROVED

MMDadoda
11/20/2019 1:37:09 PM



#16

Acetone

Concen: 83.032 ug/l

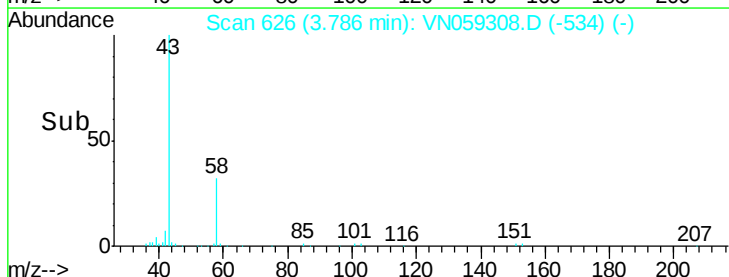
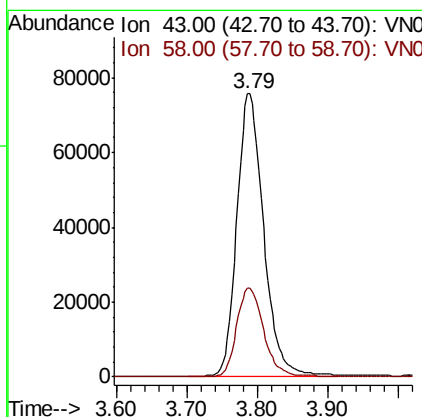
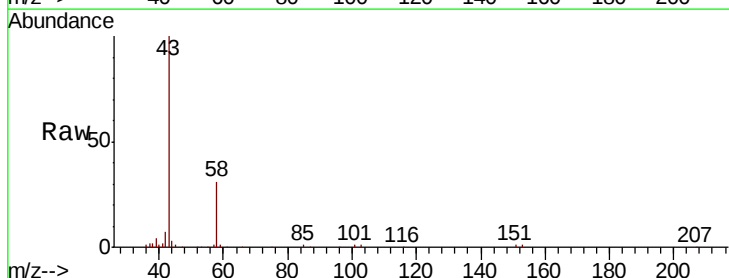
RT: 3.79 min Scan# 626

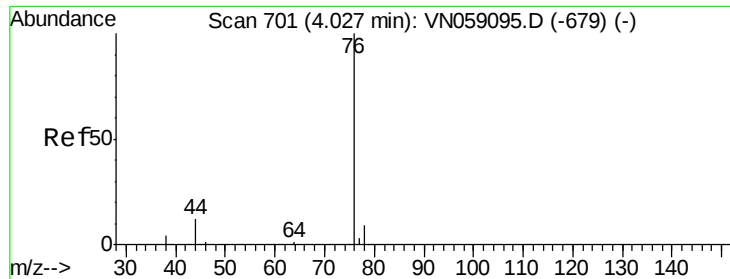
Delta R.T. -0.00 min

Lab File: VN059308.D

Acq: 19 Nov 2019 15:54

Tgt Ion	43	Resp	201980
Ion	Ratio	Lower	Upper
43	100		
58	31.5	24.9	37.3





#17

Carbon Disulfide

Concen: 19.953 ug/l

RT: 4.03 min Scan# 702

Delta R.T. 0.00 min

Lab File: VN059308.D

Acq: 19 Nov 2019 15:54

Instrument :

MSVOA_N

ClientSampleId :

VN1119WBS04

Tot Ion: 76 Resp: 219870

Ion Ratio Lower Upper

76 100

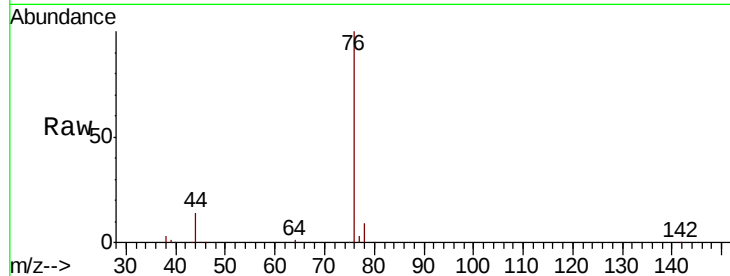
78 8.9 7.4 11.0

Manual Integrations

APPROVED

MMDadoda

11/20/2019 1:37:09 PM



Abundance Ion 75.90 (75.60 to 76.60): VN059095.D (-679) (-)

Ion 77.90 (77.60 to 78.60): VN059095.D (-679) (-)

4.03

80000

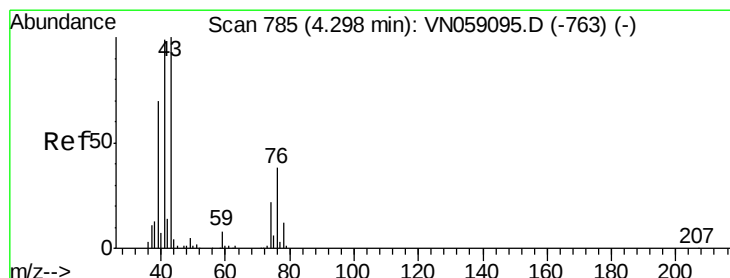
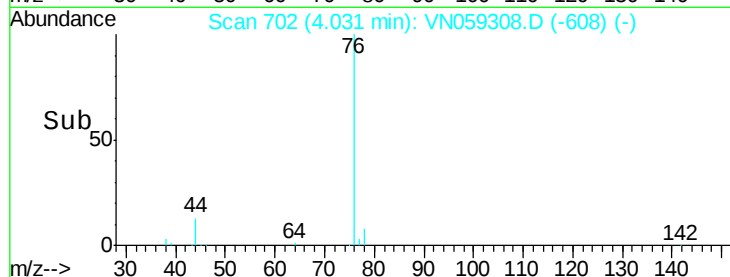
60000

40000

20000

0

Time-->



#18

Methyl Acetate

Concen: 20.198 ug/l

RT: 4.30 min Scan# 785

Delta R.T. -0.00 min

Lab File: VN059308.D

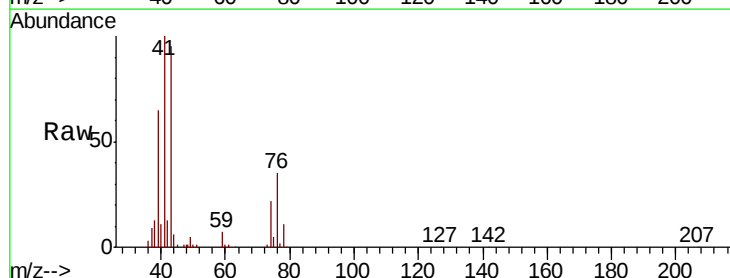
Acq: 19 Nov 2019 15:54

Tgt Ion: 43 Resp: 116623

Ion Ratio Lower Upper

43 100

74 23.2 17.8 26.8



Abundance Ion 43.00 (42.70 to 43.70): VN059095.D (-763) (-)

Ion 74.00 (73.70 to 74.70): VN059095.D (-763) (-)

4.30

40000

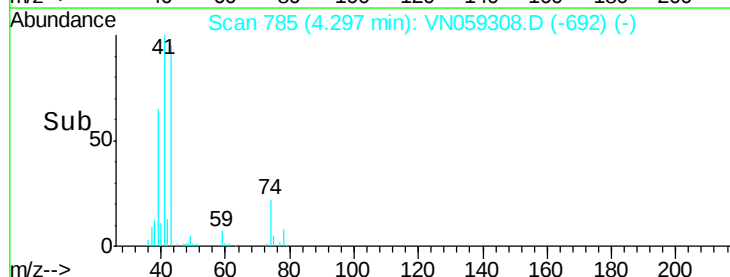
30000

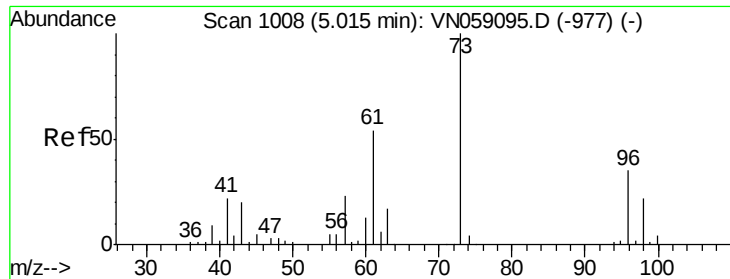
20000

10000

0

Time-->





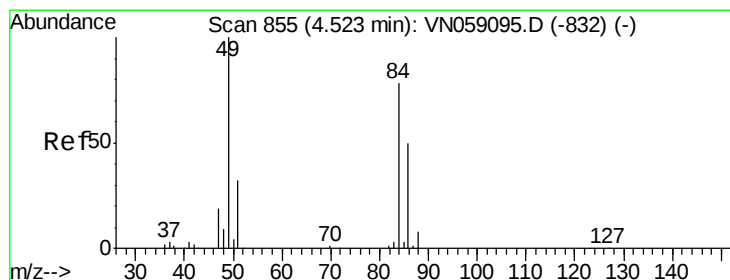
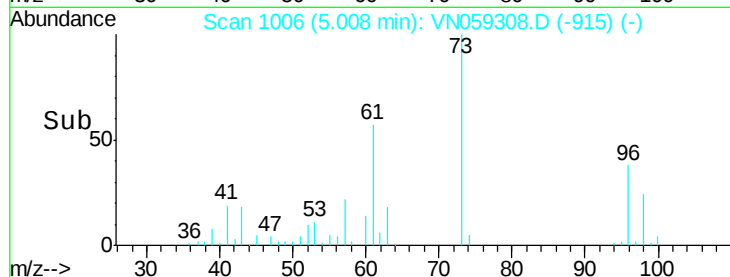
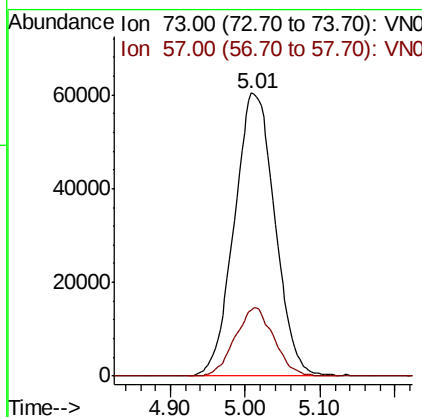
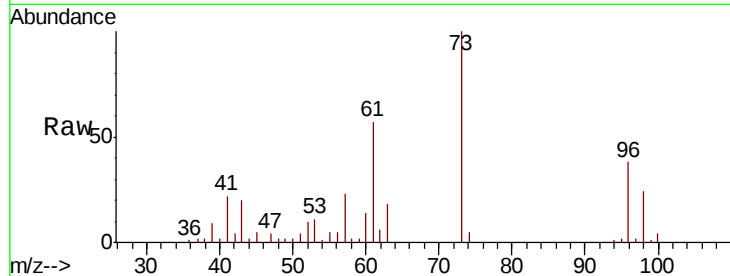
#19
Methvl tert-butvl Ether
Concen: 18.642 ug/l
RT: 5.01 min Scan# 1006
Delta R.T. -0.01 min
Lab File: VN059308.D
Acq: 19 Nov 2019 15:54

Instrument :
MSVOA_N
ClientSampleId :
VN1119WBS04

Tot Ion: 73 Resp: 227837
Ion Ratio Lower Upper
73 100
57 23.5 18.4 27.6

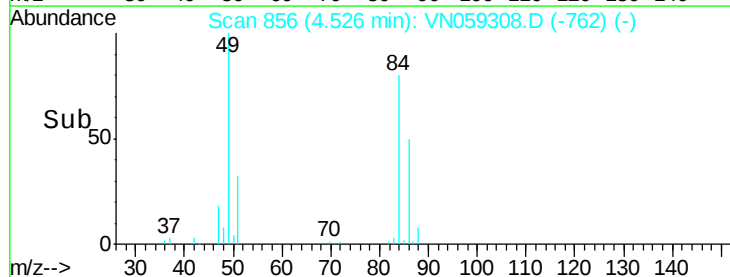
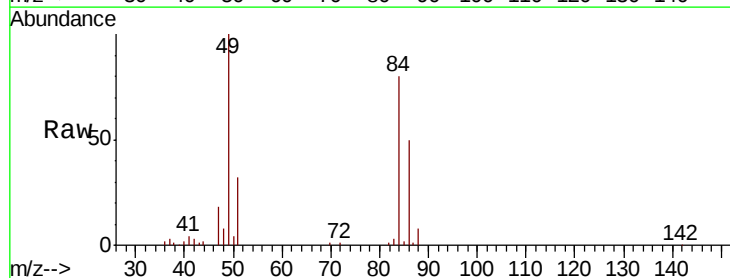
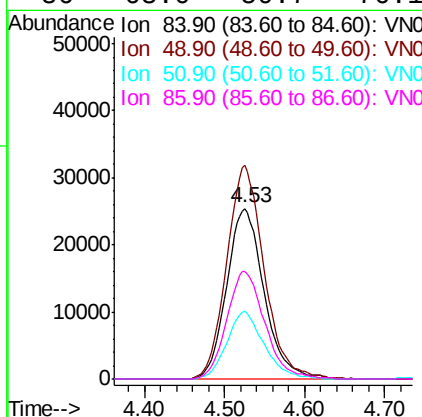
Manual Integrations
APPROVED

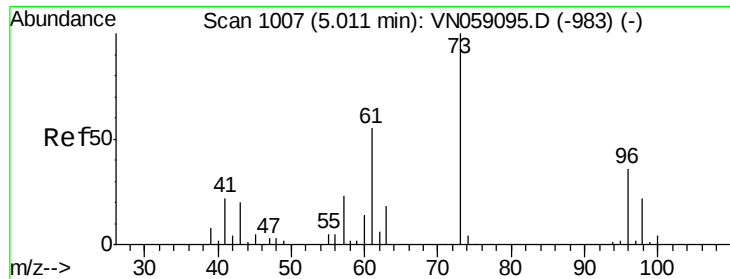
MMDadoda
11/20/2019 1:37:09 PM



#20
Methylene Chloride
Concen: 19.064 ug/l
RT: 4.53 min Scan# 856
Delta R.T. 0.00 min
Lab File: VN059308.D
Acq: 19 Nov 2019 15:54

Tgt Ion: 84 Resp: 80792
Ion Ratio Lower Upper
84 100
49 125.4 102.0 153.0
51 39.6 32.2 48.2
86 63.0 50.7 76.1





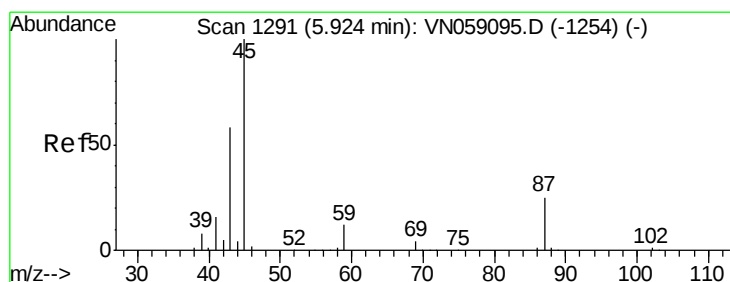
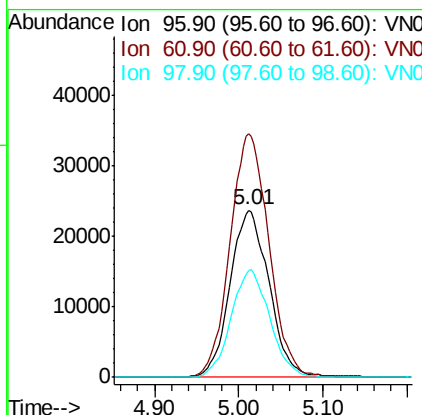
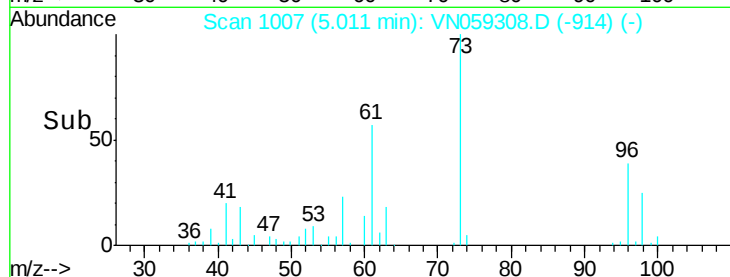
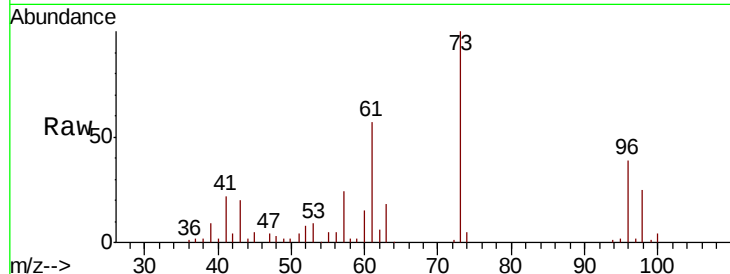
#21
trans-1,2-Dichloroethene
Concen: 20.016 ug/l
RT: 5.01 min Scan# 1007
Delta R.T. -0.00 min
Lab File: VN059308.D
Acq: 19 Nov 2019 15:54

Instrument :
MSVOA_N
ClientSampleId :
VN1119WBS04

Tot Ion	Ion	Ratio	Lower	Upper
96	100			
61	145.9	122.6	183.8	
98	64.2	50.3	75.5	

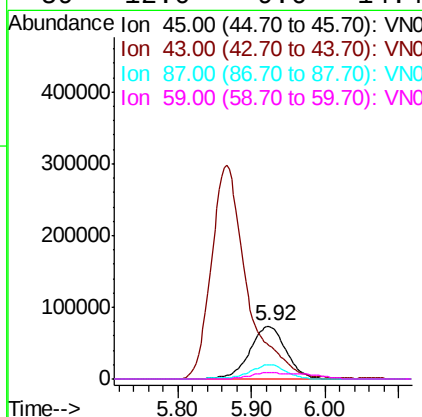
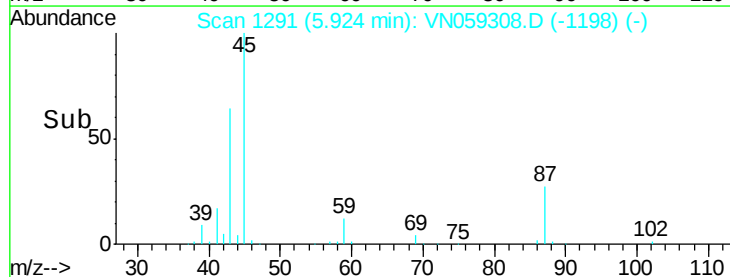
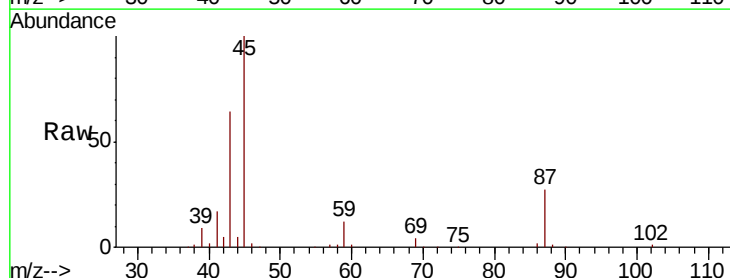
Manual Integrations
APPROVED

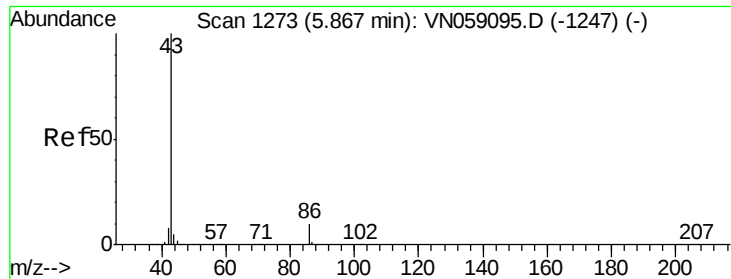
MMDadoda
11/20/2019 1:37:09 PM



#22
Diisopropyl ether
Concen: 18.272 ug/l
RT: 5.92 min Scan# 1291
Delta R.T. -0.00 min
Lab File: VN059308.D
Acq: 19 Nov 2019 15:54

Tgt Ion	Ion	Ratio	Lower	Upper
45	100			
43	61.7	46.7	70.1	
87	27.5	20.5	30.7	
59	12.0	9.6	14.4	





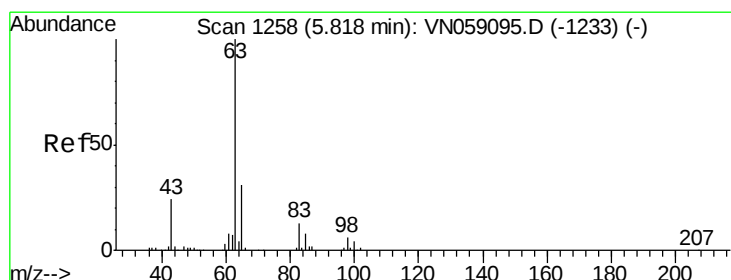
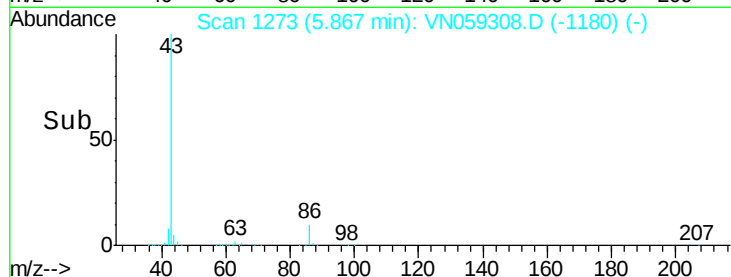
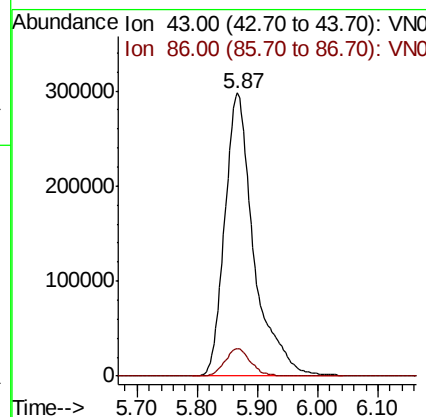
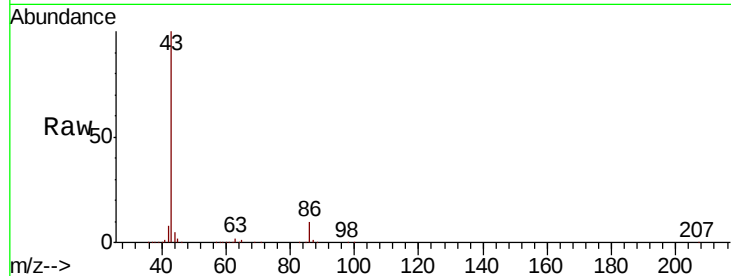
#23
 Vinyl Acetate
 Concen: 93.567 ug/l
 RT: 5.87 min Scan# 1273
 Delta R.T. -0.00 min
 Lab File: VN059308.D
 Acq: 19 Nov 2019 15:54

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1119WBS04

Tot Ion	43	Resp	998770
Ion Ratio	Lower	Upper	
43	100		
86	9.7	7.7	11.5

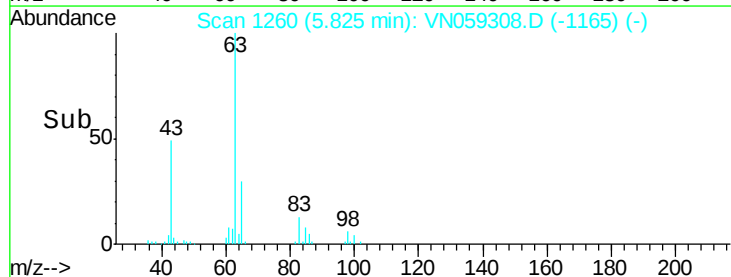
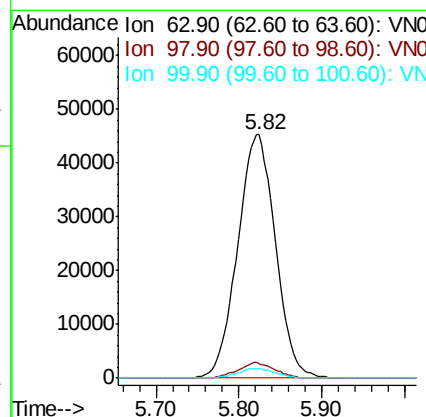
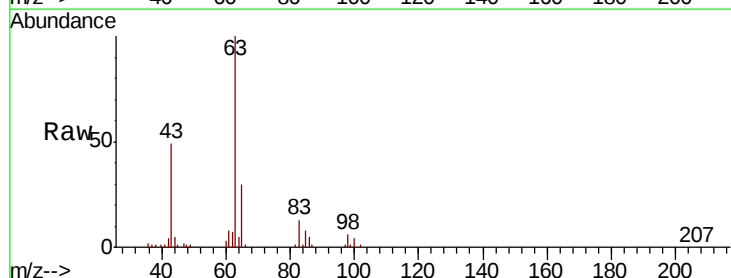
Manual Integrations
 APPROVED

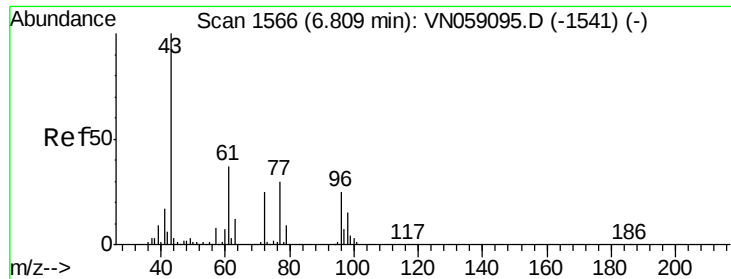
MMDadoda
 11/20/2019 1:37:09 PM



#24
 1,1-Dichloroethane
 Concen: 18.639 ug/l
 RT: 5.82 min Scan# 1260
 Delta R.T. 0.01 min
 Lab File: VN059308.D
 Acq: 19 Nov 2019 15:54

Tgt Ion	63	Resp	143383
Ion Ratio	Lower	Upper	
63	100		
98	6.1	2.8	8.4
100	3.7	1.9	5.7





#25

2-Butanone

Concen: 87.317 ug/l

RT: 6.81 min Scan# 1566

Delta R.T. -0.00 min

Lab File: VN059308.D

Acq: 19 Nov 2019 15:54

Instrument :

MSVOA_N

ClientSampleId :

VN1119WBS04

Tot Ion: 43 Resp: 279935

Ion Ratio Lower Upper

43 100

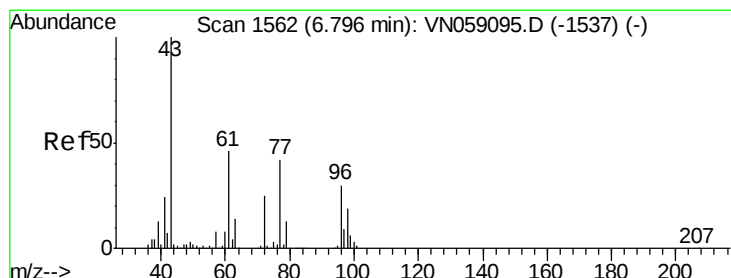
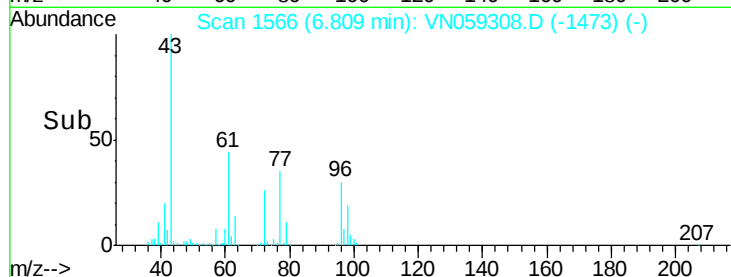
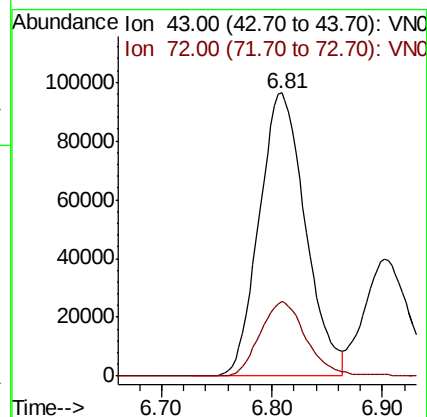
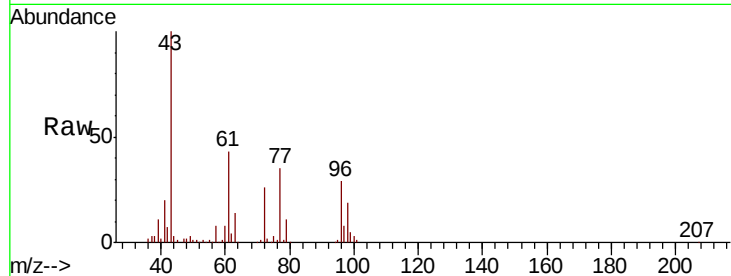
72 26.2 20.3 30.5

