

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN112119\
 Data File : VN059331.D
 Acq On : 21 Nov 2019 13:39
 Operator : JC/SP
 Sample : VN1121WBS01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1121WBS01

Manual Integrations
 APPROVED

MMDadoda
 11/22/2019 3:11:58 PM

Quant Time: Nov 22 06:20:51 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N112019W.M
 Quant Title : SW846 8260
 QLast Update : Thu Nov 21 08:44:45 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	481973	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	762163	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	670993	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	298891	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.01	65	267953	46.34	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.68%	
35) Dibromofluoromethane	7.57	113	214022	46.81	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.62%	
50) Toluene-d8	10.08	98	841650	46.30	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.60%	
62) 4-Bromofluorobenzene	12.40	95	286623	45.09	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.18%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.83	85	104669	16.963	ug/l	100
3) Chloromethane	2.04	50	124624	16.487	ug/l	100
4) Vinyl Chloride	2.17	62	132829	17.067	ug/l	99
5) Bromomethane	2.55	94	72472	16.773	ug/l	99
6) Chloroethane	2.69	64	68666	16.166	ug/l	100
7) Trichlorofluoromethane	3.00	101	136692	16.310	ug/l	99
8) Diethyl Ether	3.39	74	59163	17.268	ug/l	96
9) 1,1,2-Trichlorotrifluoroet	3.74	101	86966	16.970	ug/l	99
10) Methyl Iodide	3.93	142	105524	16.568	ug/l	98
11) Tert butyl alcohol	4.76	59	89252	77.087	ug/l	99
12) 1,1-Dichloroethene	3.71	96	85706	16.476	ug/l	97
13) Acrolein	3.58	56	72542	68.636	ug/l	99
14) Allyl chloride	4.29	41	160513	16.518	ug/l	100
15) Acrylonitrile	4.96	53	242544	79.230	ug/l	100
16) Acetone	3.79	43	201481	77.704	ug/l	100
17) Carbon Disulfide	4.03	76	271960	16.775	ug/l	100
18) Methyl Acetate	4.30	43	136271	15.836	ug/l	98
19) Methyl tert-butyl Ether	5.01	73	285750	17.008	ug/l	100
20) Methylene Chloride	4.53	84	95370	16.308	ug/l	98
21) trans-1,2-Dichloroethene	5.01	96	90644	16.442	ug/l	98
22) Diisopropyl ether	5.92	45	308226	16.846	ug/l	97
23) Vinyl Acetate	5.87	43	1215115	84.454	ug/l	99
24) 1,1-Dichloroethane	5.82	63	177995	17.283	ug/l	99
25) 2-Butanone	6.81	43	317606	78.771	ug/l	98
26) 2,2-Dichloropropane	6.79	77	150242	16.848	ug/l	99
27) cis-1,2-Dichloroethene	6.80	96	104403	16.785	ug/l	99
28) Bromochloromethane	7.17	49	80467	20.631	ug/l	97
29) Tetrahydrofuran	7.19	42	217791	78.118	ug/l	100
30) Chloroform	7.35	83	170064	16.926	ug/l	98
31) Cyclohexane	7.63	56	168854	16.583	ug/l	97
32) 1,1,1-Trichloroethane	7.55	97	141813	16.515	ug/l	100
36) 1,1-Dichloropropene	7.77	75	129685	16.482	ug/l	99
37) Ethyl Acetate	6.90	43	133845	15.828	ug/l	98
38) Carbon Tetrachloride	7.75	117	125571	16.671	ug/l	98

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN112119\
 Data File : VN059331.D
 Acq On : 21 Nov 2019 13:39
 Operator : JC/SP
 Sample : VN1121WBS01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1121WBS01

Manual Integrations
 APPROVED

MMDadoda
 11/22/2019 3:11:58 PM

Quant Time: Nov 22 06:20:51 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N112019W.M
 Quant Title : SW846 8260
 QLast Update : Thu Nov 21 08:44:45 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.07	83	157767	16.628	ug/l	99
40) Benzene	8.02	78	389204	16.854	ug/l	99
41) Methacrylonitrile	7.14	41	55387	14.755	ug/l #	100
42) 1,2-Dichloroethane	8.10	62	128054	16.766	ug/l	99
43) Isopropyl Acetate	8.15	43	210033	16.252	ug/l	99
44) Trichloroethene	8.82	130	98570	16.842	ug/l	99
45) 1,2-Dichloropropane	9.10	63	104831	17.024	ug/l	98
46) Dibromomethane	9.19	93	64014	16.948	ug/l	97
47) Bromodichloromethane	9.39	83	128235	16.952	ug/l	98
48) Methyl methacrylate	9.19	41	91542	15.577	ug/l	99
49) 1,4-Dioxane	9.19	88	29958	339.181	ug/l	97
51) 4-Methyl-2-Pentanone	9.97	43	635979	84.076	ug/l	100
52) Toluene	10.15	92	233452	16.812	ug/l	99
53) t-1,3-Dichloropropene	10.37	75	146556	16.666	ug/l	99
54) cis-1,3-Dichloropropene	9.83	75	162442	17.024	ug/l	99
55) 1,1,2-Trichloroethane	10.55	97	92419	17.118	ug/l	98
56) Ethyl methacrylate	10.42	69	133067	16.146	ug/l	100
57) 1,3-Dichloropropane	10.70	76	157291	16.716	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.68	63	228733	84.899	ug/l	99
59) 2-Hexanone	10.75	43	442613	79.909	ug/l	99
60) Dibromochloromethane	10.90	129	94662	16.639	ug/l	100
61) 1,2-Dibromoethane	11.00	107	92301	16.431	ug/l	98
64) Tetrachloroethene	10.63	164	86947	16.754	ug/l	98
65) Chlorobenzene	11.43	112	243589	16.883	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.51	131	89243	17.027	ug/l	99
67) Ethyl Benzene	11.51	91	439785	17.072	ug/l	99
68) m/p-Xylenes	11.62	106	324798	33.931	ug/l	99
69) o-Xylene	11.95	106	154361	16.844	ug/l	100
70) Styrene	11.96	104	245201	16.957	ug/l	100
71) Bromoform	12.13	173	65710	16.554	ug/l #	100
73) Isopropylbenzene	12.25	105	413559	16.890	ug/l	99
74) N-amyl acetate	12.07	43	150298	15.274	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.51	83	132299	16.334	ug/l	100
76) 1,2,3-Trichloropropane	12.55	75	118315m	17.134	ug/l	
77) Bromobenzene	12.53	156	99134	16.693	ug/l	98
78) n-propylbenzene	12.59	91	474533	17.110	ug/l	100
79) 2-Chlorotoluene	12.68	91	284543	16.715	ug/l	100
80) 1,3,5-Trimethylbenzene	12.73	105	348410	16.927	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.30	75	43726	15.838	ug/l	98
82) 4-Chlorotoluene	12.77	91	289634	16.441	ug/l	99
83) tert-Butylbenzene	12.99	119	297303	17.103	ug/l	99
84) 1,2,4-Trimethylbenzene	13.04	105	343228	17.023	ug/l	100
85) sec-Butylbenzene	13.17	105	394347	16.878	ug/l	99
86) p-Isopropyltoluene	13.29	119	350691	16.868	ug/l	100
87) 1,3-Dichlorobenzene	13.28	146	170885	16.158	ug/l	99
88) 1,4-Dichlorobenzene	13.36	146	171307	16.371	ug/l	100
89) n-Butylbenzene	13.62	91	299636	16.429	ug/l	100
90) Hexachloroethane	13.88	117	64570	16.399	ug/l	99
91) 1,2-Dichlorobenzene	13.66	146	164645	16.091	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.27	75	25333	14.711	ug/l	95

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN112119\
Data File : VN059331.D
Acq On : 21 Nov 2019 13:39
Operator : JC/SP
Sample : VN1121WBS01
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN1121WBS01

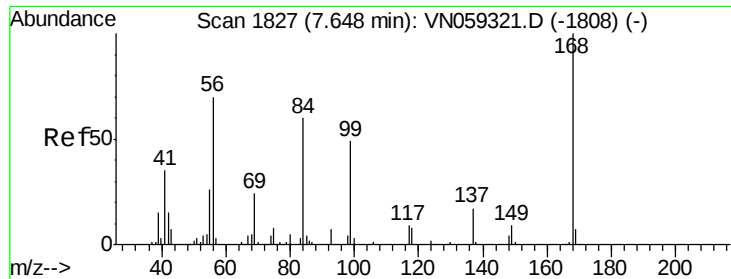
Manual Integrations
APPROVED

MMDadoda
11/22/2019 3:11:58 PM

Quant Time: Nov 22 06:20:51 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N112019W.M
Quant Title : SW846 8260
QLast Update : Thu Nov 21 08:44:45 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	88497	16.027	ug/l	97
94) Hexachlorobutadiene	15.01	225	59408	16.115	ug/l	99
95) Naphthalene	15.13	128	230052	15.396	ug/l	100
96) 1,2,3-Trichlorobenzene	15.30	180	90720	15.872	ug/l	97

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. -0.00 min

Lab File: VN059331.D

Acq: 21 Nov 2019 13:39

Instrument :

MSVOA_N

ClientSampleId :

VN1121WBS01

Tot Ion:168 Resp: 481973

Ion Ratio Lower Upper

168 100

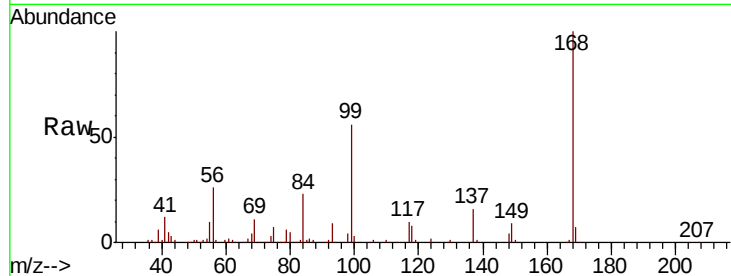
99 55.4 44.6 66.8

Manual Integrations

APPROVED

MMDadoda

11/22/2019 3:11:58 PM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.64

200000

150000

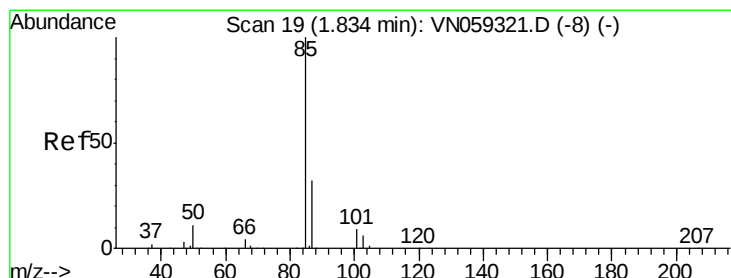
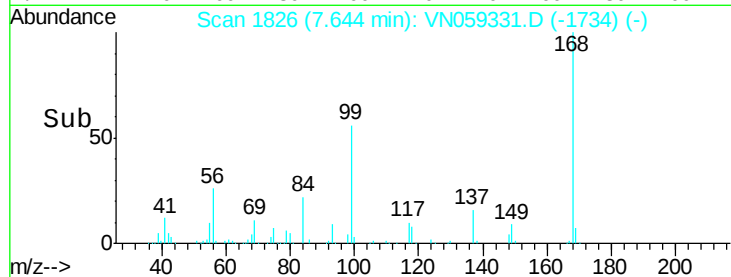
100000

50000

0

7.60 7.70

Time-->



#2

Dichlorodifluoromethane

Concen: 16.963 ug/l

RT: 1.83 min Scan# 19

Delta R.T. 0.00 min

Lab File: VN059331.D

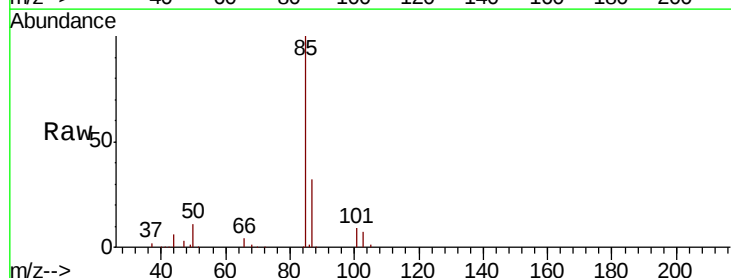
Acq: 21 Nov 2019 13:39

Tgt Ion: 85 Resp: 104669

Ion Ratio Lower Upper

85 100

87 32.0 16.0 48.0



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO

1.83

80000

60000

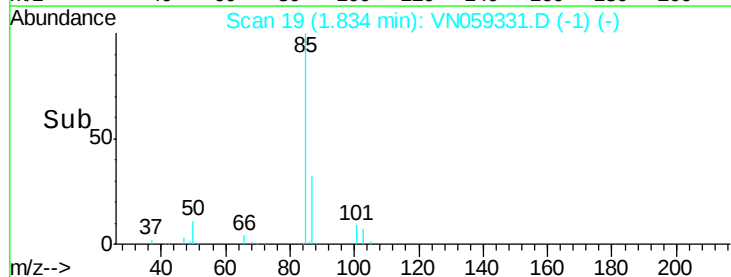
40000

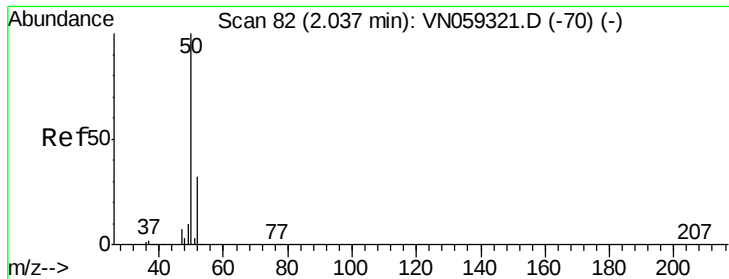
20000

0

1.75 1.80 1.85 1.90 1.95

Time-->





#3

Chloromethane

Concen: 16.487 ug/l

RT: 2.04 min Scan# 82

Delta R.T. 0.00 min

Lab File: VN059331.D

Acq: 21 Nov 2019 13:39

Instrument :

MSVOA_N

ClientSampleId :

VN1121WBS01

Tot Ion: 50 Resp: 124624

Ion Ratio Lower Upper

50 100

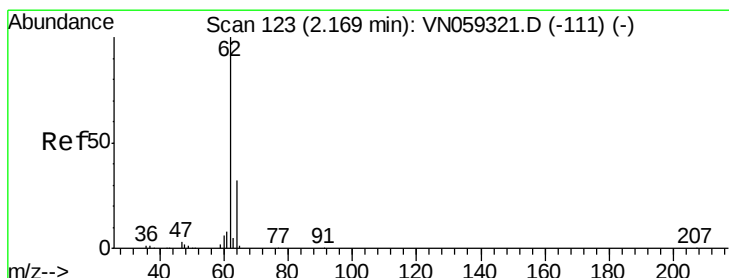
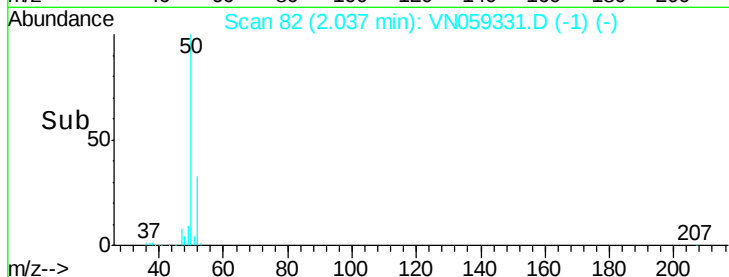
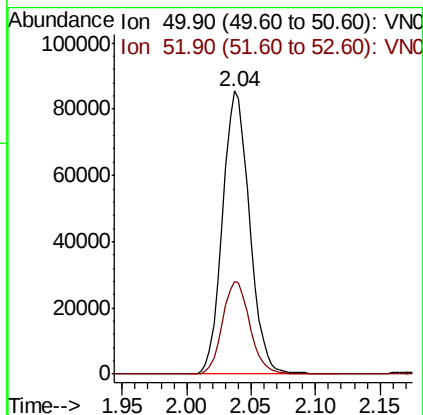
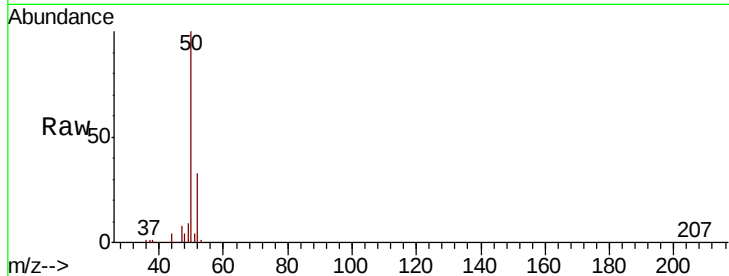
52 32.8 26.0 39.0

Manual Integrations

APPROVED

MMDadoda

11/22/2019 3:11:58 PM



#4

Vinyl Chloride

Concen: 17.067 ug/l

RT: 2.17 min Scan# 123

Delta R.T. 0.00 min

Lab File: VN059331.D

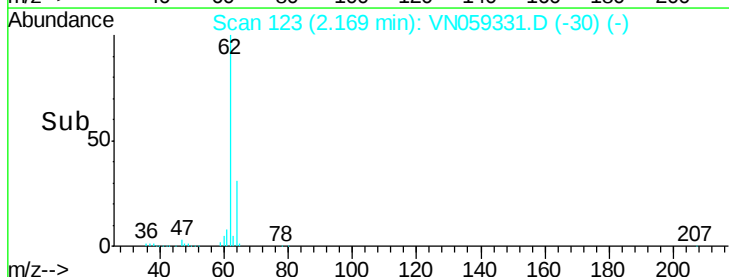
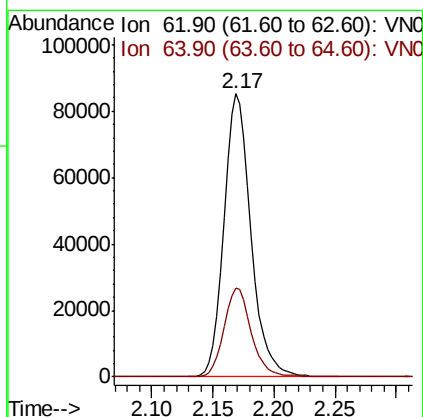
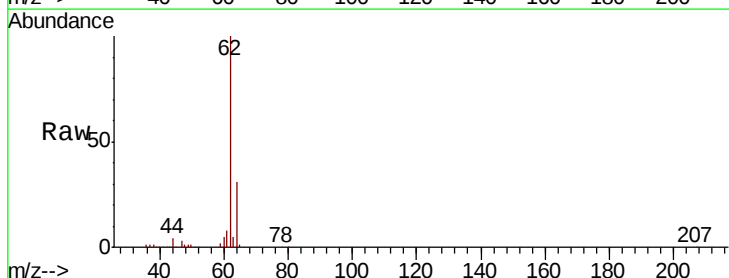
Acq: 21 Nov 2019 13:39

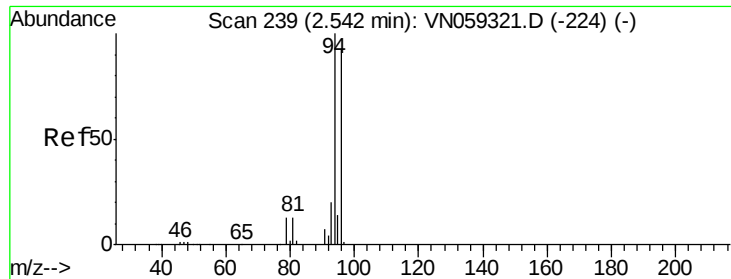
Tgt Ion: 62 Resp: 132829

Ion Ratio Lower Upper

62 100

64 31.2 25.4 38.0





#5

Bromomethane

Concen: 16.773 ug/l

RT: 2.55 min Scan# 242

Delta R.T. 0.01 min

Lab File: VN059331.D

Acq: 21 Nov 2019 13:39

Instrument :

MSVOA_N

ClientSampleId :

VN1121WBS01

Tot Ion: 94 Resp: 72472

Ion Ratio Lower Upper

94 100

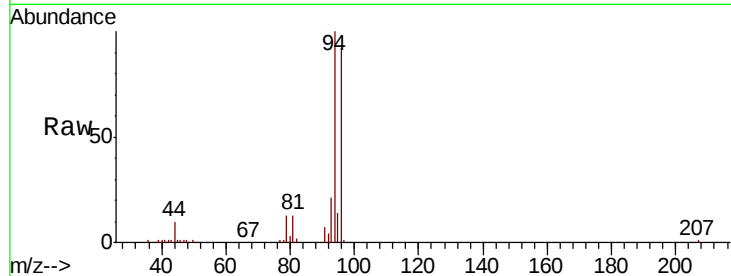
96 92.4 74.5 111.7

Manual Integrations

APPROVED

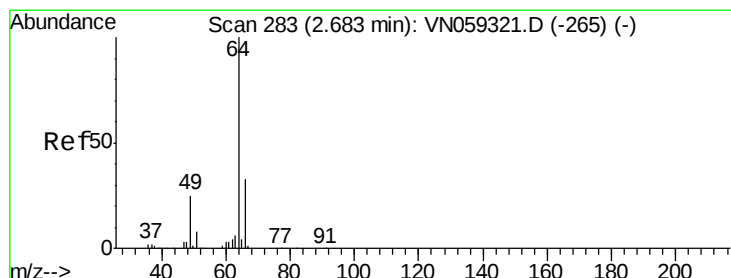
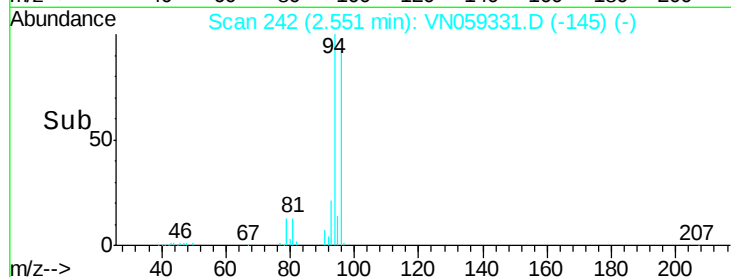
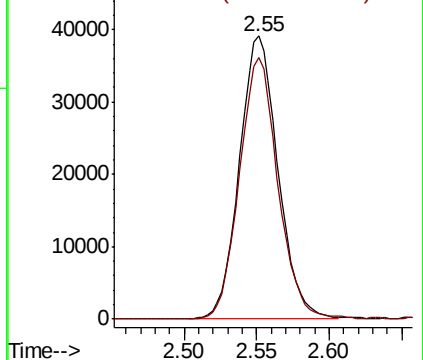
MMDadoda

11/22/2019 3:11:58 PM



Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO



#6

Chloroethane

Concen: 16.166 ug/l

RT: 2.69 min Scan# 284

Delta R.T. 0.00 min

Lab File: VN059331.D

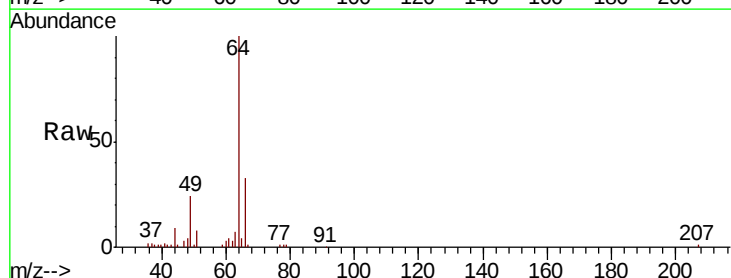
Acq: 21 Nov 2019 13:39

Tgt Ion: 64 Resp: 68666

Ion Ratio Lower Upper

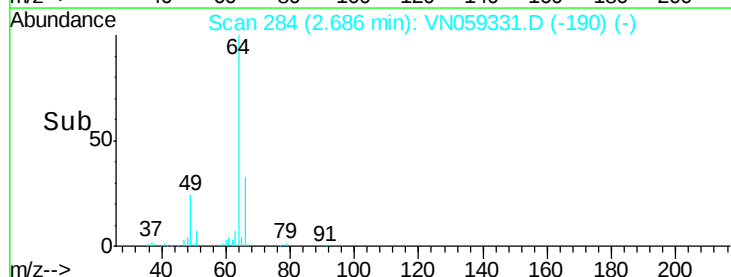
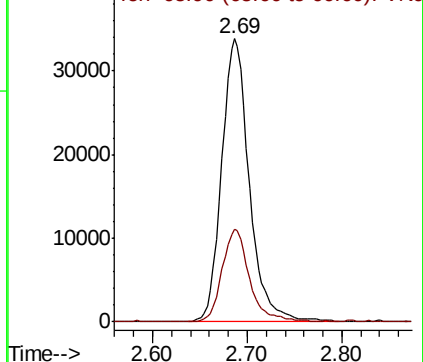
64 100

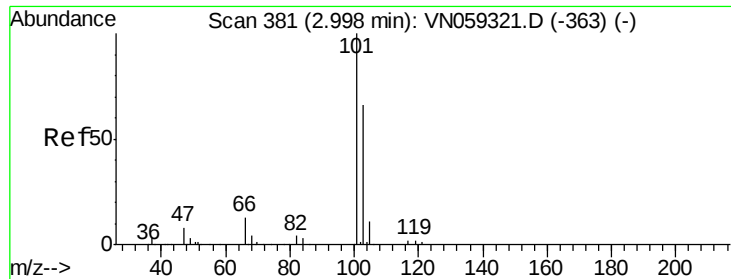
66 32.9 26.2 39.2



Abundance Ion 63.90 (63.60 to 64.60): VNO

Ion 65.90 (65.60 to 66.60): VNO





#7

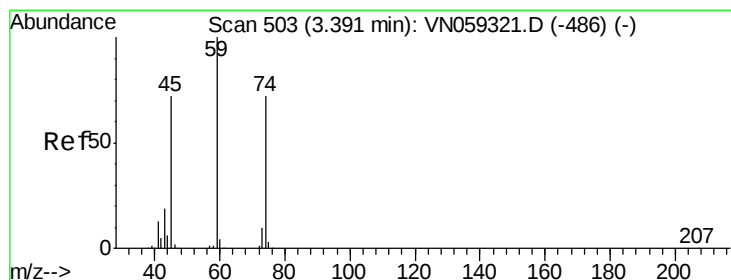
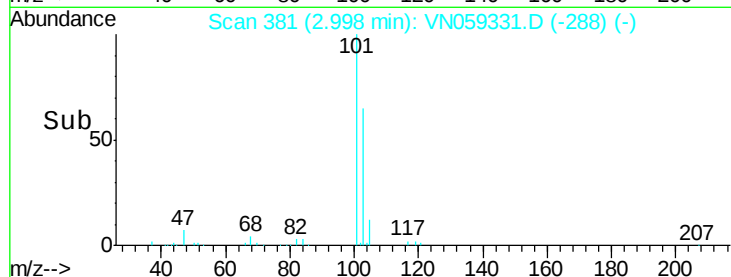
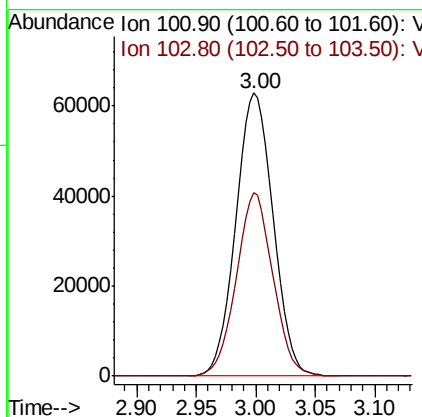
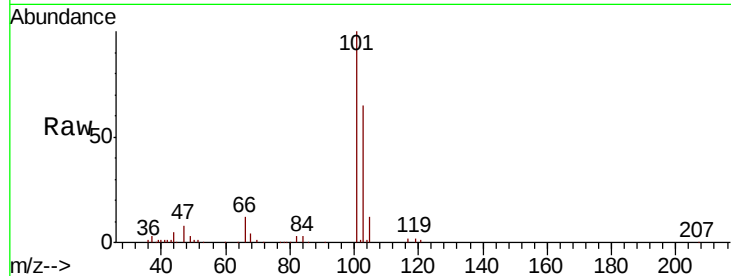
Trichlorofluoromethane
 Concen: 16.310 ug/l
 RT: 3.00 min Scan# 381
 Delta R.T. 0.00 min
 Lab File: VN059331.D
 Acq: 21 Nov 2019 13:39