Manual Integrations

APPROVED

MMDadoda

11/20/2019 1:37:09 PM



#26

2,2-Dichloropropane

Concen: 18.193 ug/l

RT: 6.80 min Scan# 1562

Delta R.T. -0.00 min

Lab File: VN059308.D

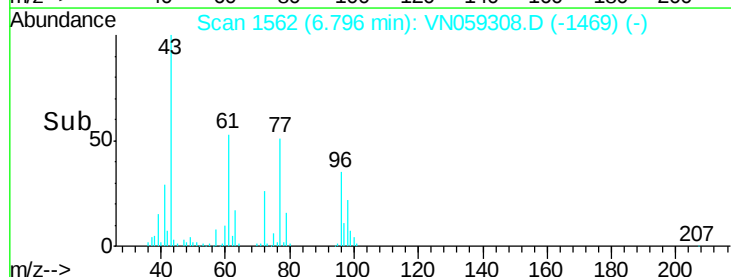
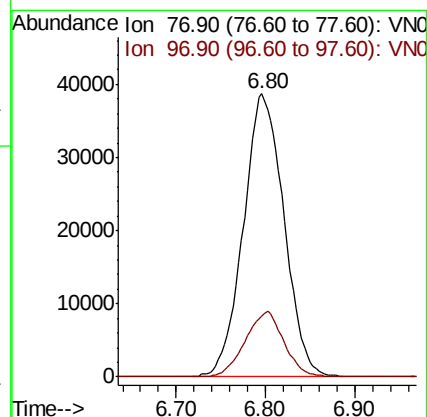
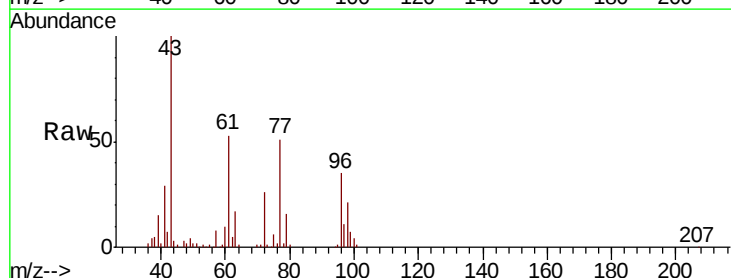
Acq: 19 Nov 2019 15:54

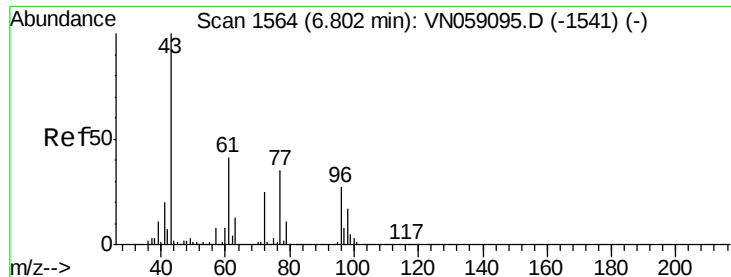
Tgt Ion: 77 Resp: 122377

Ion Ratio Lower Upper

77 100

97 22.0 11.2 33.6





#27

cis-1,2-Dichloroethene

Concen: 19.250 ug/l

RT: 6.81 min Scan# 1565

Delta R.T. 0.00 min

Lab File: VN059308.D

Acq: 19 Nov 2019 15:54

Instrument :

MSVOA_N

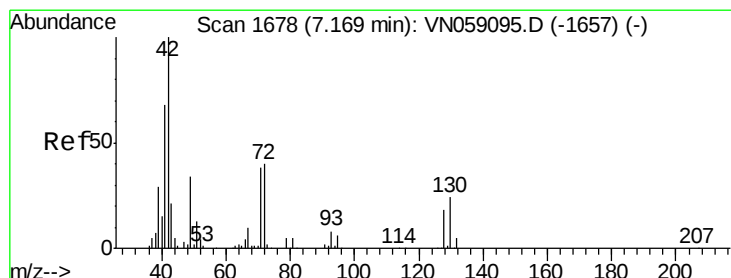
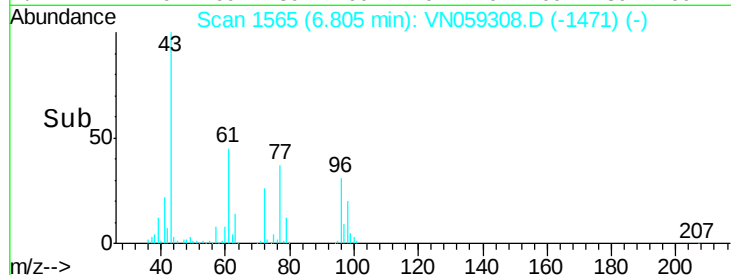
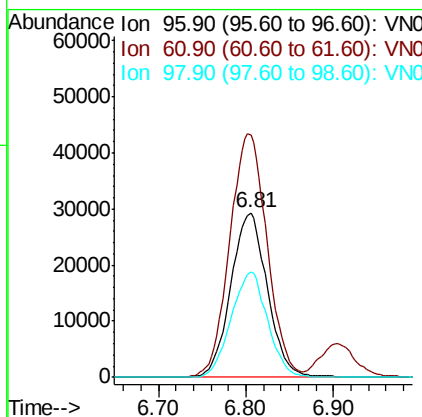
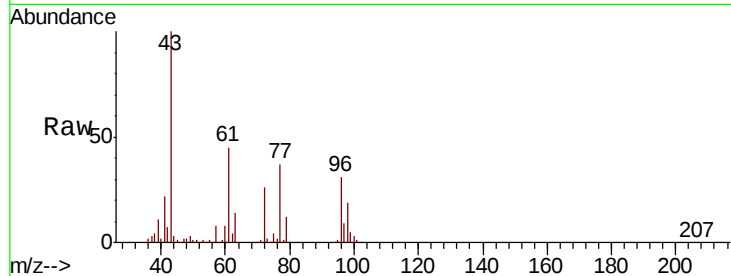
ClientSampleId :

VN1119WBS04

Tot Ion:	96	Resp:	85099
Ion	Ratio	Lower	Upper
96	100		
61	150.9	0.0	311.6
98	63.6	0.0	129.8

Manual Integrations
APPROVED

MMDadoda
11/20/2019 1:37:09 PM



#28

Bromochloromethane

Concen: 12.584 ug/l

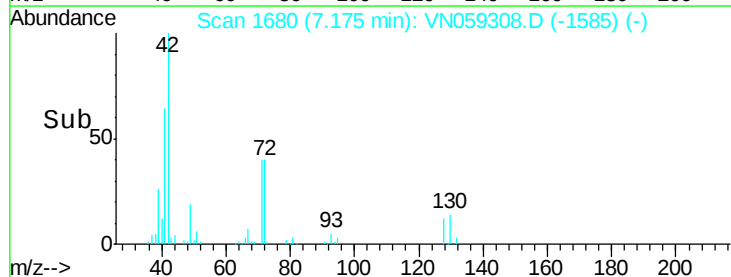
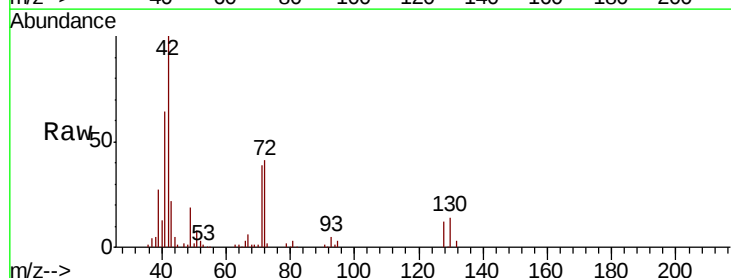
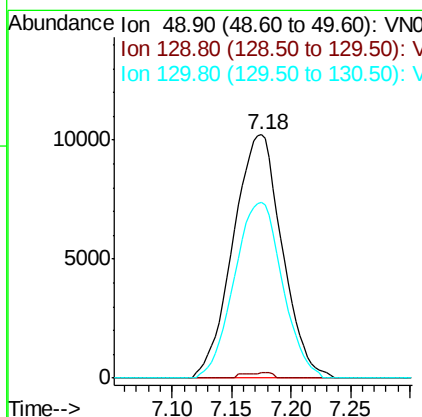
RT: 7.18 min Scan# 1680

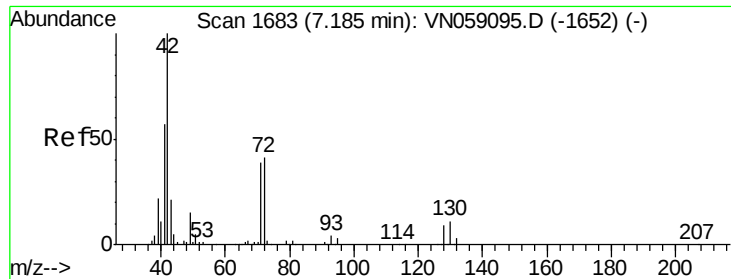
Delta R.T. 0.01 min

Lab File: VN059308.D

Acq: 19 Nov 2019 15:54

Tgt Ion:	49	Resp:	29124
Ion	Ratio	Lower	Upper
49	100		
129	0.6	0.0	3.8
130	70.9	55.6	83.4





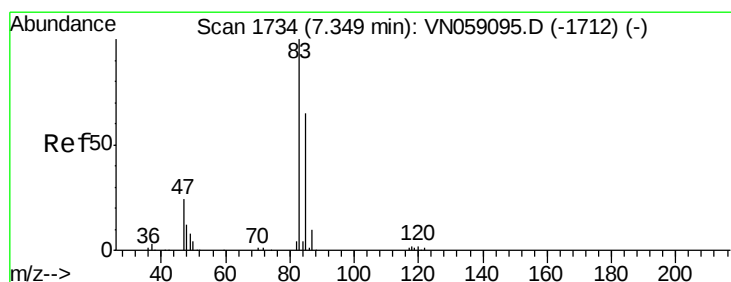
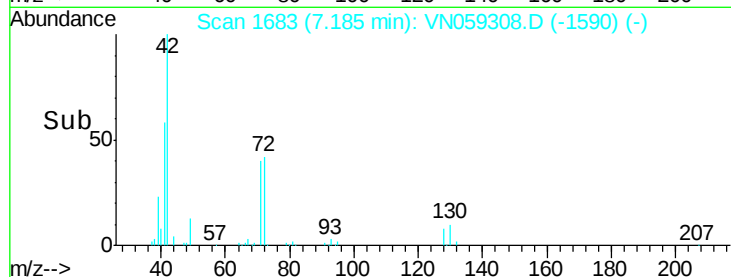
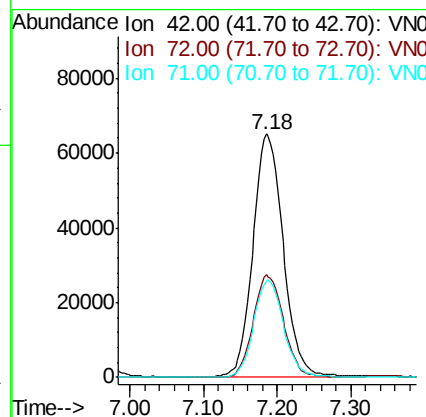
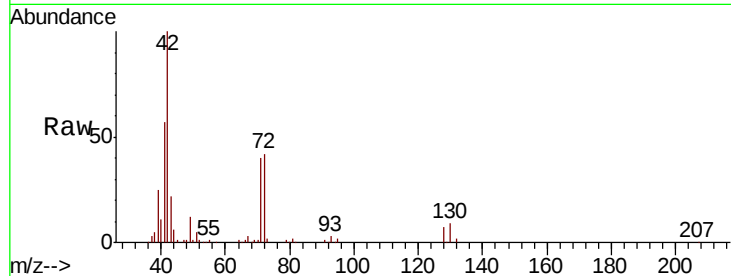
#29
Tetrahydrofuran
Concen: 91.877 ug/l
RT: 7.18 min Scan# 1683
Delta R.T. -0.00 min
Lab File: VN059308.D
Acq: 19 Nov 2019 15:54

Instrument :
MSVOA_N
ClientSampleId :
VN1119WBS04

Tot Ion	Ratio	Lower	Upper
42	100		
72	41.7	33.1	49.7
71	39.3	30.9	46.3

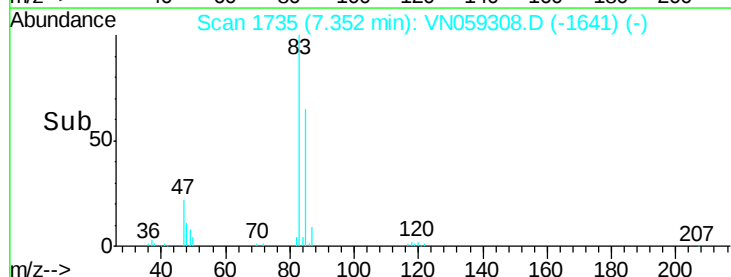
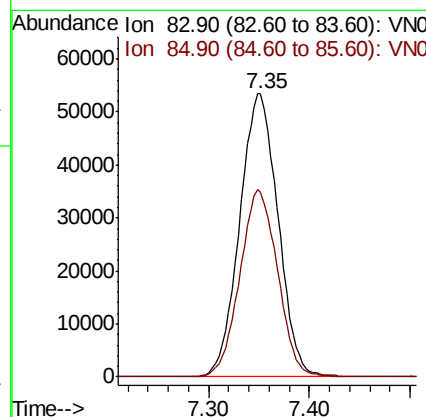
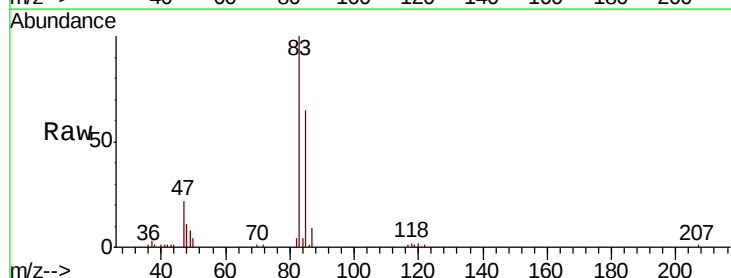
Manual Integrations
APPROVED

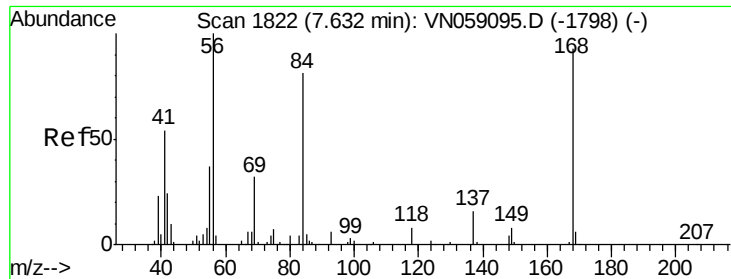
MMDadoda
11/20/2019 1:37:09 PM



#30
Chloroform
Concen: 19.068 ug/l
RT: 7.35 min Scan# 1735
Delta R.T. 0.00 min
Lab File: VN059308.D
Acq: 19 Nov 2019 15:54

Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.1	51.8	77.8





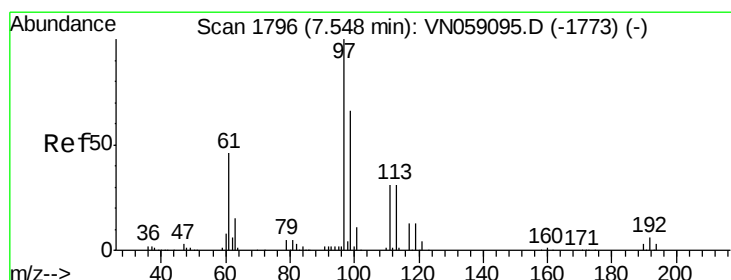
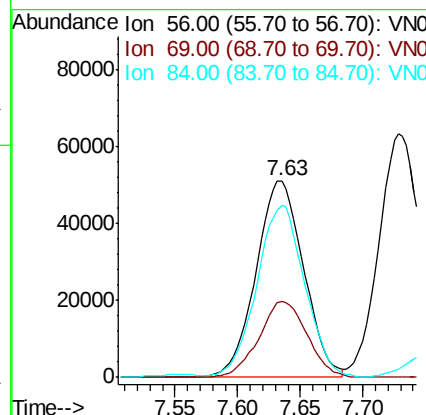
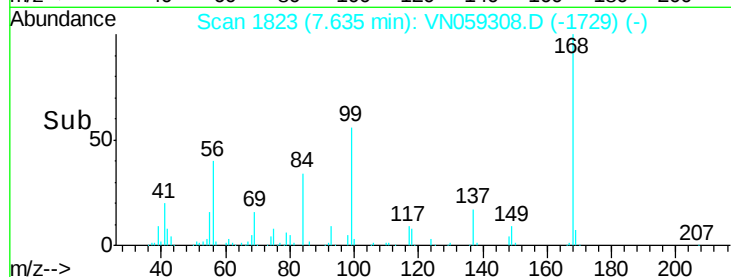
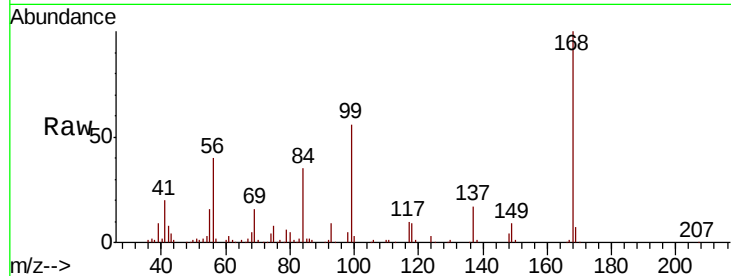
#31
Cyclohexane
Concen: 18.547 ug/l
RT: 7.63 min Scan# 1823
Delta R.T. 0.00 min
Lab File: VN059308.D
Acq: 19 Nov 2019 15:54

Instrument :
MSVOA_N
ClientSampleId :
VN1119WBS04

Tot Ion	Ratio	Lower	Upper
56	100		
69	38.8	25.8	38.8#
84	86.0	65.0	97.4

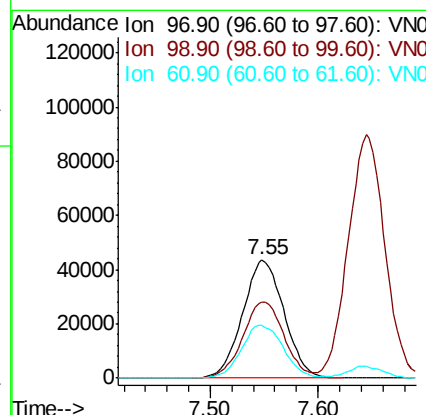
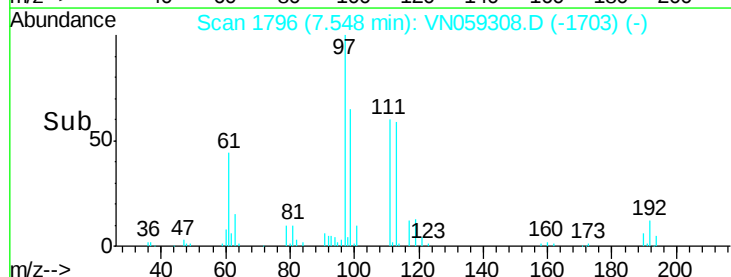
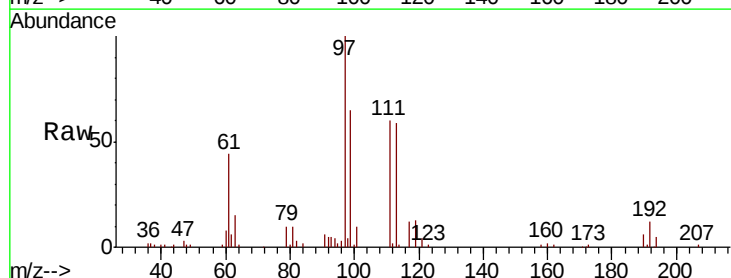
Manual Integrations
APPROVED

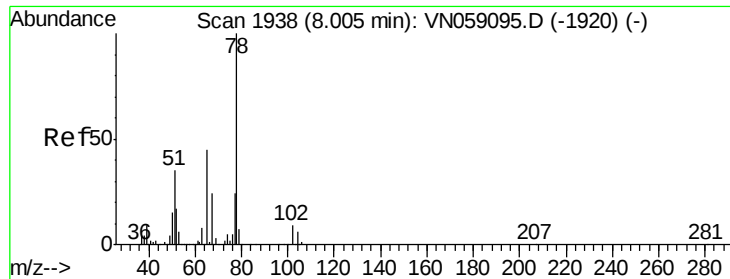
MMDadoda
11/20/2019 1:37:09 PM



#32
1,1,1-Trichloroethane
Concen: 18.698 ug/l
RT: 7.55 min Scan# 1796
Delta R.T. -0.00 min
Lab File: VN059308.D
Acq: 19 Nov 2019 15:54

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.8	51.0	76.6
61	45.4	35.8	53.8





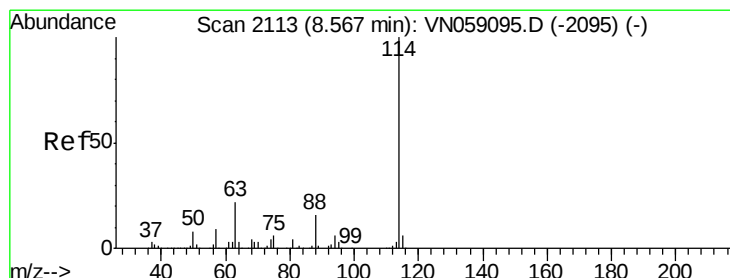
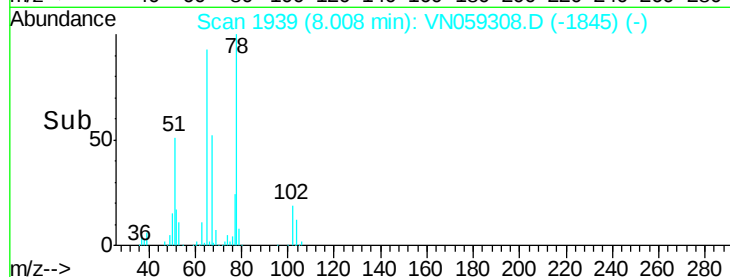
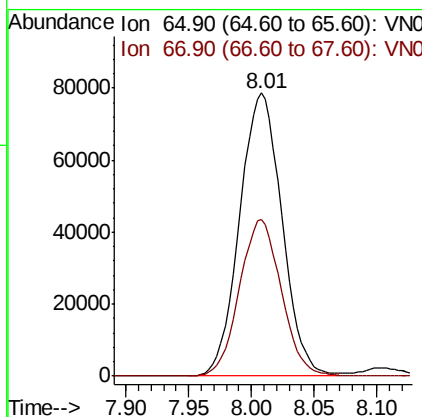
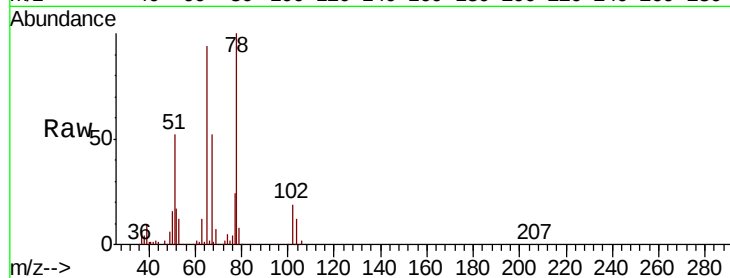
#33
 1,2-Dichloroethane-d4
 Concen: 39.429 ug/l
 RT: 8.01 min Scan# 1939
 Delta R.T. 0.00 min
 Lab File: VN059308.D
 Acq: 19 Nov 2019 15:54

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1119WBS04

Tot Ion	Ratio	Resp	Lower	Upper
65	100			
67	54.8	0.0	107.4	

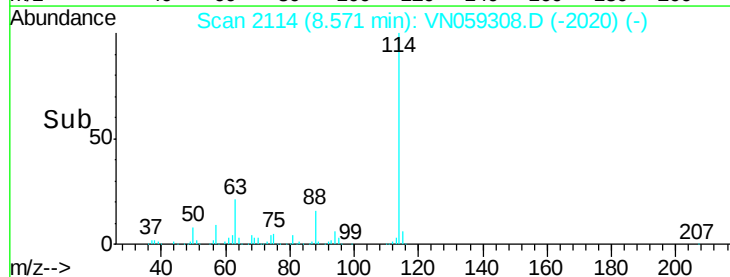
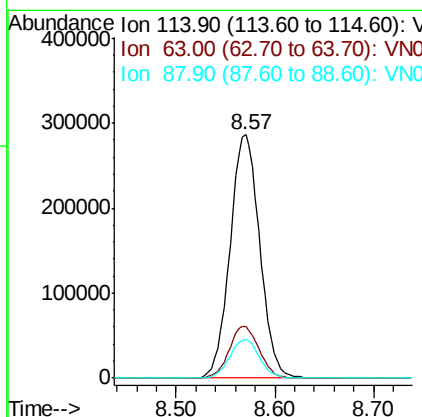
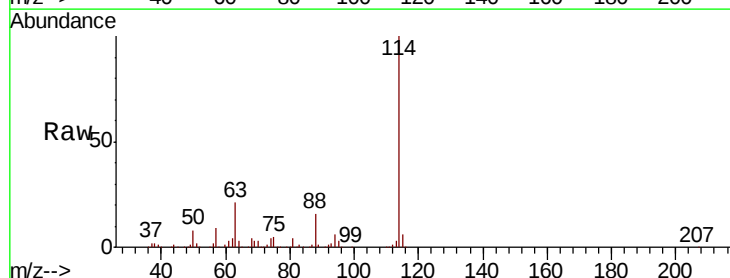
Manual Integrations
 APPROVED

MMDadoda
 11/20/2019 1:37:09 PM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2114
 Delta R.T. 0.00 min
 Lab File: VN059308.D
 Acq: 19 Nov 2019 15:54

Tgt Ion	Ratio	Resp	Lower	Upper
114	100			
63	20.9	0.0	43.4	
88	15.8	0.0	32.2	





#35

Dibromofluoromethane

Concen: 41.694 ug/l

RT: 7.57 min Scan# 1803

Delta R.T. 0.00 min

Lab File: VN059308.D

Acq: 19 Nov 2019 15:54

Instrument :

MSVOA_N

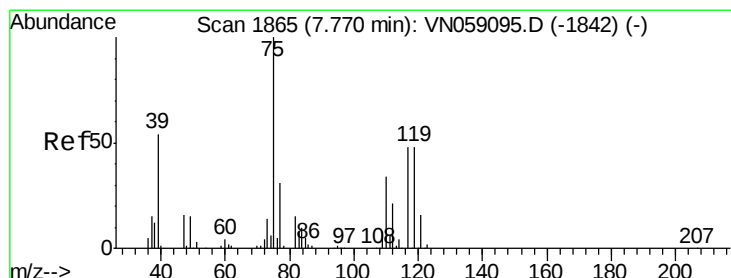
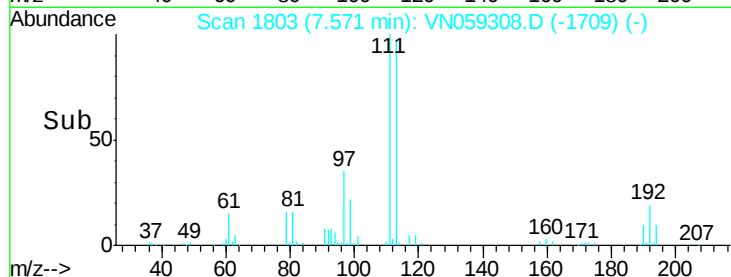
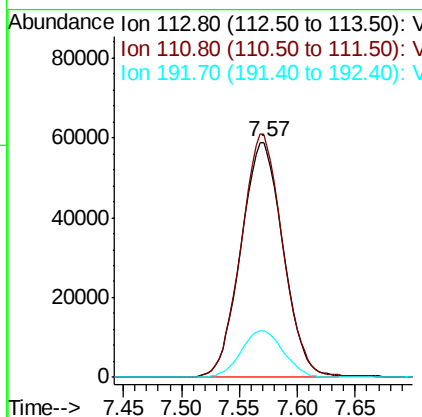
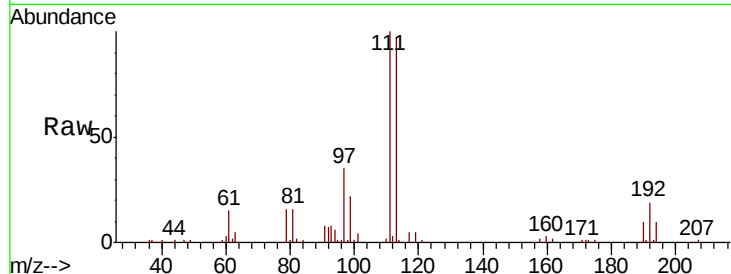
ClientSampleId :

VN1119WBS04

Tot Ion:	113	Resp:	149496
Ion Ratio	Lower	Upper	
113	100		
111	102.0	82.8	124.2
192	20.0	16.1	24.1

Manual Integrations
APPROVED

MMDadoda
11/20/2019 1:37:09 PM



#36

1,1-Dichloropropene

Concen: 18.809 ug/l

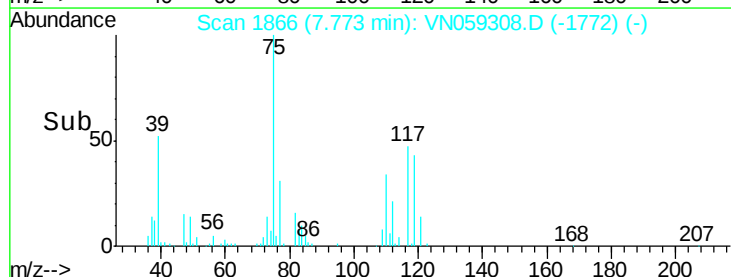
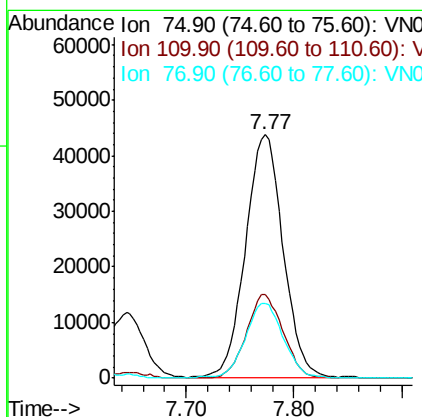
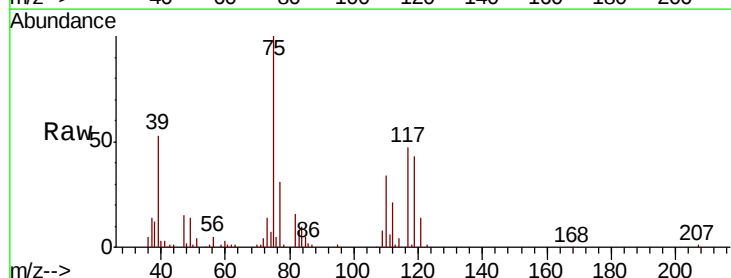
RT: 7.77 min Scan# 1866

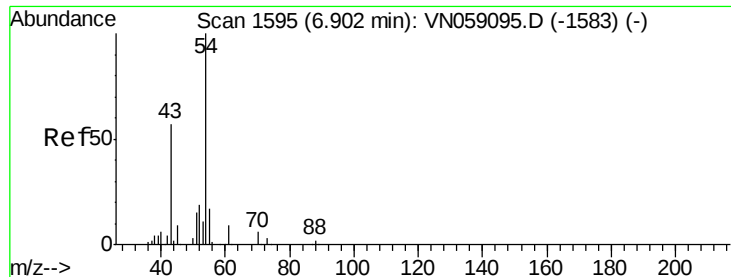
Delta R.T. 0.00 min

Lab File: VN059308.D

Acq: 19 Nov 2019 15:54

Tgt Ion:	75	Resp:	105576
Ion Ratio	Lower	Upper	
75	100		
110	33.6	17.1	51.2
77	31.4	24.8	37.2





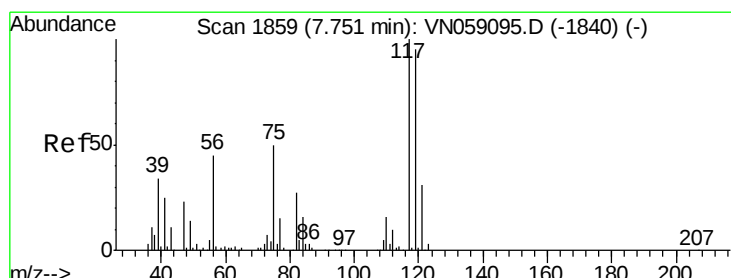
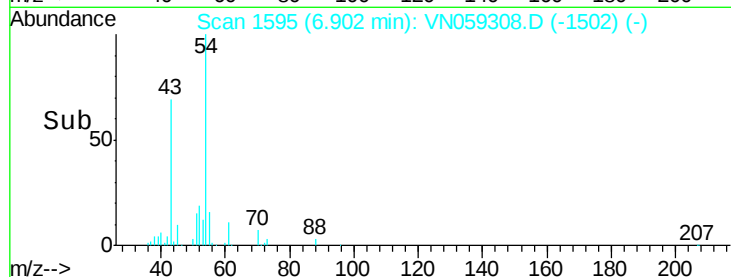
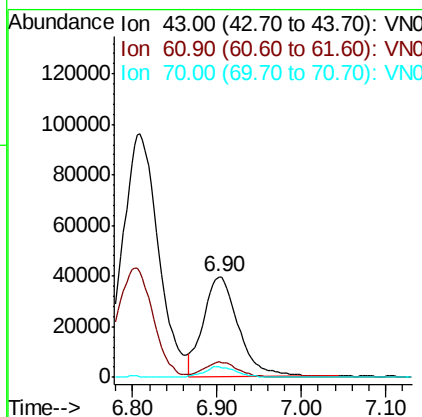
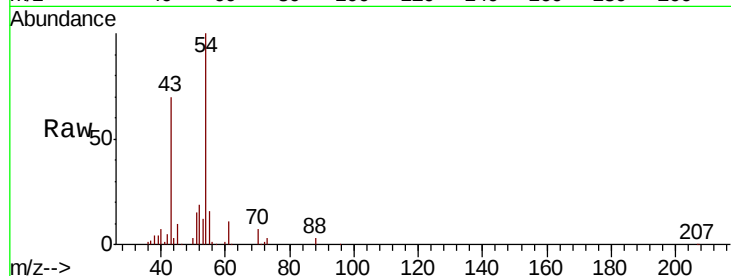
#37
Ethyl Acetate
Concen: 18.431 ug/l
RT: 6.90 min Scan# 1595
Delta R.T. -0.00 min
Lab File: VN059308.D
Acq: 19 Nov 2019 15:54

Instrument :
MSVOA_N
ClientSampleId :
VN1119WBS04

Tot Ion	Ratio	Lower	Upper
43	100		
61	15.0	11.2	16.8
70	10.2	7.8	11.8

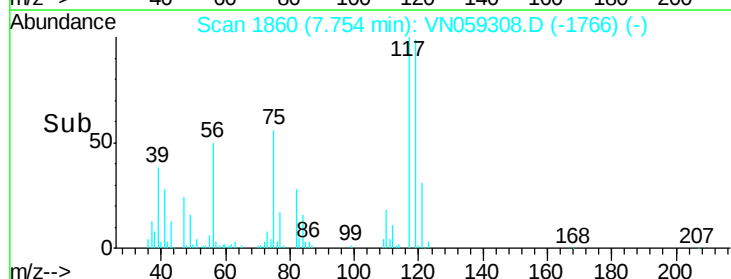
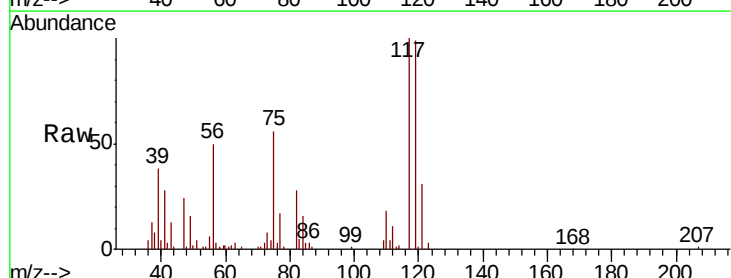
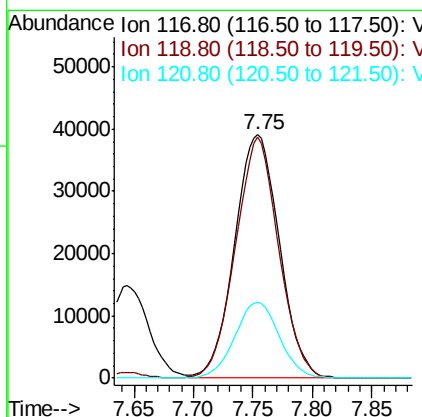
Manual Integrations
APPROVED

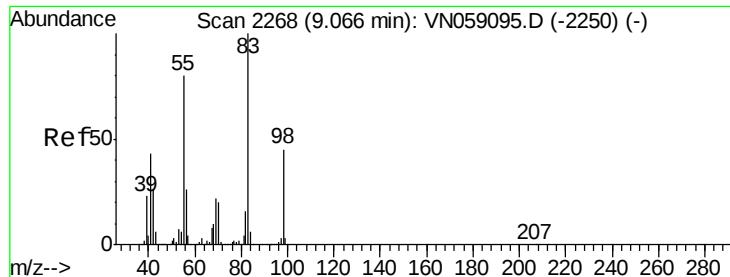
MMDadoda
11/20/2019 1:37:09 PM



#38
Carbon Tetrachloride
Concen: 18.220 ug/l
RT: 7.75 min Scan# 1860
Delta R.T. 0.00 min
Lab File: VN059308.D
Acq: 19 Nov 2019 15:54

Tgt Ion	Ratio	Lower	Upper
117	100		
119	99.1	75.6	113.4
121	31.2	24.6	36.8





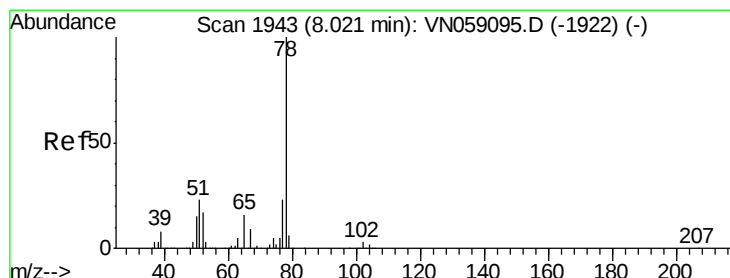
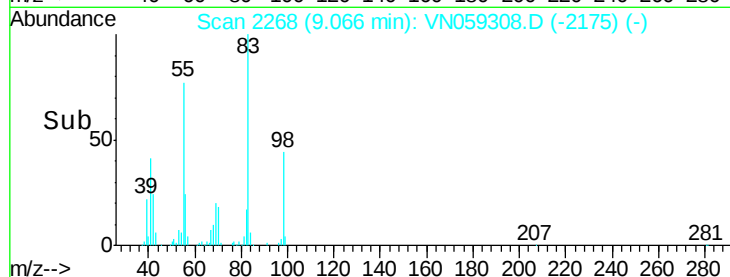
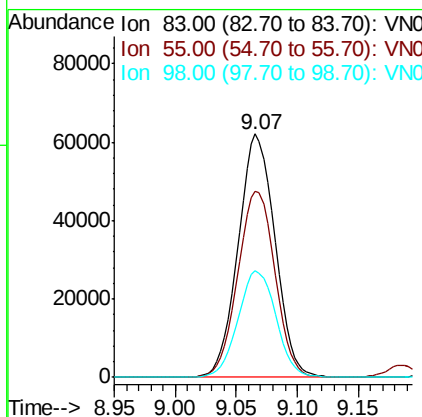
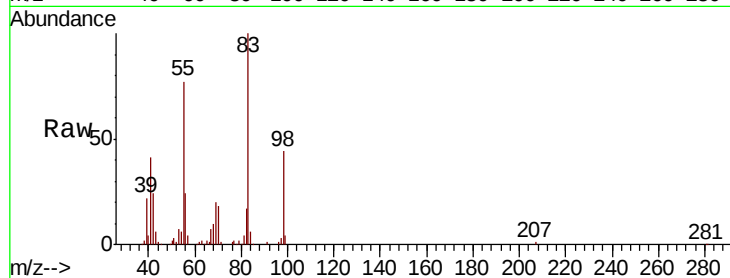
#39
Methvlcvclohexane
Concen: 19.878 ug/l
RT: 9.07 min Scan# 2268
Delta R.T. -0.00 min
Lab File: VN059308.D
Acq: 19 Nov 2019 15:54

Instrument :
MSVOA_N
ClientSampleId :
VN1119WBS04

Tot Ion	Ratio	Lower	Upper
83	100		
55	76.7	63.9	95.9
98	43.7	35.6	53.4

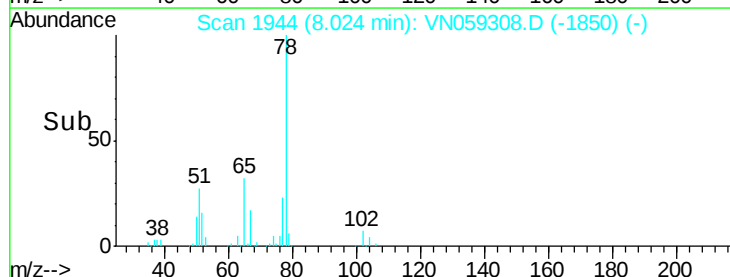
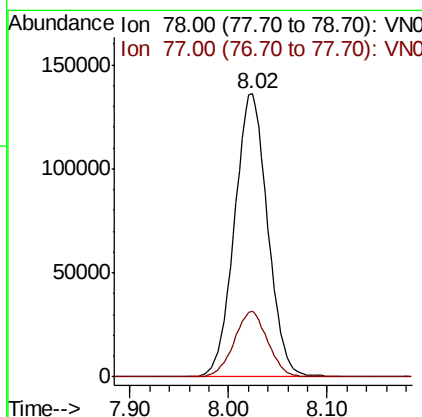
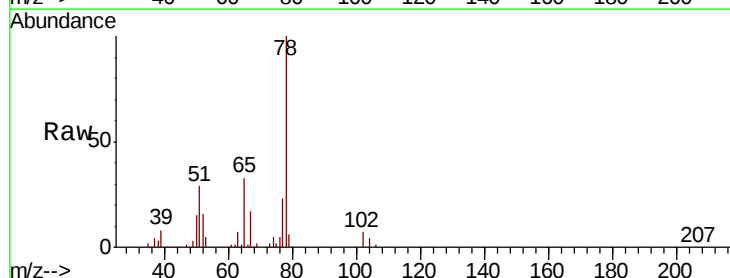
Manual Integrations
APPROVED

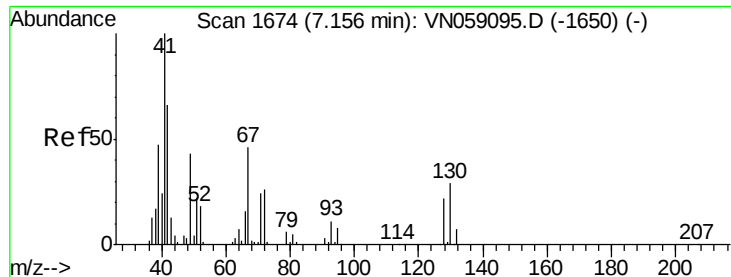
MMDadoda
11/20/2019 1:37:09 PM



#40
Benzene
Concen: 18.790 ug/l
RT: 8.02 min Scan# 1944
Delta R.T. 0.00 min
Lab File: VN059308.D
Acq: 19 Nov 2019 15:54

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.4	18.8	28.2





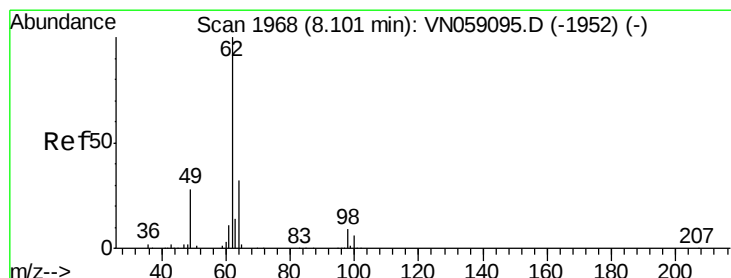
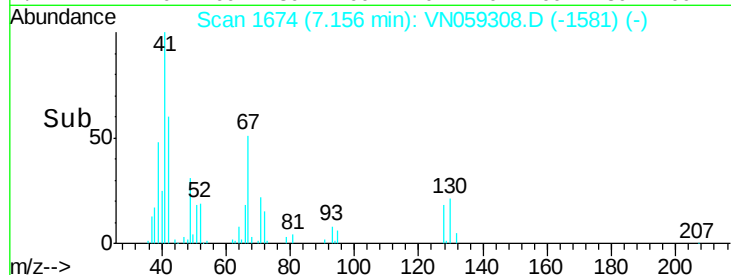
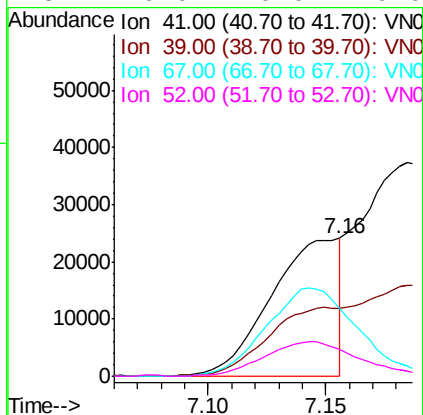
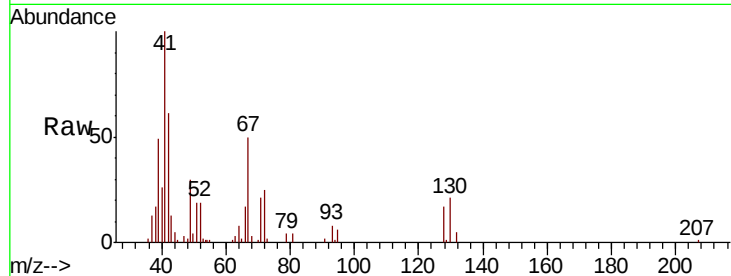
#41
Methacrylonitrile
Concen: 18.056 ug/l m
RT: 7.16 min Scan# 1674
Delta R.T. -0.00 min
Lab File: VN059308.D
Acq: 19 Nov 2019 15:54

Instrument :
MSVOA_N
ClientSampleId :
VN1119WBS04

Tot Ion	41	Resp	49027
Ion Ratio	Lower	Upper	
41	100		
39	0.0	0.0	0.0
67	0.0	0.0	0.0
52	0.0	0.0	0.0

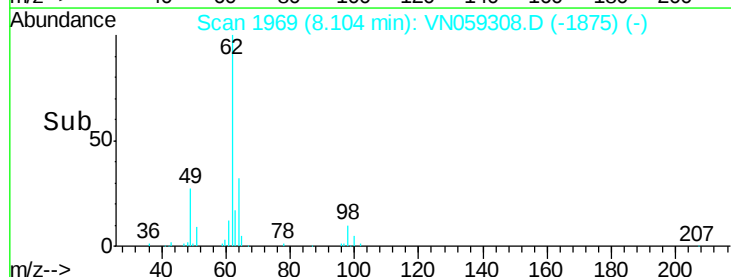
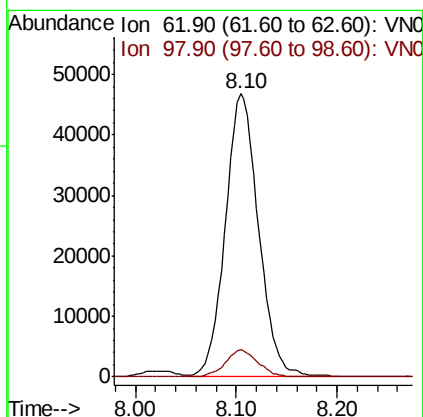
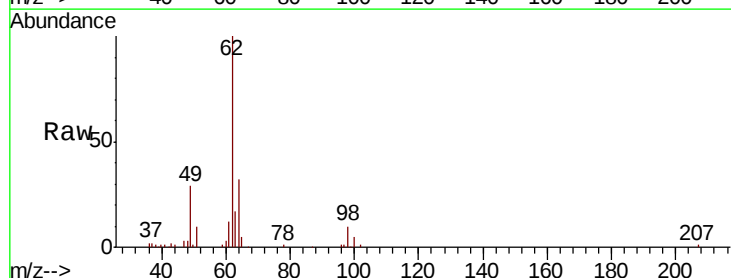
Manual Integrations
APPROVED

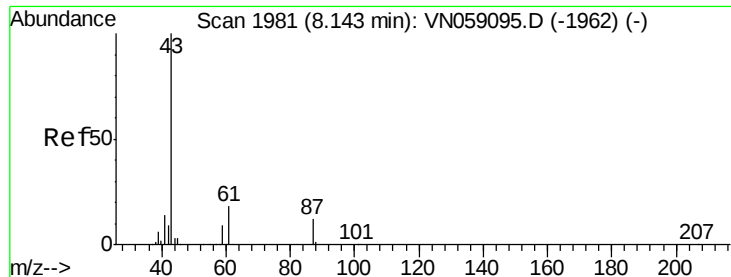
MMDadoda
11/20/2019 1:37:09 PM



#42
1,2-Dichloroethane
Concen: 18.371 ug/l
RT: 8.10 min Scan# 1969
Delta R.T. 0.00 min
Lab File: VN059308.D
Acq: 19 Nov 2019 15:54

Tgt Ion	62	Resp	106501
Ion Ratio	Lower	Upper	
62	100		
98	9.4	0.0	17.8





#43

Isopropyl Acetate

Concen: 17.296 ug/l

RT: 8.15 min Scan# 1982

Delta R.T. 0.00 min

Lab File: VN059308.D

Acq: 19 Nov 2019 15:54

Instrument :

MSVOA_N

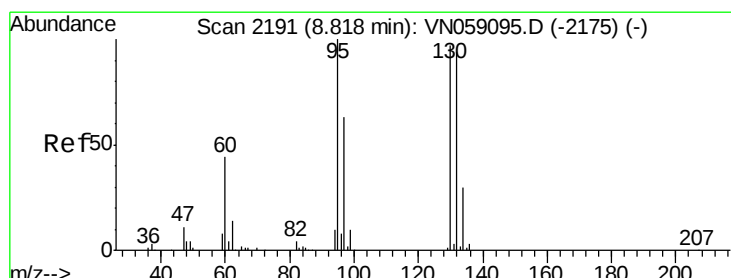
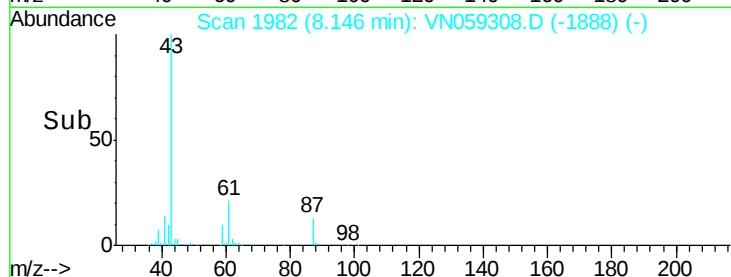
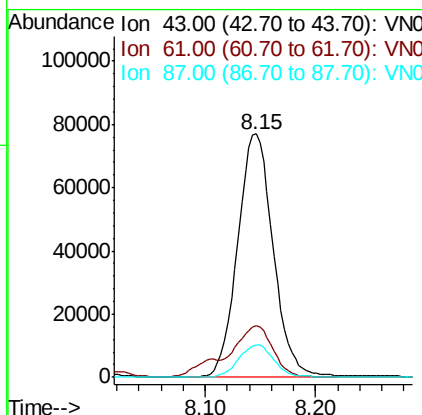
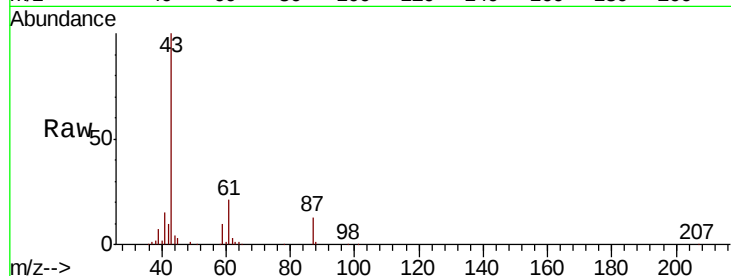
ClientSampleId :

VN1119WBS04

Tot Ion:	43	Resp:	172176
Ion	Ratio	Lower	Upper
43	100		
61	21.7	21.0	31.6
87	13.2	9.8	14.6

Manual Integrations
APPROVED

MMDadoda
11/20/2019 1:37:09 PM



#44

Trichloroethene

Concen: 19.080 ug/l

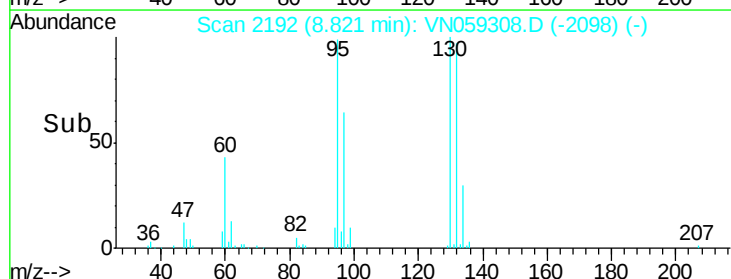
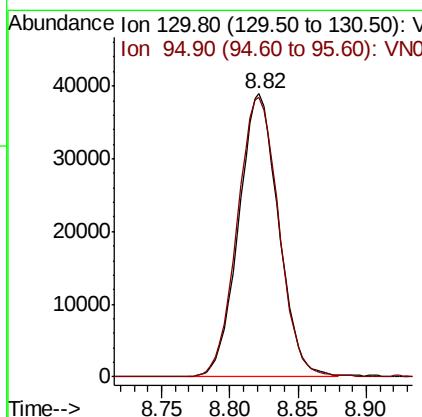
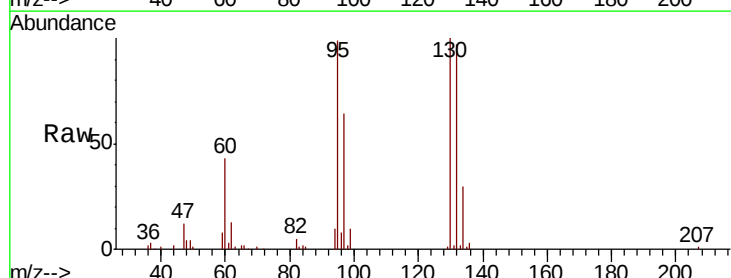
RT: 8.82 min Scan# 2192

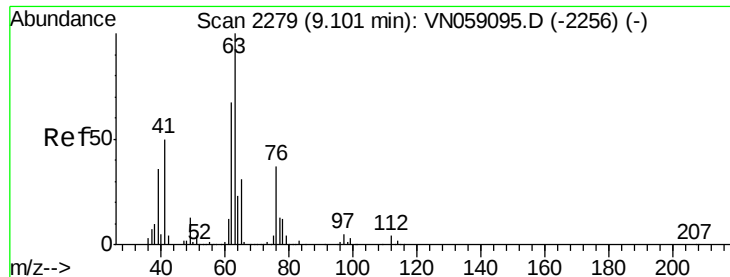
Delta R.T. 0.00 min

Lab File: VN059308.D

Acq: 19 Nov 2019 15:54

Tgt Ion:	130	Resp:	79277
Ion	Ratio	Lower	Upper
130	100		
95	98.6	0.0	206.4





#45

1,2-Dichloropropane

Concen: 18.465 ug/l

RT: 9.10 min Scan# 2280

Delta R.T. 0.00 min

Lab File: VN059308.D

Acq: 19 Nov 2019 15:54

Instrument :