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1121WBS01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
101	100		136692		
103	64.8	52.5	78.7		

Manual Integrations
 APPROVED

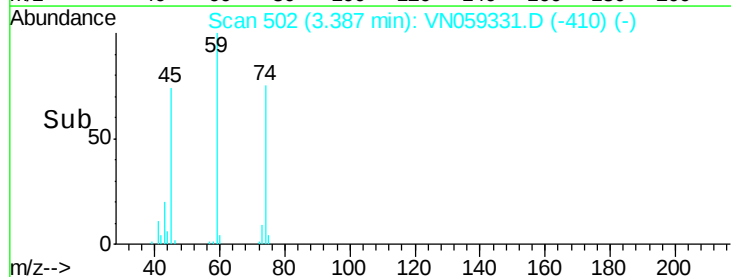
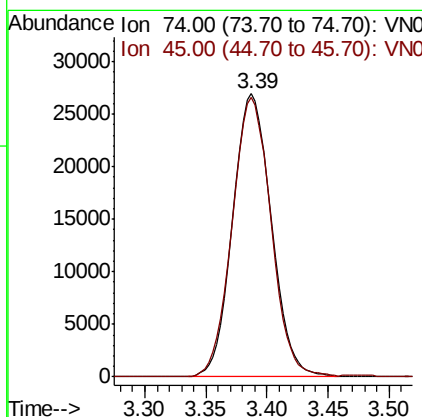
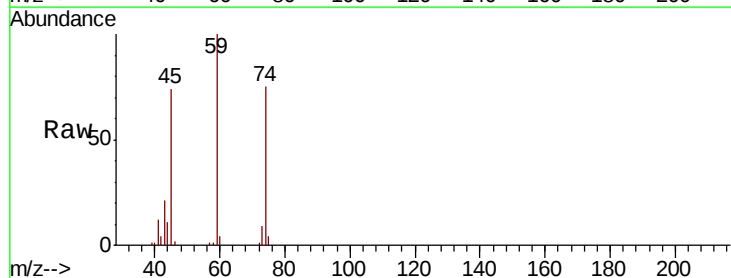
MMDadoda
 11/22/2019 3:11:58 PM

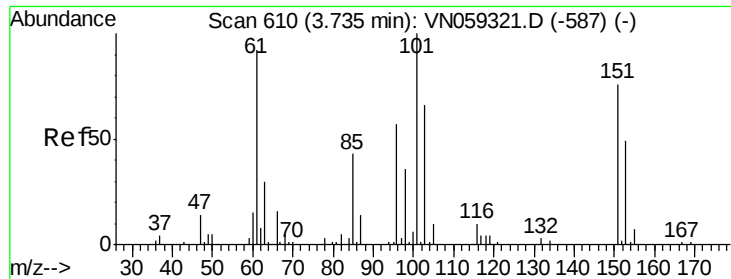


#8

Diethyl Ether
 Concen: 17.268 ug/l
 RT: 3.39 min Scan# 502
 Delta R.T. -0.00 min
 Lab File: VN059331.D
 Acq: 21 Nov 2019 13:39

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
74	100		59163		
45	99.2	51.7	155.2		





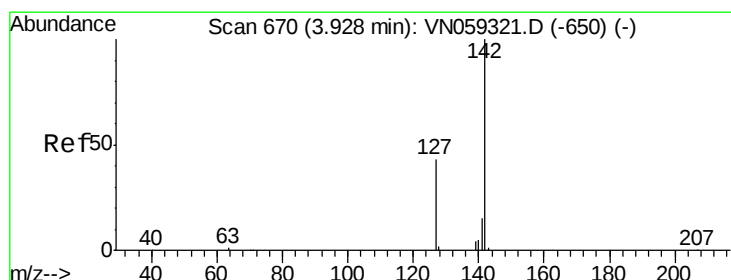
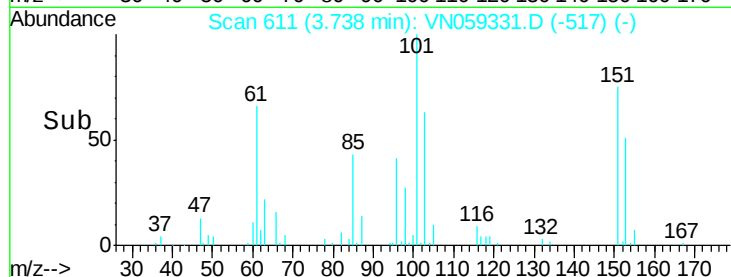
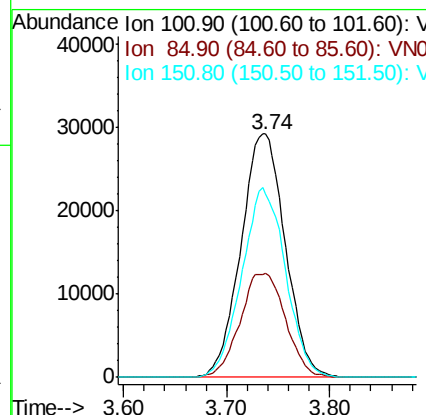
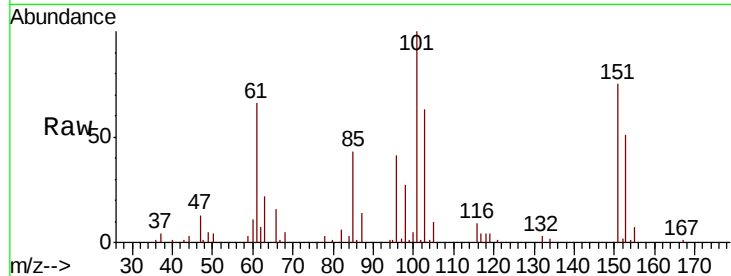
#9
1,1,2-Trichlorotrifluoroethane
Concen: 16.970 ug/l
RT: 3.74 min Scan# 611
Delta R.T. 0.00 min
Lab File: VN059331.D
Acq: 21 Nov 2019 13:39

Instrument :
MSVOA_N
ClientSampleId :
VN1121WBS01

Tot Ion	Ratio	Lower	Upper
101	100		
85	43.8	34.8	52.2
151	76.9	62.2	93.4

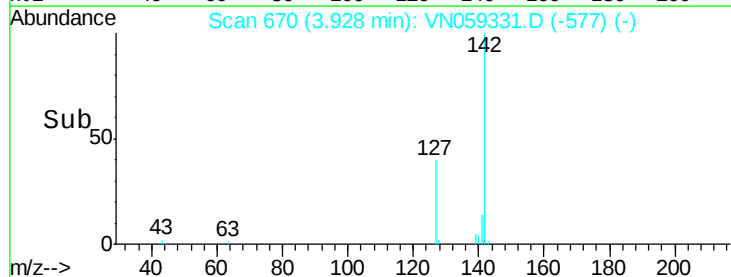
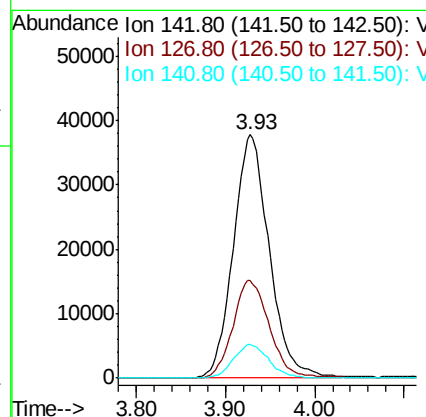
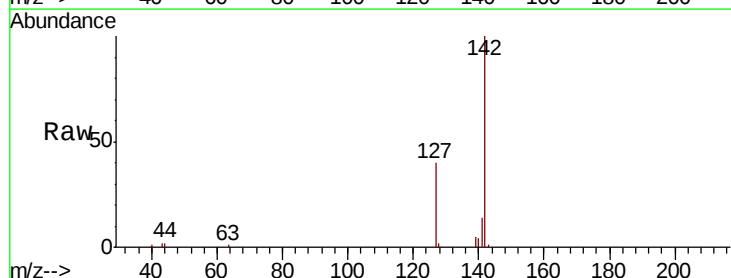
Manual Integrations
APPROVED

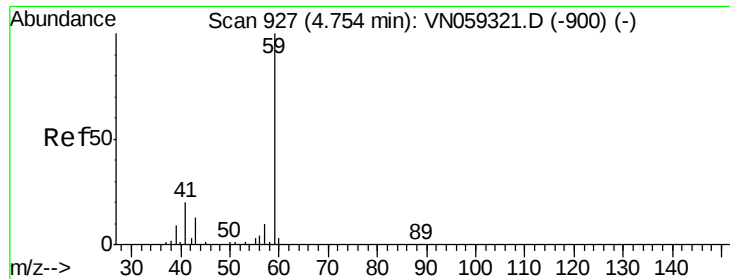
MMDadoda
11/22/2019 3:11:58 PM



#10
Methyl Iodide
Concen: 16.568 ug/l
RT: 3.93 min Scan# 670
Delta R.T. 0.00 min
Lab File: VN059331.D
Acq: 21 Nov 2019 13:39

Tgt Ion	Ratio	Lower	Upper
142	100		
127	40.8	33.8	50.6
141	13.6	11.2	16.8





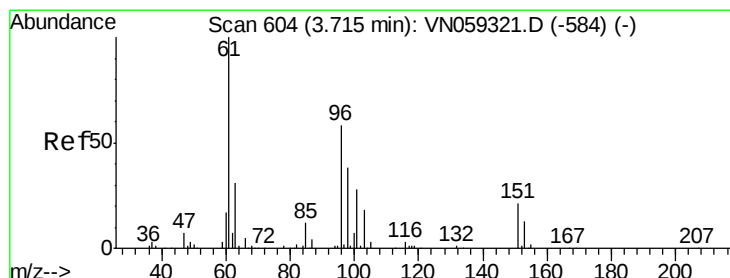
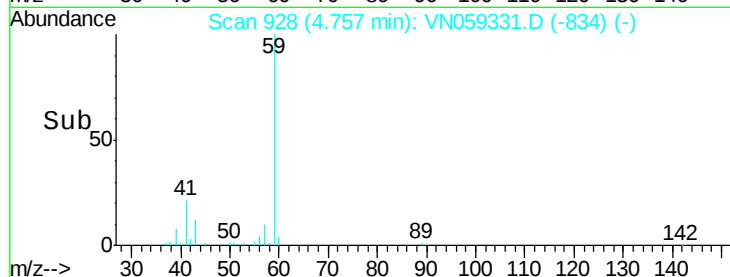
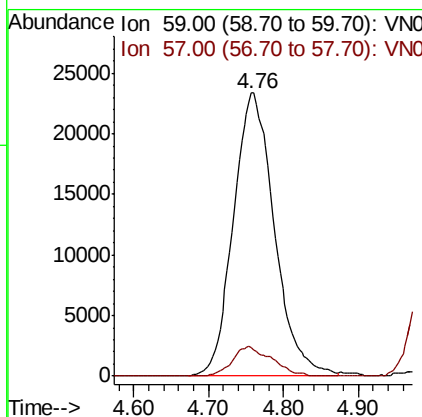
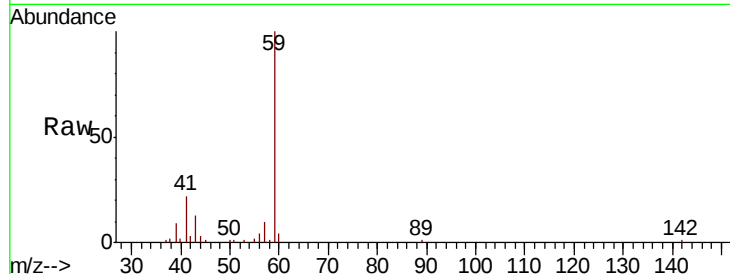
#11
Tert butyl alcohol
Concen: 77.087 ug/l
RT: 4.76 min Scan# 928
Delta R.T. 0.00 min
Lab File: VN059331.D
Acq: 21 Nov 2019 13:39

Instrument :
MSVOA_N
ClientSampleId :
VN1121WBS01

Tot Ion	Ratio	Lower	Upper
59	100		
57	9.9	8.2	12.2

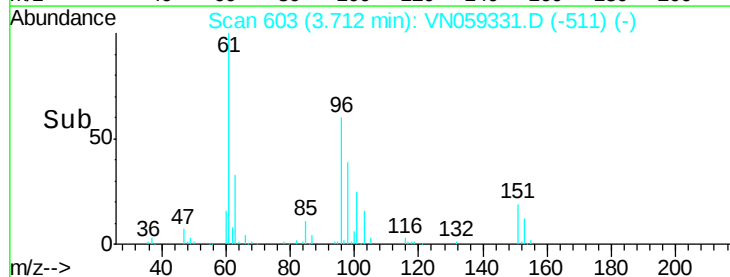
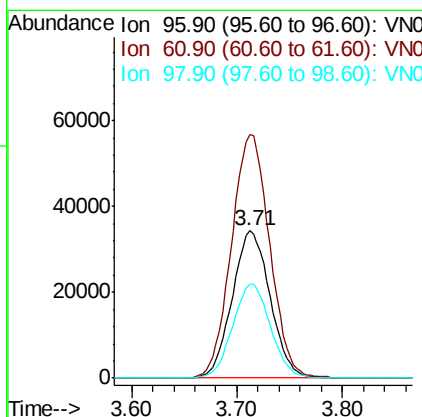
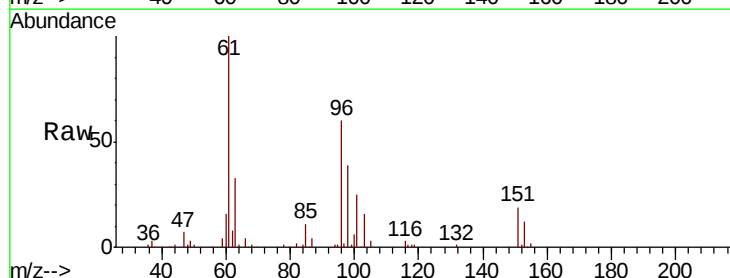
Manual Integrations
APPROVED

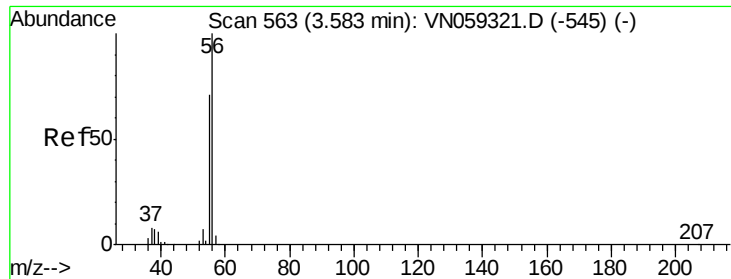
MMDadoda
11/22/2019 3:11:58 PM



#12
1,1-Dichloroethene
Concen: 16.476 ug/l
RT: 3.71 min Scan# 603
Delta R.T. -0.00 min
Lab File: VN059331.D
Acq: 21 Nov 2019 13:39

Tgt Ion	Ratio	Lower	Upper
96	100		
61	165.3	136.8	205.2
98	64.1	51.6	77.4





#13

Acrolein

Concen: 68.636 ug/l

RT: 3.58 min Scan# 563

Delta R.T. 0.00 min

Lab File: VN059331.D

Acq: 21 Nov 2019 13:39

Instrument :

MSVOA_N

ClientSampleId :

VN1121WBS01

Tot Ion: 56 Resp: 72542

Ion Ratio Lower Upper

56 100

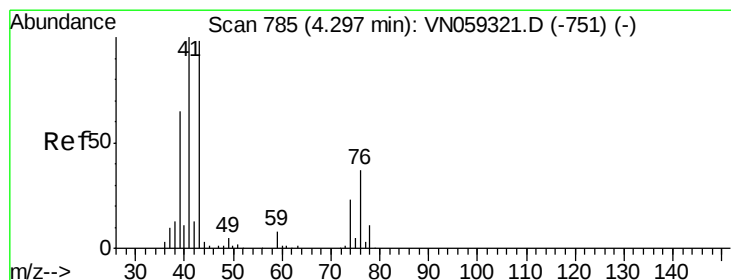
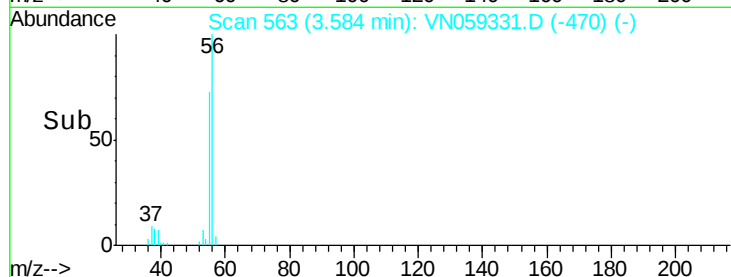
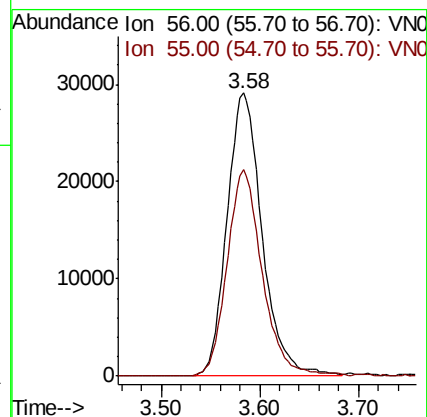
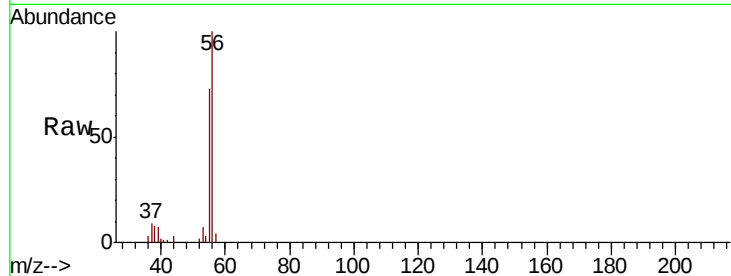
55 72.9 57.4 86.0

Manual Integrations

APPROVED

MMDadoda

11/22/2019 3:11:58 PM



#14

Allyl chloride

Concen: 16.518 ug/l

RT: 4.29 min Scan# 784

Delta R.T. -0.00 min

Lab File: VN059331.D

Acq: 21 Nov 2019 13:39

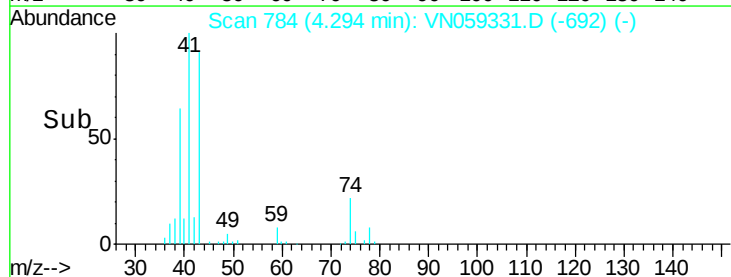
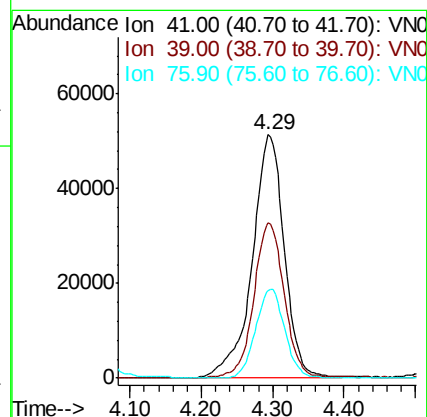
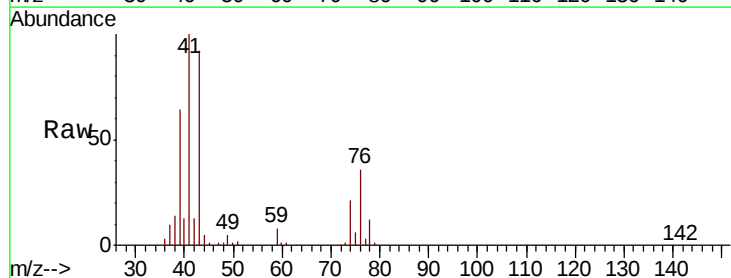
Tgt Ion: 41 Resp: 160513

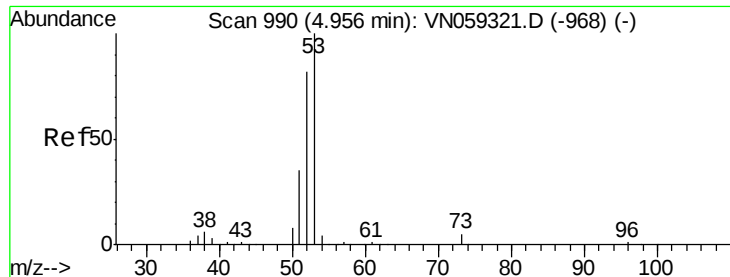
Ion Ratio Lower Upper

41 100

39 60.5 48.4 72.6

76 33.1 26.2 39.4





#15

Acrylonitrile

Concen: 79.230 ug/l

RT: 4.96 min Scan# 990

Delta R.T. 0.00 min

Lab File: VN059331.D

Acq: 21 Nov 2019 13:39

Instrument :

MSVOA_N

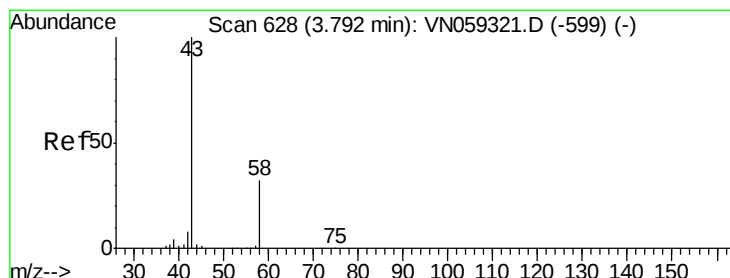
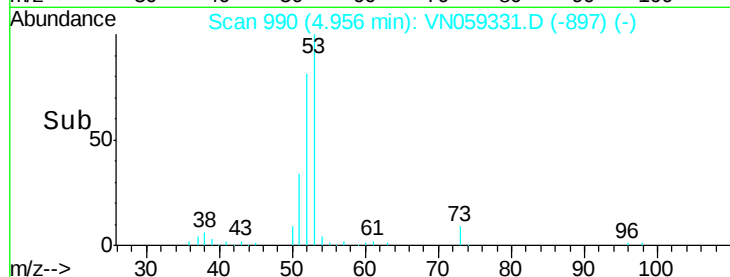
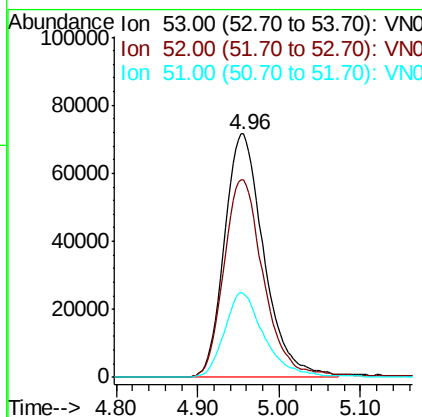
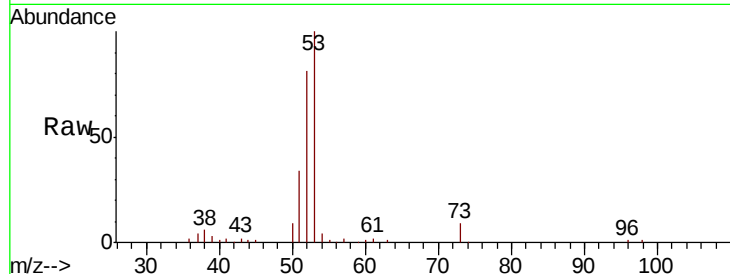
ClientSampleId :

VN1121WBS01

Tot Ion:	53	Resp:	242544
Ion	Ratio	Lower	Upper
53	100		
52	82.3	65.8	98.8
51	35.4	28.2	42.2

Manual Integrations
APPROVED

MMDadoda
11/22/2019 3:11:58 PM



#16

Acetone

Concen: 77.704 ug/l

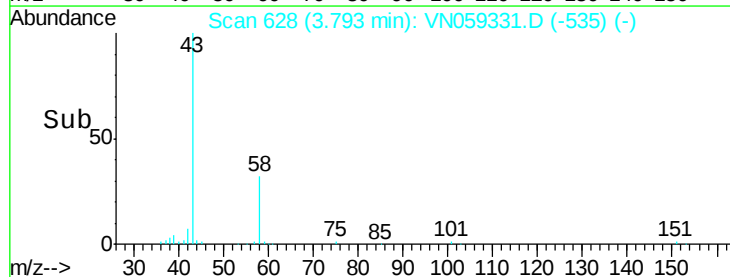
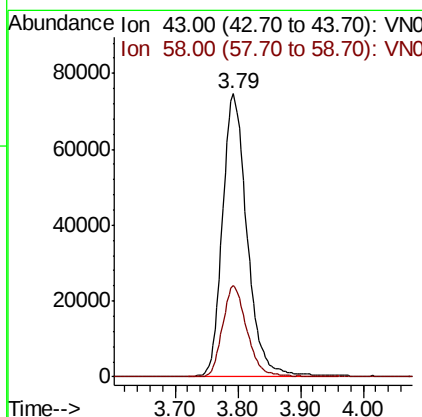
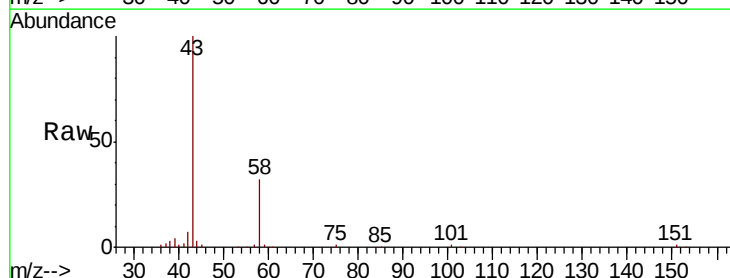
RT: 3.79 min Scan# 628