MSVOA_N

ClientSampleId :

VN1119WBS04

Tot Ion: 63 Resp: 84774

Ion Ratio Lower Upper

63 100

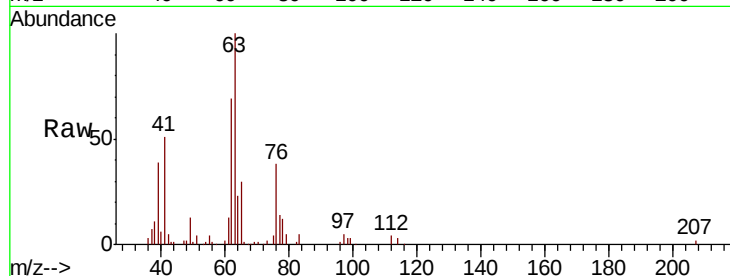
65 30.3 24.6 37.0

Manual Integrations

APPROVED

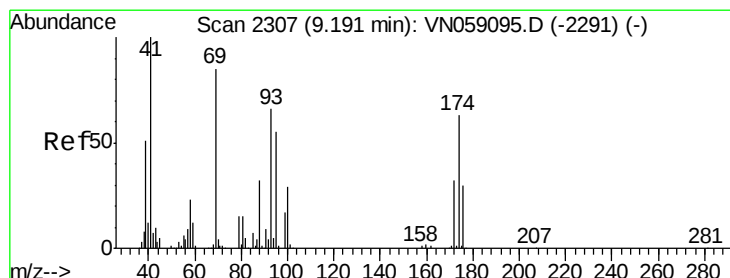
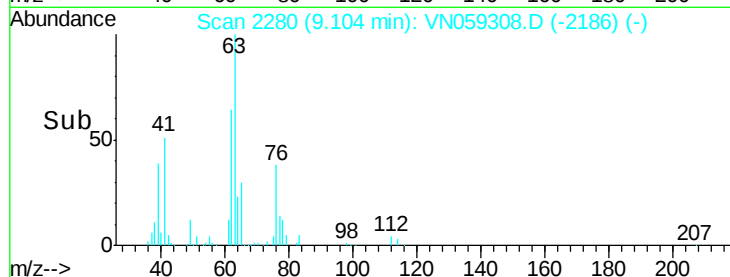
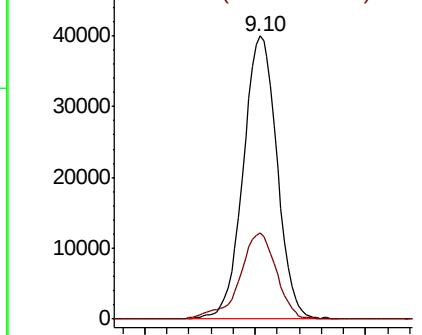
MMDadoda

11/20/2019 1:37:09 PM



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0



#46

Dibromomethane

Concen: 18.405 ug/l

RT: 9.19 min Scan# 2308

Delta R.T. 0.00 min

Lab File: VN059308.D

Acq: 19 Nov 2019 15:54

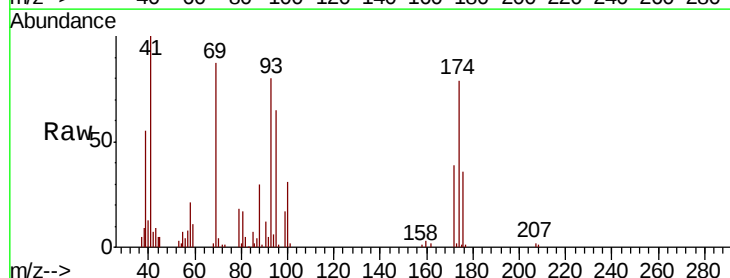
Tgt Ion: 93 Resp: 52654

Ion Ratio Lower Upper

93 100

95 83.8 66.6 100.0

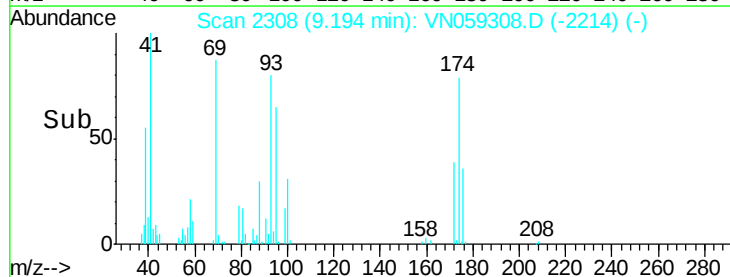
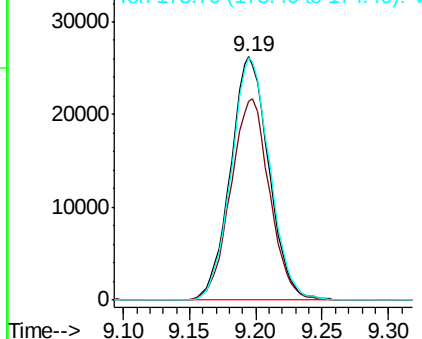
174 99.9 78.2 117.2

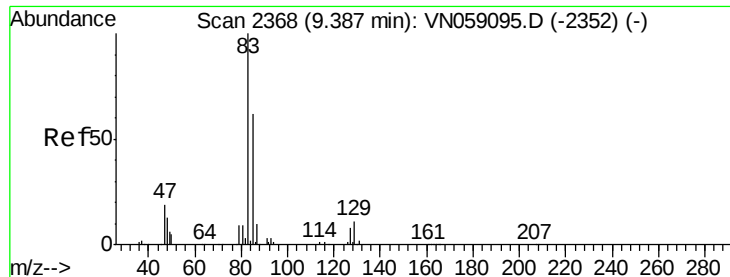


Abundance Ion 92.80 (92.50 to 93.50): VN0

Ion 94.80 (94.50 to 95.50): VN0

Ion 173.70 (173.40 to 174.40): V





#47

Bromodichloromethane

Concen: 17.974 ug/l

RT: 9.39 min Scan# 2369

Delta R.T. 0.00 min

Lab File: VN059308.D

Acq: 19 Nov 2019 15:54

Instrument :

MSVOA_N

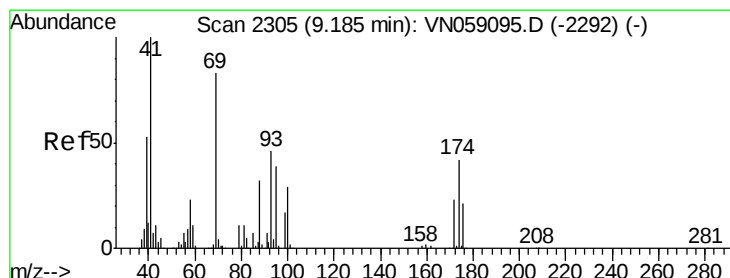
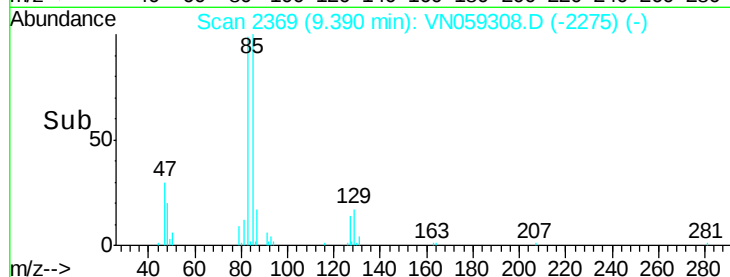
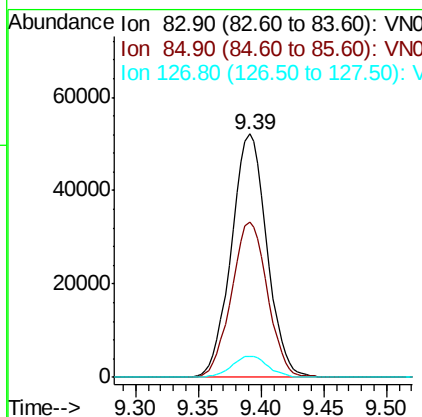
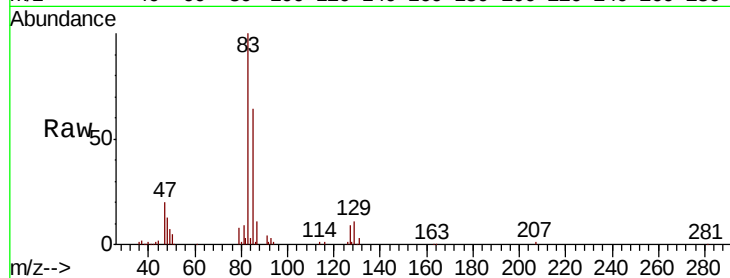
ClientSampleId :

VN1119WBS04

Tot Ion:	83	Resp:	102682
Ion Ratio	Lower	Upper	
83	100		
85	64.0	49.7	74.5
127	8.7	6.4	9.6

Manual Integrations
APPROVED

MMDadoda
11/20/2019 1:37:09 PM



#48

Methyl methacrylate

Concen: 16.983 ug/l

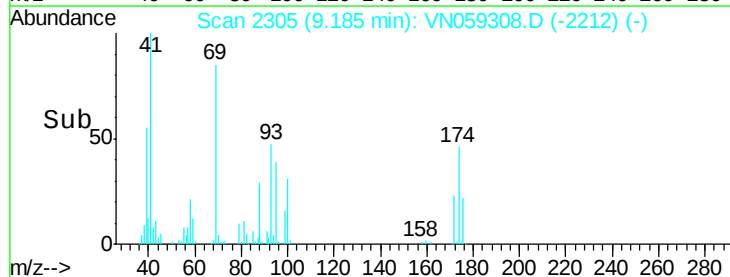
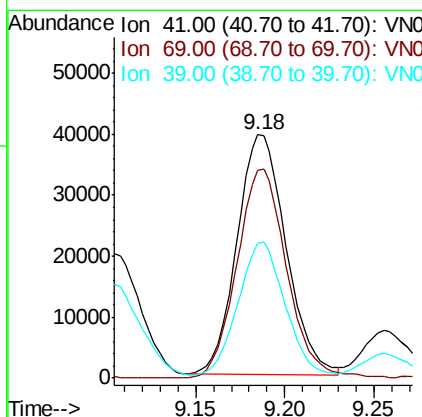
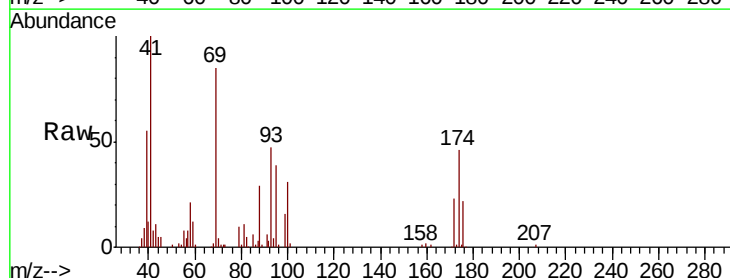
RT: 9.18 min Scan# 2305

Delta R.T. -0.00 min

Lab File: VN059308.D

Acq: 19 Nov 2019 15:54

Tgt Ion:	41	Resp:	75620
Ion Ratio	Lower	Upper	
41	100		
69	88.6	67.3	100.9
39	53.0	43.3	64.9





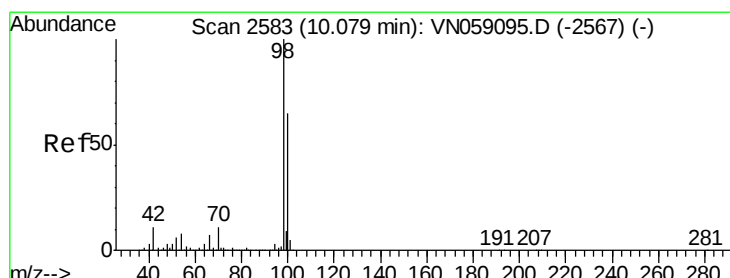
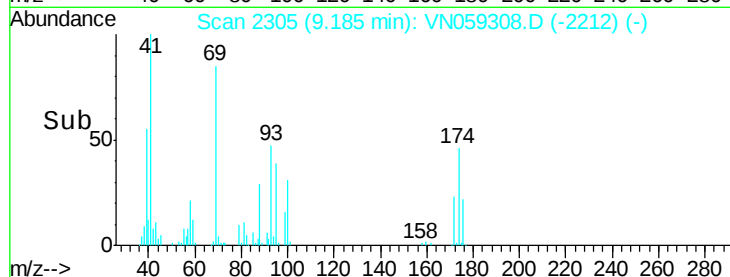
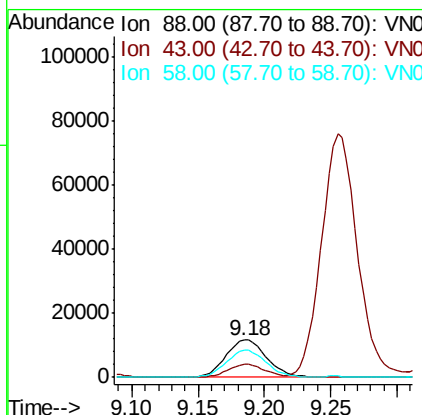
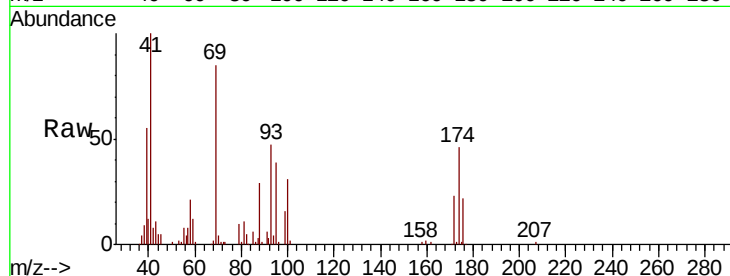
#49
1,4-Dioxane
Concen: 315.812 ug/l
RT: 9.18 min Scan# 2305
Delta R.T. -0.00 min
Lab File: VN059308.D
Acq: 19 Nov 2019 15:54

Instrument :
MSVOA_N
ClientSampleId :
VN1119WBS04

Tot Ion	Ratio	Lower	Upper
88	100		
43	31.6	26.3	39.5
58	71.5	60.6	90.8

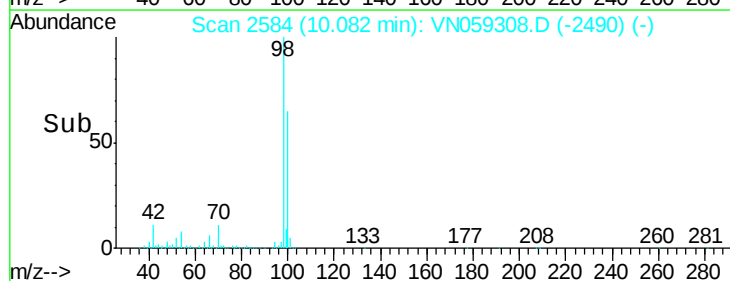
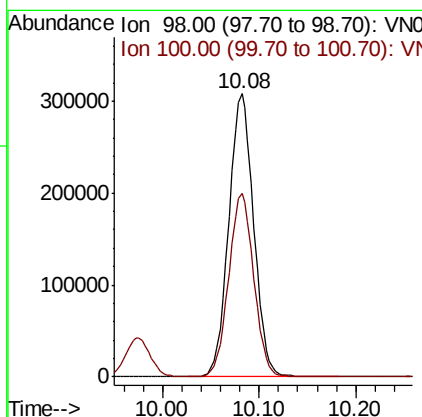
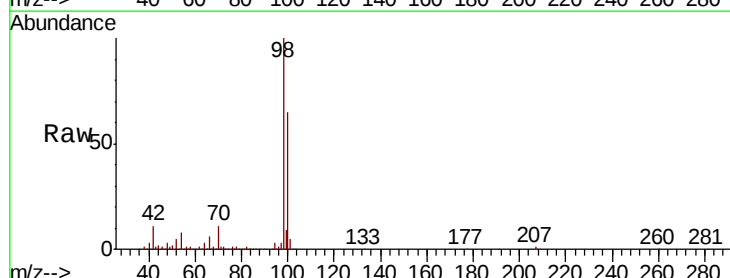
Manual Integrations
APPROVED

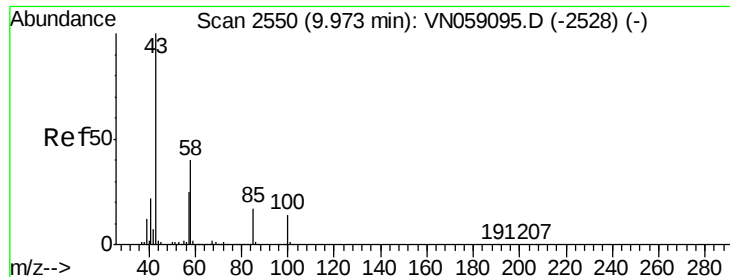
MMDadoda
11/20/2019 1:37:09 PM



#50
Toluene-d8
Concen: 38.940 ug/l
RT: 10.08 min Scan# 2584
Delta R.T. 0.00 min
Lab File: VN059308.D
Acq: 19 Nov 2019 15:54

Tgt Ion	Ratio	Lower	Upper
98	100		
100	65.3	52.2	78.2





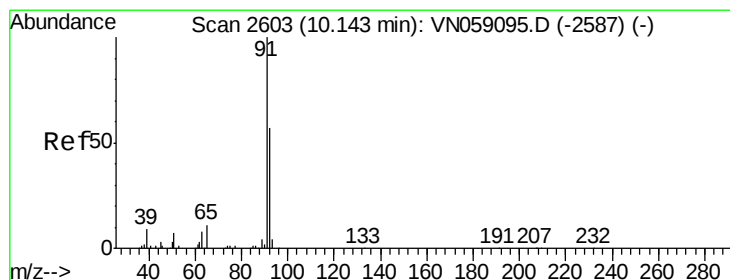
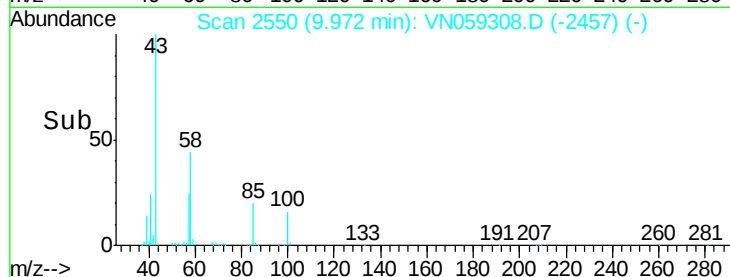
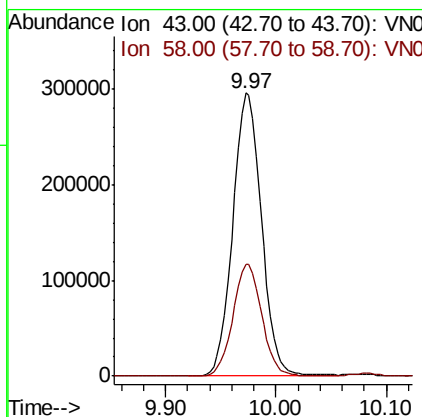
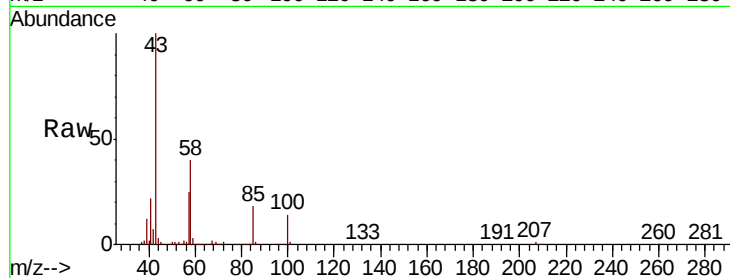
#51
4-Methyl-2-Pentanone
Concen: 94.952 ug/l
RT: 9.97 min Scan# 2550
Delta R.T. -0.00 min
Lab File: VN059308.D
Acq: 19 Nov 2019 15:54

Instrument :
MSVOA_N
ClientSampleId :
VN1119WBS04

Tot Ion	Ratio	Lower	Upper
43	100		
58	39.6	31.5	47.3

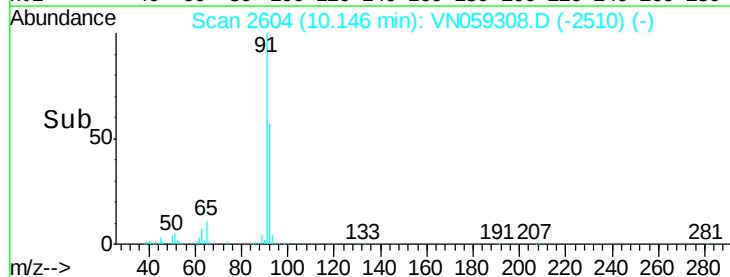
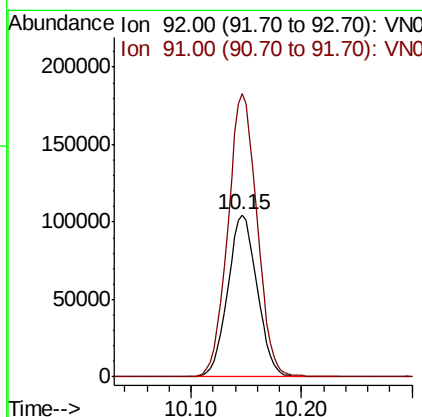
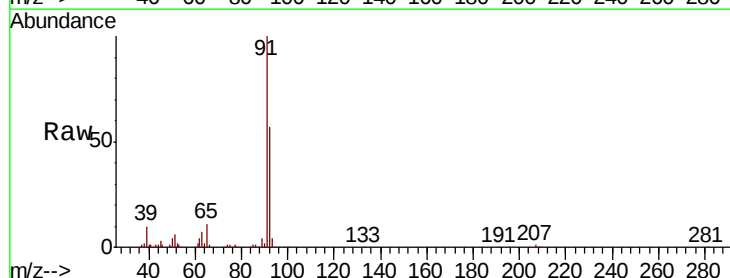
Manual Integrations
APPROVED

MMDadoda
11/20/2019 1:37:09 PM



#52
Toluene
Concen: 19.050 ug/l
RT: 10.15 min Scan# 2604
Delta R.T. 0.00 min
Lab File: VN059308.D
Acq: 19 Nov 2019 15:54

Tgt Ion	Ratio	Lower	Upper
92	100		
91	173.6	139.5	209.3





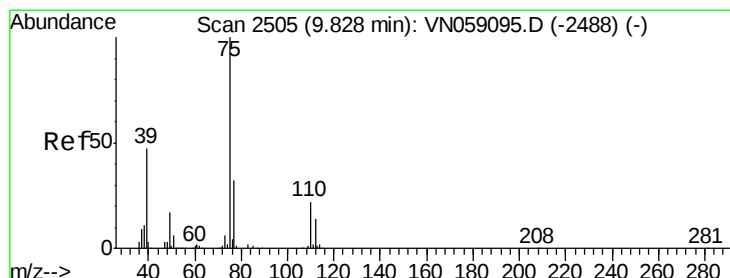
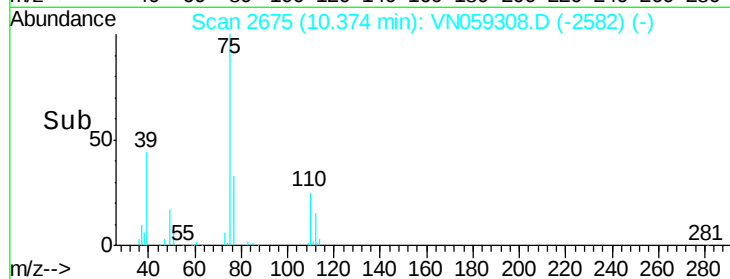
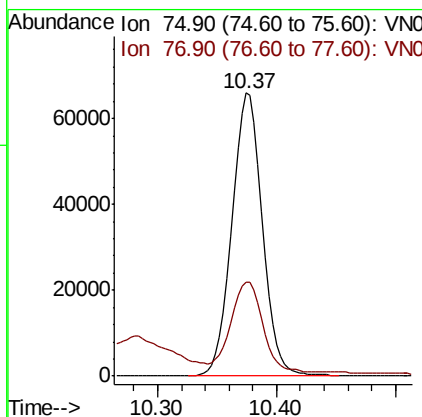
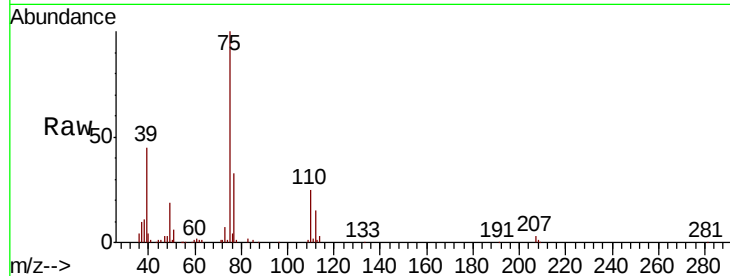
#53
t-1,3-Dichloropropene
Concen: 17.734 ug/l
RT: 10.37 min Scan# 2675
Delta R.T. -0.00 min
Lab File: VN059308.D
Acq: 19 Nov 2019 15:54

Instrument :
MSVOA_N
ClientSampleId :
VN1119WBS04

Tot Ion	Ratio	Lower	Upper
75	100		
77	31.9	25.3	37.9

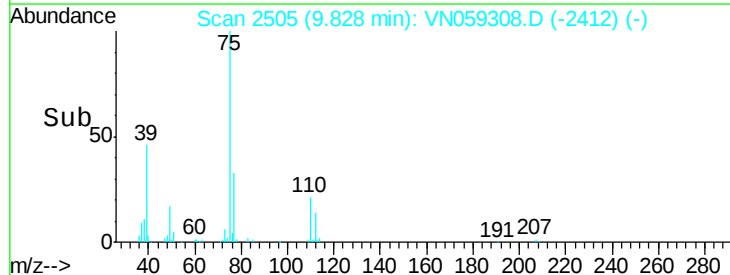
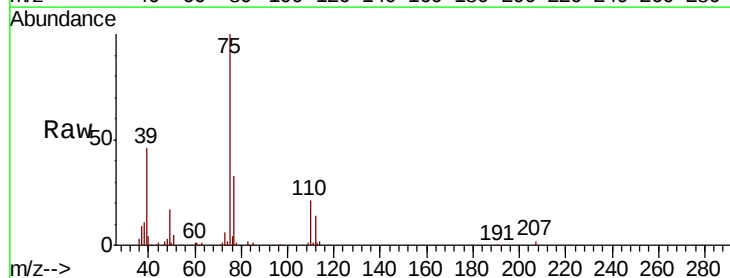
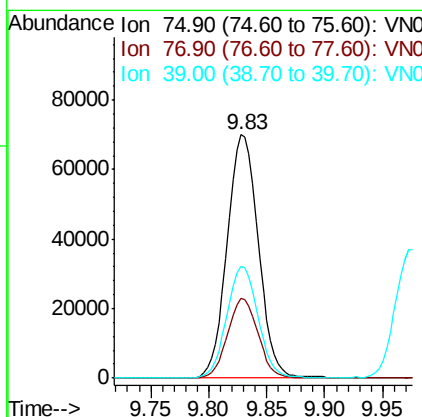
Manual Integrations
APPROVED

MMDadoda
11/20/2019 1:37:09 PM



#54
cis-1,3-Dichloropropene
Concen: 18.378 ug/l
RT: 9.83 min Scan# 2505
Delta R.T. -0.00 min
Lab File: VN059308.D
Acq: 19 Nov 2019 15:54

Tgt Ion	Ratio	Lower	Upper
75	100		
77	32.8	25.5	38.3
39	45.9	37.3	55.9





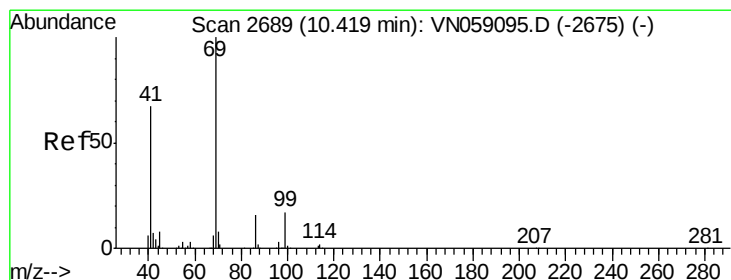
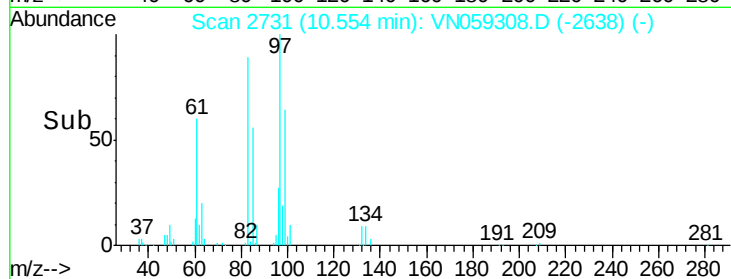
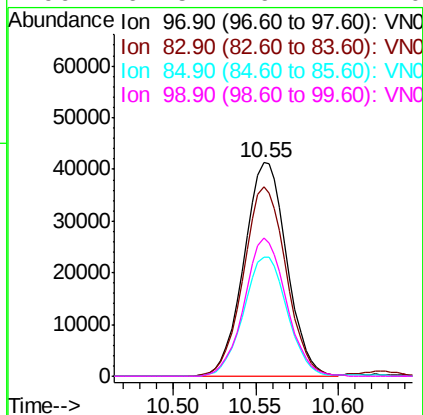
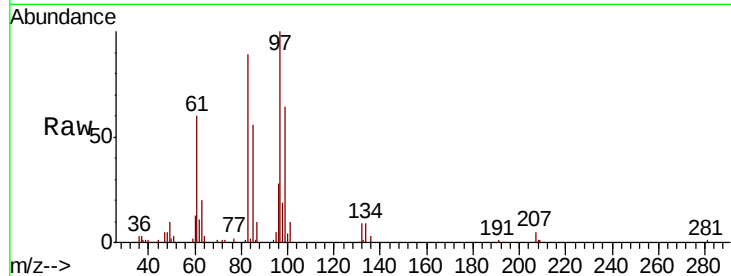
#55
 1,1,2-Trichloroethane
 Concen: 18.161 ug/l
 RT: 10.55 min Scan# 2731
 Delta R.T. -0.00 min
 Lab File: VN059308.D
 Acq: 19 Nov 2019 15:54

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1119WBS04

Tot Ion	Ratio	Lower	Upper
97	100		
83	89.0	71.0	106.4
85	56.0	45.8	68.8
99	64.5	49.4	74.0

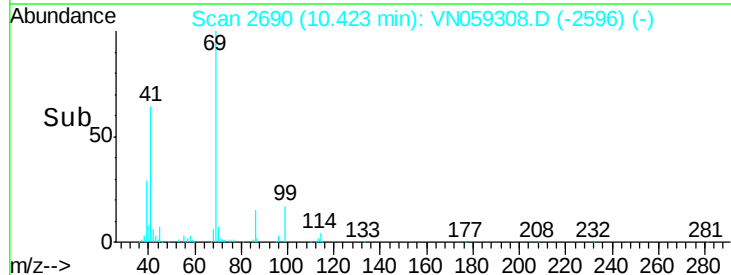
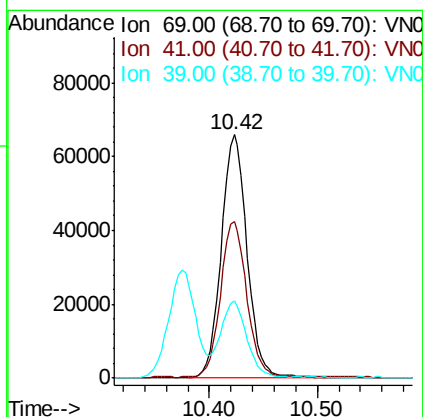
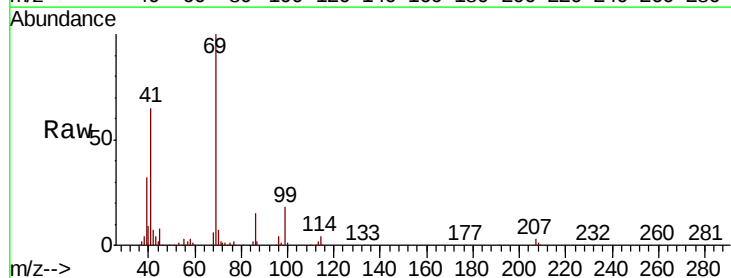
Manual Integrations
 APPROVED

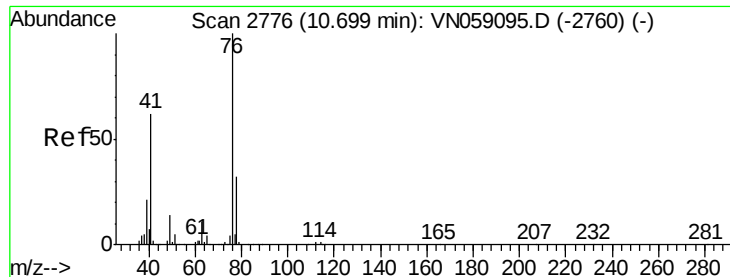
MMDadoda
 11/20/2019 1:37:09 PM



#56
 Ethyl methacrylate
 Concen: 17.352 ug/l
 RT: 10.42 min Scan# 2690
 Delta R.T. 0.00 min
 Lab File: VN059308.D
 Acq: 19 Nov 2019 15:54

Tgt Ion	Ratio	Lower	Upper
69	100		
41	65.1	53.6	80.4
39	31.6	26.2	39.4





#57

1,3-Dichloropropane

Concen: 18.545 ug/l

RT: 10.70 min Scan# 2776

Delta R.T. -0.00 min

Lab File: VN059308.D

Acq: 19 Nov 2019 15:54

Instrument :

MSVOA_N

ClientSampleId :

VN1119WBS04

Tot Ion: 76 Resp: 130868

Ion Ratio Lower Upper

76 100

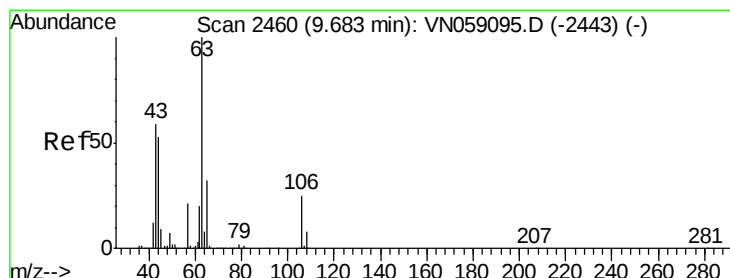
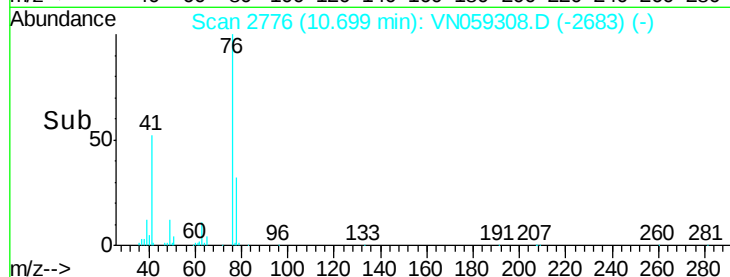
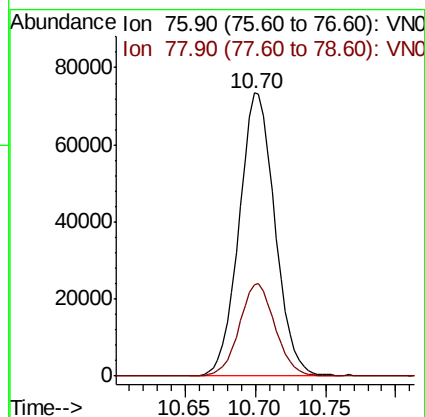
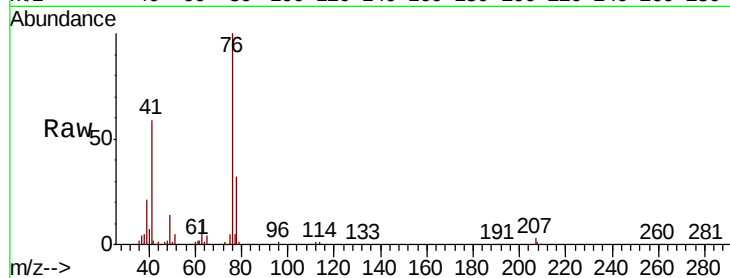
78 32.9 25.8 38.8

Manual Integrations

APPROVED

MMDadoda

11/20/2019 1:37:09 PM



#58

2-Chloroethyl Vinyl ether

Concen: 64.745 ug/l

RT: 9.69 min Scan# 2461

Delta R.T. 0.00 min

Lab File: VN059308.D

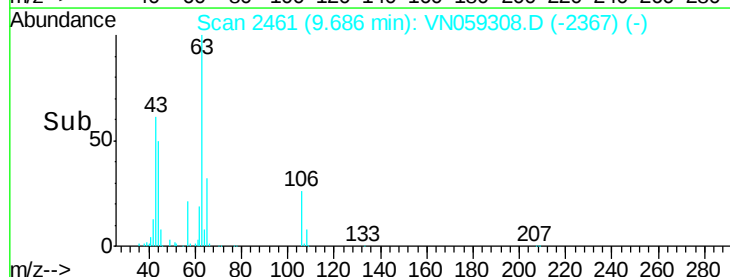
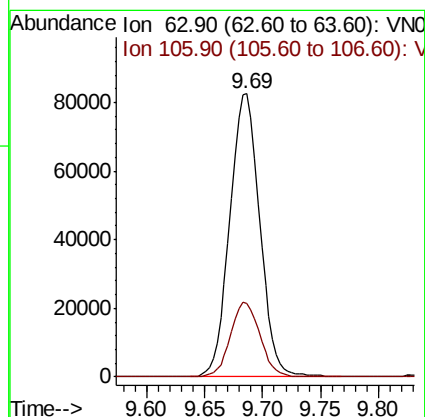
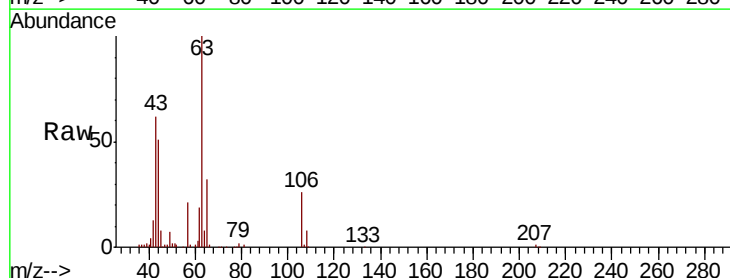
Acq: 19 Nov 2019 15:54

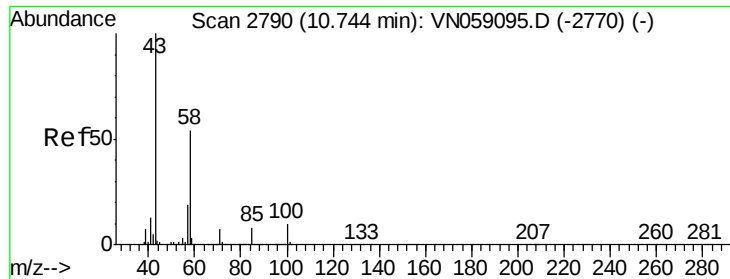
Tgt Ion: 63 Resp: 147734

Ion Ratio Lower Upper

63 100

106 25.8 20.2 30.2





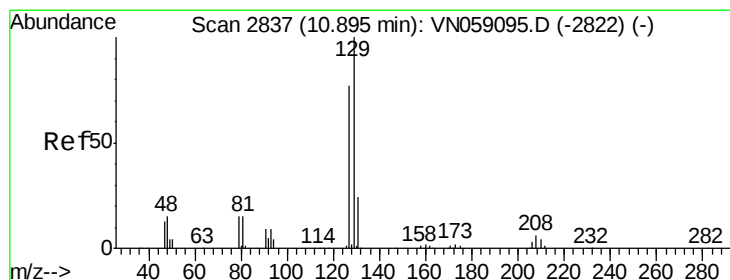
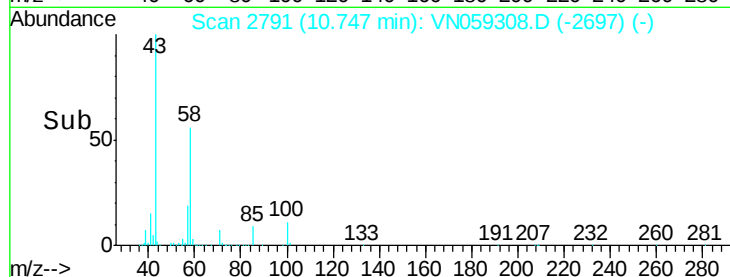
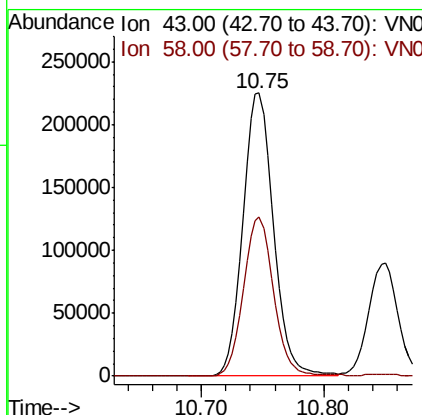
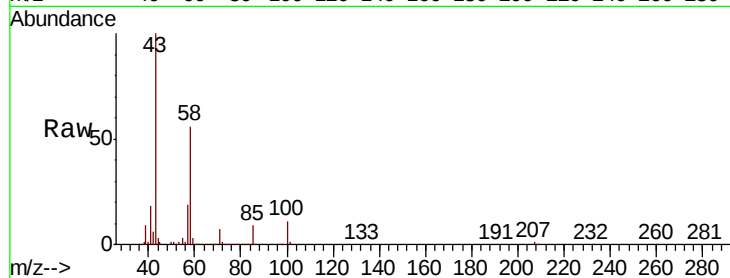
#59
2-Hexanone
Concen: 89.617 ug/l
RT: 10.75 min Scan# 2791
Delta R.T. 0.00 min
Lab File: VN059308.D
Acq: 19 Nov 2019 15:54

Instrument :
MSVOA_N
ClientSampleId :
VN1119WBS04

Tot Ion: 43 Resp: 387447
Ion Ratio Lower Upper
43 100
58 55.3 27.3 81.8

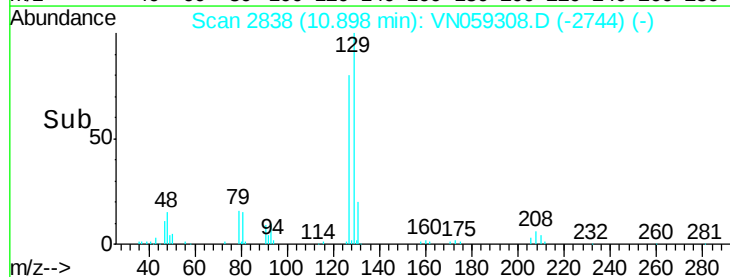
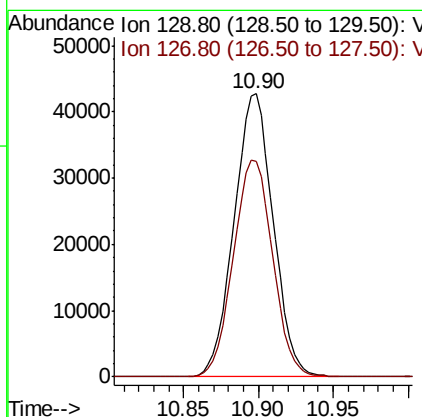
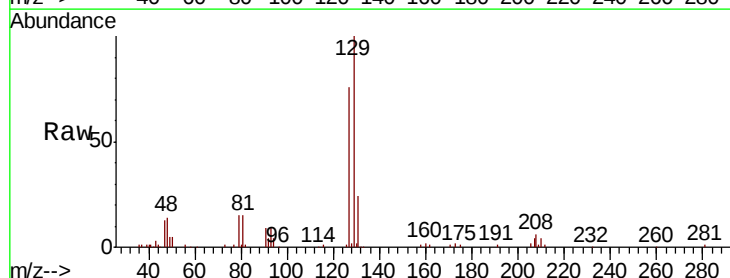
Manual Integrations
APPROVED

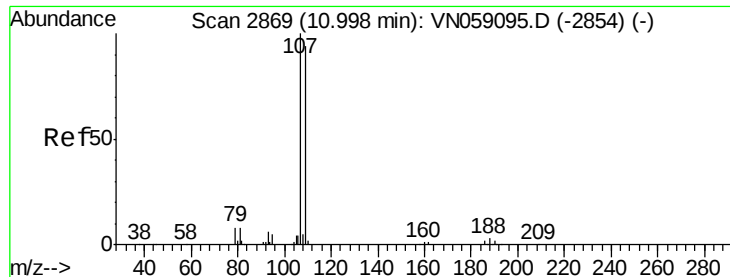
MMDadoda
11/20/2019 1:37:09 PM



#60
Dibromochloromethane
Concen: 17.956 ug/l
RT: 10.90 min Scan# 2838
Delta R.T. 0.00 min
Lab File: VN059308.D
Acq: 19 Nov 2019 15:54

Tgt Ion: 129 Resp: 77839
Ion Ratio Lower Upper
129 100
127 77.0 38.6 115.8





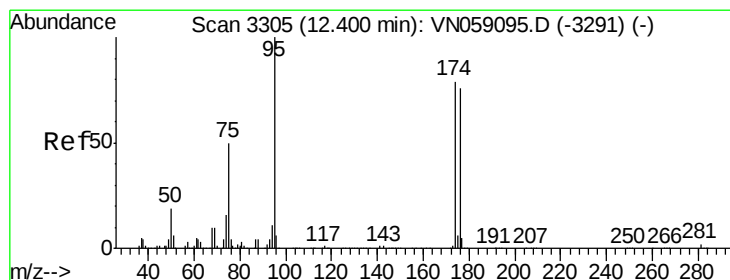
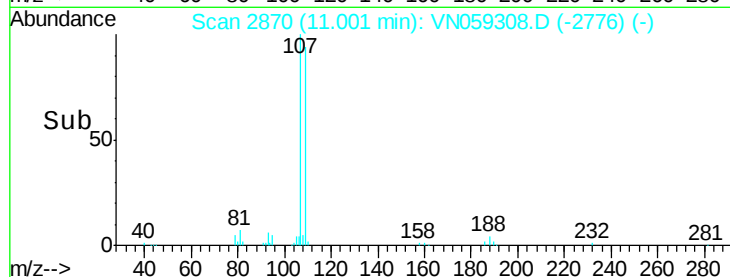
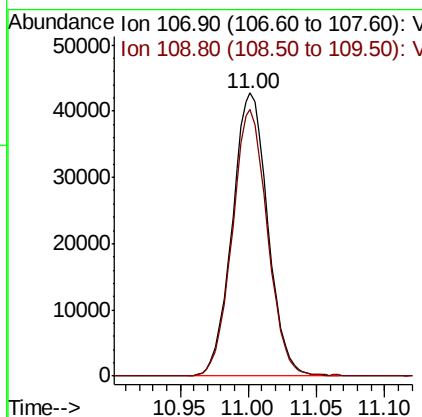
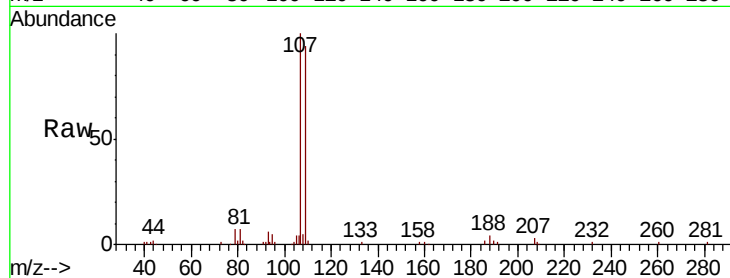
#61
 1,2-Dibromoethane
 Concen: 18.632 ug/l
 RT: 11.00 min Scan# 2870
 Delta R.T. 0.00 min
 Lab File: VN059308.D
 Acq: 19 Nov 2019 15:54

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1119WBS04

Tot Ion	Ratio	Lower	Upper
107	100		
109	92.8	75.5	113.3

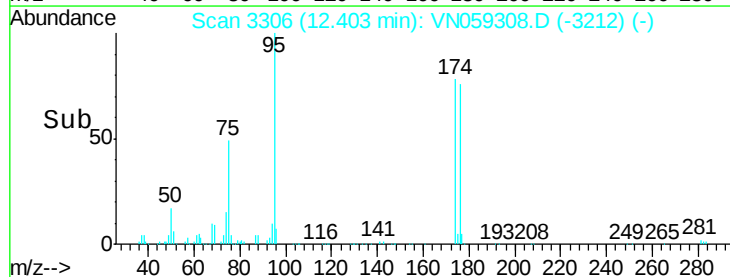
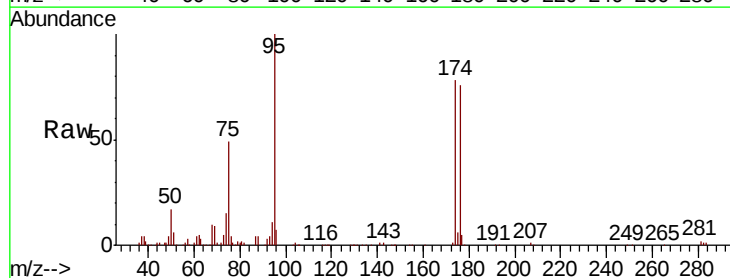
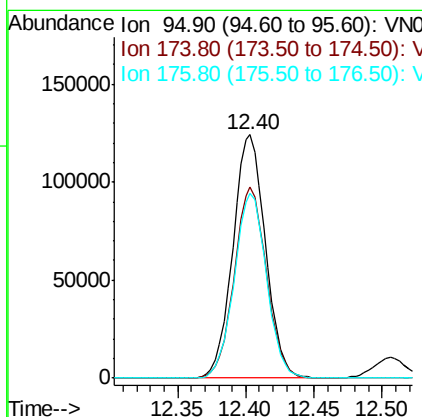
Manual Integrations
 APPROVED

MMDadoda
 11/20/2019 1:37:09 PM



#62
 4-Bromofluorobenzene
 Concen: 40.396 ug/l
 RT: 12.40 min Scan# 3306
 Delta R.T. 0.00 min
 Lab File: VN059308.D
 Acq: 19 Nov 2019 15:54

Tgt Ion	Ratio	Lower	Upper
95	100		
174	77.7	0.0	158.2
176	75.2	0.0	151.8





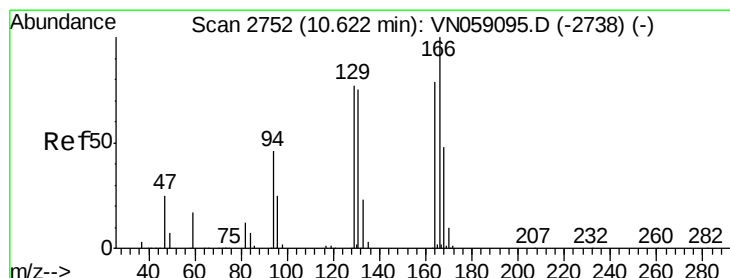
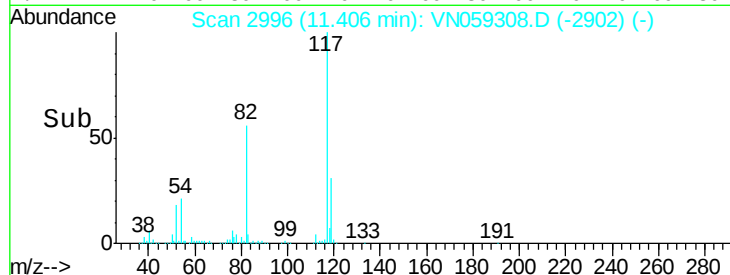
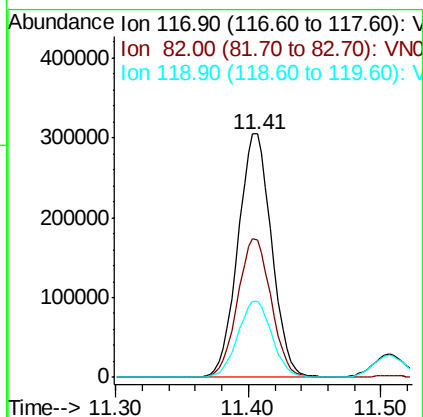
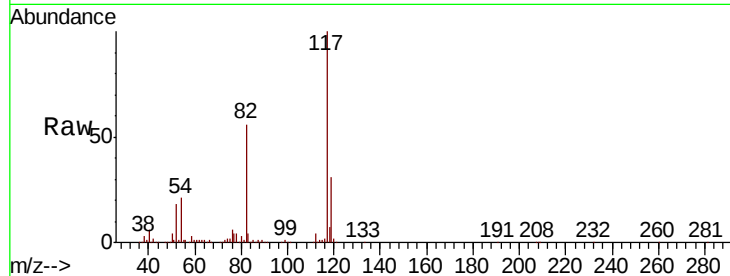
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN059308.D
Acq: 19 Nov 2019 15:54

Instrument :
MSVOA_N
ClientSampleId :
VN1119WBS04

Tot Ion	Ratio	Lower	Upper
117	100		
82	56.3	45.8	68.8
119	31.4	25.8	38.6

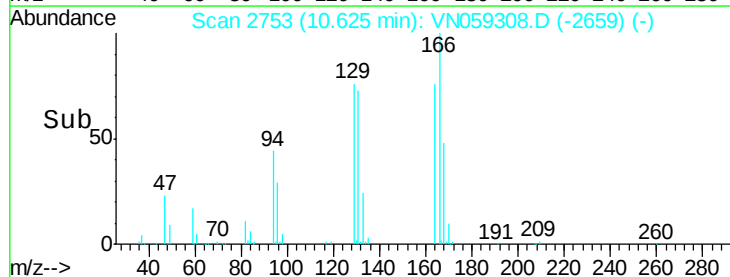
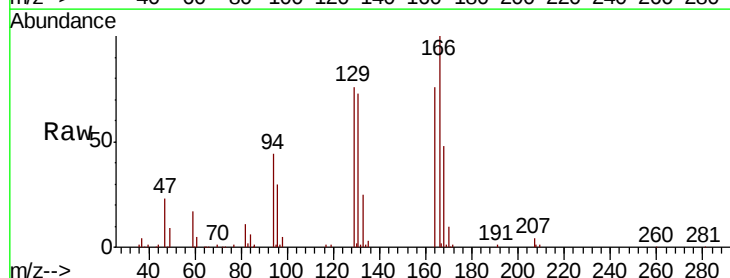
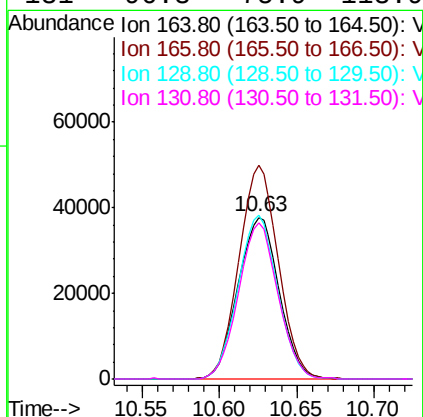
Manual Integrations
APPROVED

MMDadoda
11/20/2019 1:37:09 PM



#64
Tetrachloroethene
Concen: 19.157 ug/l
RT: 10.63 min Scan# 2753
Delta R.T. 0.00 min
Lab File: VN059308.D
Acq: 19 Nov 2019 15:54

Tgt Ion	Ratio	Lower	Upper
164	100		
166	132.1	101.5	152.3
129	101.0	78.3	117.5
131	96.3	75.9	113.9





#65

Chlorobenzene

Concen: 19.136 ug/l

RT: 11.43 min Scan# 3003

Delta R.T. -0.00 min

Lab File: VN059308.D

Acq: 19 Nov 2019 15:54

Instrument :

MSVOA_N

ClientSampleId :