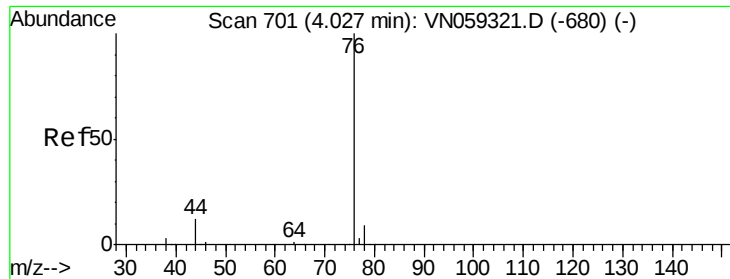
Delta R.T. 0.00 min

Lab File: VN059331.D

Acq: 21 Nov 2019 13:39

Tgt Ion:	43	Resp:	201481
Ion	Ratio	Lower	Upper
43	100		
58	32.4	25.8	38.6





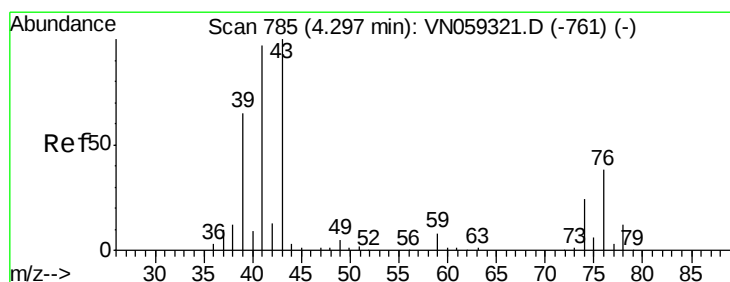
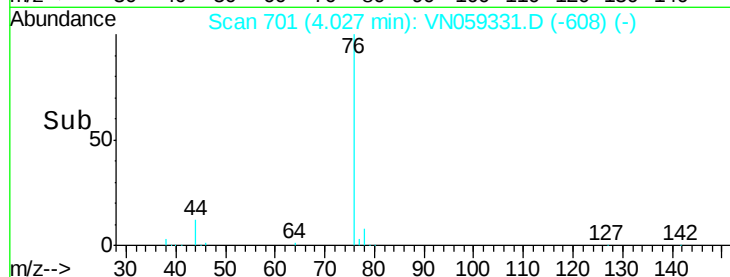
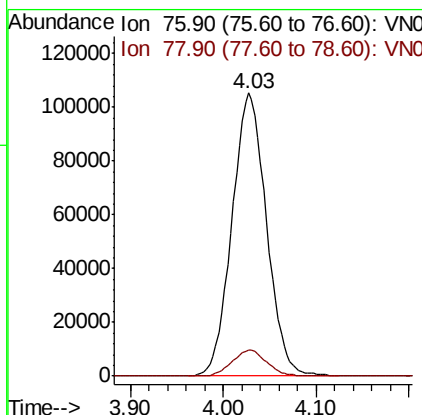
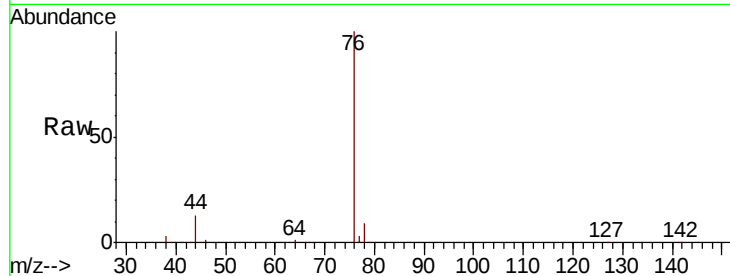
#17
Carbon Disulfide
Concen: 16.775 ug/l
RT: 4.03 min Scan# 701
Delta R.T. 0.00 min
Lab File: VN059331.D
Acq: 21 Nov 2019 13:39

Instrument :
MSVOA_N
ClientSampleId :
VN1121WBS01

Tot Ion	Ratio	Lower	Upper
76	100		
78	9.0	7.2	10.8

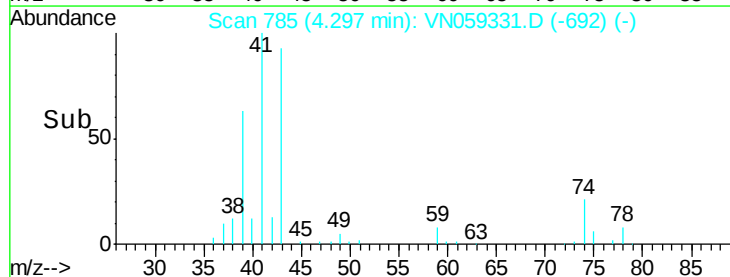
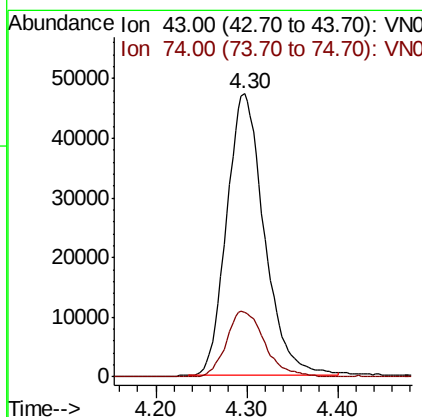
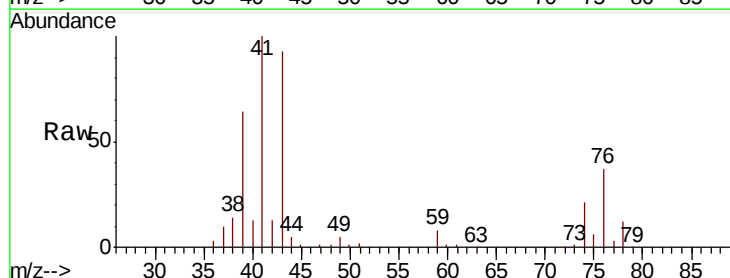
Manual Integrations
APPROVED

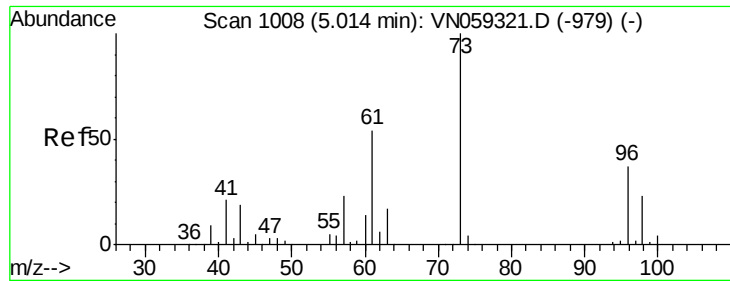
MMDadoda
11/22/2019 3:11:58 PM



#18
Methyl Acetate
Concen: 15.836 ug/l
RT: 4.30 min Scan# 785
Delta R.T. 0.00 min
Lab File: VN059331.D
Acq: 21 Nov 2019 13:39

Tgt Ion	Ratio	Lower	Upper
43	100		
74	23.7	18.1	27.1





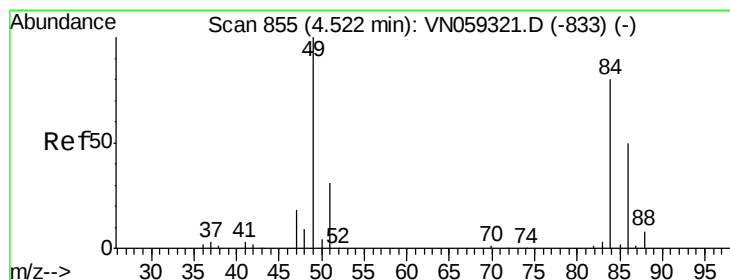
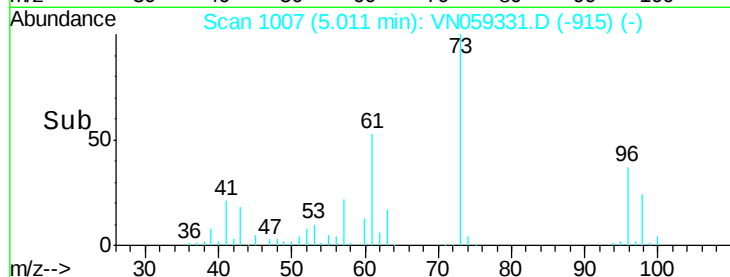
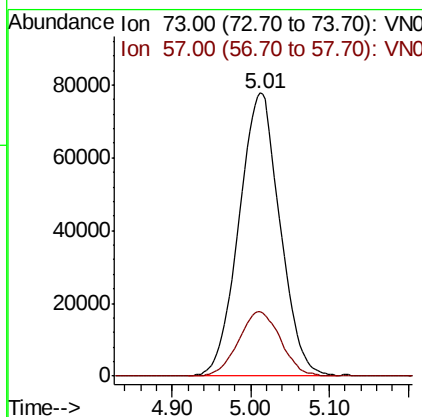
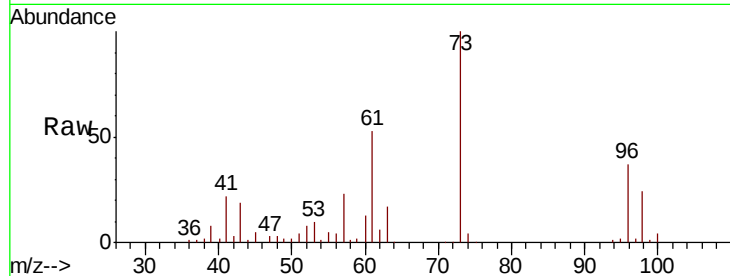
#19
Methyl tert-butyl Ether
Concen: 17.008 ug/l
RT: 5.01 min Scan# 1007
Delta R.T. -0.00 min
Lab File: VN059331.D
Acq: 21 Nov 2019 13:39

Instrument :
MSVOA_N
ClientSampleId :
VN1121WBS01

Tot Ion: 73 Resp: 285750
Ion Ratio Lower Upper
73 100
57 22.9 18.4 27.6

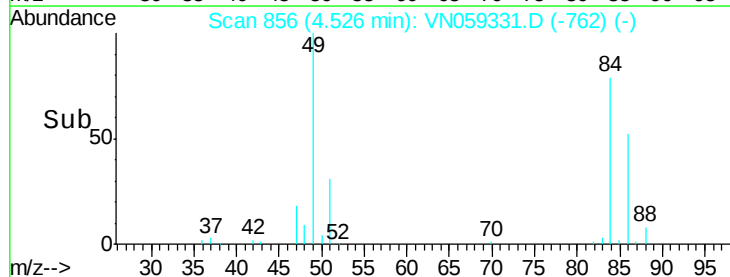
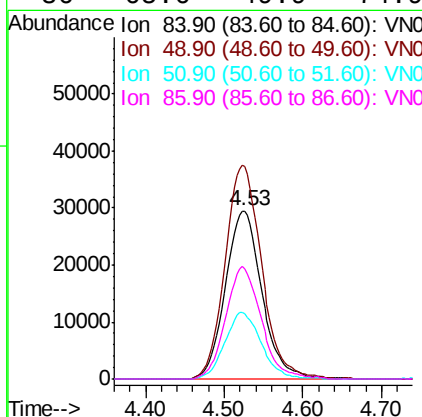
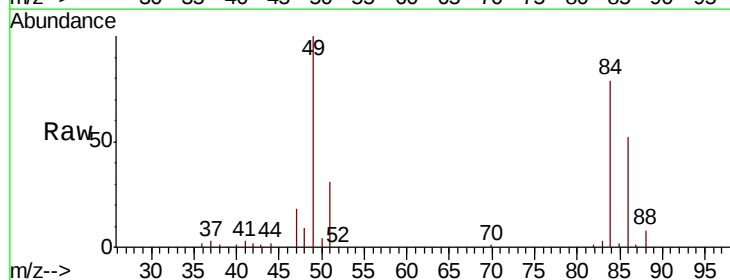
Manual Integrations
APPROVED

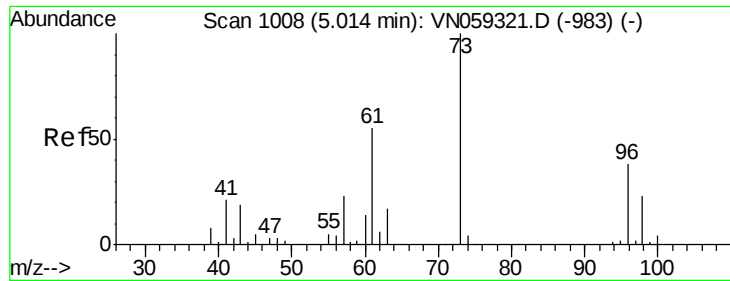
MMDadoda
11/22/2019 3:11:58 PM



#20
Methylene Chloride
Concen: 16.308 ug/l
RT: 4.53 min Scan# 856
Delta R.T. 0.00 min
Lab File: VN059331.D
Acq: 21 Nov 2019 13:39

Tgt Ion: 84 Resp: 95370
Ion Ratio Lower Upper
84 100
49 126.5 99.5 149.3
51 38.7 31.1 46.7
86 65.6 49.9 74.9





#21

trans-1,2-Dichloroethene

Concen: 16.442 ug/l

RT: 5.01 min Scan# 1007

Delta R.T. -0.00 min

Lab File: VN059331.D

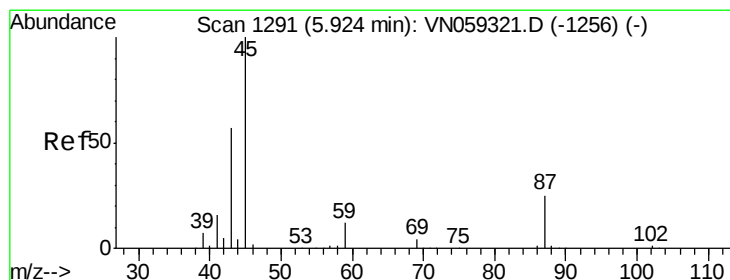
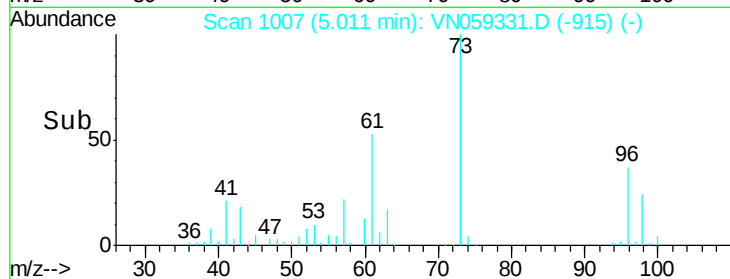
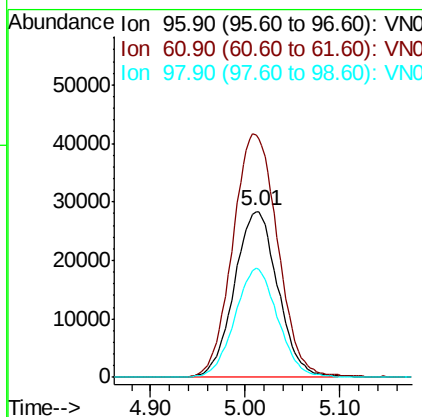
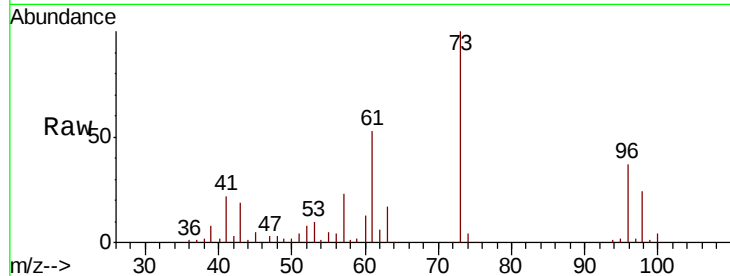
Acq: 21 Nov 2019 13:39

Instrument :
MSVOA_N
ClientSampleId :
VN1121WBS01

Tot Ion	Ratio	Lower	Upper
96	100		
61	145.9	116.4	174.6
98	65.8	49.6	74.4

Manual Integrations
APPROVED

MMDadoda
11/22/2019 3:11:58 PM



#22

Diisopropyl ether

Concen: 16.846 ug/l

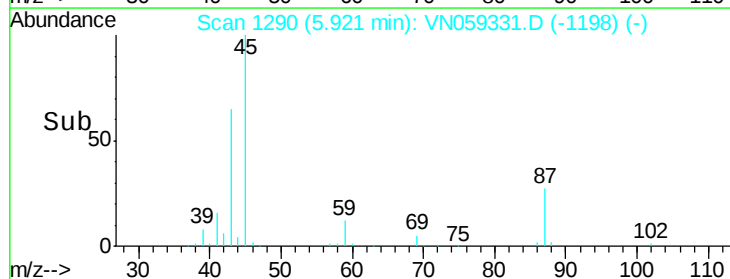
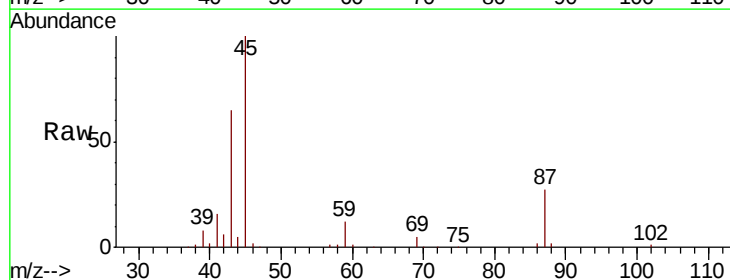
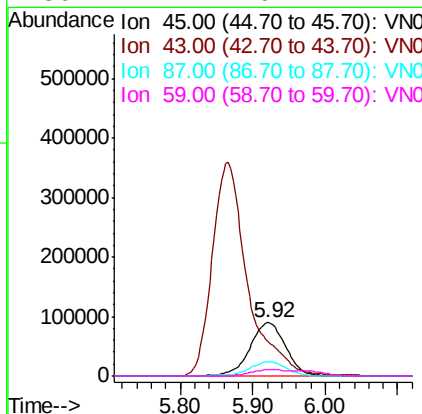
RT: 5.92 min Scan# 1290

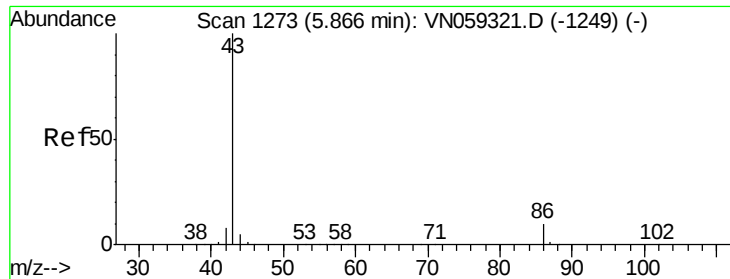
Delta R.T. -0.00 min

Lab File: VN059331.D

Acq: 21 Nov 2019 13:39

Tgt Ion	Ratio	Lower	Upper
45	100		
43	62.5	47.6	71.4
87	26.6	20.7	31.1
59	12.1	9.4	14.2





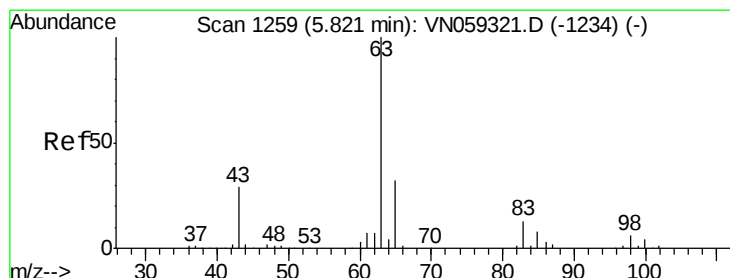
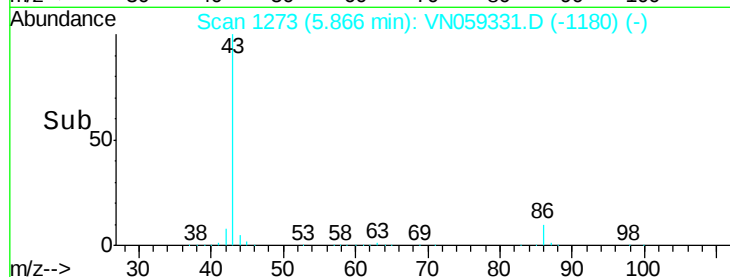
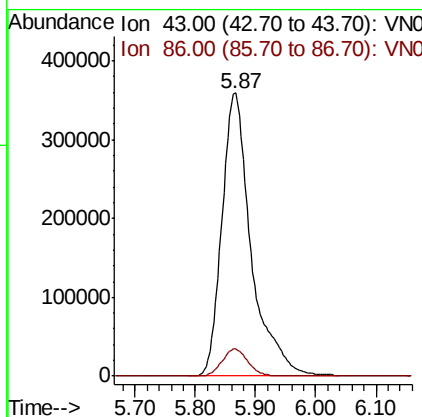
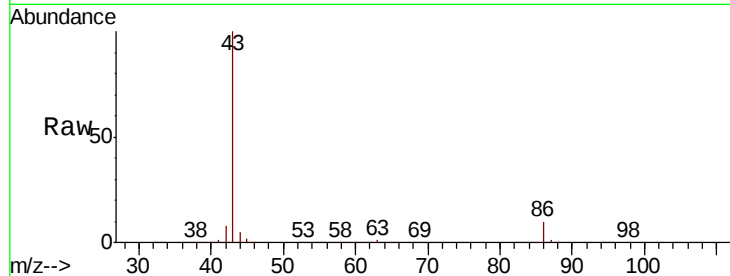
#23
 Vinyl Acetate
 Concen: 84.454 ug/l
 RT: 5.87 min Scan# 1273
 Delta R.T. 0.00 min
 Lab File: VN059331.D
 Acq: 21 Nov 2019 13:39

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1121WBS01

Tot Ion: 43 Resp: 1215115
 Ion Ratio Lower Upper
 43 100
 86 9.5 8.0 12.0

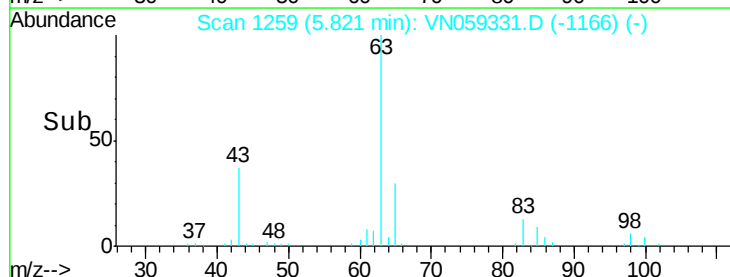
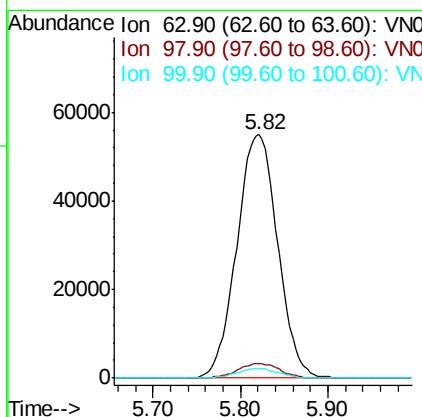
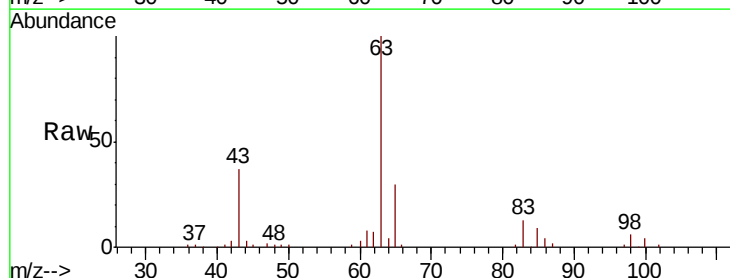
Manual Integrations
 APPROVED

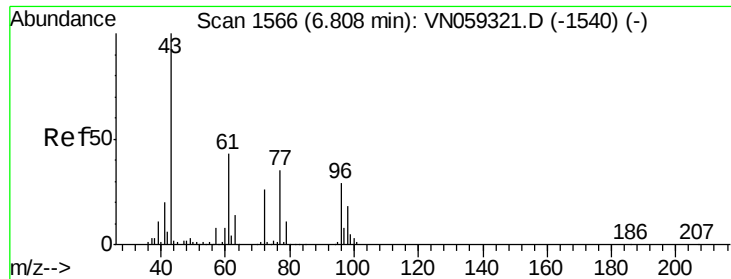
MMDadoda
 11/22/2019 3:11:58 PM



#24
 1,1-Dichloroethane
 Concen: 17.283 ug/l
 RT: 5.82 min Scan# 1259
 Delta R.T. 0.00 min
 Lab File: VN059331.D
 Acq: 21 Nov 2019 13:39

Tgt Ion: 63 Resp: 177995
 Ion Ratio Lower Upper
 63 100
 98 6.1 2.9 8.8
 100 3.6 1.9 5.7





#25

2-Butanone

Concen: 78.771 ug/l

RT: 6.81 min Scan# 1566

Delta R.T. 0.00 min

Lab File: VN059331.D

Acq: 21 Nov 2019 13:39

Instrument :

MSVOA_N

ClientSampleId :

VN1121WBS01

Tot Ion: 43 Resp: 317606

Ion Ratio Lower Upper

43 100

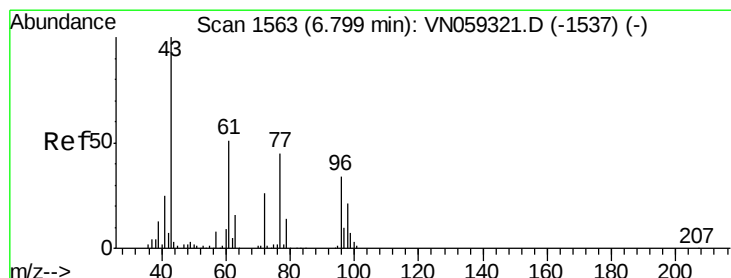
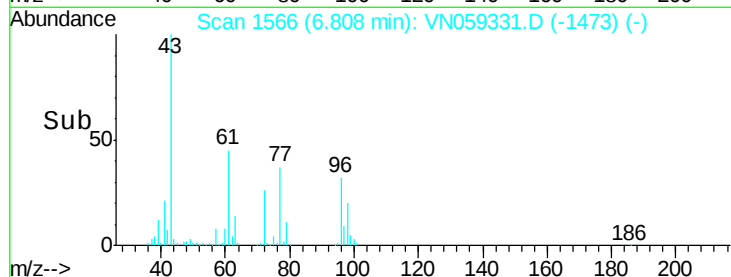
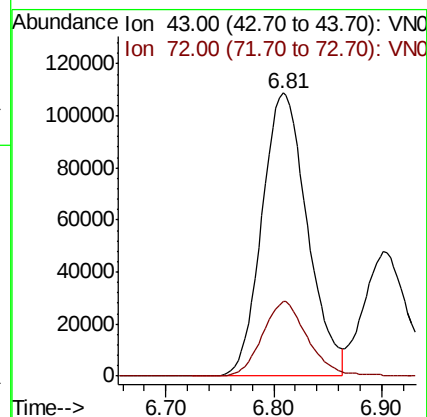
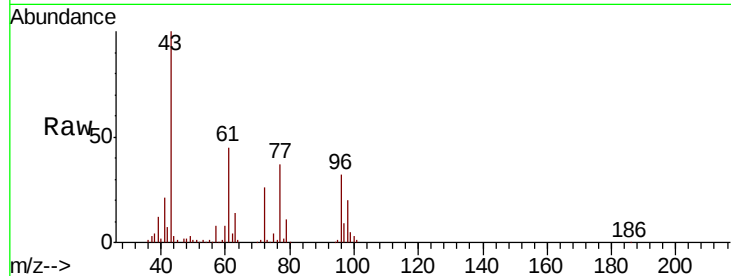
72 26.4 20.5 30.7

Manual Integrations

APPROVED

MMDadoda

11/22/2019 3:11:58 PM



#26

2,2-Dichloropropane

Concen: 16.848 ug/l

RT: 6.79 min Scan# 1561

Delta R.T. -0.01 min

Lab File: VN059331.D

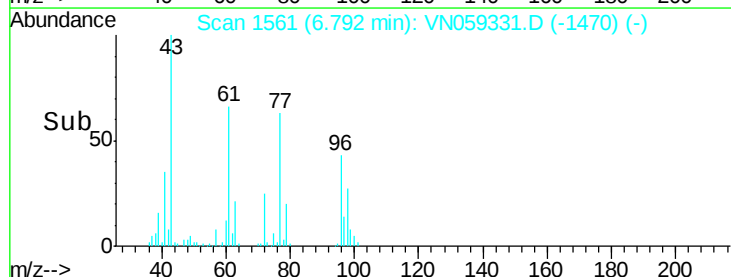
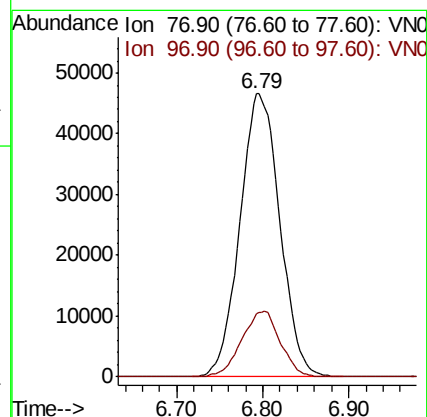
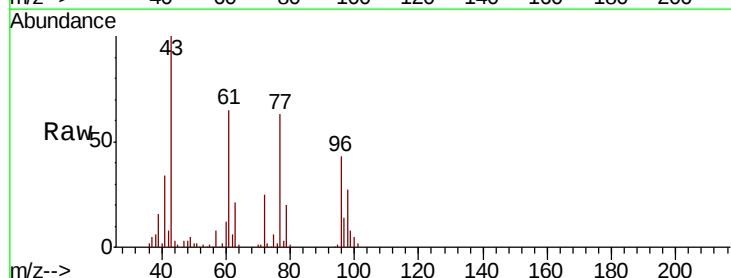
Acq: 21 Nov 2019 13:39

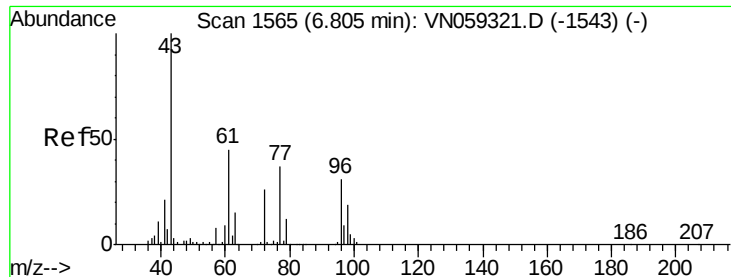
Tgt Ion: 77 Resp: 150242

Ion Ratio Lower Upper

77 100

97 22.4 11.5 34.4





#27

cis-1,2-Dichloroethene

Concen: 16.785 ug/l

RT: 6.80 min Scan# 1564

Delta R.T. -0.00 min

Lab File: VN059331.D

Acq: 21 Nov 2019 13:39

Instrument :

MSVOA_N

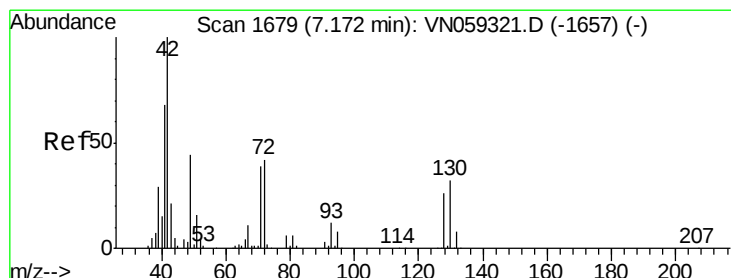
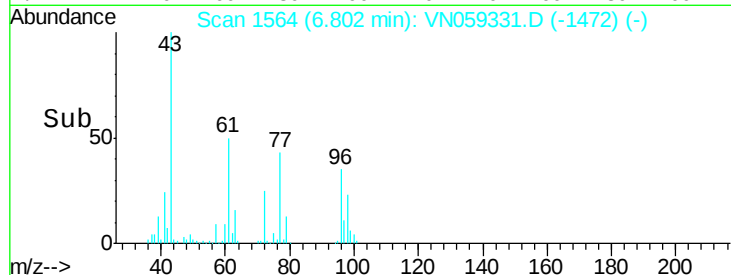
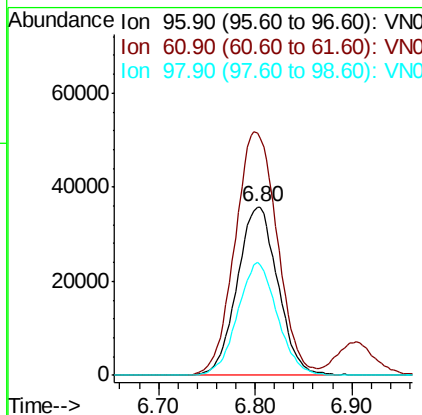
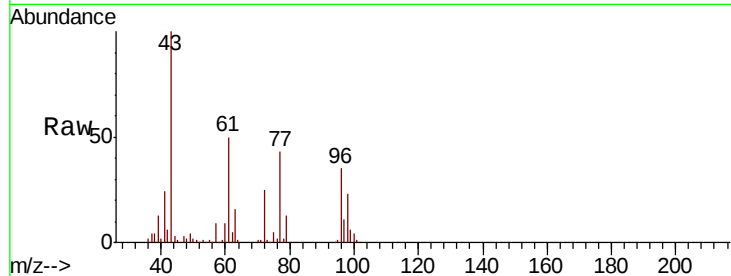
ClientSampleId :

VN1121WBS01

Tot Ion:	96	Resp:	104403
Ion Ratio	Lower	Upper	
96	100		
61	151.0	0.0	304.0
98	65.4	0.0	128.4

Manual Integrations
APPROVED

MMDadoda
11/22/2019 3:11:58 PM



#28

Bromochloromethane

Concen: 20.631 ug/l

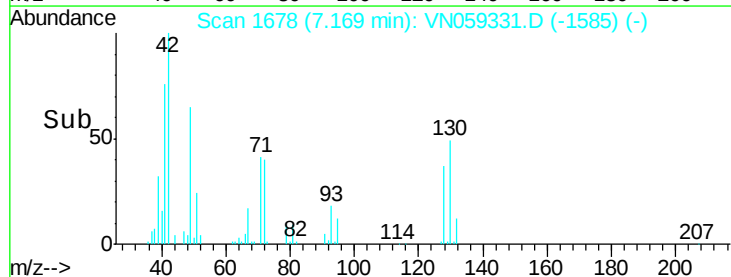
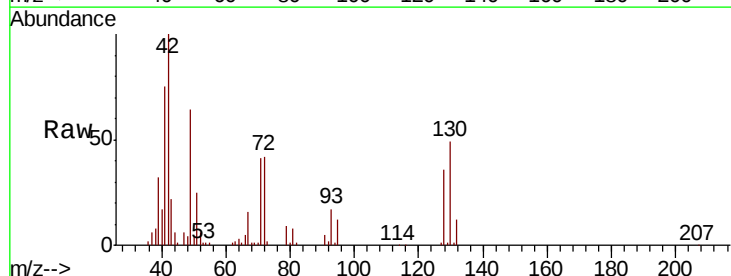
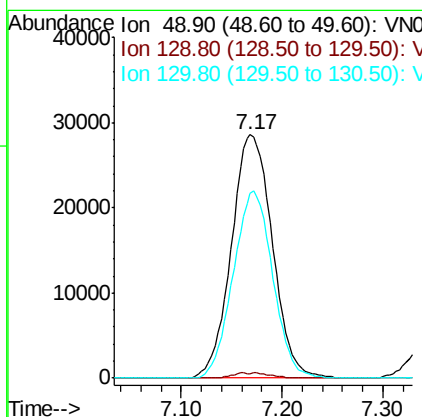
RT: 7.17 min Scan# 1678

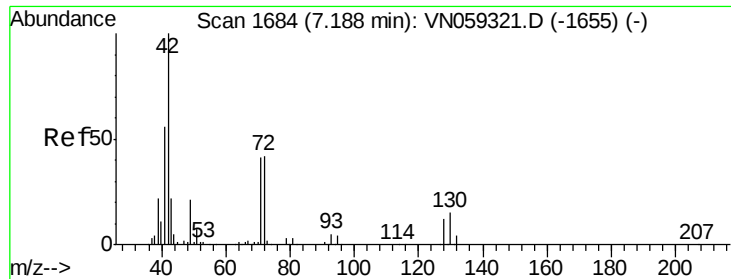
Delta R.T. -0.00 min

Lab File: VN059331.D

Acq: 21 Nov 2019 13:39

Tgt Ion:	49	Resp:	80467
Ion Ratio	Lower	Upper	
49	100		
129	0.9	0.0	3.8
130	74.1	57.0	85.6





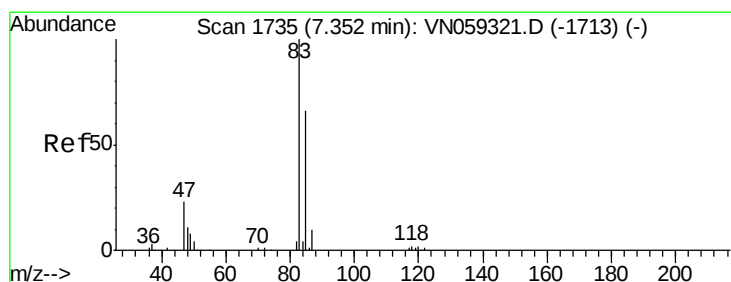
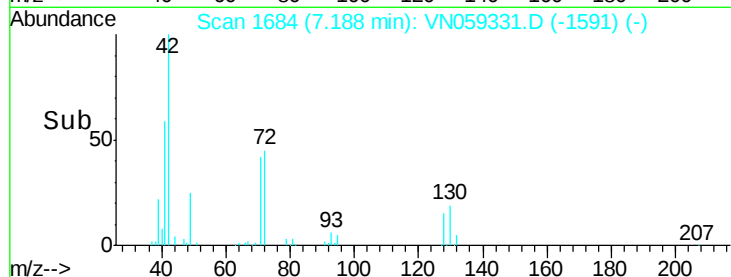
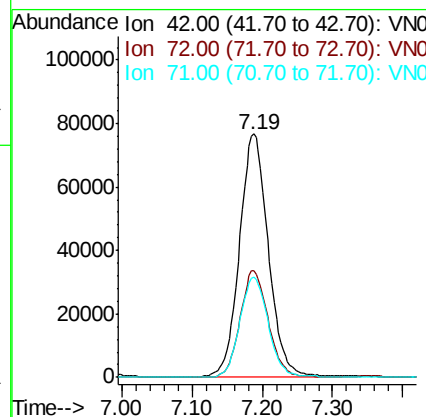
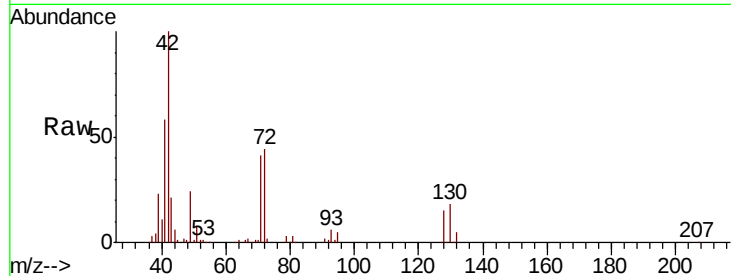
#29
Tetrahydrofuran
Concen: 78.118 ug/l
RT: 7.19 min Scan# 1684
Delta R.T. 0.00 min
Lab File: VN059331.D
Acq: 21 Nov 2019 13:39

Instrument :
MSVOA_N
ClientSampleId :
VN1121WBS01

Tot Ion	Ratio	Lower	Upper
42	100		
72	42.9	34.2	51.2
71	40.9	32.6	48.8

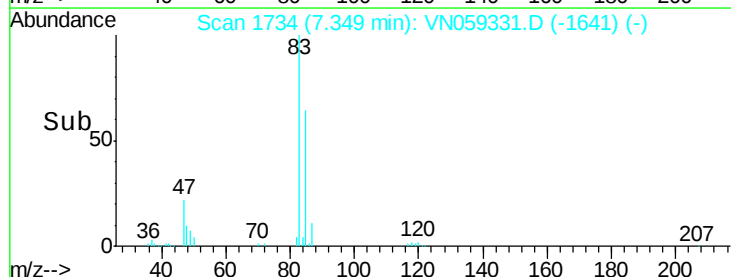
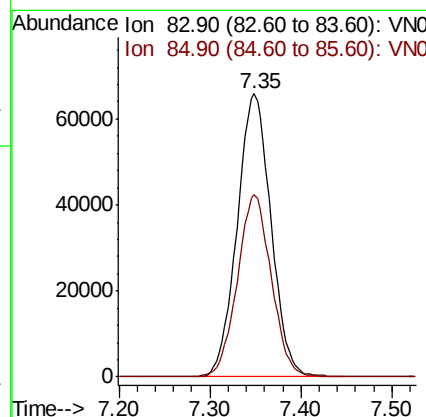
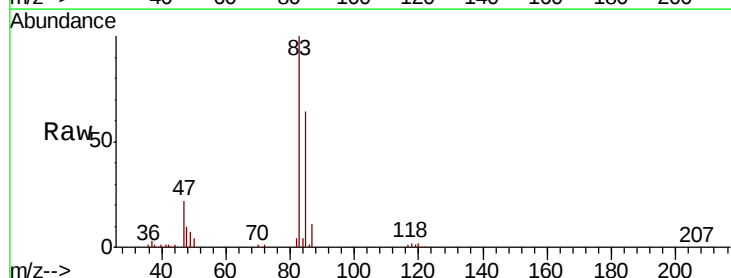
Manual Integrations
APPROVED

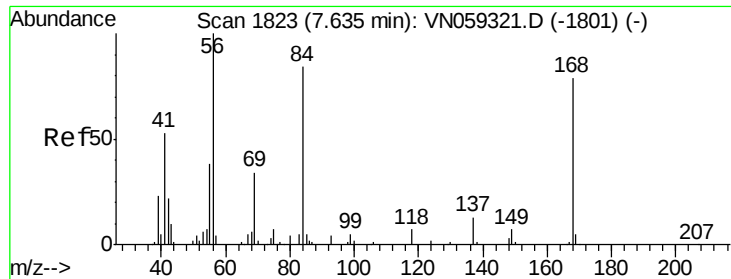
MMDadoda
11/22/2019 3:11:58 PM



#30
Chloroform
Concen: 16.926 ug/l
RT: 7.35 min Scan# 1734
Delta R.T. -0.00 min
Lab File: VN059331.D
Acq: 21 Nov 2019 13:39

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.4	52.7	79.1





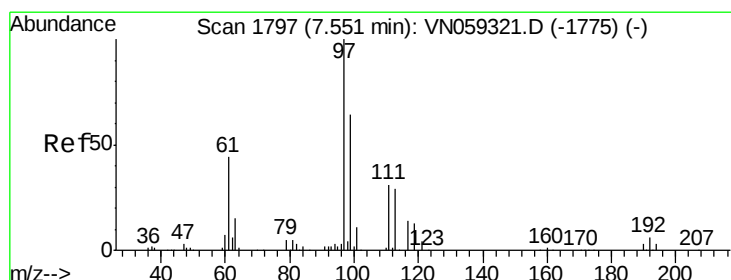
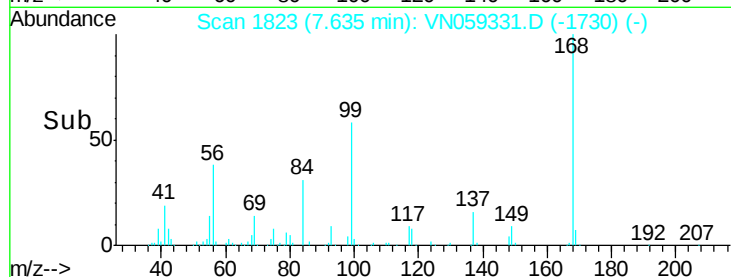
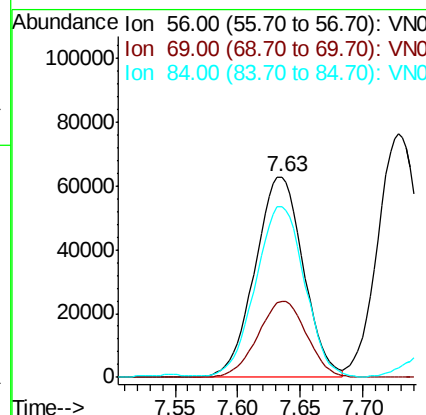
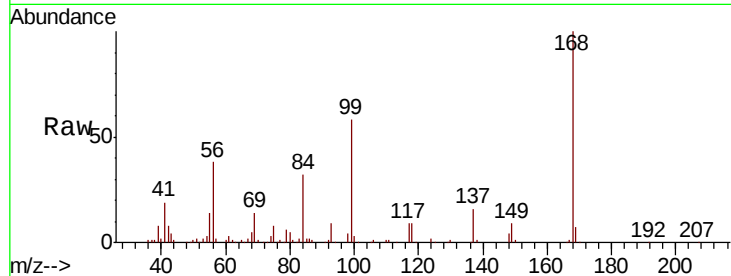
#31
Cyclohexane
Concen: 16.583 ug/l
RT: 7.63 min Scan# 1823
Delta R.T. 0.00 min
Lab File: VN059331.D
Acq: 21 Nov 2019 13:39

Instrument :
MSVOA_N
ClientSampleId :
VN1121WBS01

Tot Ion	Ratio	Lower	Upper
56	100		
69	38.2	26.6	40.0
84	84.2	67.0	100.4

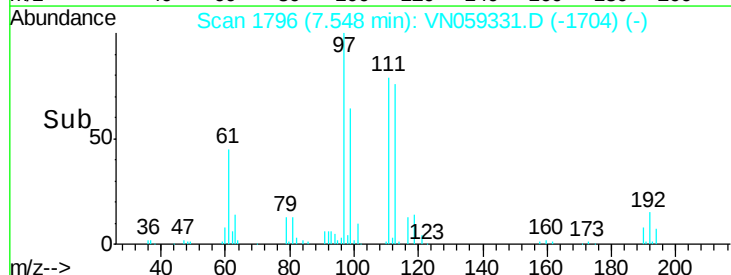
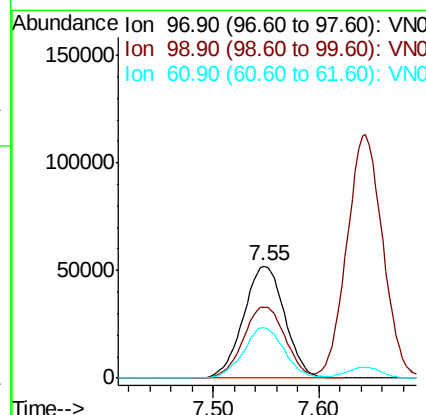
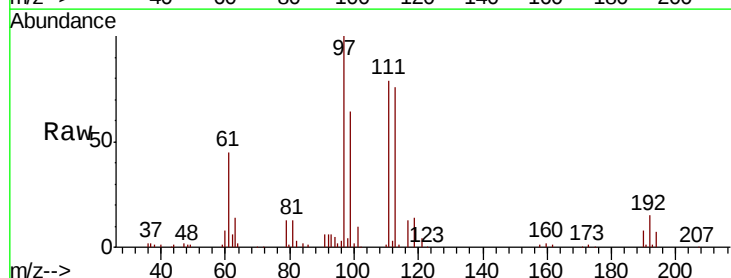
Manual Integrations
APPROVED

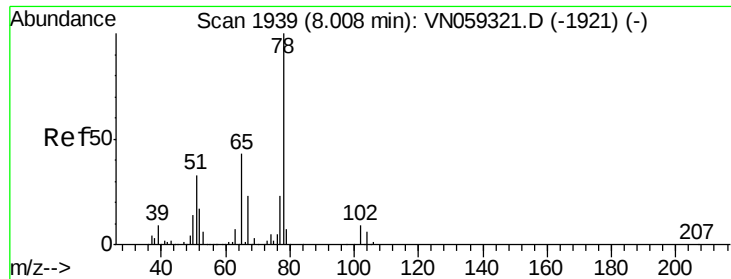
MMDadoda
11/22/2019 3:11:58 PM



#32
1,1,1-Trichloroethane
Concen: 16.515 ug/l
RT: 7.55 min Scan# 1796
Delta R.T. -0.00 min
Lab File: VN059331.D
Acq: 21 Nov 2019 13:39

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.4	51.3	76.9
61	44.2	35.3	52.9





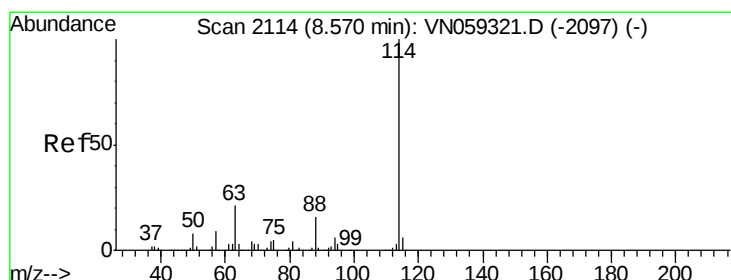
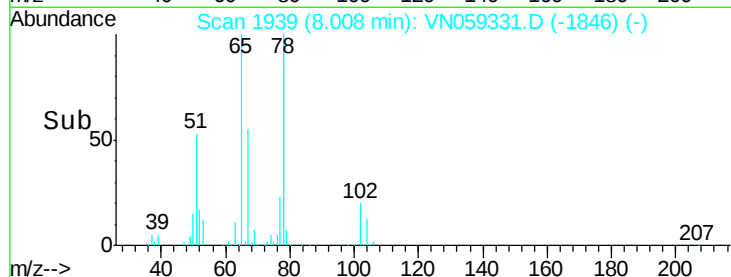
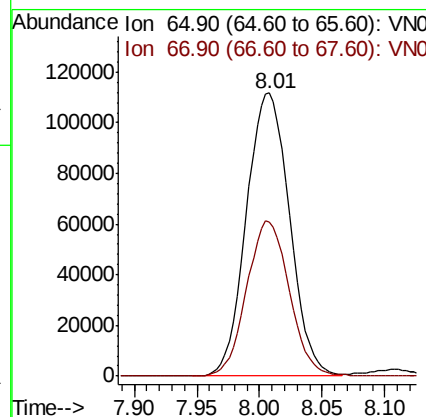
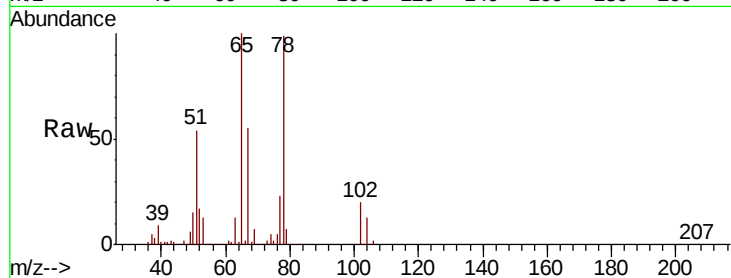
#33
 1,2-Dichloroethane-d4
 Concen: 46.335 ug/l
 RT: 8.01 min Scan# 1939
 Delta R.T. 0.00 min
 Lab File: VN059331.D
 Acq: 21 Nov 2019 13:39

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1121WBS01

Tot Ion	Ratio	Resp	Lower	Upper
65	100	267953		
67	54.1	0.0	109.4	

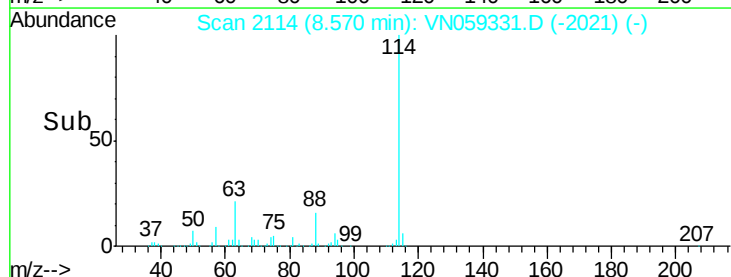
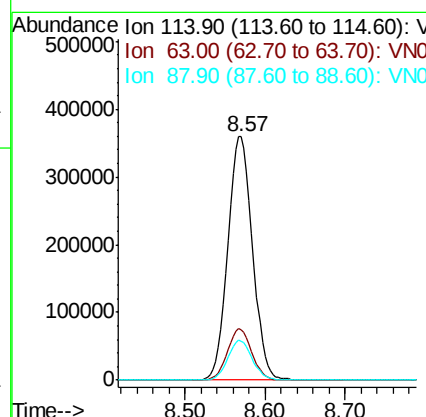
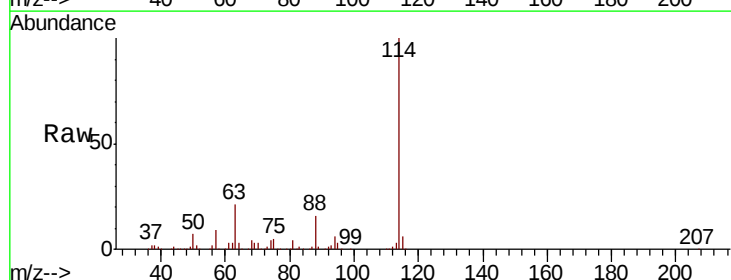
Manual Integrations
 APPROVED