VN1119WBS04

Tot Ion:112 Resp: 200396

Ion Ratio Lower Upper

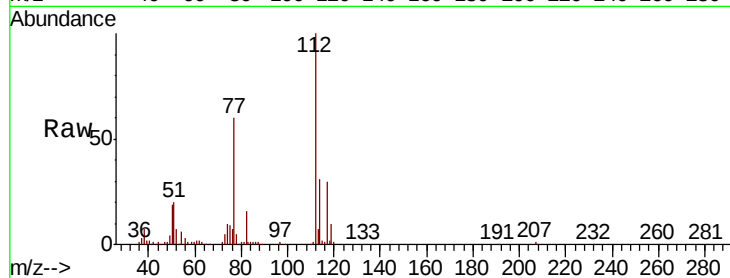
112 100

114 31.4 25.2 37.8

Manual Integrations
APPROVED

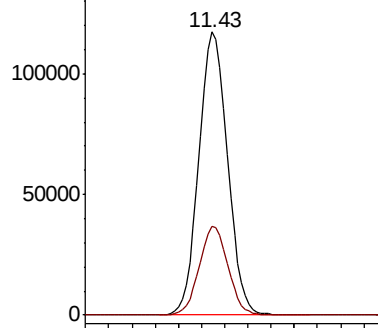
MMDadoda

11/20/2019 1:37:09 PM

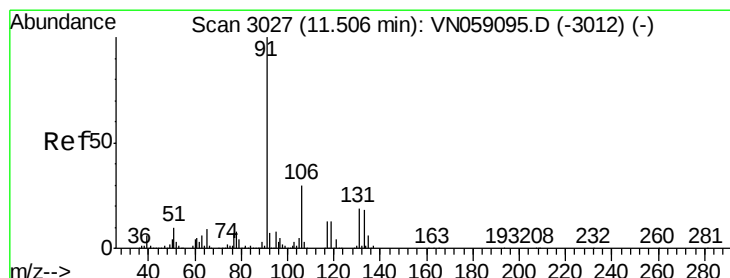
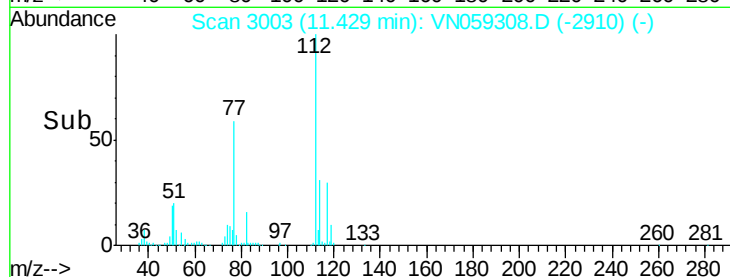


Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V



Time-->



#66

1,1,1,2-Tetrachloroethane

Concen: 18.674 ug/l

RT: 11.51 min Scan# 3027

Delta R.T. -0.00 min

Lab File: VN059308.D

Acq: 19 Nov 2019 15:54

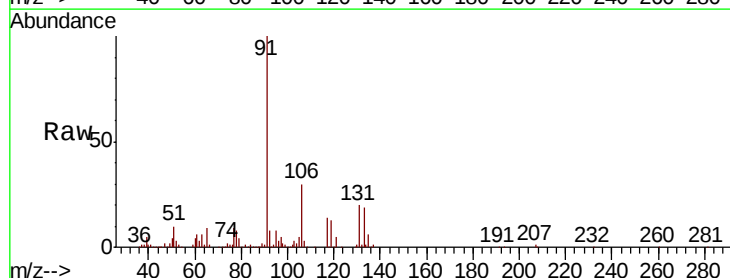
Tgt Ion:131 Resp: 73359

Ion Ratio Lower Upper

131 100

133 94.0 47.4 142.3

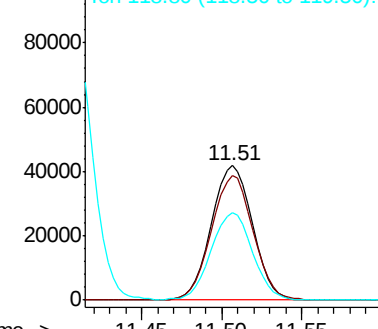
119 65.8 33.2 99.6



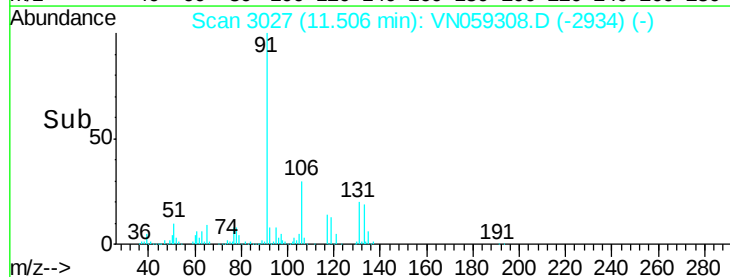
Abundance Ion 130.80 (130.50 to 131.50): V

Ion 132.80 (132.50 to 133.50): V

Ion 118.80 (118.50 to 119.50): V



Time-->





#67

Ethyl Benzene

Concen: 19.304 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. 0.00 min

Lab File: VN059308.D

Acq: 19 Nov 2019 15:54

Instrument :

MSVOA_N

ClientSampleId :

VN1119WBS04

Tot Ion: 91 Resp: 358676

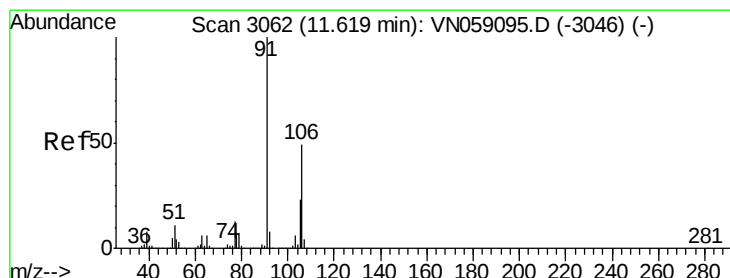
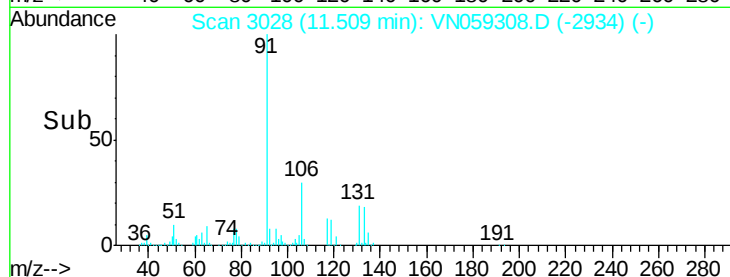
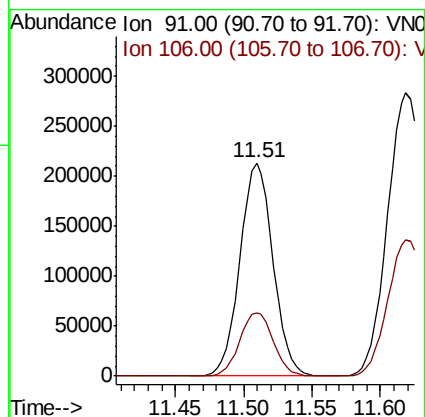
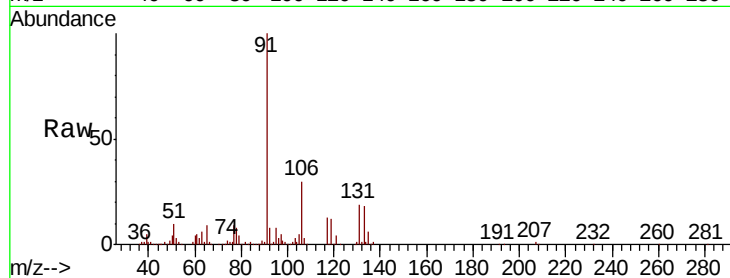
Ion Ratio Lower Upper

91 100

106 29.9 24.1 36.1

Manual Integrations
APPROVED

MMDadoda
11/20/2019 1:37:09 PM



#68

m/p-Xylenes

Concen: 38.032 ug/l

RT: 11.62 min Scan# 3062

Delta R.T. -0.00 min

Lab File: VN059308.D

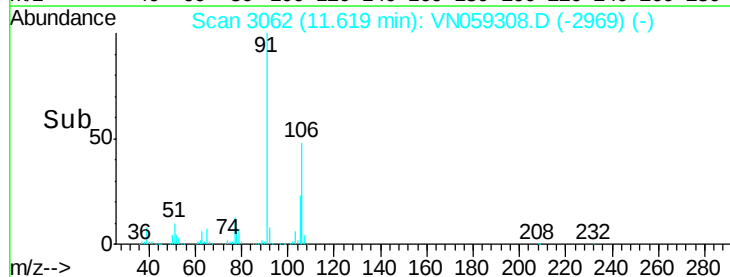
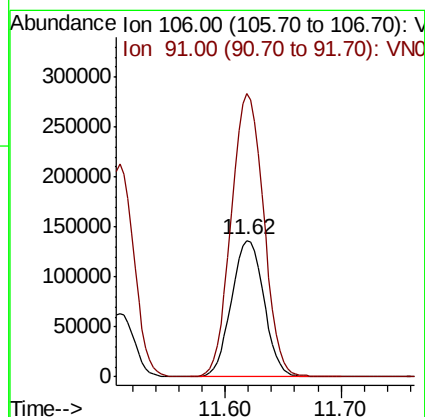
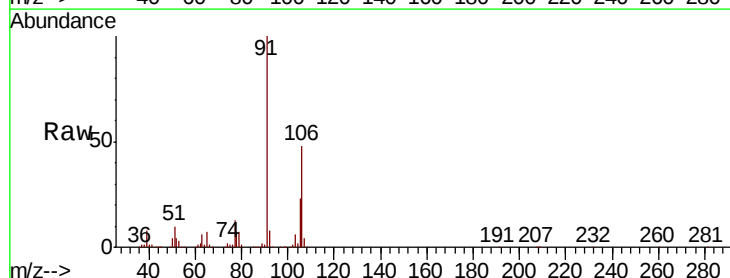
Acq: 19 Nov 2019 15:54

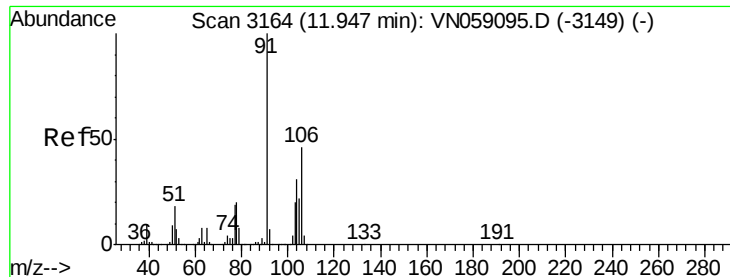
Tgt Ion: 106 Resp: 264693

Ion Ratio Lower Upper

106 100

91 206.5 164.7 247.1





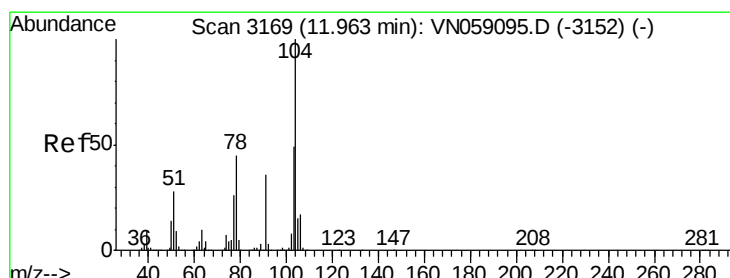
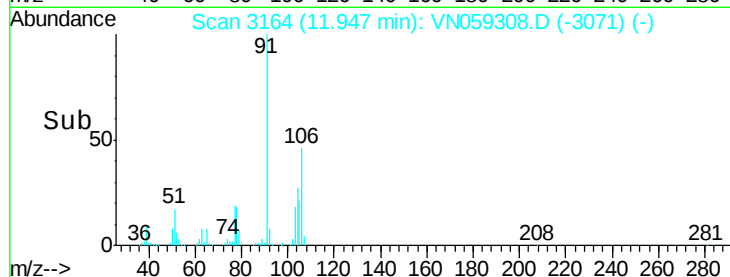
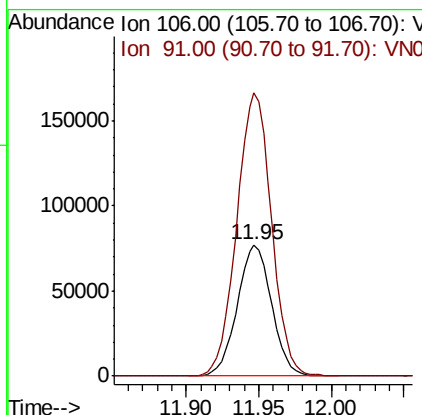
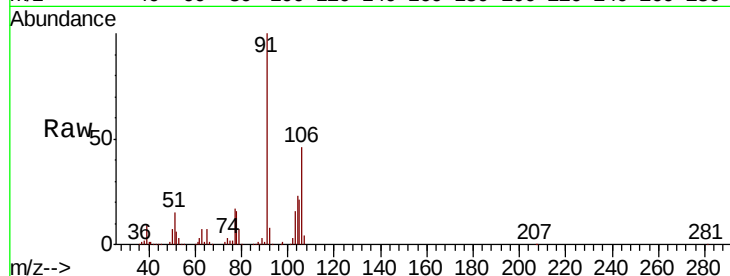
#69
o-Xylene
Concen: 18.753 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. -0.00 min
Lab File: VN059308.D
Acq: 19 Nov 2019 15:54

Instrument :
MSVOA_N
ClientSampleId :
VN1119WBS04

Tot Ion	Ion	Ratio	Resp	Lower	Upper
106	106	100	126130		
91	91	219.1	110.1	330.3	

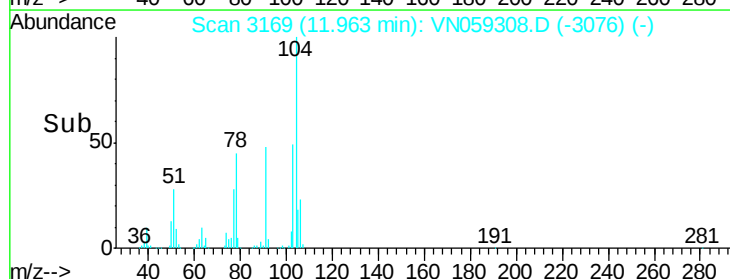
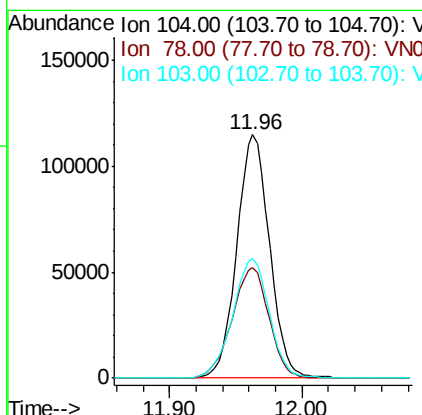
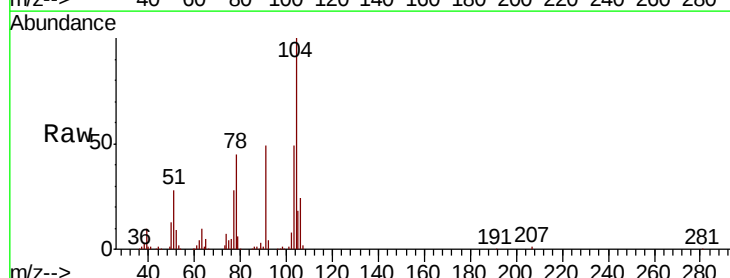
Manual Integrations
APPROVED

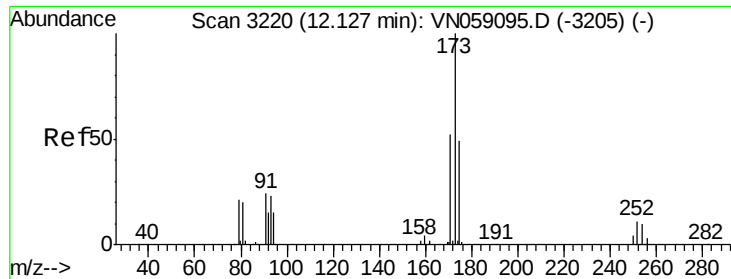
MMDadoda
11/20/2019 1:37:09 PM



#70
Styrene
Concen: 18.616 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. -0.00 min
Lab File: VN059308.D
Acq: 19 Nov 2019 15:54

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
104	104	100	196919		
78	78	51.2	41.2	61.8	
103	103	54.9	43.8	65.6	





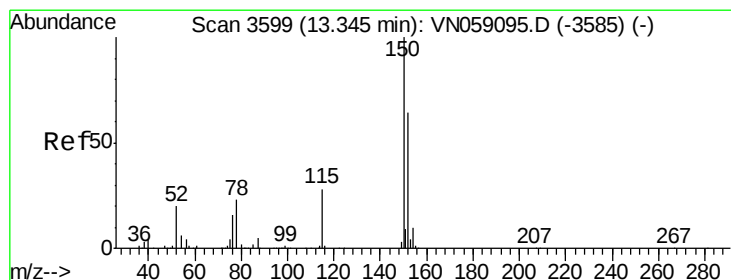
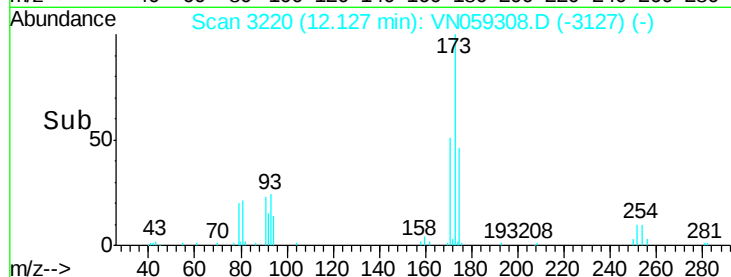
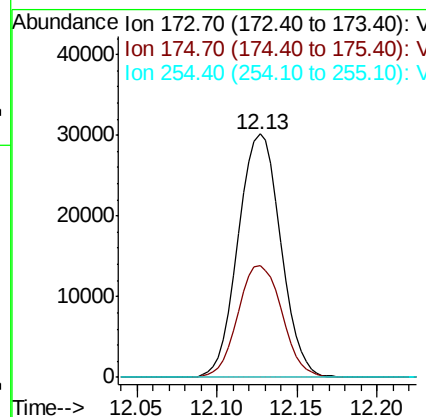
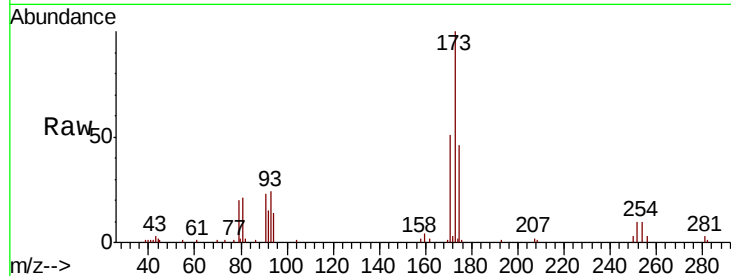
#71
Bromoform
Concen: 17.904 ug/l
RT: 12.13 min Scan# 3220
Delta R.T. -0.00 min
Lab File: VN059308.D
Acq: 19 Nov 2019 15:54

Instrument :
MSVOA_N
ClientSampleId :
VN1119WBS04

Tot Ion	Ratio	Lower	Upper
173	100		
175	47.6	24.2	72.6
254	0.0	0.1	0.1#

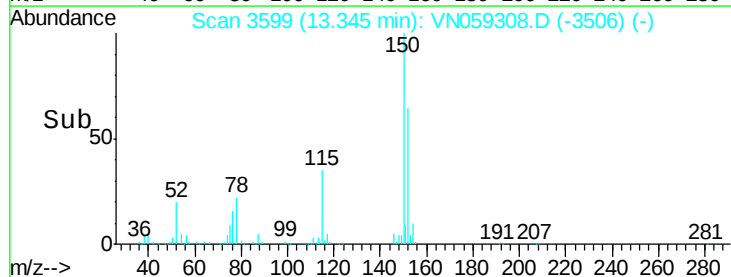
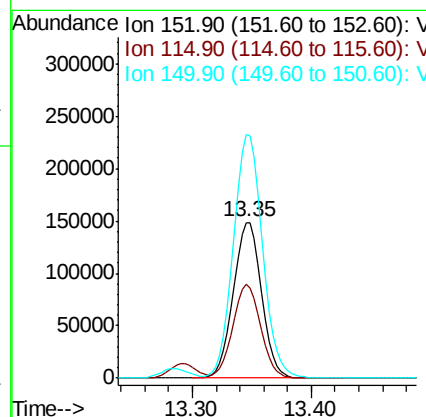
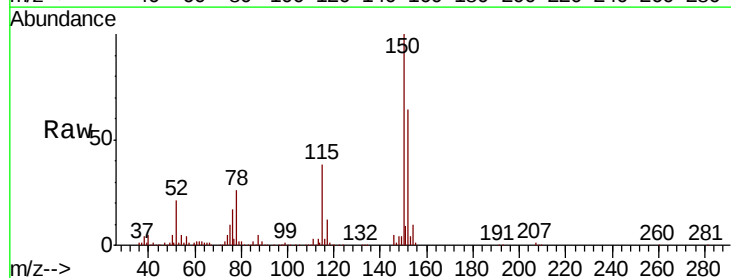
Manual Integrations
APPROVED

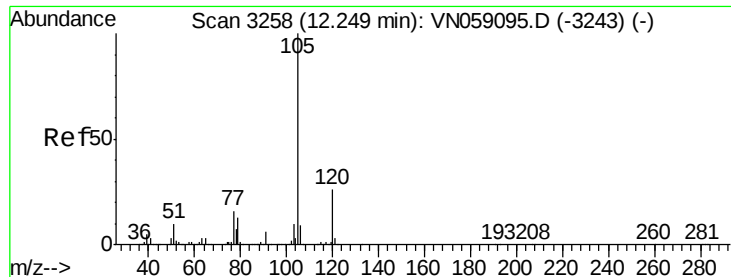
MMDadoda
11/20/2019 1:37:09 PM



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3599
Delta R.T. -0.00 min
Lab File: VN059308.D
Acq: 19 Nov 2019 15:54

Tgt Ion	Ratio	Lower	Upper
152	100		
115	59.6	29.4	88.2
150	161.3	0.0	345.8





#73

Isopropylbenzene

Concen: 19.085 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. -0.00 min

Lab File: VN059308.D

Acq: 19 Nov 2019 15:54

Instrument :

MSVOA_N

ClientSampleId :

VN1119WBS04

Tot Ion: 105 Resp: 339347

Ion Ratio Lower Upper

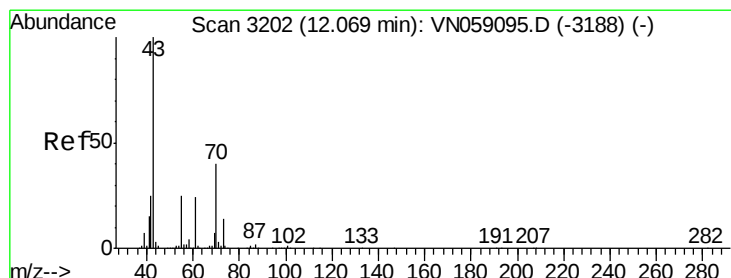
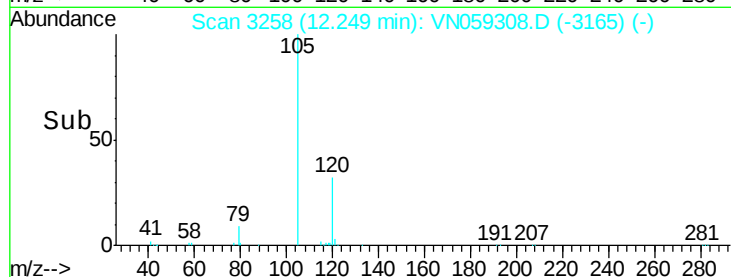
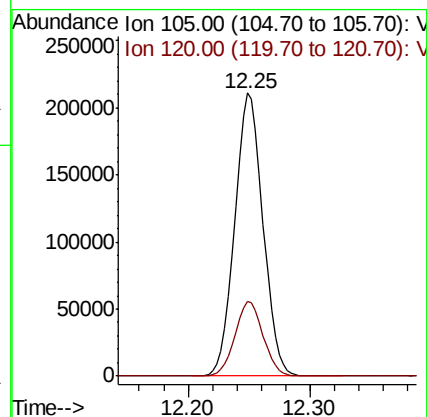
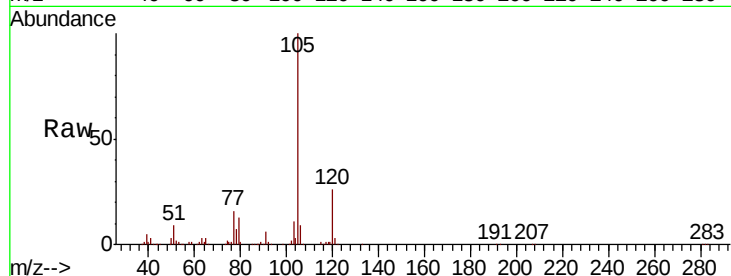
105 100

120 26.5 13.1 39.3

Manual Integrations
APPROVED

MMDadoda

11/20/2019 1:37:09 PM



#74

N-ethyl acetate

Concen: 17.065 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. -0.00 min

Lab File: VN059308.D

Acq: 19 Nov 2019 15:54

Tgt Ion: 43 Resp: 128577

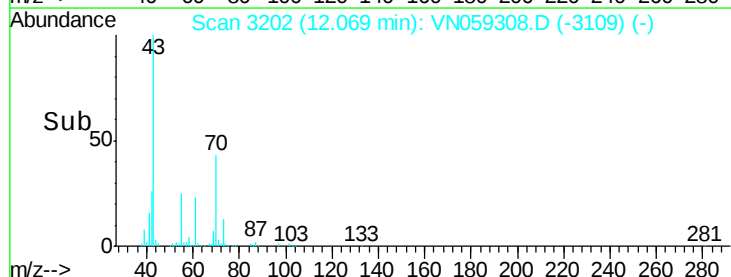
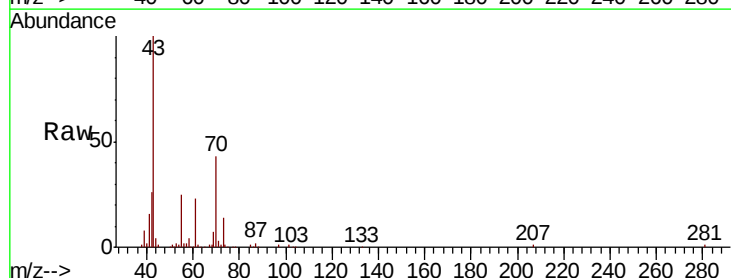
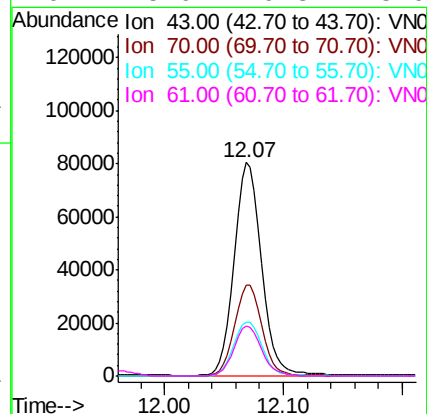
Ion Ratio Lower Upper

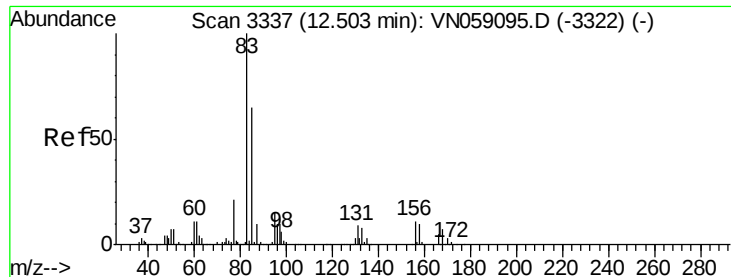
43 100

70 42.8 32.2 48.4

55 26.5 20.4 30.6

61 23.9 19.3 28.9





#75

1,1,2,2-Tetrachloroethane

Concen: 18.357 ug/l

RT: 12.51 min Scan# 3338

Delta R.T. 0.00 min

Lab File: VN059308.D

Acq: 19 Nov 2019 15:54

Instrument :