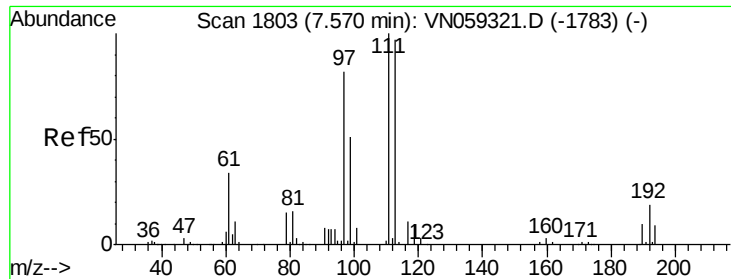
MMDadoda
 11/22/2019 3:11:58 PM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2114
 Delta R.T. 0.00 min
 Lab File: VN059331.D
 Acq: 21 Nov 2019 13:39

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	762163		
63	20.7	0.0	42.2	
88	16.1	0.0	32.2	





#35

Dibromofluoromethane

Concen: 46.806 ug/l

RT: 7.57 min Scan# 1803

Delta R.T. 0.00 min

Lab File: VN059331.D

Acq: 21 Nov 2019 13:39

Instrument :

MSVOA_N

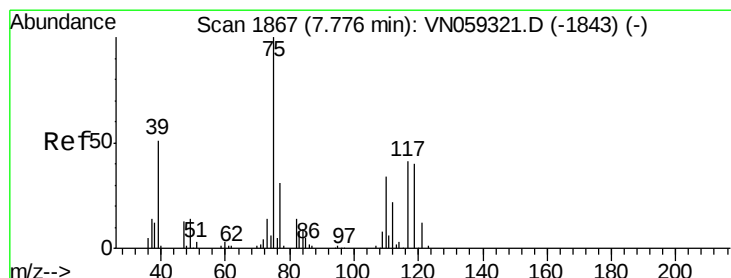
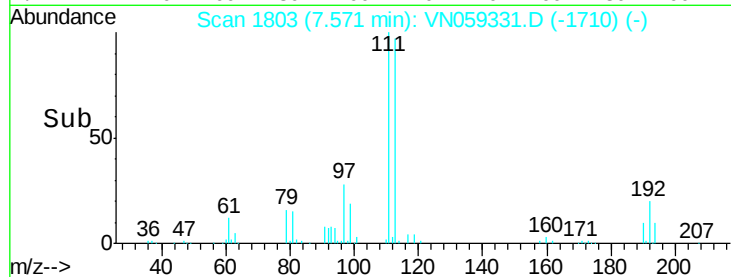
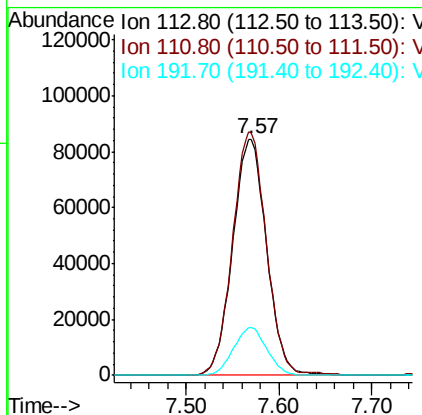
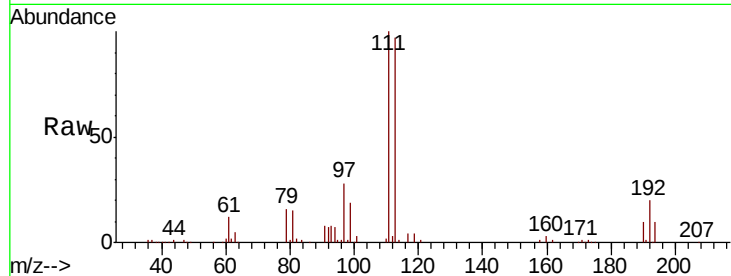
ClientSampleId :

VN1121WBS01

Tot Ion:	113	Resp:	214022
Ion Ratio	Lower	Upper	
113	100		
111	102.1	82.7	124.1
192	20.1	16.3	24.5

Manual Integrations
APPROVED

MMDadoda
11/22/2019 3:11:58 PM



#36

1,1-Dichloropropene

Concen: 16.482 ug/l

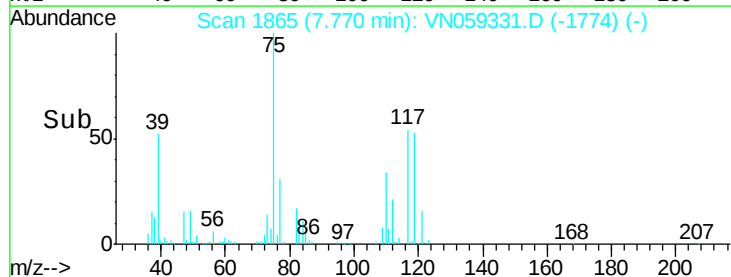
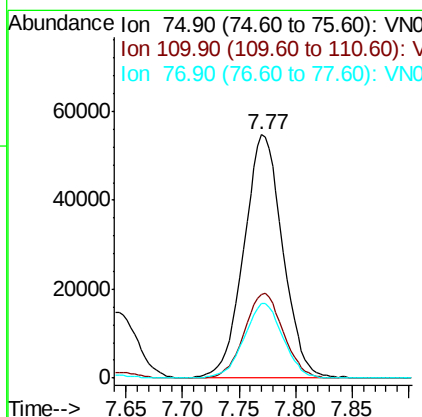
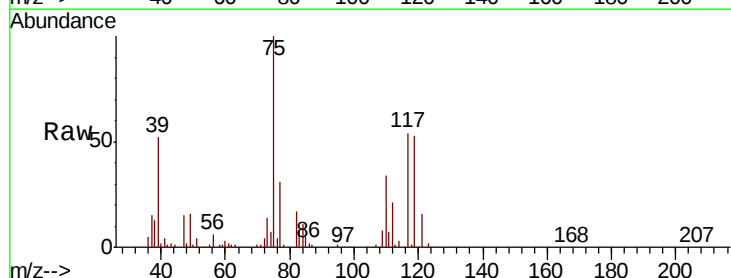
RT: 7.77 min Scan# 1865

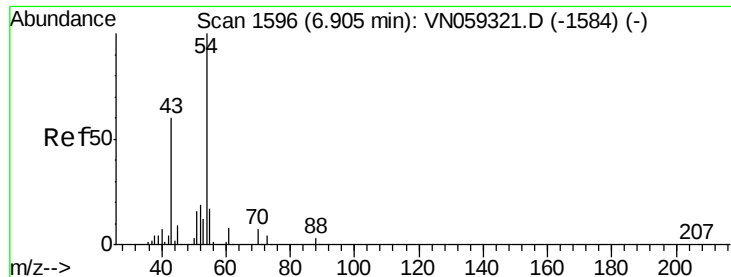
Delta R.T. -0.01 min

Lab File: VN059331.D

Acq: 21 Nov 2019 13:39

Tgt Ion:	75	Resp:	129685
Ion Ratio	Lower	Upper	
75	100		
110	35.1	17.0	51.0
77	31.0	24.8	37.2





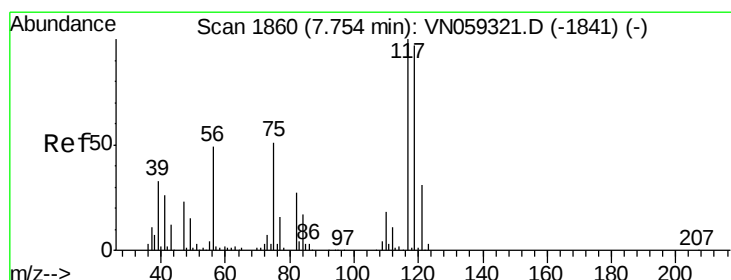
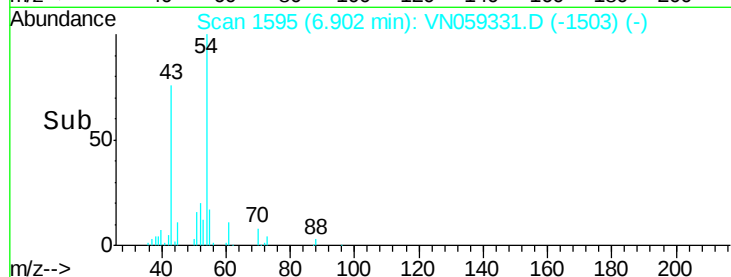
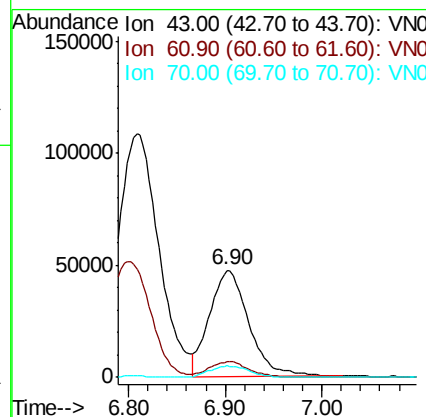
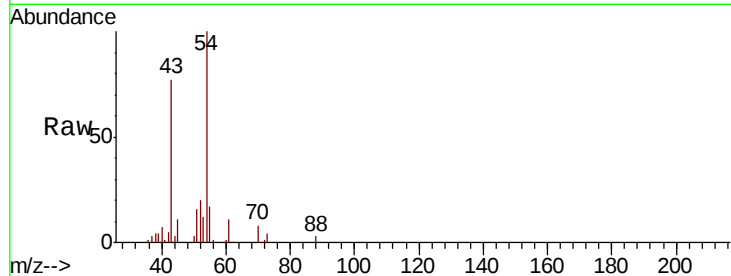
#37
Ethyl Acetate
Concen: 15.828 ug/l
RT: 6.90 min Scan# 1595
Delta R.T. -0.00 min
Lab File: VN059331.D
Acq: 21 Nov 2019 13:39

Instrument :
MSVOA_N
ClientSampleID :
VN1121WBS01

Tot Ion	Ratio	Lower	Upper
43	100		
61	14.9	11.0	16.6
70	10.8	8.8	13.2

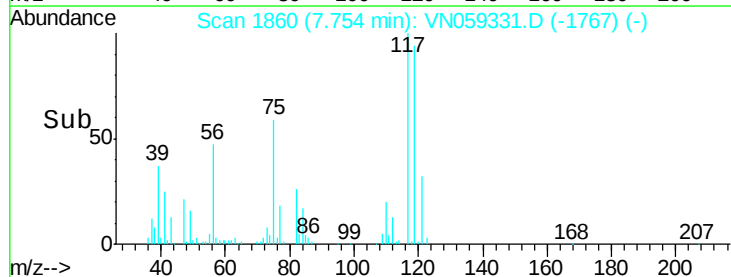
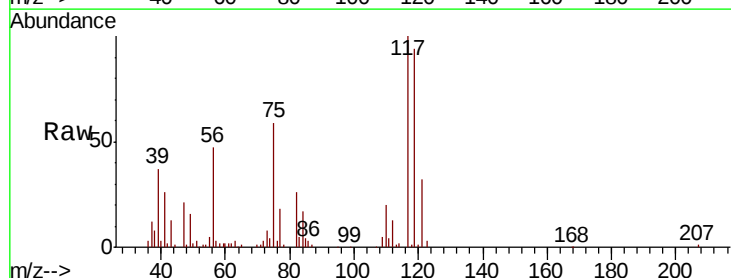
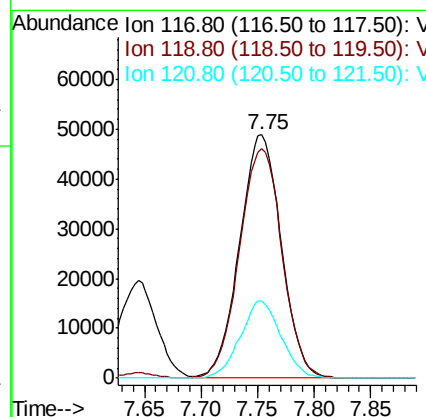
Manual Integrations
APPROVED

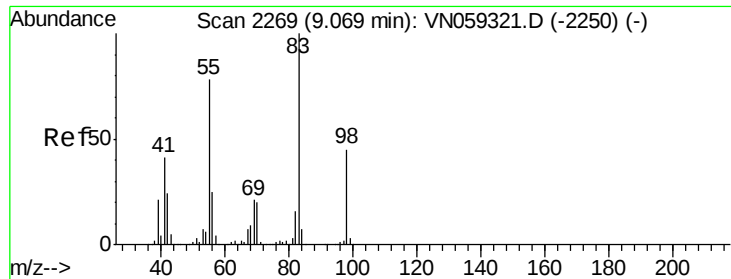
MMDadoda
11/22/2019 3:11:58 PM



#38
Carbon Tetrachloride
Concen: 16.671 ug/l
RT: 7.75 min Scan# 1860
Delta R.T. 0.00 min
Lab File: VN059331.D
Acq: 21 Nov 2019 13:39

Tgt Ion	Ratio	Lower	Upper
117	100		
119	94.4	77.0	115.4
121	31.7	24.4	36.6





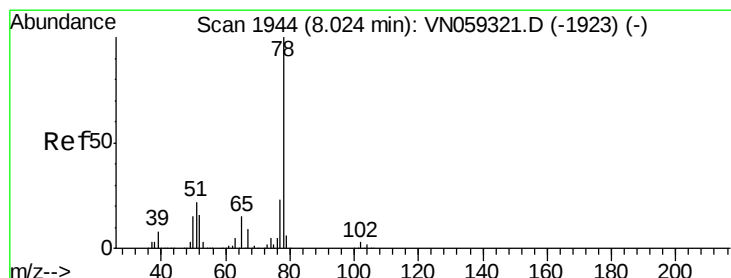
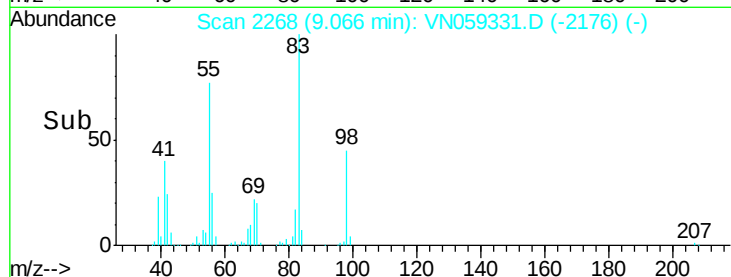
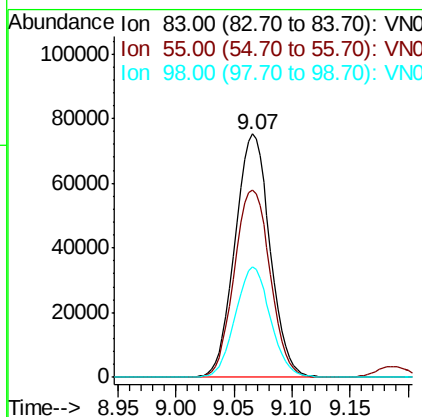
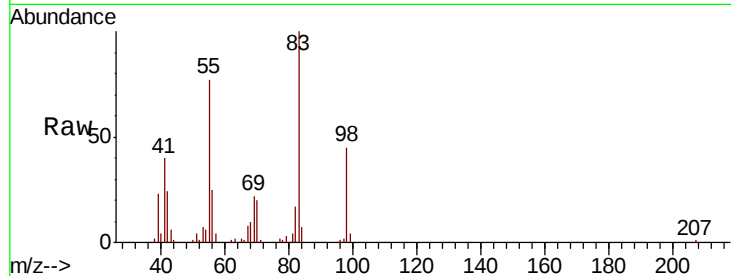
#39
Methvlcvclohexane
Concen: 16.628 ug/l
RT: 9.07 min Scan# 2268
Delta R.T. -0.00 min
Lab File: VN059331.D
Acq: 21 Nov 2019 13:39

Instrument :
MSVOA_N
ClientSampleId :
VN1121WBS01

Tot Ion	Ratio	Lower	Upper
83	100		
55	77.0	62.3	93.5
98	45.3	36.0	54.0

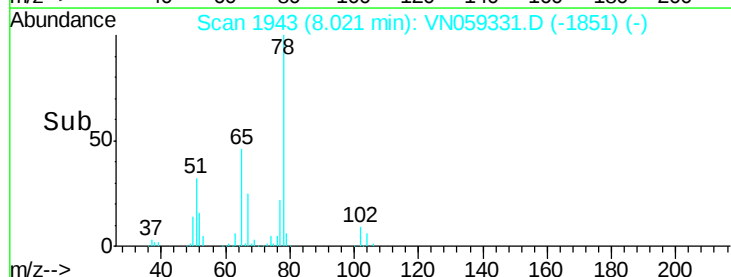
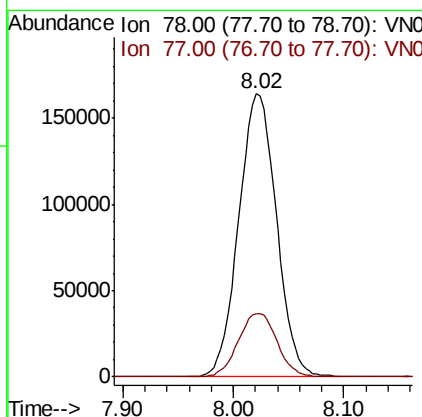
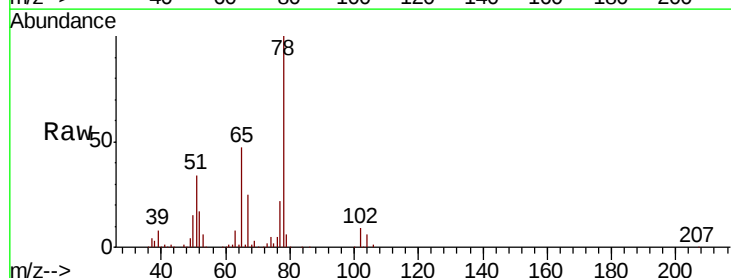
Manual Integrations
APPROVED

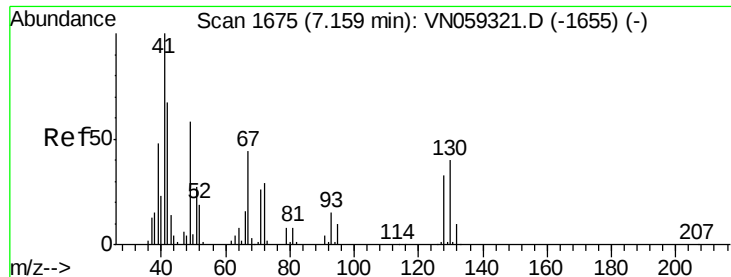
MMDadoda
11/22/2019 3:11:58 PM



#40
Benzene
Concen: 16.854 ug/l
RT: 8.02 min Scan# 1943
Delta R.T. -0.00 min
Lab File: VN059331.D
Acq: 21 Nov 2019 13:39

Tgt Ion	Ratio	Lower	Upper
78	100		
77	22.5	18.4	27.6





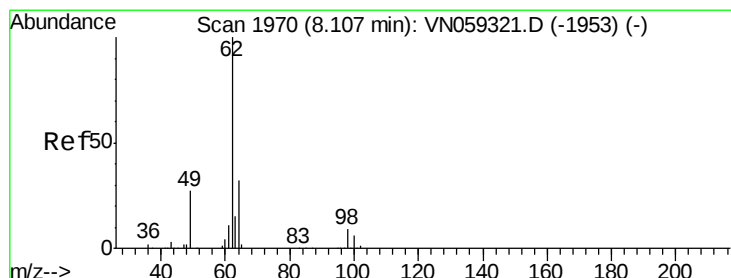
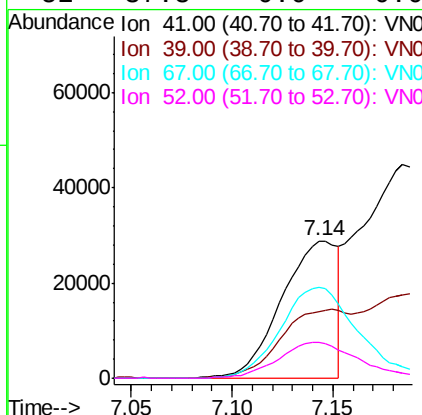
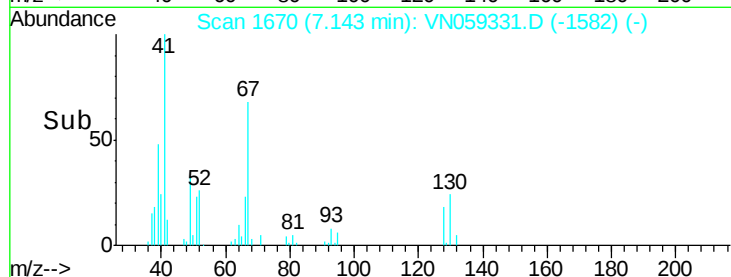
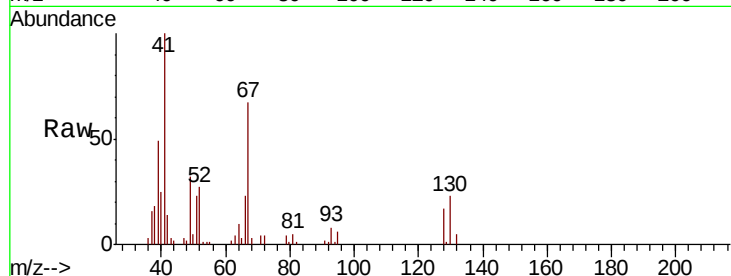
#41
Methacrylonitrile
Concen: 14.755 ug/l
RT: 7.14 min Scan# 1670
Delta R.T. -0.02 min
Lab File: VN059331.D
Acq: 21 Nov 2019 13:39

Instrument :
MSVOA_N
ClientSampleId :
VN1121WBS01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
41	100		55387		
39	61.0	0.0	0.0#		
67	92.8	0.0	0.0#		
52	37.8	0.0	0.0#		

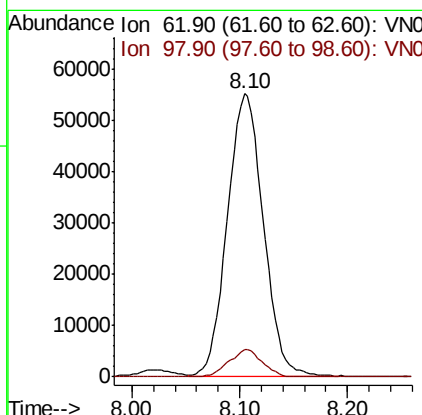
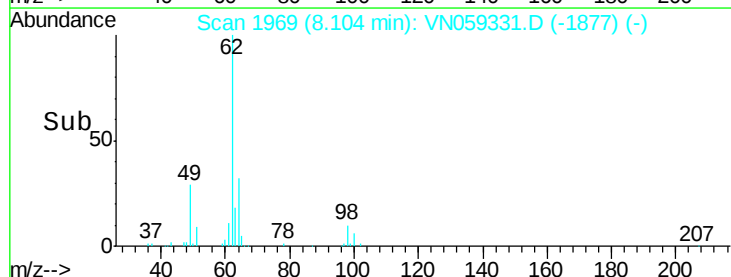
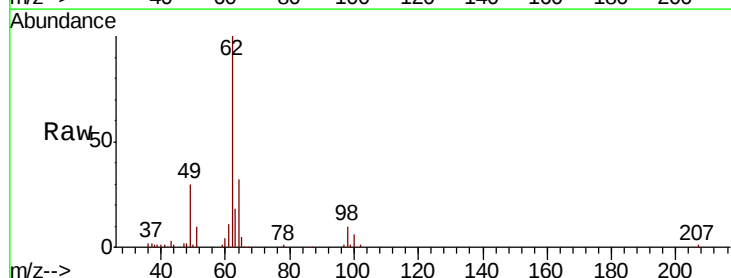
Manual Integrations
APPROVED

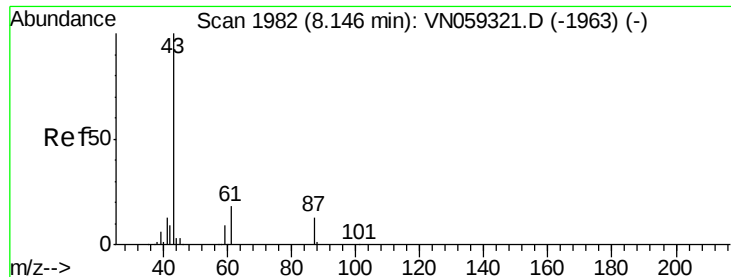
MMDadoda
11/22/2019 3:11:58 PM



#42
1,2-Dichloroethane
Concen: 16.766 ug/l
RT: 8.10 min Scan# 1969
Delta R.T. -0.00 min
Lab File: VN059331.D
Acq: 21 Nov 2019 13:39

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
62	100		128054		
98	9.0	0.0	18.6		





#43

Isopropyl Acetate

Concen: 16.252 ug/l

RT: 8.15 min Scan# 1982

Delta R.T. 0.00 min

Lab File: VN059331.D

Acq: 21 Nov 2019 13:39

Instrument :

MSVOA_N

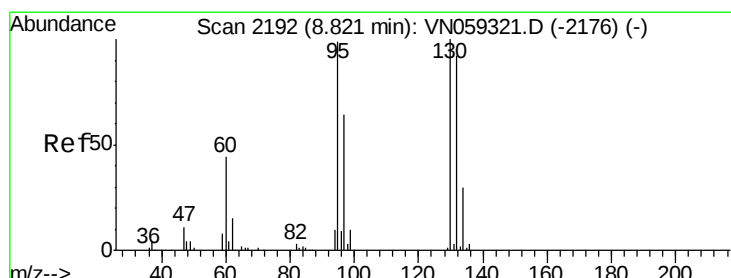
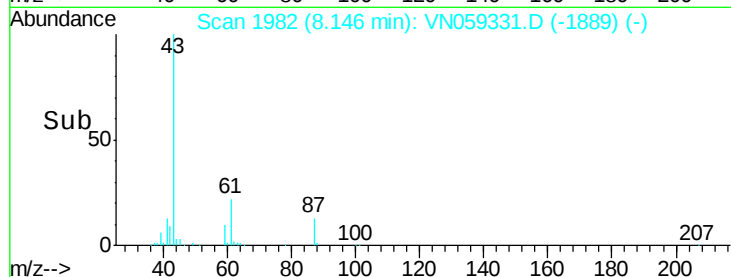
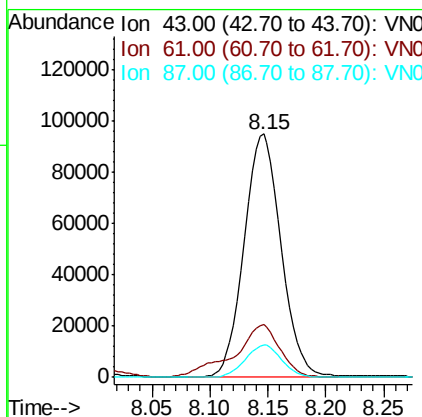
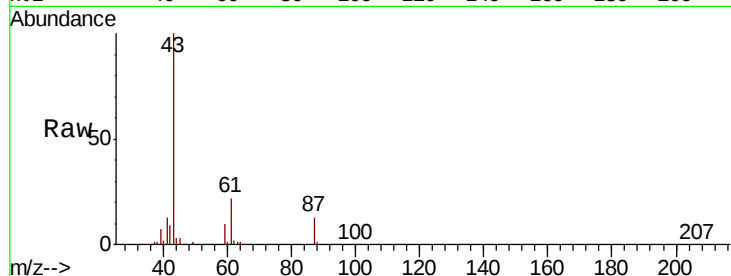
ClientSampleId :