MSVOA_N

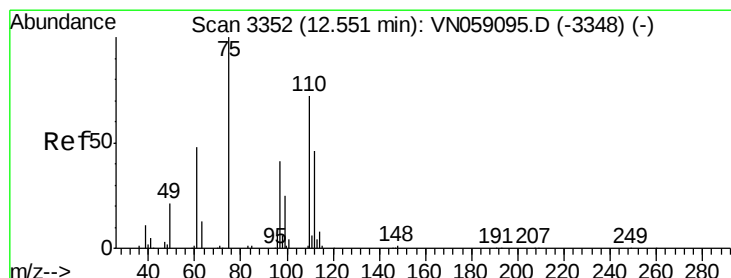
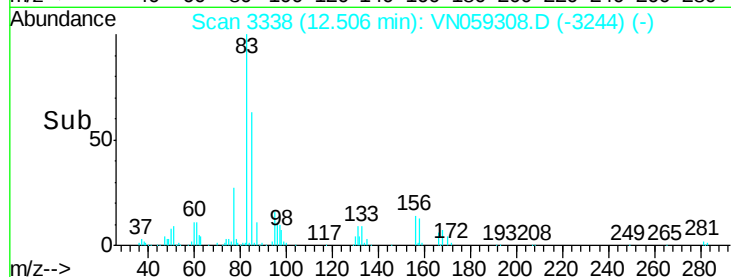
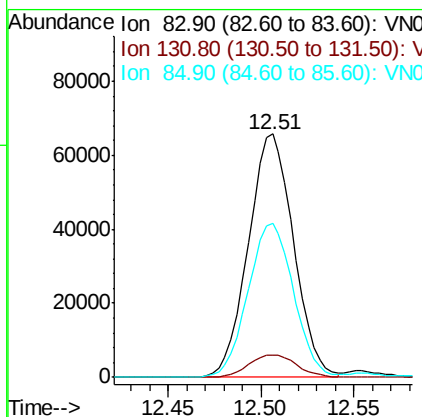
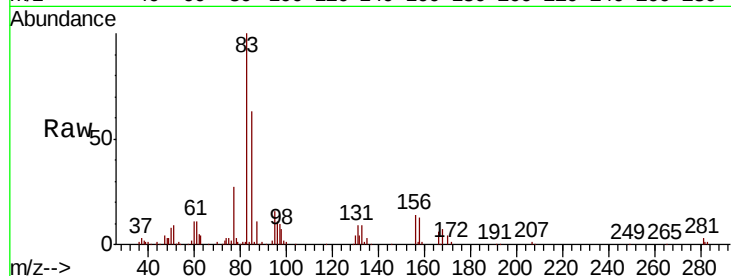
ClientSampleId :

VN1119WBS04

Tot Ion:	83	Resp:	111154
Ion Ratio	Lower	Upper	
83	100		
131	9.8	4.9	14.6
85	63.7	32.4	97.2

Manual Integrations
APPROVED

MMDadoda
11/20/2019 1:37:09 PM



#76

1,2,3-Trichloropropane

Concen: 18.394 ug/l m

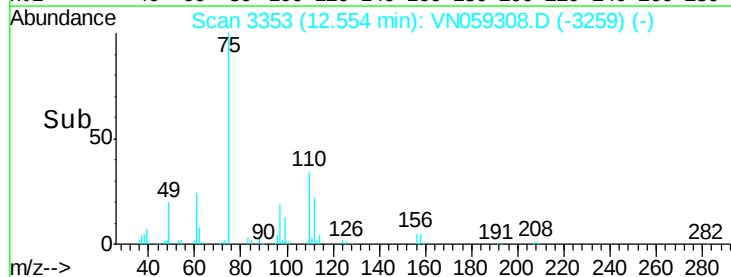
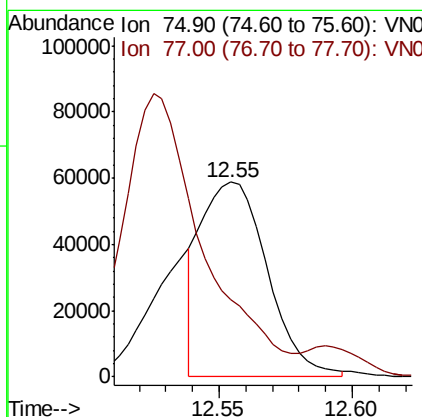
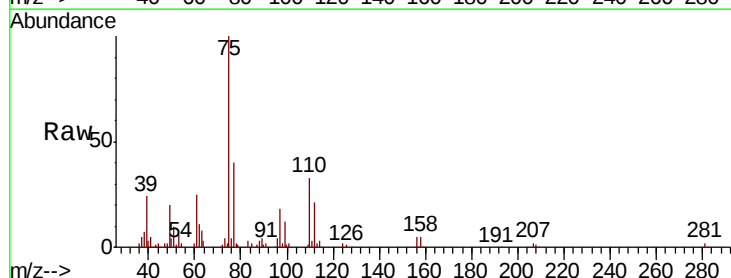
RT: 12.55 min Scan# 3353

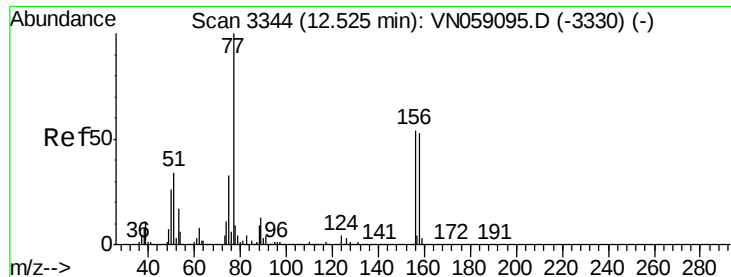
Delta R.T. 0.00 min

Lab File: VN059308.D

Acq: 19 Nov 2019 15:54

Tgt Ion:	75	Resp:	102367
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 18.162 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. -0.00 min

Lab File: VN059308.D

Acq: 19 Nov 2019 15:54

Instrument :

MSVOA_N

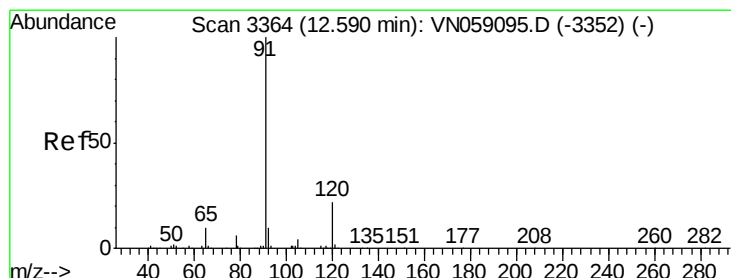
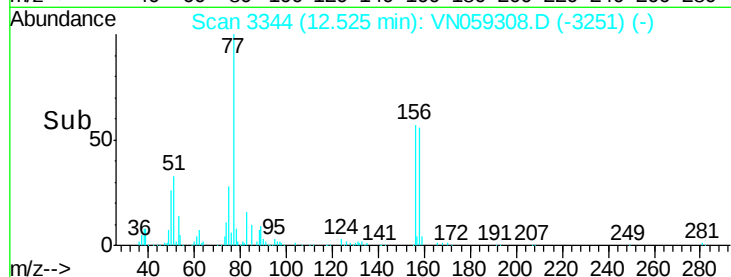
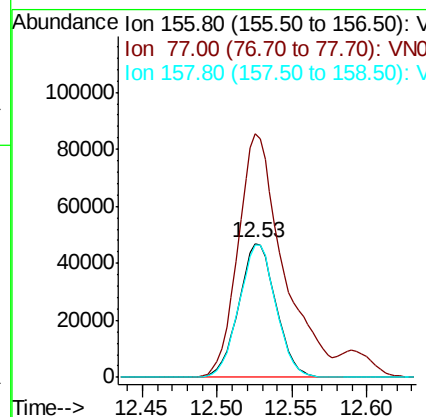
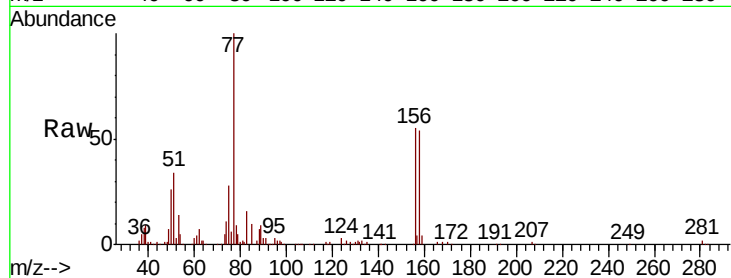
ClientSampleId :

VN1119WBS04

Tot Ion:	156	Resp:	81138
Ion	Ratio	Lower	Upper
156	100		
77	220.9	112.8	338.3
158	98.3	48.4	145.3

Manual Integrations
APPROVED

MMDadoda
11/20/2019 1:37:09 PM



#78

n-propylbenzene

Concen: 19.038 ug/l

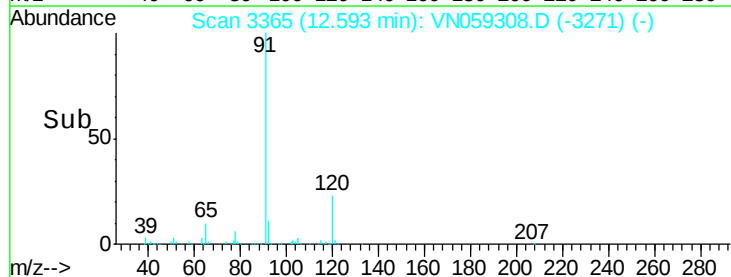
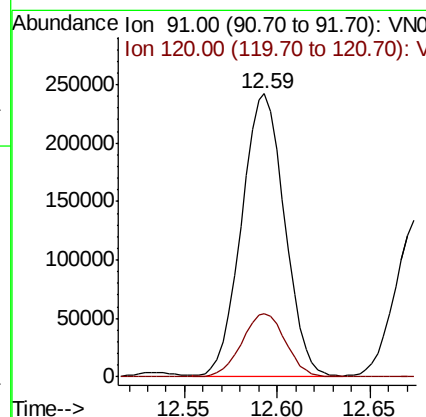
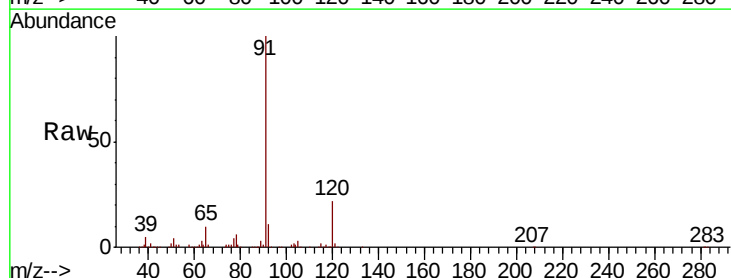
RT: 12.59 min Scan# 3365

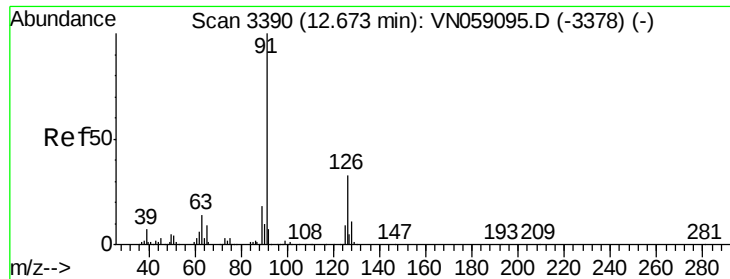
Delta R.T. 0.00 min

Lab File: VN059308.D

Acq: 19 Nov 2019 15:54

Tgt Ion:	91	Resp:	387596
Ion	Ratio	Lower	Upper
91	100		
120	22.7	11.2	33.5





#79

2-Chlorotoluene

Concen: 18.314 ug/l

RT: 12.68 min Scan# 3391

Delta R.T. 0.00 min

Lab File: VN059308.D

Acq: 19 Nov 2019 15:54

Instrument :

MSVOA_N

ClientSampleId :

VN1119WBS04

Tot Ion: 91 Resp: 231308

Ion Ratio Lower Upper

91 100

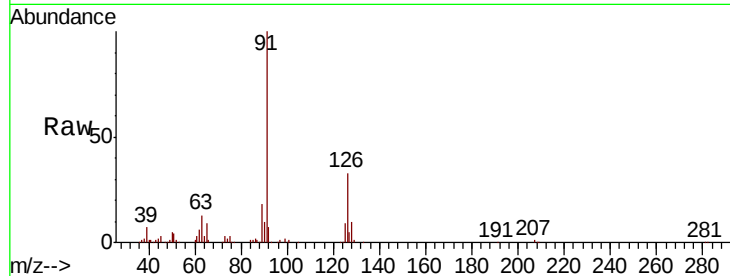
126 33.5 16.7 50.1

Manual Integrations

APPROVED

MMDadoda

11/20/2019 1:37:09 PM



Abundance Ion 91.00 (90.70 to 91.70): VN059095.D (-3378) (-)

Ion 125.90 (125.60 to 126.60): VN059095.D (-3378) (-)

250000

200000

150000

100000

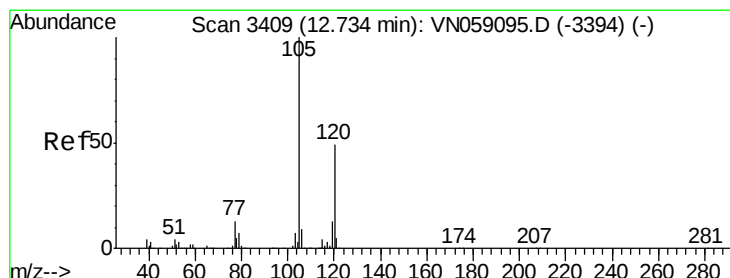
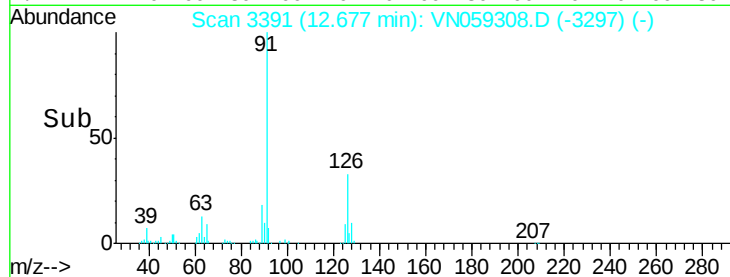
50000

0

12.60 12.65 12.70

12.68

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 19.003 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. -0.00 min

Lab File: VN059308.D

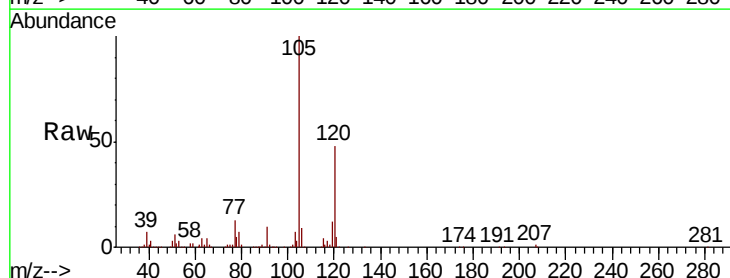
Acq: 19 Nov 2019 15:54

Tgt Ion: 105 Resp: 286308

Ion Ratio Lower Upper

105 100

120 48.5 24.0 72.0



Abundance Ion 105.00 (104.70 to 105.70): VN059095.D (-3394) (-)

Ion 120.00 (119.70 to 120.70): VN059095.D (-3394) (-)

200000

150000

100000

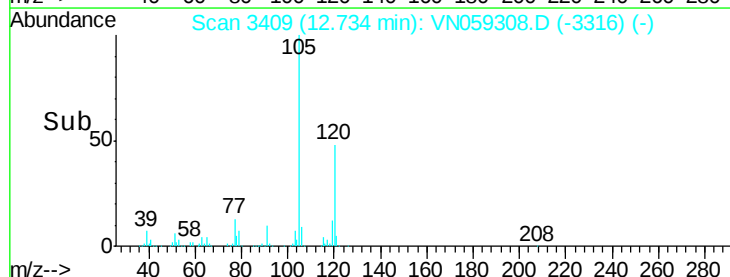
50000

0

12.70 12.80

12.73

Time-->





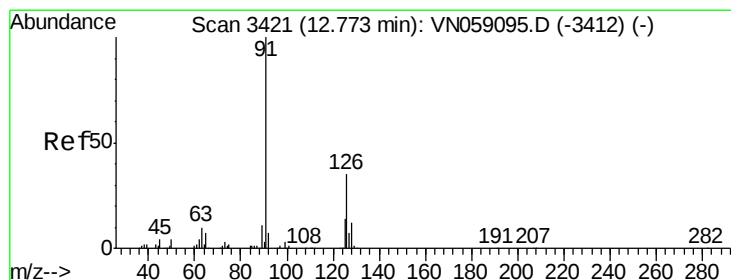
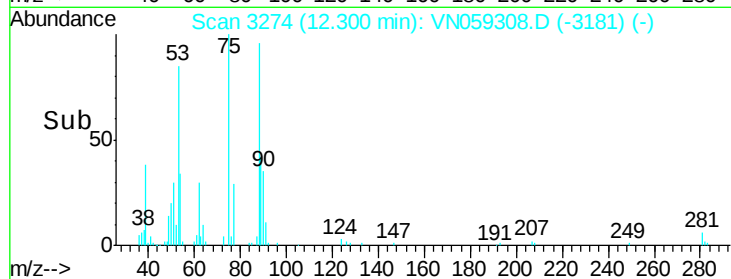
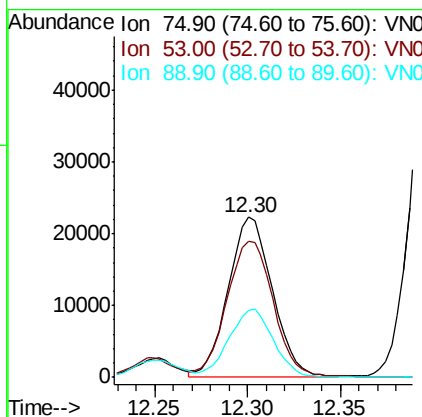
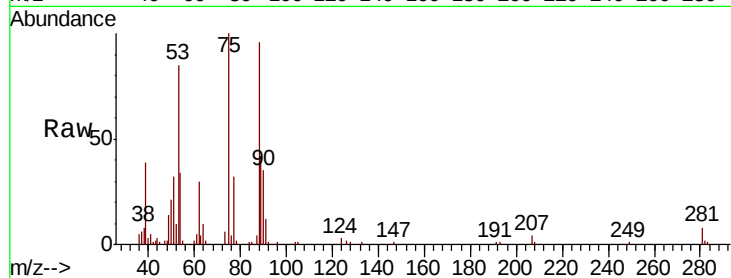
#81
trans-1,4-Dichloro-2-butene
Concen: 17.439 ug/l
RT: 12.30 min Scan# 3274
Delta R.T. -0.00 min
Lab File: VN059308.D
Acq: 19 Nov 2019 15:54

Instrument :
MSVOA_N
ClientSampleId :
VN1119WBS04

Tot Ion	Ratio	Lower	Upper
75	100		
53	90.5	72.2	108.2
89	43.1	35.8	53.8

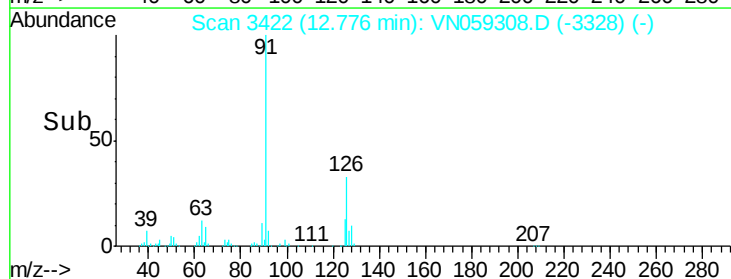
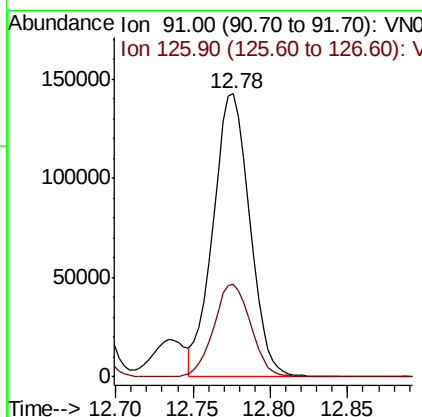
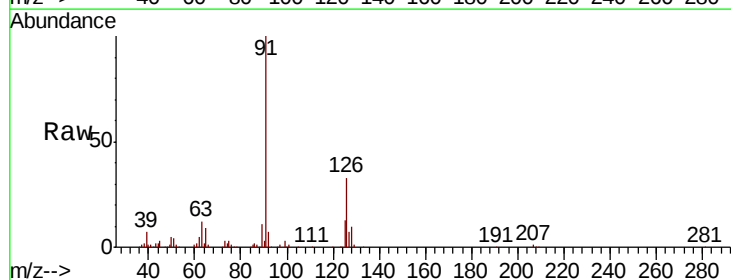
Manual Integrations
APPROVED

MMDadoda
11/20/2019 1:37:09 PM



#82
4-Chlorotoluene
Concen: 18.510 ug/l
RT: 12.78 min Scan# 3422
Delta R.T. 0.00 min
Lab File: VN059308.D
Acq: 19 Nov 2019 15:54

Tgt Ion	Ratio	Lower	Upper
91	100		
126	33.2	16.1	48.2





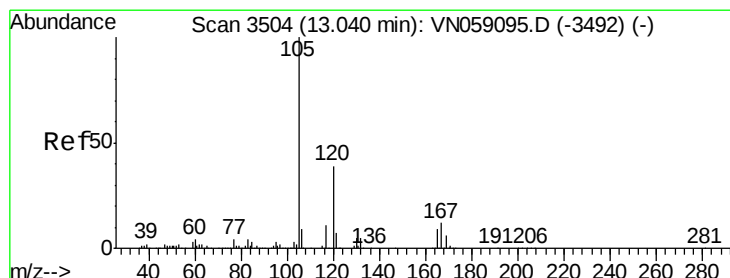
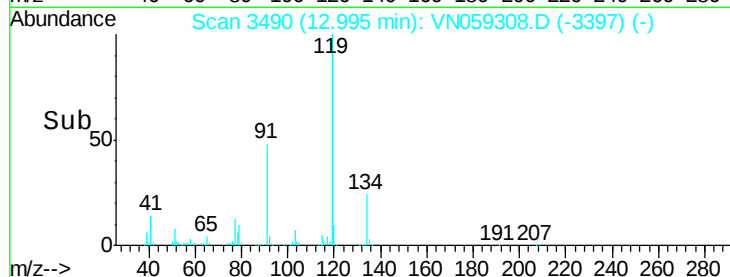
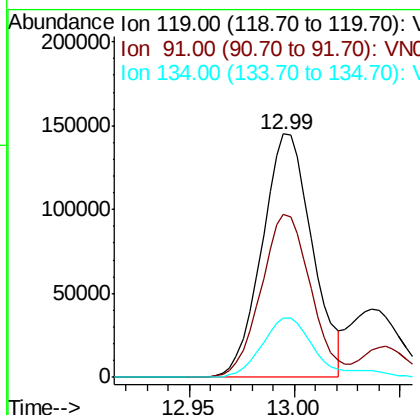
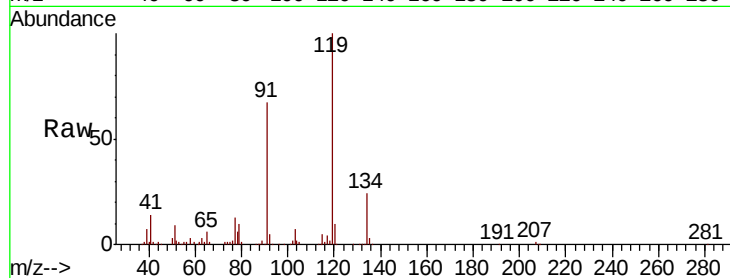
#83
tert-Butylbenzene
Concen: 18.488 ug/l
RT: 12.99 min Scan# 3490
Delta R.T. -0.00 min
Lab File: VN059308.D
Acq: 19 Nov 2019 15:54

Instrument :
MSVOA_N
ClientSampleId :
VN1119WBS04

Tot Ion	Ratio	Lower	Upper
119	100		
91	66.1	33.2	99.6
134	26.4	12.7	38.1

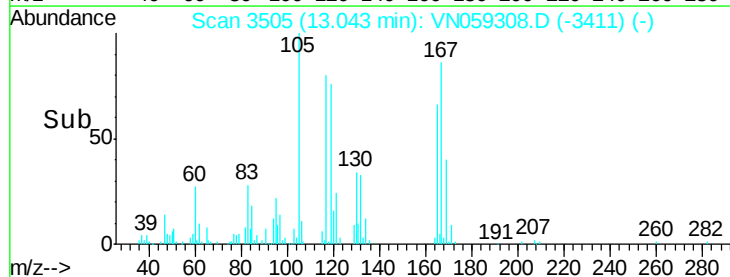
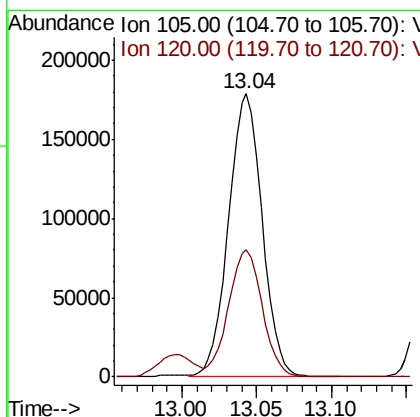
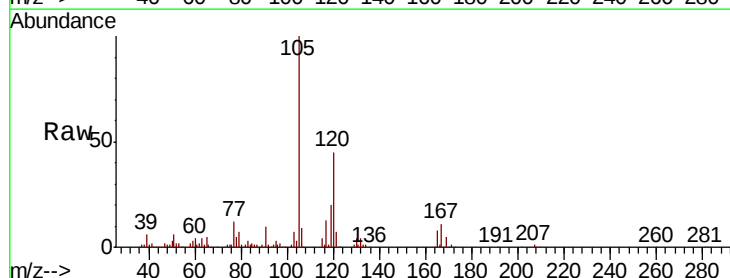
Manual Integrations
APPROVED

MMDadoda
11/20/2019 1:37:09 PM



#84
1,2,4-Trimethylbenzene
Concen: 19.174 ug/l
RT: 13.04 min Scan# 3505
Delta R.T. 0.00 min
Lab File: VN059308.D
Acq: 19 Nov 2019 15:54

Tgt Ion	Ratio	Lower	Upper
105	100		
120	44.9	22.8	68.4





#85

sec-Butylbenzene

Concen: 19.218 ug/l

RT: 13.17 min Scan# 3546

Delta R.T. 0.00 min

Lab File: VN059308.D

Acq: 19 Nov 2019 15:54

Instrument :

MSVOA_N

ClientSampleId :

VN1119WBS04

Tot Ion:105 Resp: 325199

Ion Ratio Lower Upper

105 100

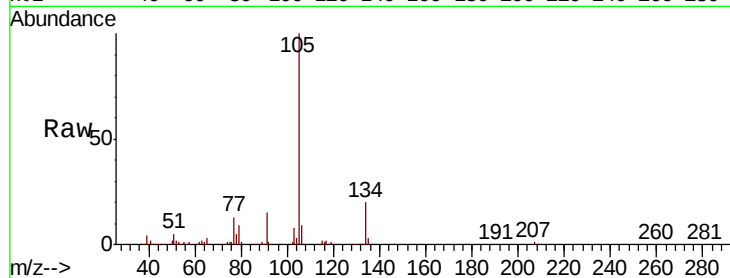
134 19.6 9.7 29.1

Manual Integrations

APPROVED

MMDadoda

11/20/2019 1:37:09 PM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

200000

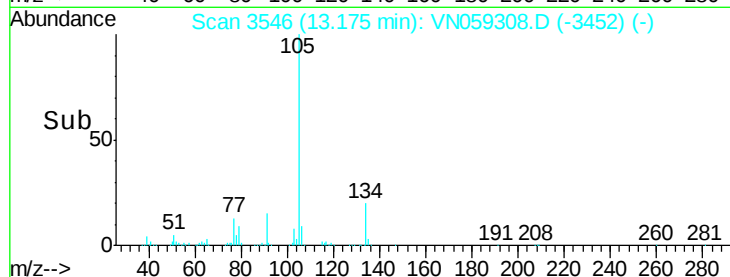
150000

100000

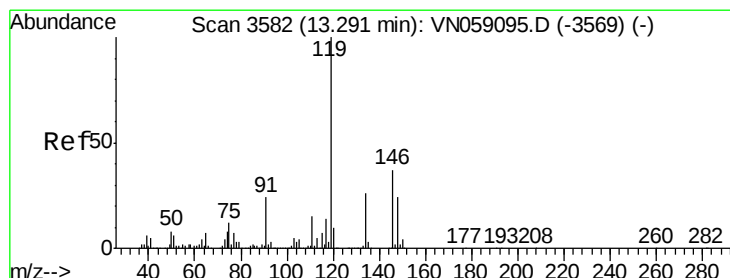
50000

0

Time-->



Time-->



#86

p-Isopropyltoluene

Concen: 19.364 ug/l

RT: 13.29 min Scan# 3582

Delta R.T. -0.00 min

Lab File: VN059308.D

Acq: 19 Nov 2019 15:54

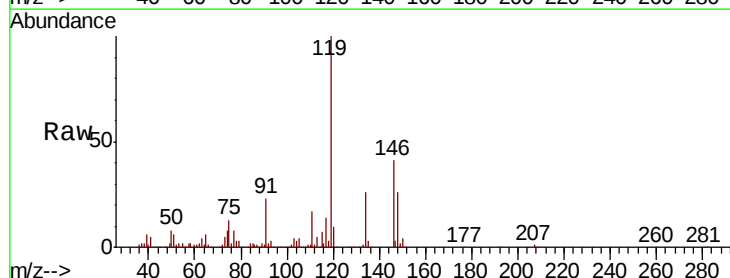
Tgt Ion:119 Resp: 289324

Ion Ratio Lower Upper

119 100

134 25.5 13.0 38.9

91 22.9 11.7 35.1



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V

250000

200000

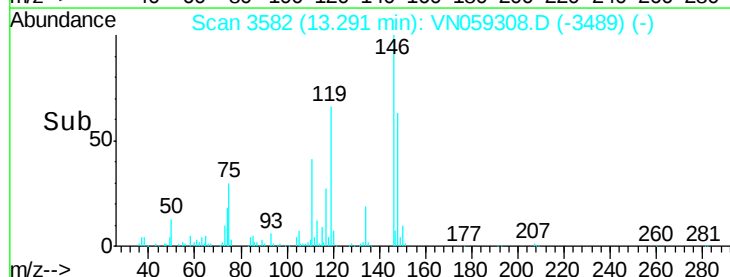
150000

100000

50000

0

Time-->



Time-->



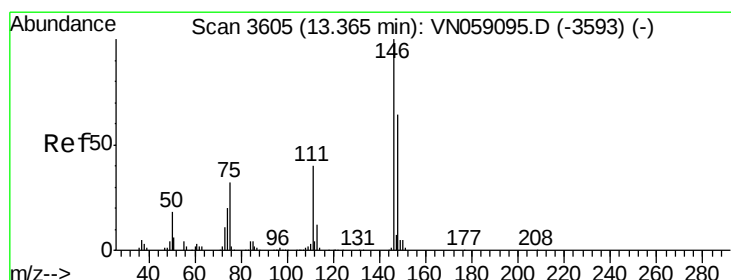
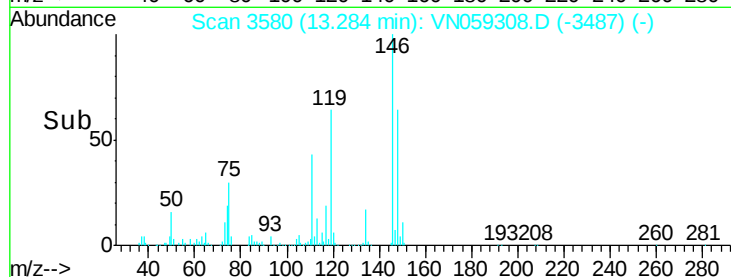
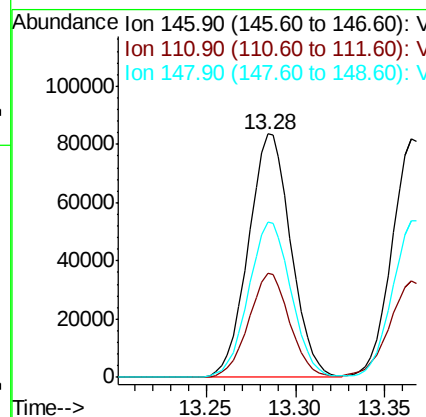
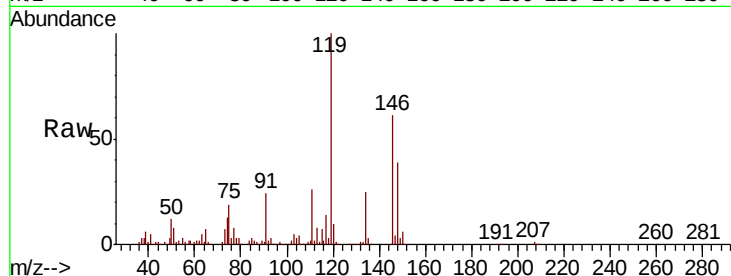
#87
 1,3-Dichlorobenzene
 Concen: 18.217 ug/l
 RT: 13.28 min Scan# 3580
 Delta R.T. -0.00 min
 Lab File: VN059308.D
 Acq: 19 Nov 2019 15:54

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1119WBS04

Tot Ion	Ratio	Lower	Upper
146	100		
111	41.2	20.4	61.3
148	64.0	32.2	96.6

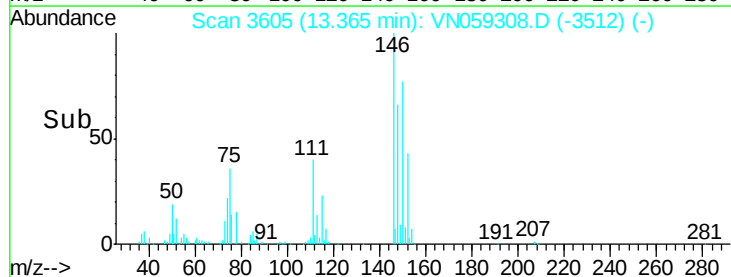
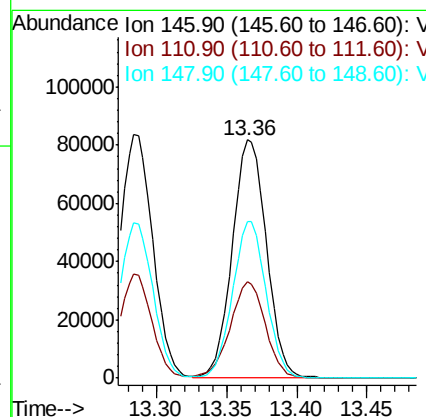
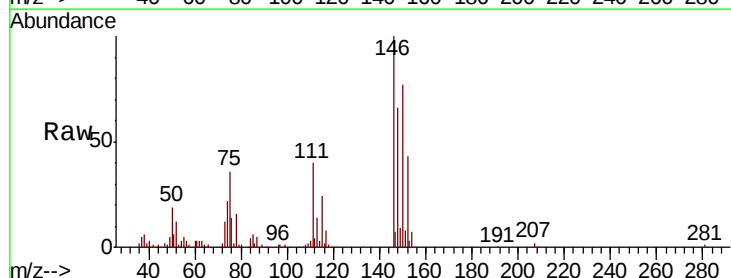
Manual Integrations
 APPROVED

MMDadoda
 11/20/2019 1:37:09 PM



#88
 1,4-Dichlorobenzene
 Concen: 18.176 ug/l
 RT: 13.36 min Scan# 3605
 Delta R.T. -0.00 min
 Lab File: VN059308.D
 Acq: 19 Nov 2019 15:54

Tgt Ion	Ratio	Lower	Upper
146	100		
111	41.5	20.3	60.9
148	64.6	31.9	95.7





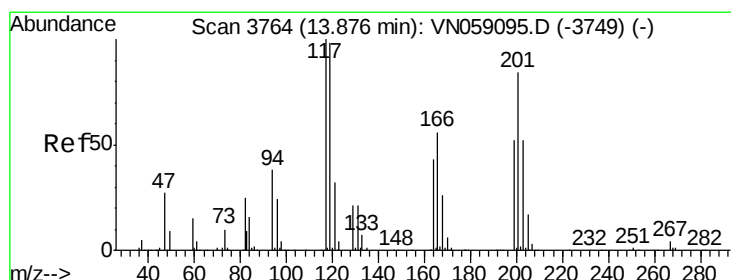
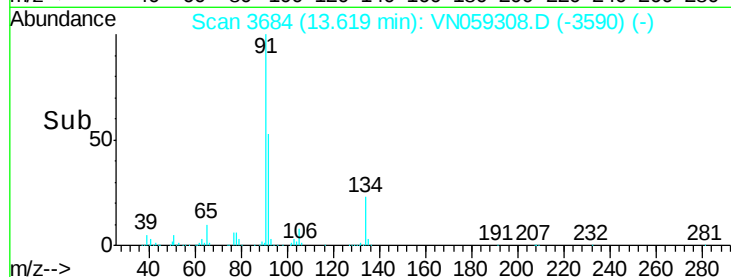
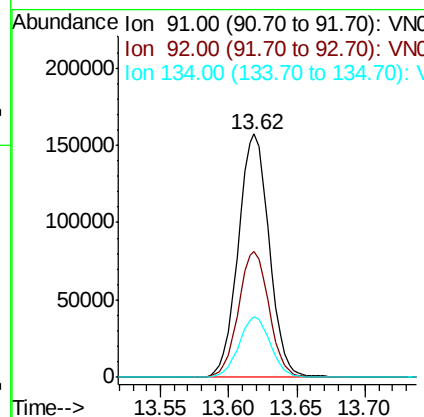
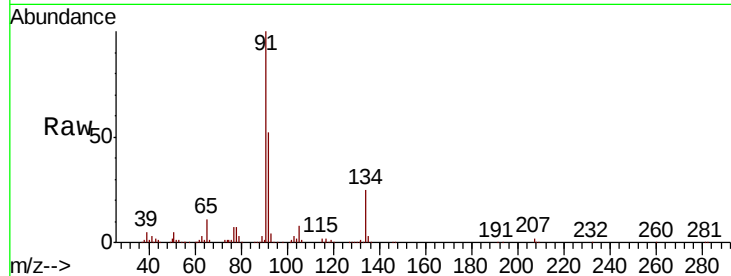
#89
n-Butylbenzene
Concen: 18.956 ug/l
RT: 13.62 min Scan# 3684
Delta R.T. 0.00 min
Lab File: VN059308.D
Acq: 19 Nov 2019 15:54

Instrument :
MSVOA_N
ClientSampleId :
VN1119WBS04

Tot Ion	Ratio	Lower	Upper
91	100		
92	51.3	26.1	78.3
134	25.2	12.6	37.8

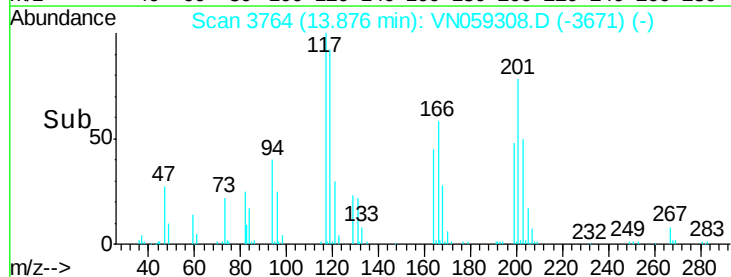
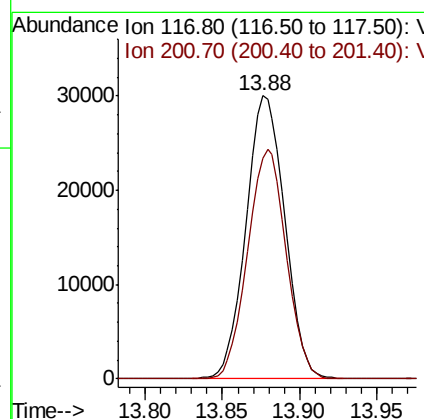
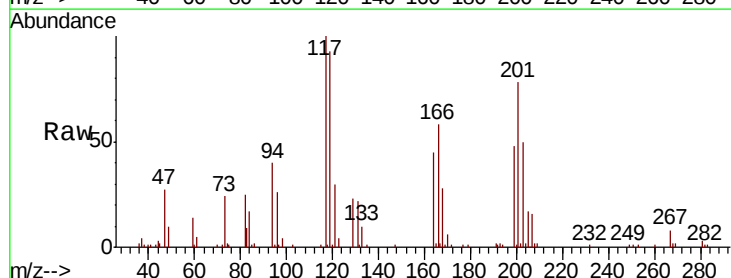
Manual Integrations
APPROVED

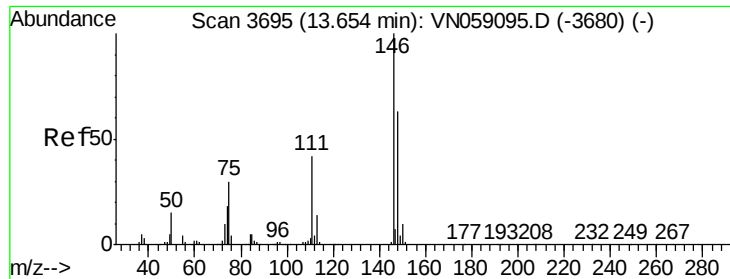
MMDadoda
11/20/2019 1:37:09 PM



#90
Hexachloroethane
Concen: 17.524 ug/l
RT: 13.88 min Scan# 3764
Delta R.T. -0.00 min
Lab File: VN059308.D
Acq: 19 Nov 2019 15:54

Tgt Ion	Ratio	Lower	Upper
117	100		
201	80.3	41.8	125.3





#91

1,2-Dichlorobenzene

Concen: 18.355 ug/l

RT: 13.66 min Scan# 3696

Delta R.T. 0.00 min

Lab File: VN059308.D

Acq: 19 Nov 2019 15:54

Instrument :

MSVOA_N

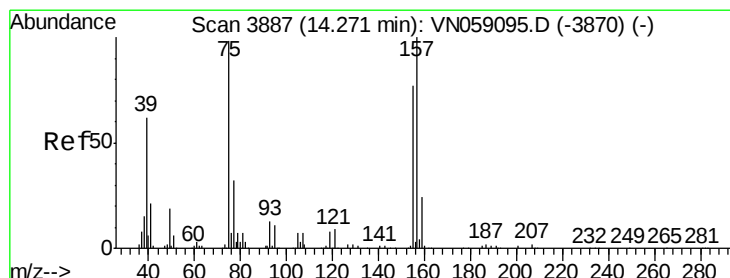
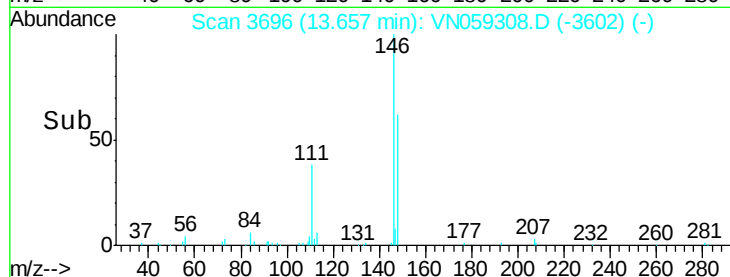
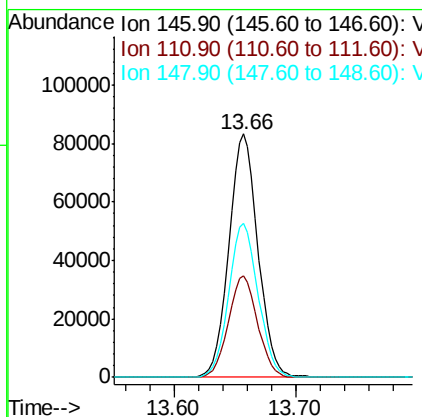
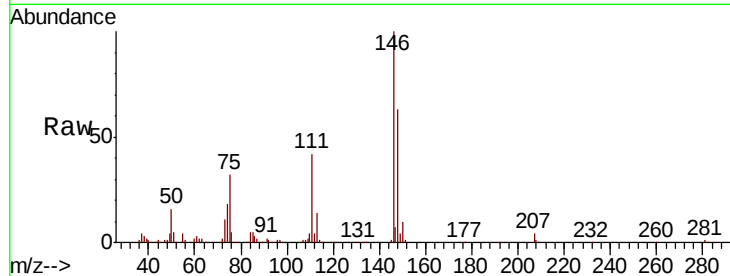
ClientSampleId :

VN1119WBS04

Tot Ion:	146	Resp:	138127
Ion Ratio		Lower	Upper
146	100		
111	41.8	21.2	63.6
148	64.0	31.6	94.7

Manual Integrations
APPROVED

MMDadoda
11/20/2019 1:37:09 PM



#92

1,2-Dibromo-3-Chloropropane

Concen: 17.298 ug/l

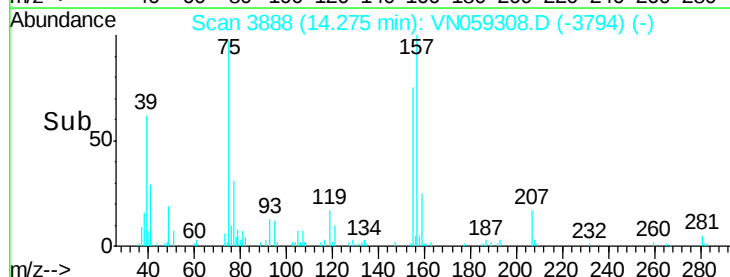
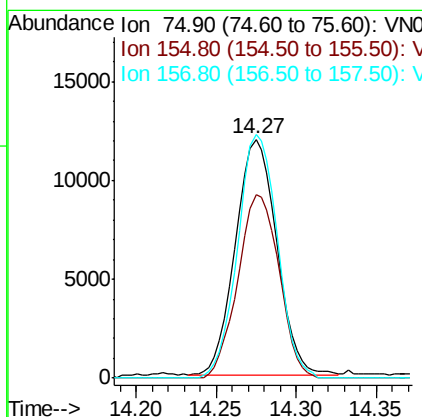
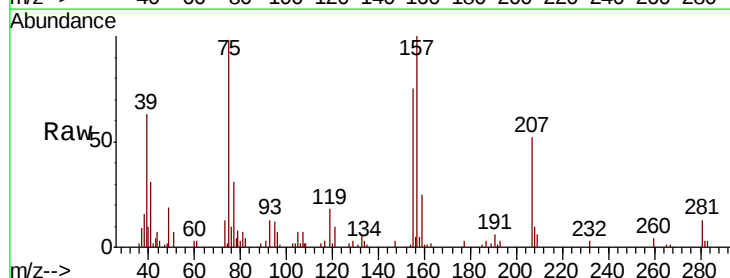
RT: 14.27 min Scan# 3888

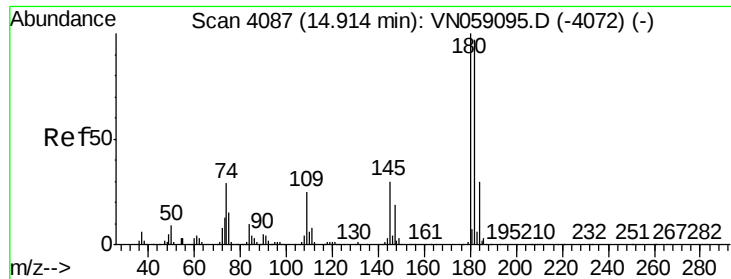
Delta R.T. 0.00 min

Lab File: VN059308.D

Acq: 19 Nov 2019 15:54

Tgt Ion:	75	Resp:	20876
Ion Ratio		Lower	Upper
75	100		
155	77.7	40.2	120.6
157	99.9	51.8	155.5





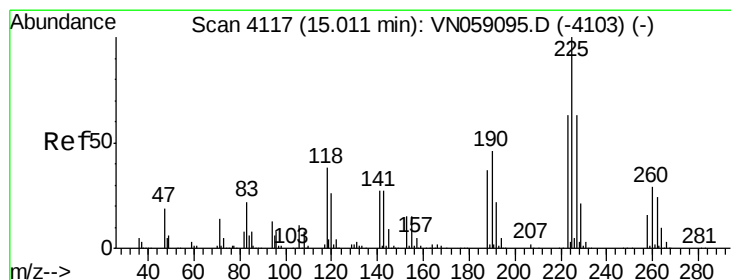
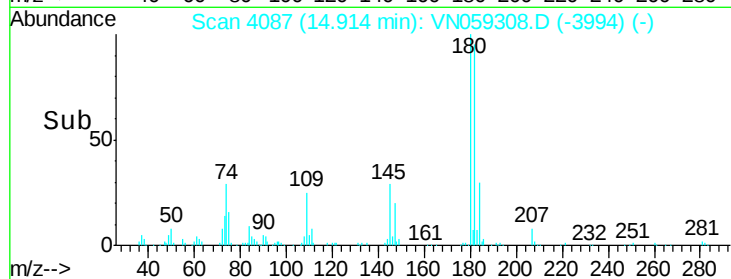
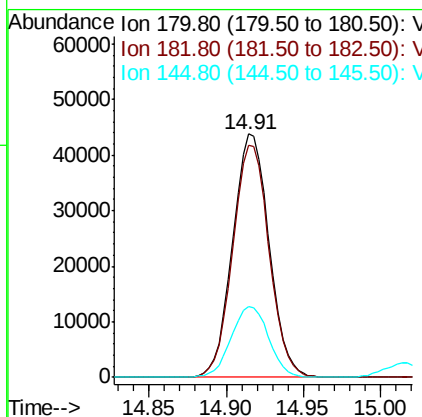
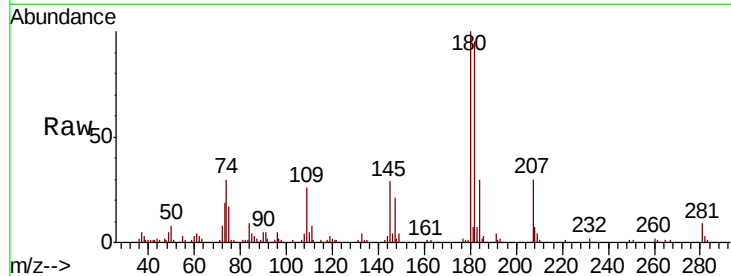
#93
 1,2,4-Trichlorobenzene
 Concen: 17.766 ug/l
 RT: 14.91 min Scan# 4087
 Delta R.T. 0.00 min
 Lab File: VN059308.D
 Acq: 19 Nov 2019 15:54

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1119WBS04

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.3	48.1	144.3
145	30.0	15.1	45.3

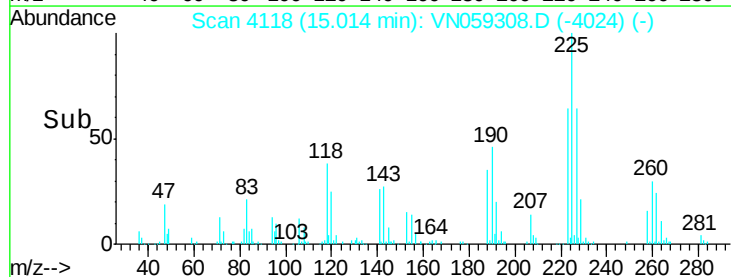
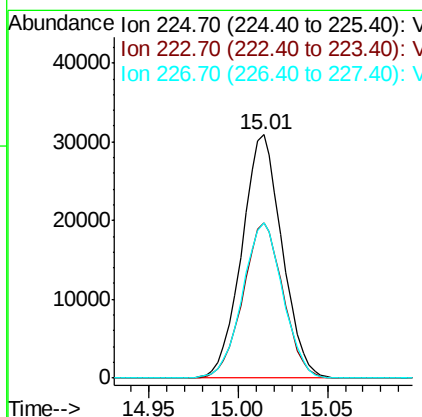
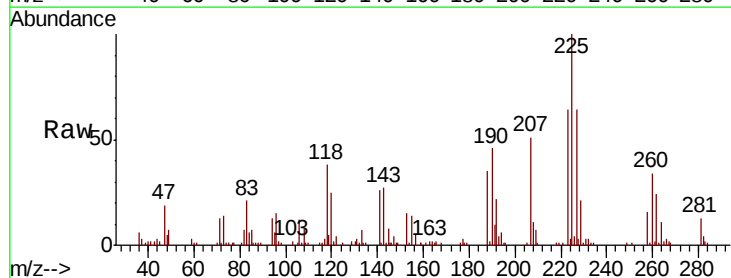
Manual Integrations
 APPROVED

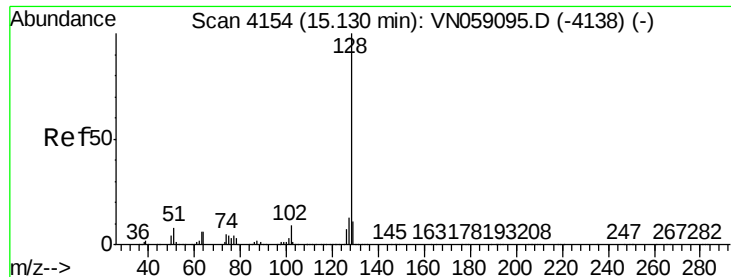
MMDadoda
 11/20/2019 1:37:09 PM



#94
 Hexachlorobutadiene
 Concen: 18.822 ug/l
 RT: 15.01 min Scan# 4118
 Delta R.T. 0.00 min
 Lab File: VN059308.D
 Acq: 19 Nov 2019 15:54

Tgt Ion	Ratio	Lower	Upper
225	100		
223	63.5	31.3	93.9
227	64.0	31.5	94.5





#95

Naphthalene

Concen: 16.795 ug/l

RT: 15.13 min Scan# 4154

Delta R.T. 0.00 min

Lab File: VN059308.D

Acq: 19 Nov 2019 15:54

Instrument :

MSVOA_N

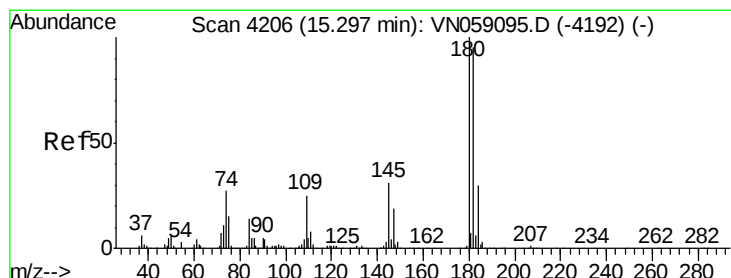
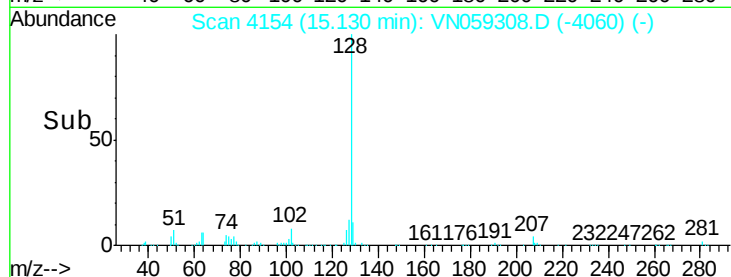
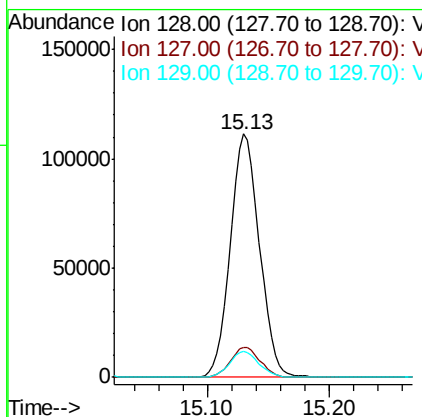
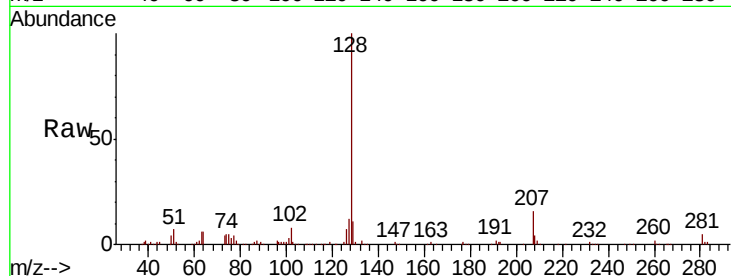
ClientSampleId :

VN1119WBS04

Tot Ion	Ion	Ratio	Resp	Lower	Upper
128	100		185465		
127	12.5		10.2	15.2	
129	10.8		8.6	12.8	

Manual Integrations
APPROVED

MMDadoda
11/20/2019 1:37:09 PM



#96

1,2,3-Trichlorobenzene

Concen: 16.982 ug/l

RT: 15.30 min Scan# 4207

Delta R.T. 0.00 min

Lab File: VN059308.D

Acq: 19 Nov 2019 15:54

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
180	100		71619		
182	94.3		47.3	141.8	
145	33.0		15.8	47.3	