VN1121WBS01

Tot Ion:	43	Resp:	210033
Ion	Ratio	Lower	Upper
43	100		
61	27.4	21.7	32.5
87	13.0	10.2	15.4

Manual Integrations
APPROVED

MMDadoda
11/22/2019 3:11:58 PM



#44

Trichloroethene

Concen: 16.842 ug/l

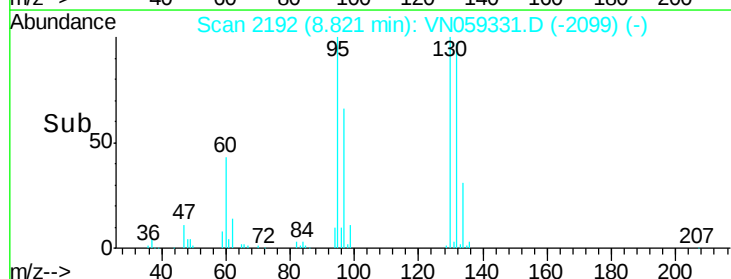
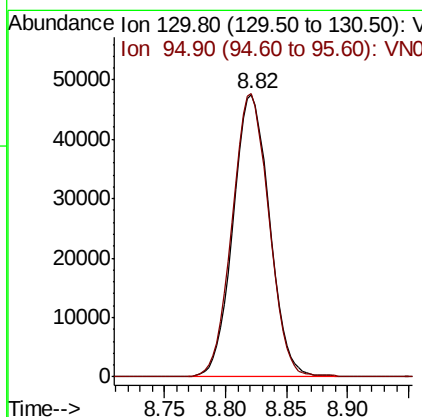
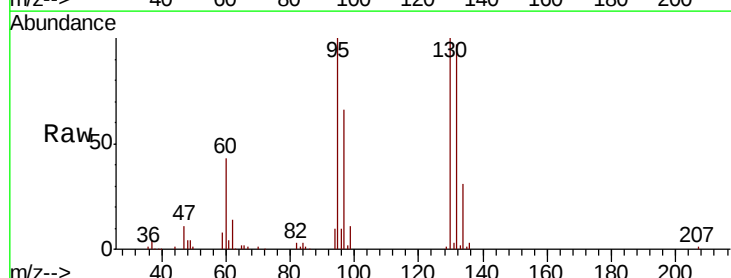
RT: 8.82 min Scan# 2192

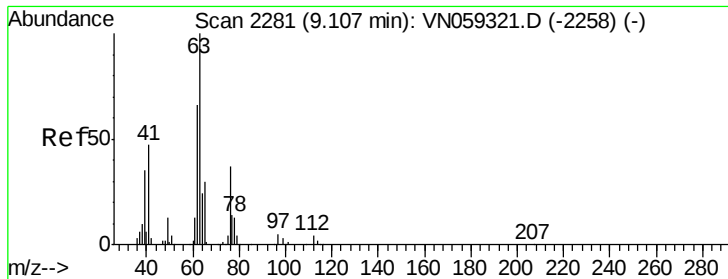
Delta R.T. 0.00 min

Lab File: VN059331.D

Acq: 21 Nov 2019 13:39

Tgt Ion:	130	Resp:	98570
Ion	Ratio	Lower	Upper
130	100		
95	100.1	0.0	198.4





#45

1,2-Dichloropropane

Concen: 17.024 ug/l

RT: 9.10 min Scan# 2280

Delta R.T. -0.00 min

Lab File: VN059331.D

Acq: 21 Nov 2019 13:39

Instrument :

MSVOA_N

ClientSampleId :

VN1121WBS01

Tot Ion: 63 Resp: 104831

Ion Ratio Lower Upper

63 100

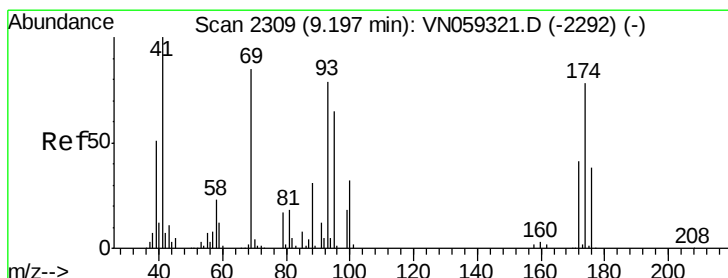
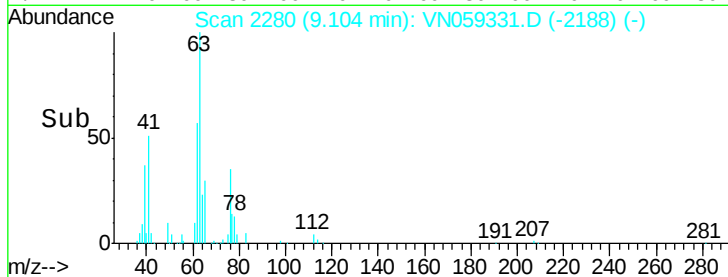
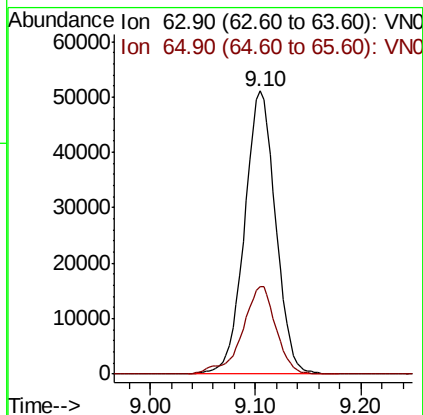
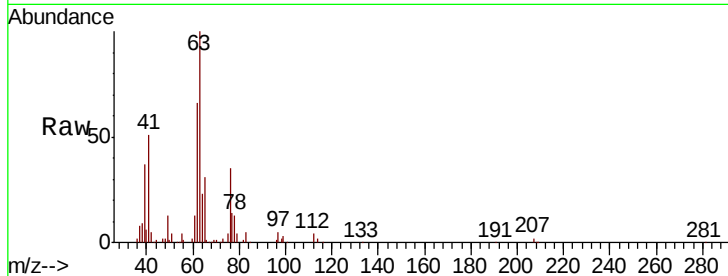
65 30.9 23.9 35.9

Manual Integrations

APPROVED

MMDadoda

11/22/2019 3:11:58 PM



#46

Dibromomethane

Concen: 16.948 ug/l

RT: 9.19 min Scan# 2308

Delta R.T. -0.00 min

Lab File: VN059331.D

Acq: 21 Nov 2019 13:39

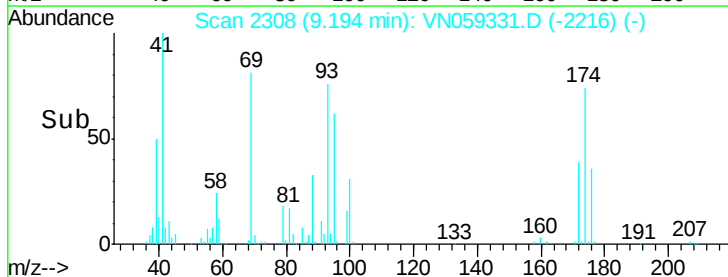
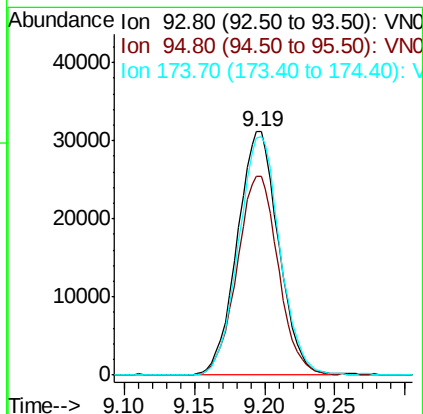
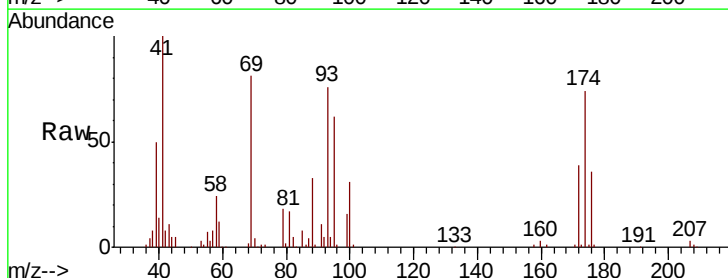
Tgt Ion: 93 Resp: 64014

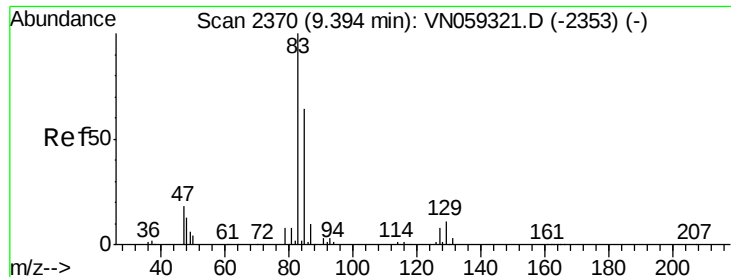
Ion Ratio Lower Upper

93 100

95 81.3 66.9 100.3

174 97.9 80.6 120.8





#47

Bromodichloromethane

Concen: 16.952 ug/l

RT: 9.39 min Scan# 2369

Delta R.T. -0.00 min

Lab File: VN059331.D

Acq: 21 Nov 2019 13:39

Instrument :

MSVOA_N

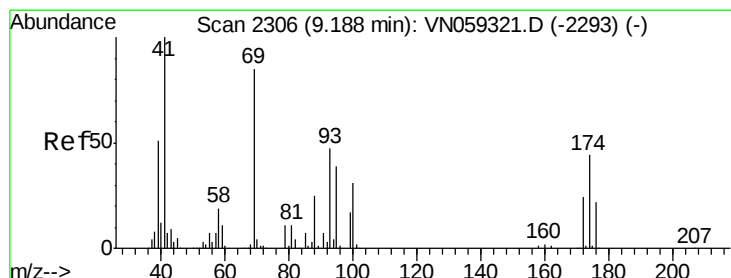
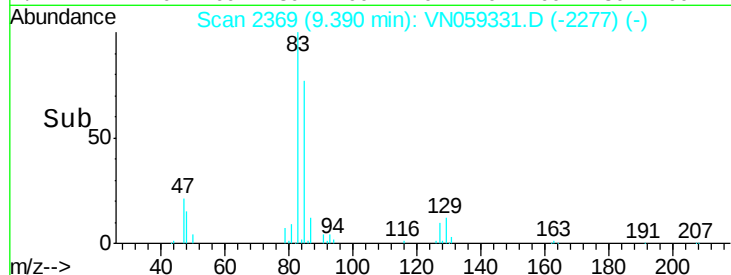
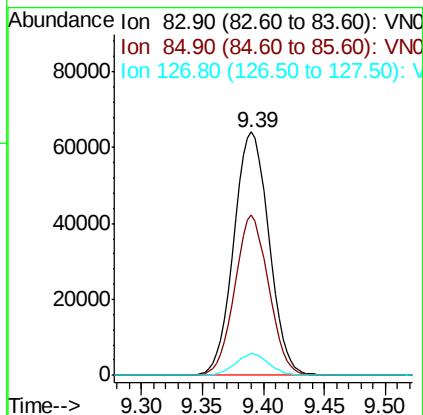
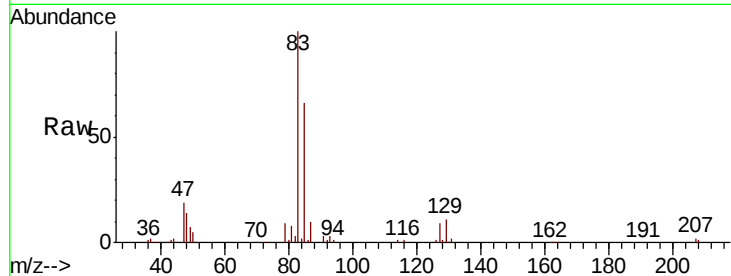
ClientSampleId :

VN1121WBS01

Tot Ion:	83	Resp:	128235
Ion Ratio	Lower	Upper	
83	100		
85	66.0	51.5	77.3
127	8.9	6.6	10.0

Manual Integrations
APPROVED

MMDadoda
11/22/2019 3:11:58 PM



#48

Methyl methacrylate

Concen: 15.577 ug/l

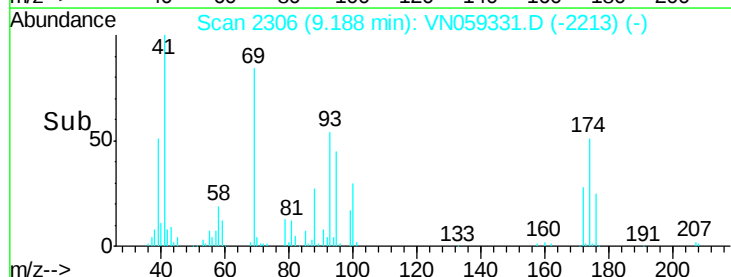
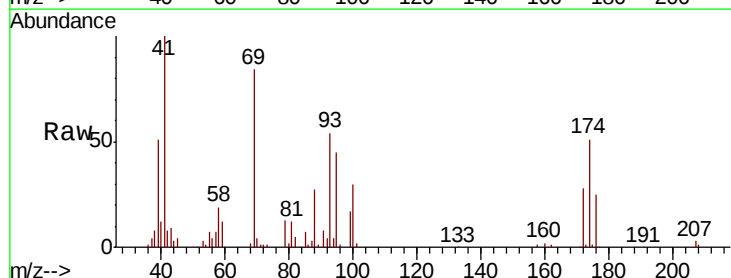
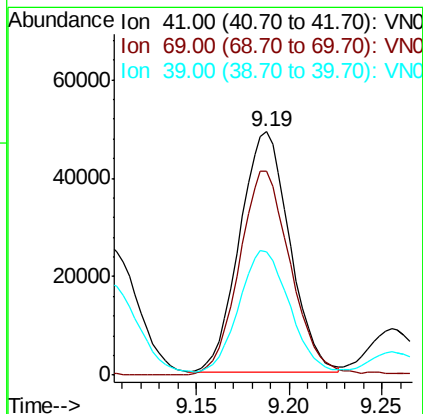
RT: 9.19 min Scan# 2306

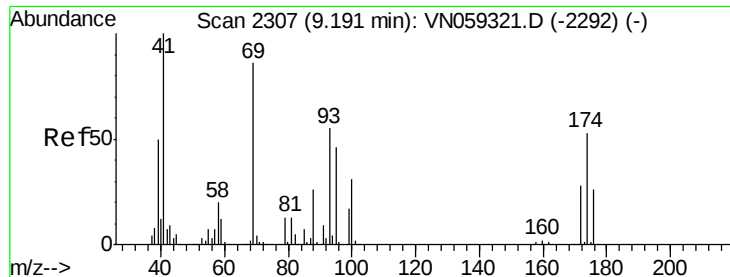
Delta R.T. 0.00 min

Lab File: VN059331.D

Acq: 21 Nov 2019 13:39

Tgt Ion:	41	Resp:	91542
Ion Ratio	Lower	Upper	
41	100		
69	87.0	68.8	103.2
39	53.3	42.1	63.1





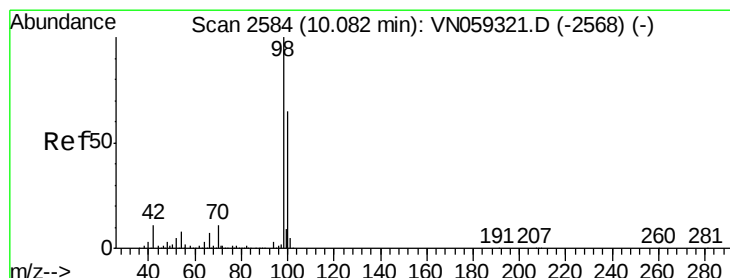
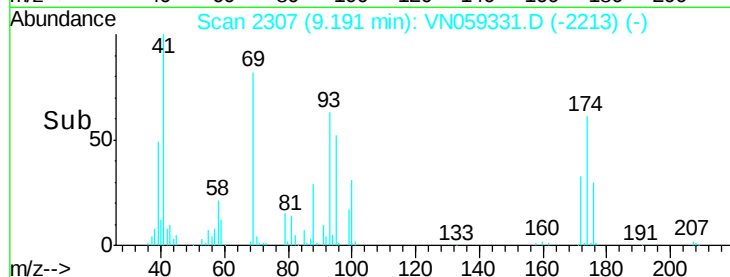
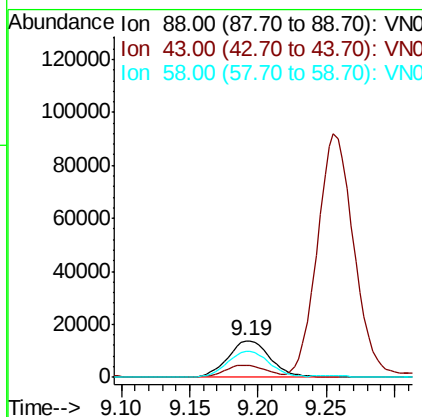
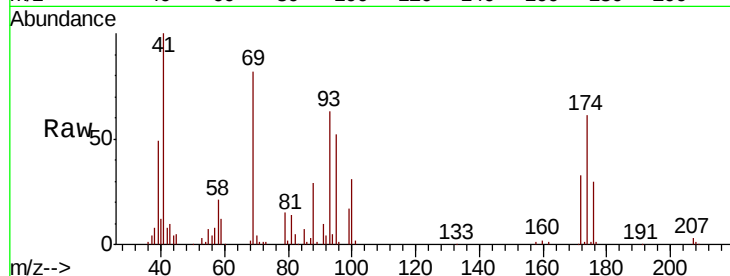
#49
1,4-Dioxane
Concen: 339.181 ug/l
RT: 9.19 min Scan# 2307
Delta R.T. 0.00 min
Lab File: VN059331.D
Acq: 21 Nov 2019 13:39

Instrument :
MSVOA_N
ClientSampleId :
VN1121WBS01

Tot Ion	Ratio	Lower	Upper
88	100		
43	32.5	26.9	40.3
58	70.5	59.2	88.8

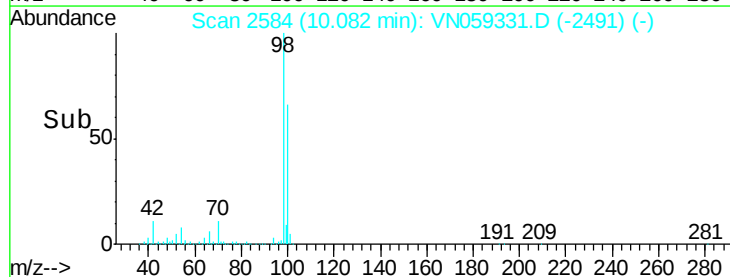
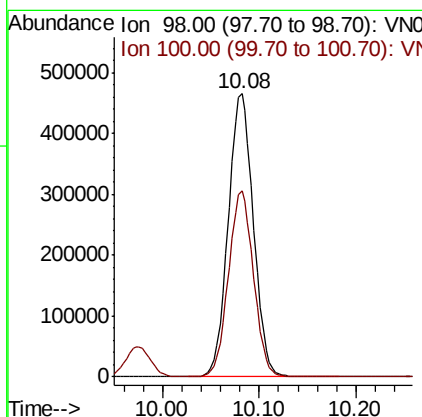
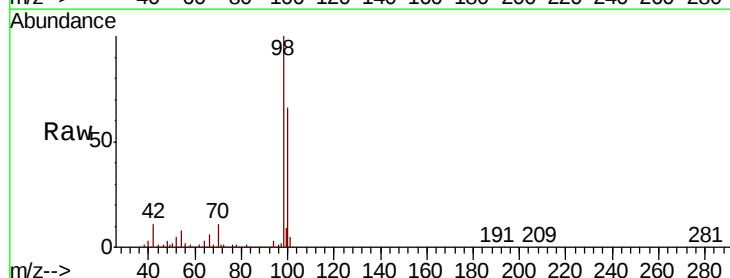
Manual Integrations
APPROVED

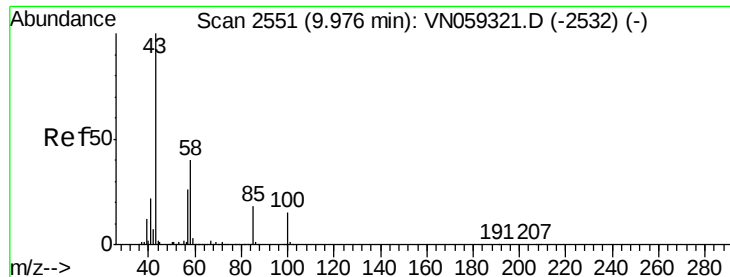
MMDadoda
11/22/2019 3:11:58 PM



#50
Toluene-d8
Concen: 46.301 ug/l
RT: 10.08 min Scan# 2584
Delta R.T. 0.00 min
Lab File: VN059331.D
Acq: 21 Nov 2019 13:39

Tgt Ion	Ratio	Lower	Upper
98	100		
100	65.2	51.7	77.5





#51

4-Methyl-2-Pentanone

Concen: 84.076 ug/l

RT: 9.97 min Scan# 2550

Delta R.T. -0.00 min

Lab File: VN059331.D

Acq: 21 Nov 2019 13:39

Instrument :

MSVOA_N

ClientSampleId :

VN1121WBS01

Tot Ion: 43 Resp: 635979

Ion Ratio Lower Upper

43 100

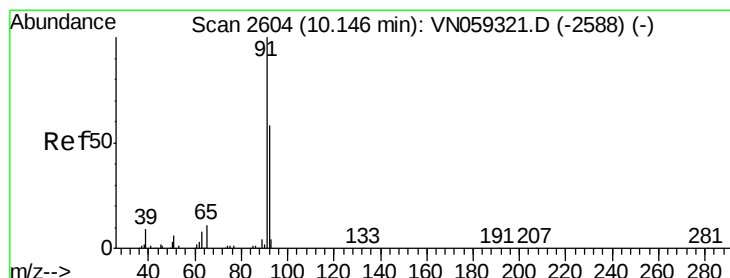
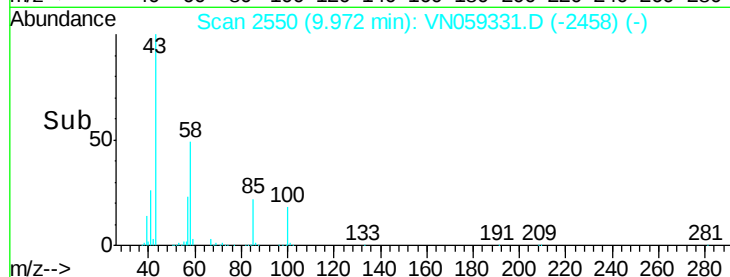
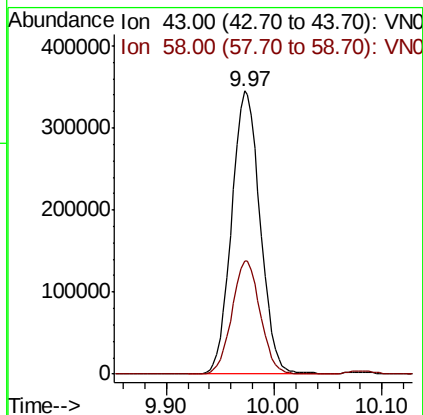
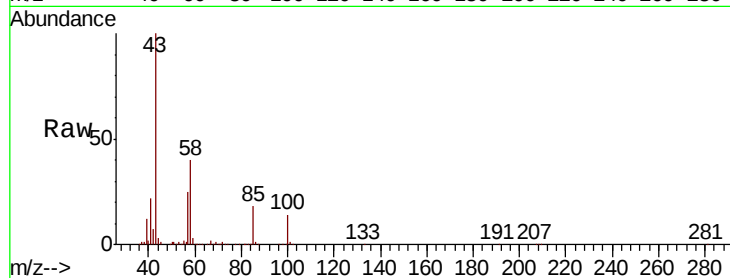
58 39.6 31.8 47.8

Manual Integrations

APPROVED

MMDadoda

11/22/2019 3:11:58 PM



#52

Toluene

Concen: 16.812 ug/l

RT: 10.15 min Scan# 2604

Delta R.T. 0.00 min

Lab File: VN059331.D

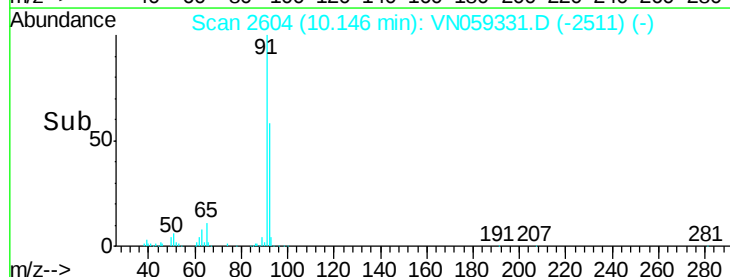
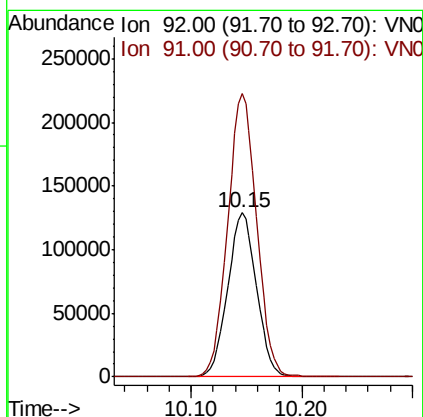
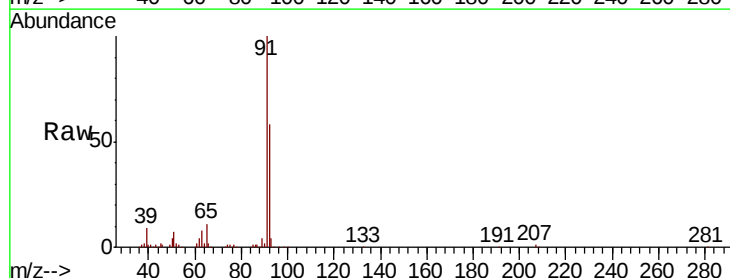
Acq: 21 Nov 2019 13:39

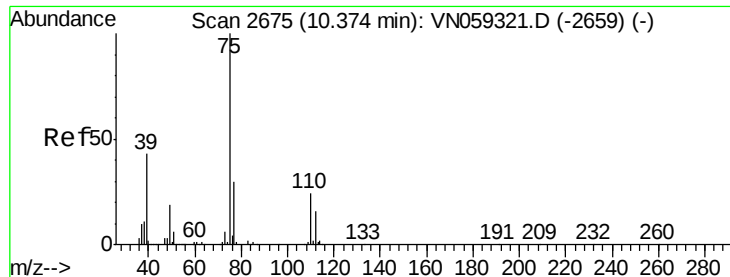
Tgt Ion: 92 Resp: 233452

Ion Ratio Lower Upper

92 100

91 173.2 137.9 206.9





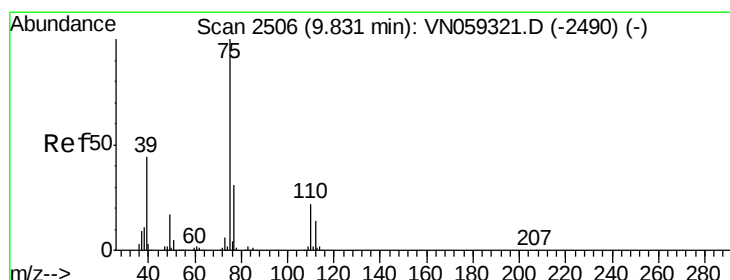
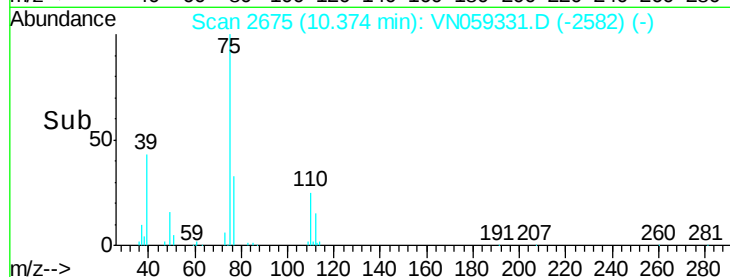
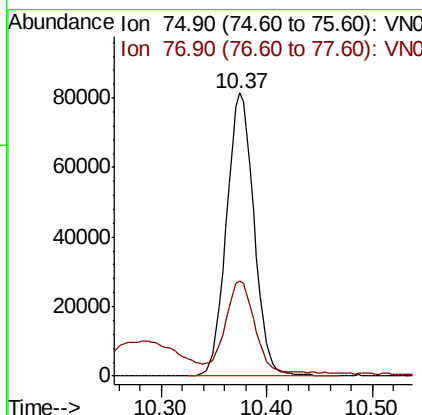
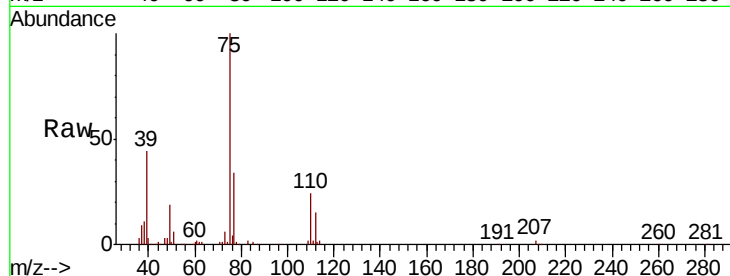
#53
t-1,3-Dichloropropene
Concen: 16.666 ug/l
RT: 10.37 min Scan# 2675
Delta R.T. 0.00 min
Lab File: VN059331.D
Acq: 21 Nov 2019 13:39

Instrument :
MSVOA_N
ClientSampleId :
VN1121WBS01

Tot Ion	Ratio	Lower	Upper
75	100		
77	32.5	25.5	38.3

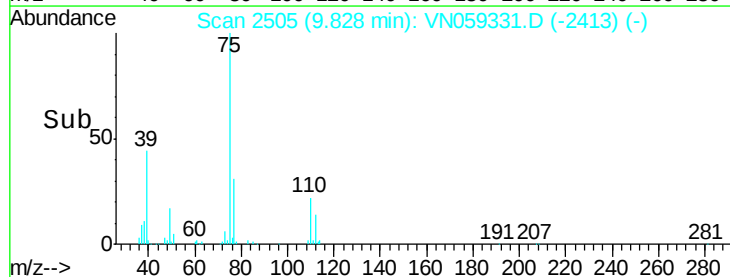
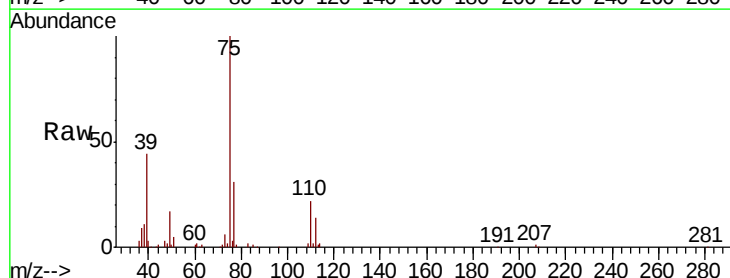
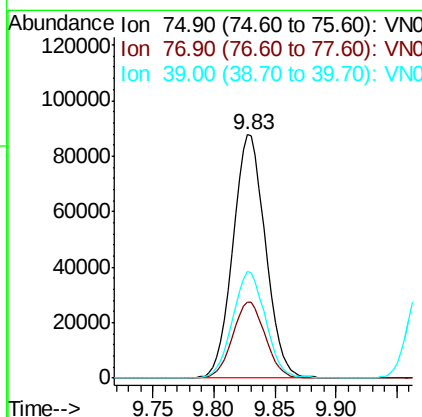
Manual Integrations
APPROVED

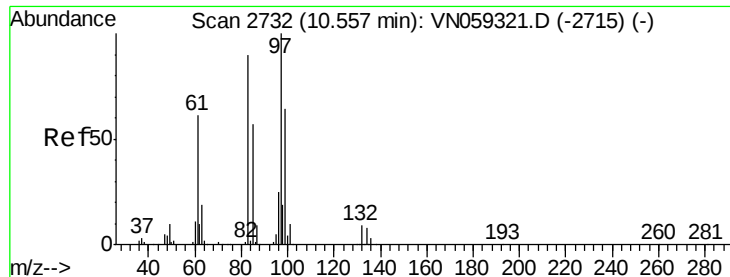
MMDadoda
11/22/2019 3:11:58 PM



#54
cis-1,3-Dichloropropene
Concen: 17.024 ug/l
RT: 9.83 min Scan# 2505
Delta R.T. -0.00 min
Lab File: VN059331.D
Acq: 21 Nov 2019 13:39

Tgt Ion	Ratio	Lower	Upper
75	100		
77	31.3	25.0	37.4
39	43.6	35.5	53.3





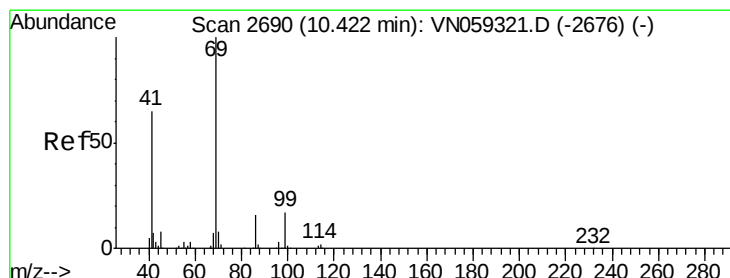
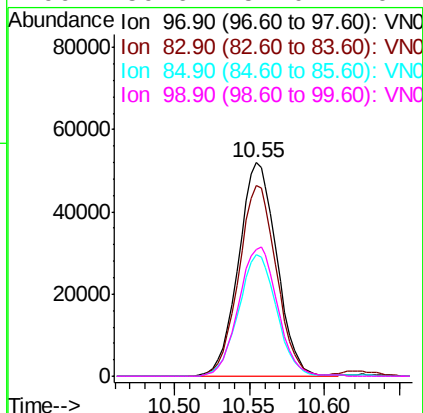
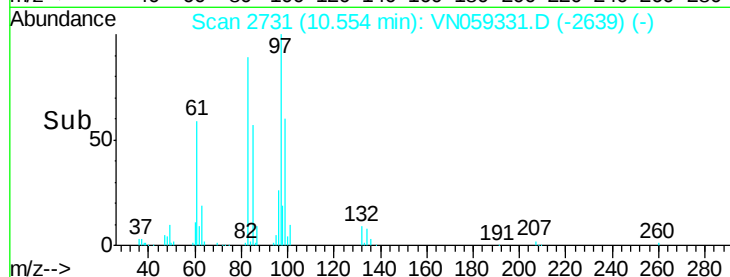
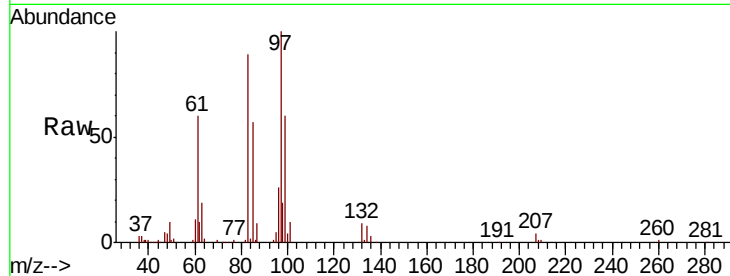
#55
 1,1,2-Trichloroethane
 Concen: 17.118 ug/l
 RT: 10.55 min Scan# 2731
 Delta R.T. -0.00 min
 Lab File: VN059331.D
 Acq: 21 Nov 2019 13:39

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1121WBS01

Tot Ion:	97	Resp:	92419
Ion	Ratio	Lower	Upper
97	100		
83	89.0	72.0	108.0
85	56.8	45.8	68.6
99	59.6	51.0	76.4

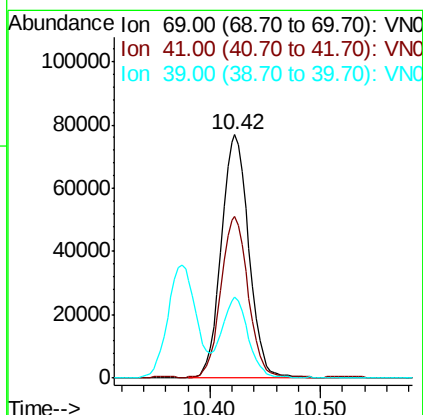
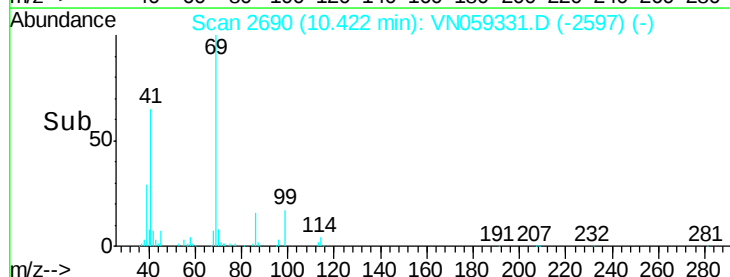
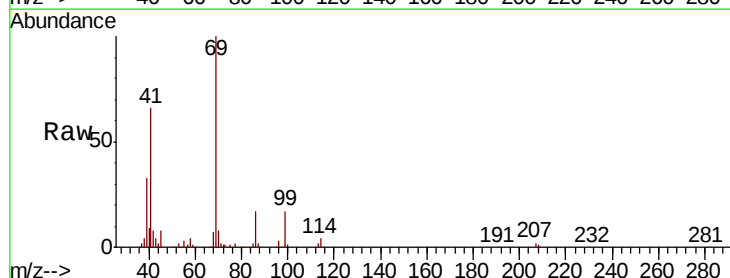
Manual Integrations
 APPROVED

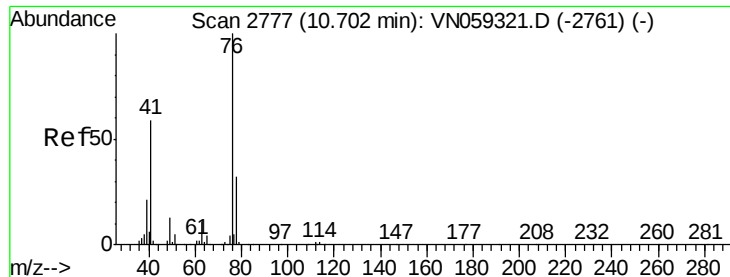
MMDadoda
 11/22/2019 3:11:58 PM



#56
 Ethyl methacrylate
 Concen: 16.146 ug/l
 RT: 10.42 min Scan# 2690
 Delta R.T. 0.00 min
 Lab File: VN059331.D
 Acq: 21 Nov 2019 13:39

Tgt Ion:	69	Resp:	133067
Ion	Ratio	Lower	Upper
69	100		
41	64.8	51.7	77.5
39	31.5	25.2	37.8





#57

1,3-Dichloropropane

Concen: 16.716 ug/l

RT: 10.70 min Scan# 2777

Delta R.T. 0.00 min

Lab File: VN059331.D

Acq: 21 Nov 2019 13:39

Instrument :

MSVOA_N

ClientSampleId :

VN1121WBS01

Tot Ion: 76 Resp: 157291

Ion Ratio Lower Upper

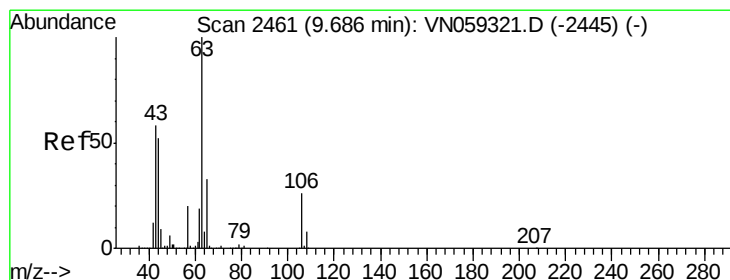
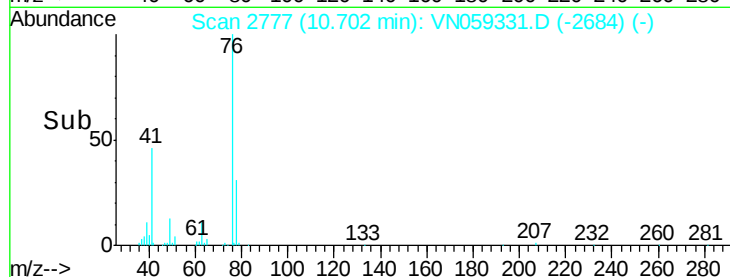
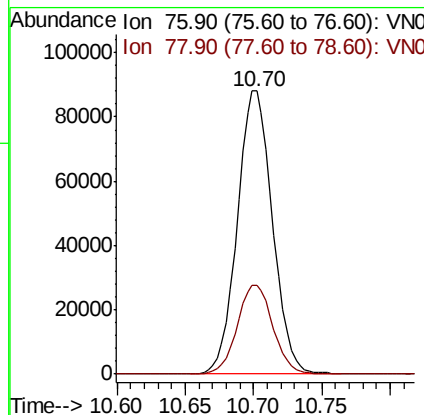
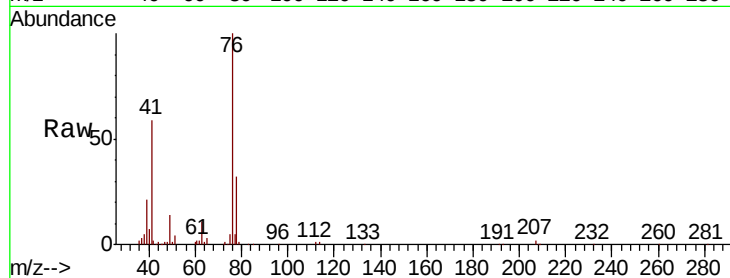
76 100

78 31.9 26.0 39.0

Manual Integrations
APPROVED

MMDadoda

11/22/2019 3:11:58 PM



#58

2-Chloroethyl Vinyl ether

Concen: 84.899 ug/l

RT: 9.68 min Scan# 2460

Delta R.T. -0.00 min

Lab File: VN059331.D

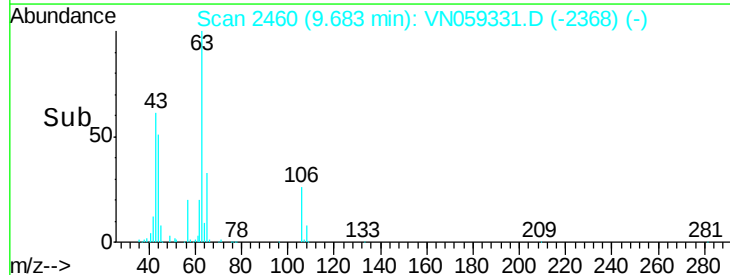
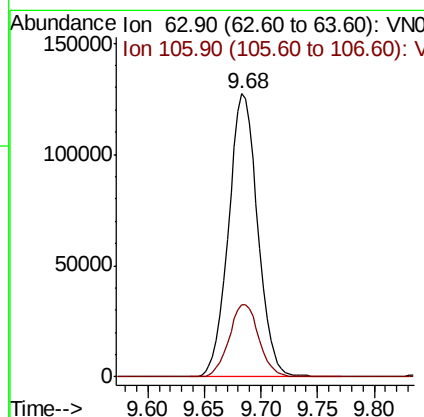
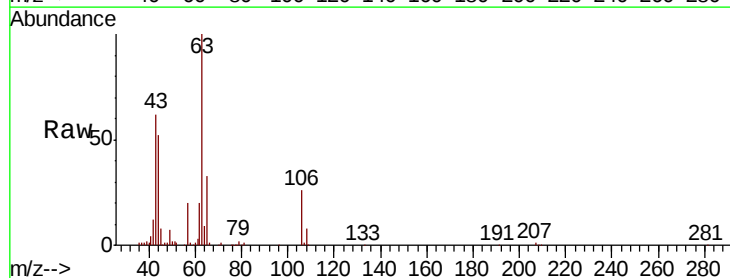
Acq: 21 Nov 2019 13:39

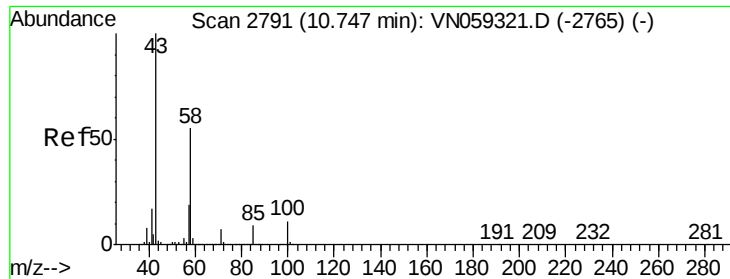
Tgt Ion: 63 Resp: 228733

Ion Ratio Lower Upper

63 100

106 26.1 20.5 30.7





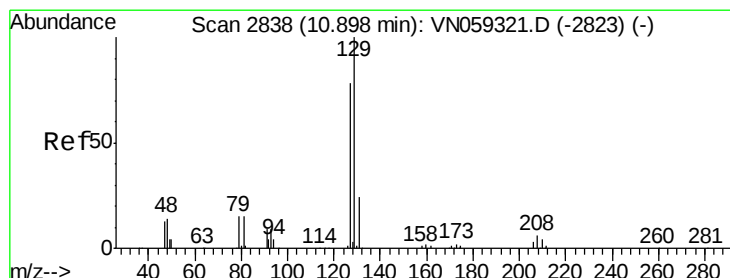
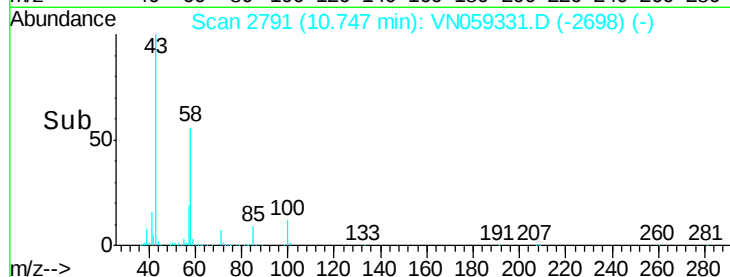
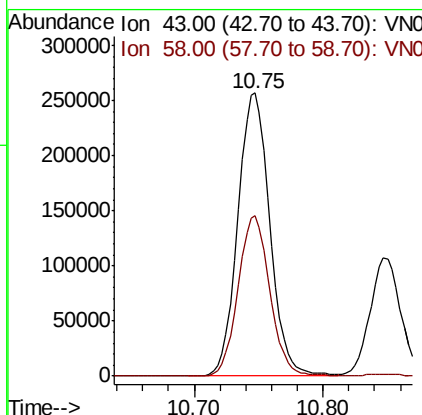
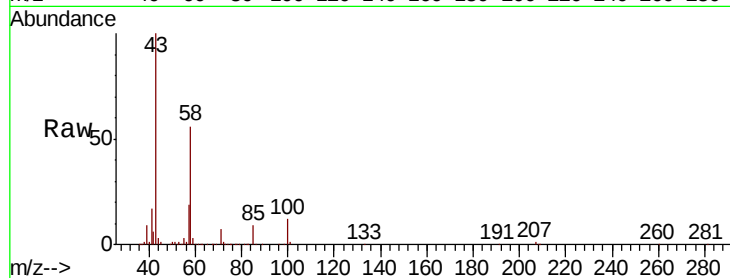
#59
2-Hexanone
Concen: 79.909 ug/l
RT: 10.75 min Scan# 2791
Delta R.T. 0.00 min
Lab File: VN059331.D
Acq: 21 Nov 2019 13:39

Instrument :
MSVOA_N
ClientSampleId :
VN1121WBS01

Tot Ion: 43 Resp: 442613
Ion Ratio Lower Upper
43 100
58 56.3 27.7 83.0

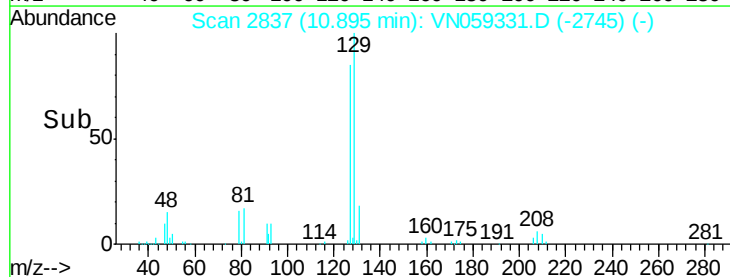
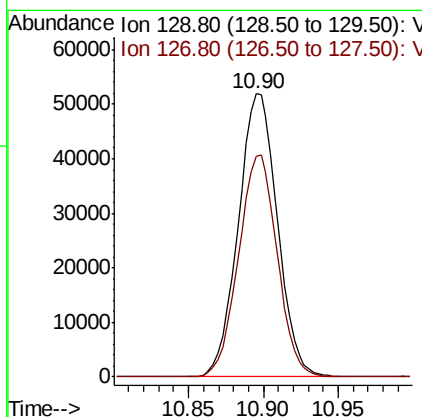
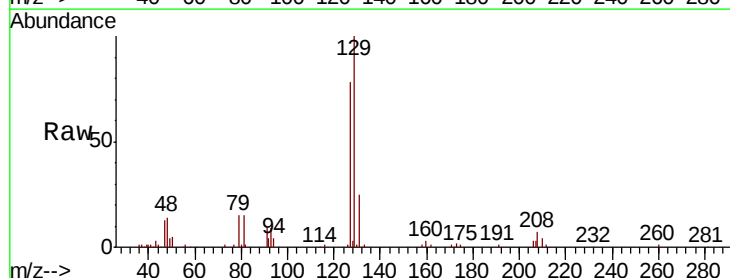
Manual Integrations
APPROVED

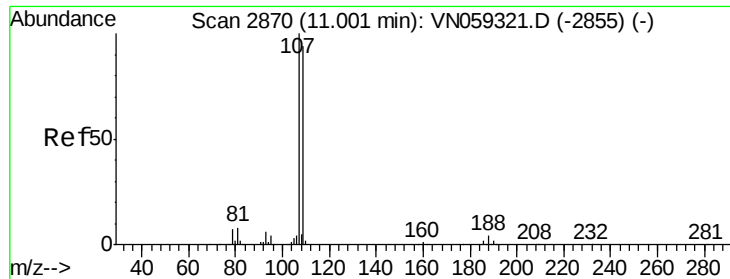
MMDadoda
11/22/2019 3:11:58 PM



#60
Dibromochloromethane
Concen: 16.639 ug/l
RT: 10.90 min Scan# 2837
Delta R.T. -0.00 min
Lab File: VN059331.D
Acq: 21 Nov 2019 13:39

Tgt Ion: 129 Resp: 94662
Ion Ratio Lower Upper
129 100
127 77.2 38.5 115.5





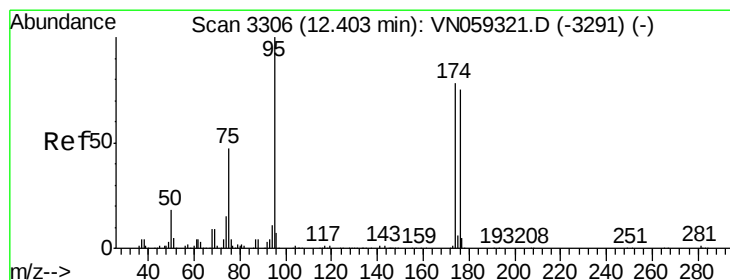
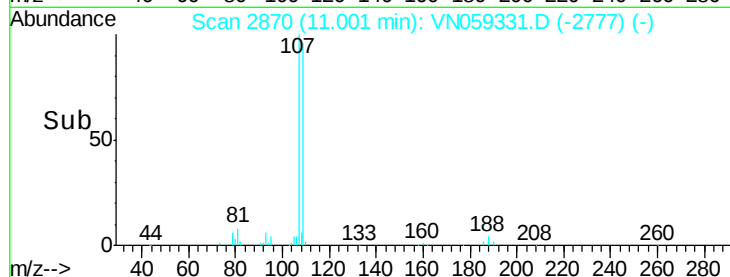
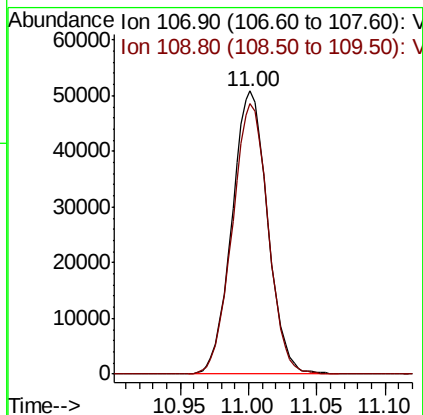
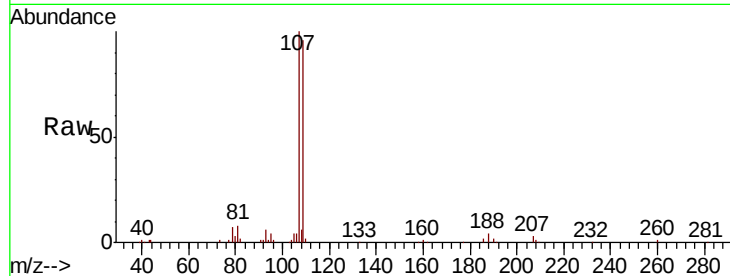
#61
 1,2-Dibromoethane
 Concen: 16.431 ug/l
 RT: 11.00 min Scan# 2870
 Delta R.T. 0.00 min
 Lab File: VN059331.D
 Acq: 21 Nov 2019 13:39

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1121WBS01

Tot Ion	Ratio	Lower	Upper
107	100		
109	95.9	75.4	113.2

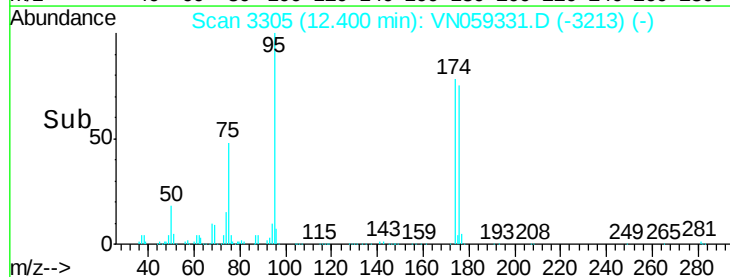
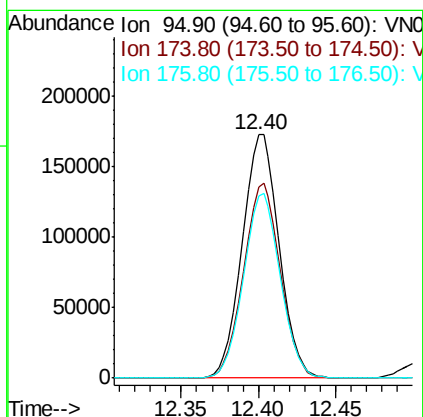
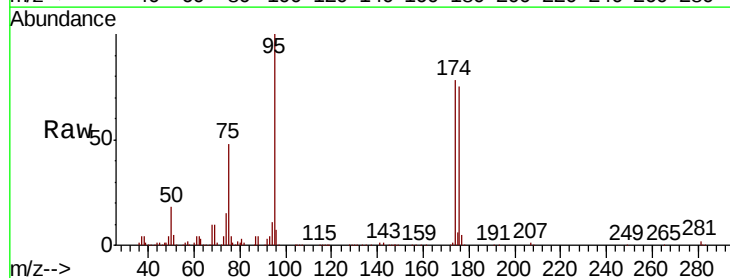
Manual Integrations
 APPROVED

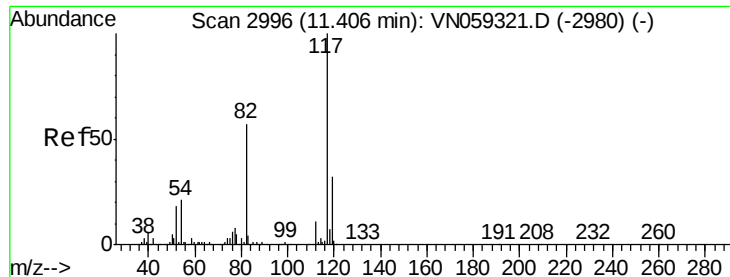
MMDadoda
 11/22/2019 3:11:58 PM



#62
 4-Bromofluorobenzene
 Concen: 45.095 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. -0.00 min
 Lab File: VN059331.D
 Acq: 21 Nov 2019 13:39

Tgt Ion	Ratio	Lower	Upper
95	100		
174	79.8	0.0	157.4
176	75.8	0.0	151.2





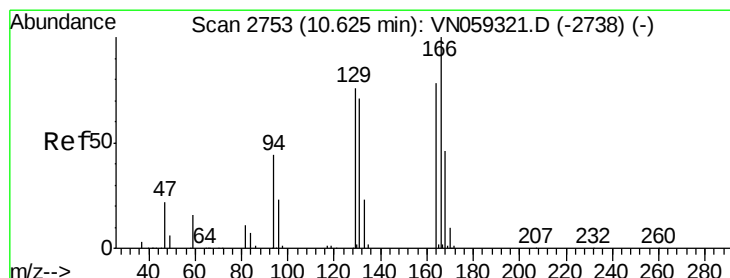
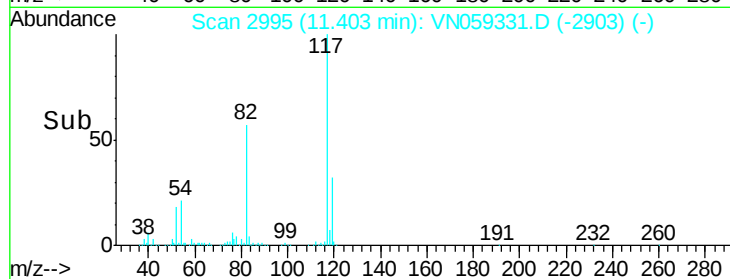
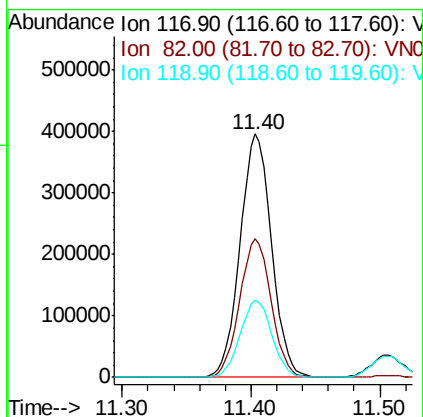
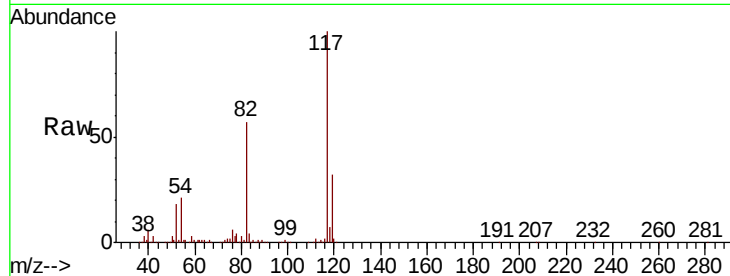
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2995
Delta R.T. -0.00 min
Lab File: VN059331.D
Acq: 21 Nov 2019 13:39

Instrument :
MSVOA_N
ClientSampleId :
VN1121WBS01

Tot Ion	Ratio	Lower	Upper
117	100		
82	56.9	45.7	68.5
119	31.7	25.8	38.6

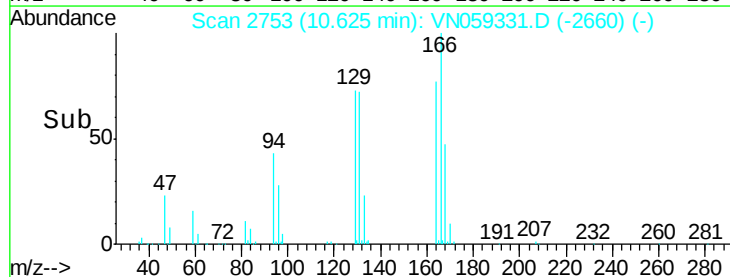
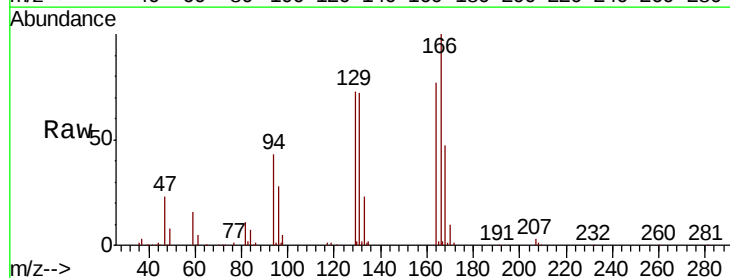
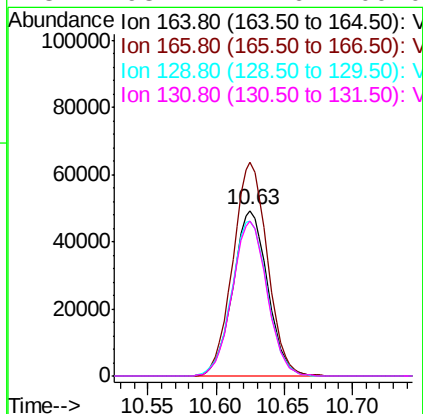
Manual Integrations
APPROVED

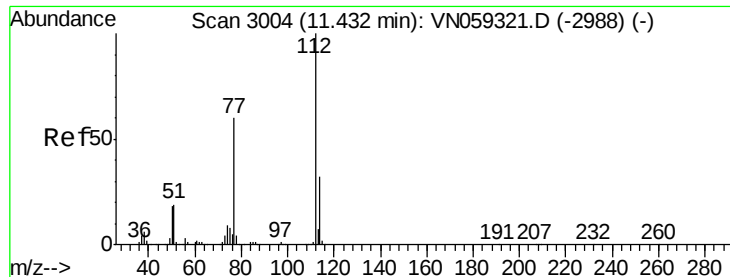
MMDadoda
11/22/2019 3:11:58 PM



#64
Tetrachloroethene
Concen: 16.754 ug/l
RT: 10.63 min Scan# 2753
Delta R.T. 0.00 min
Lab File: VN059331.D
Acq: 21 Nov 2019 13:39

Tgt Ion	Ratio	Lower	Upper
164	100		
166	129.1	102.9	154.3
129	94.0	78.2	117.2
131	93.4	72.6	109.0





#65

Chlorobenzene

Concen: 16.883 ug/l

RT: 11.43 min Scan# 3003

Delta R.T. -0.00 min

Lab File: VN059331.D

Acq: 21 Nov 2019 13:39

Instrument :

MSVOA_N

ClientSampleId :

VN1121WBS01

Tot Ion:112 Resp: 243589

Ion Ratio Lower Upper

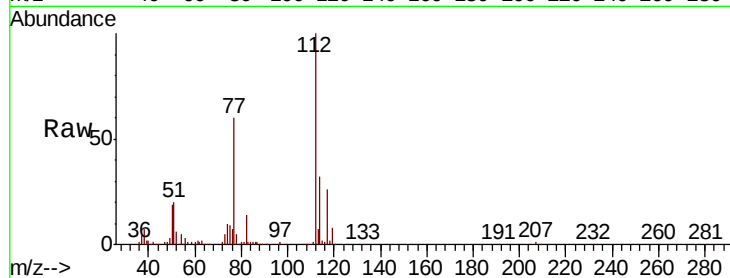
112 100

114 31.9 25.8 38.6

Manual Integrations
APPROVED

MMDadoda

11/22/2019 3:11:58 PM



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V

11.43

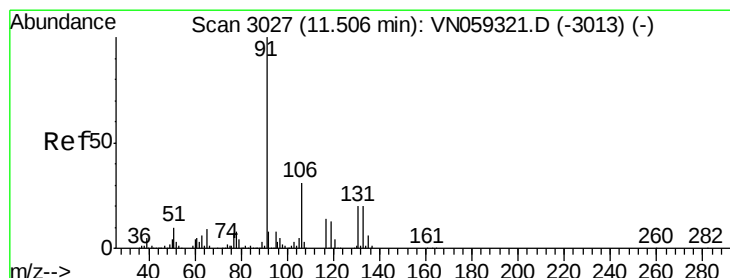
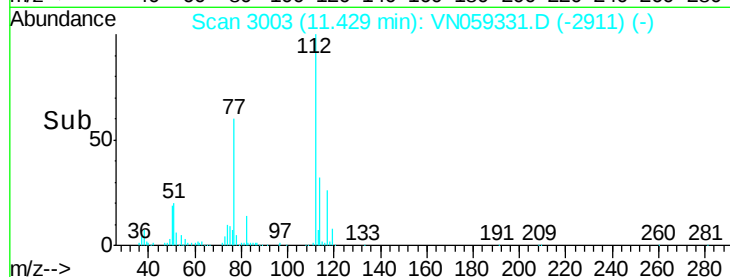
150000

100000

50000

0

Time-->



#66

1,1,1,2-Tetrachloroethane

Concen: 17.027 ug/l

RT: 11.51 min Scan# 3027

Delta R.T. 0.00 min

Lab File: VN059331.D

Acq: 21 Nov 2019 13:39

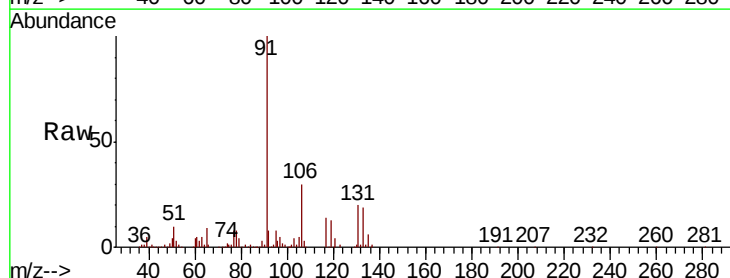
Tgt Ion:131 Resp: 89243

Ion Ratio Lower Upper

131 100

133 95.4 48.2 144.6

119 67.1 33.6 100.6



Abundance Ion 130.80 (130.50 to 131.50): V

Ion 132.80 (132.50 to 133.50): V

Ion 118.80 (118.50 to 119.50): V

120000

100000

80000

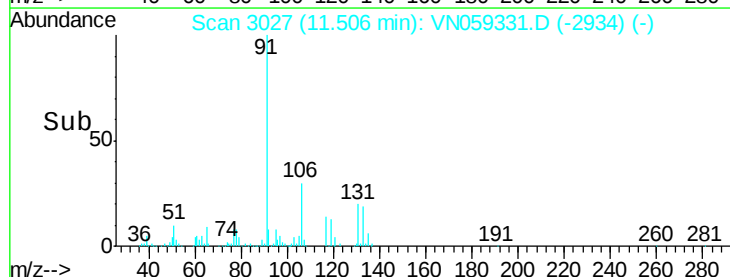
60000

40000

20000

0

Time-->





#67

Ethyl Benzene

Concen: 17.072 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. 0.00 min

Lab File: VN059331.D

Acq: 21 Nov 2019 13:39

Instrument :

MSVOA_N

ClientSampleId :

VN1121WBS01

Tot Ion: 91 Resp: 439785

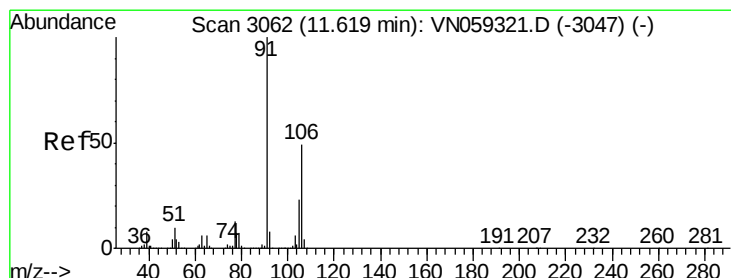
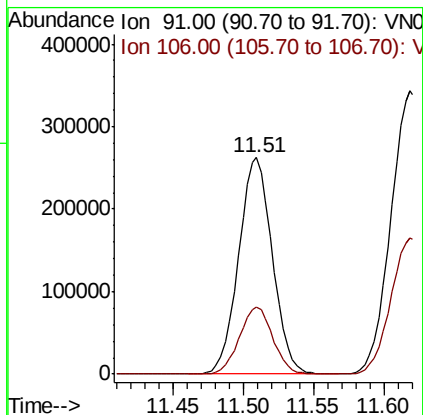
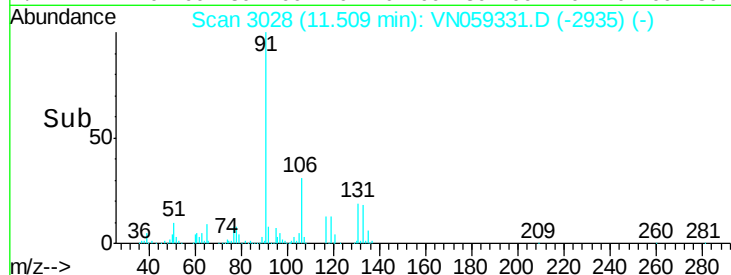
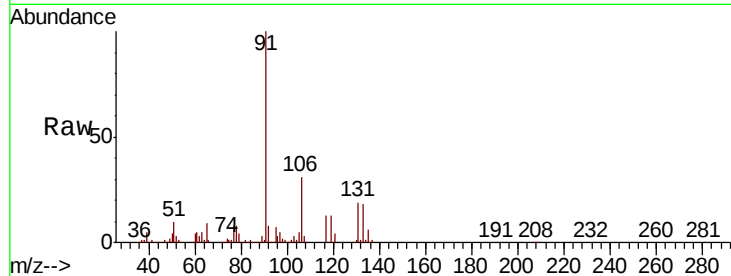
Ion Ratio Lower Upper

91 100

106 31.1 24.6 37.0

Manual Integrations
APPROVED

MMDadoda
11/22/2019 3:11:58 PM



#68

m/p-Xylenes

Concen: 33.931 ug/l

RT: 11.62 min Scan# 3062

Delta R.T. 0.00 min

Lab File: VN059331.D

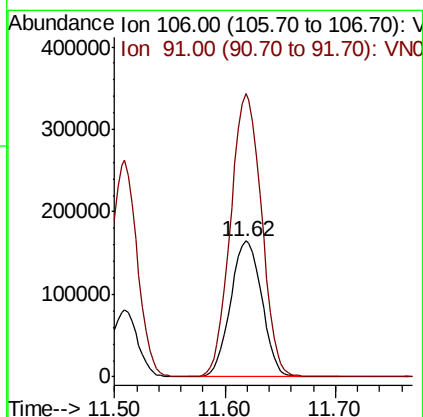
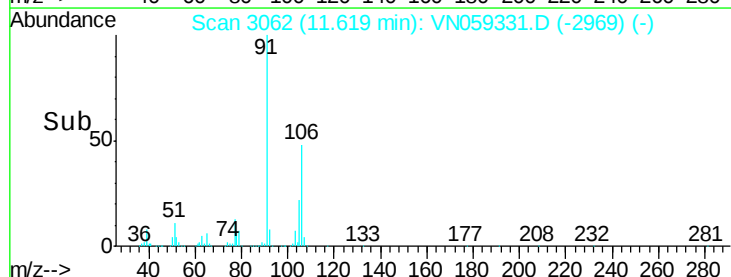
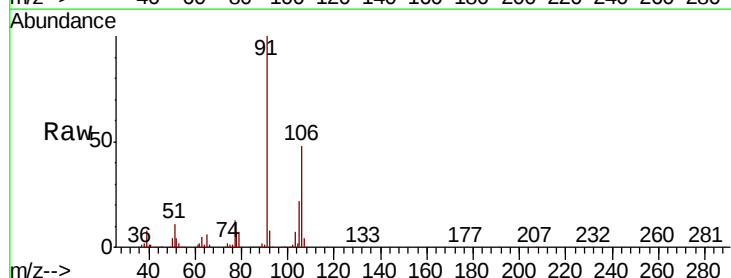
Acq: 21 Nov 2019 13:39

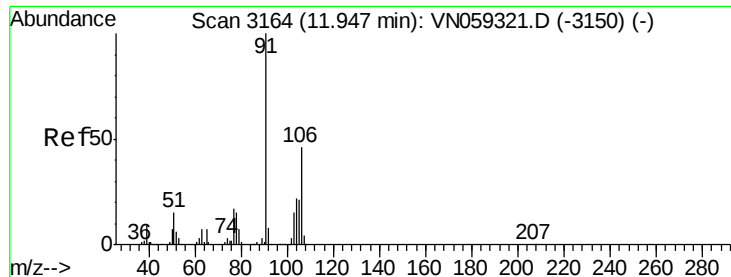
Tgt Ion: 106 Resp: 324798

Ion Ratio Lower Upper

106 100

91 205.4 163.2 244.8





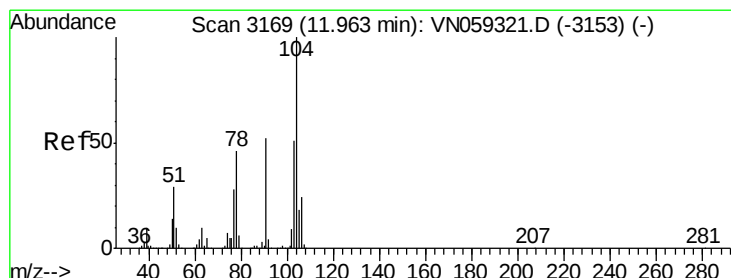
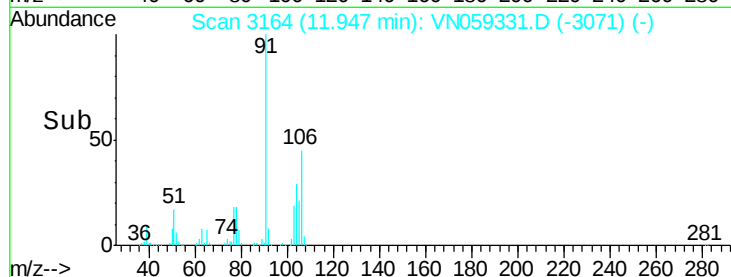
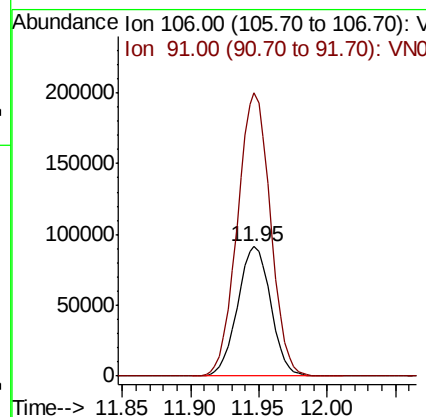
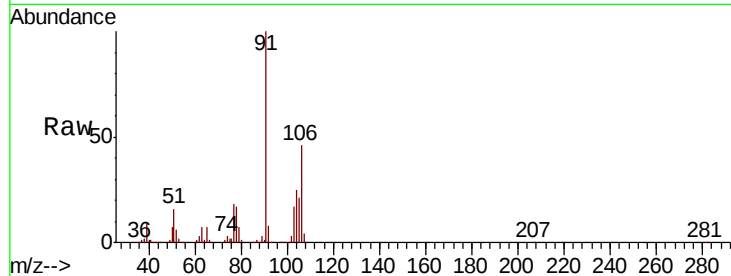
#69
o-Xylene
Concen: 16.844 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. 0.00 min
Lab File: VN059331.D
Acq: 21 Nov 2019 13:39

Instrument :
MSVOA_N
ClientSampleId :
VN1121WBS01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
106	100				
91	218.1	109.3	154361	327.9	

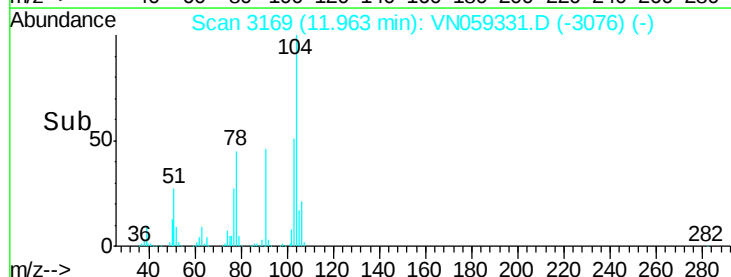
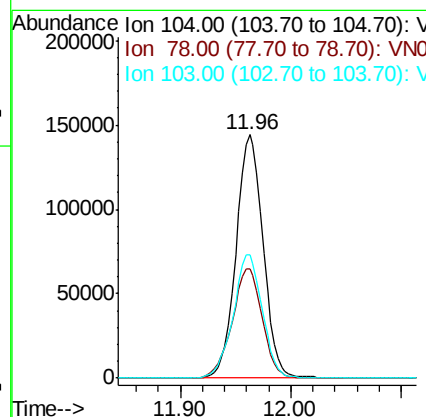
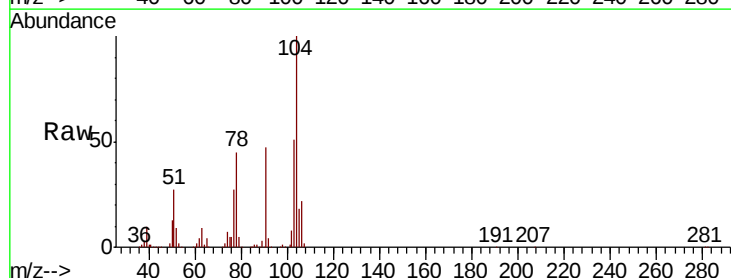
Manual Integrations
APPROVED

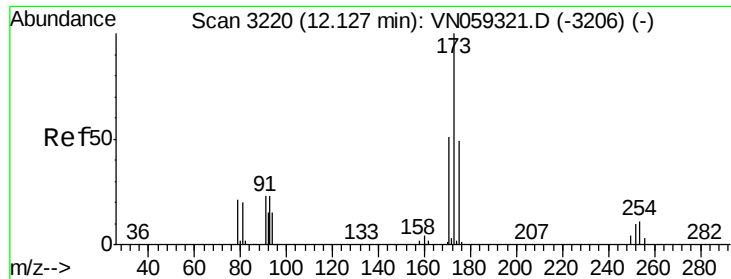
MMDadoda
11/22/2019 3:11:58 PM



#70
Styrene
Concen: 16.957 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. 0.00 min
Lab File: VN059331.D
Acq: 21 Nov 2019 13:39

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
104	100				
78	50.1	40.3	245201	60.5	
103	54.7	43.6		65.4	





#71

Bromoform

Concen: 16.554 ug/l

RT: 12.13 min Scan# 3220

Delta R.T. 0.00 min

Lab File: VN059331.D

Acq: 21 Nov 2019 13:39

Instrument :

MSVOA_N

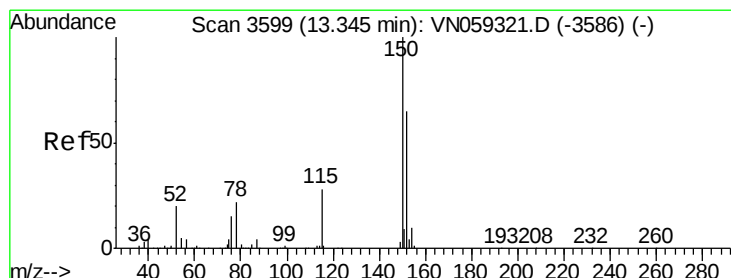
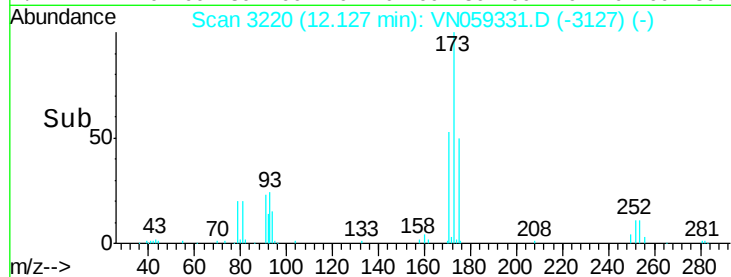
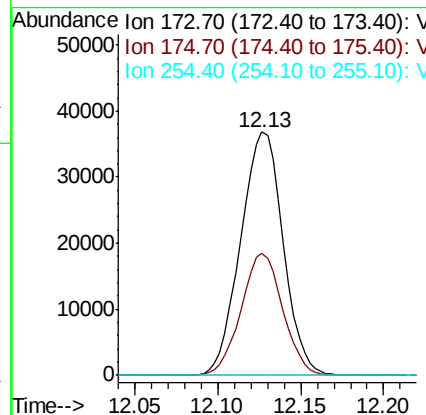
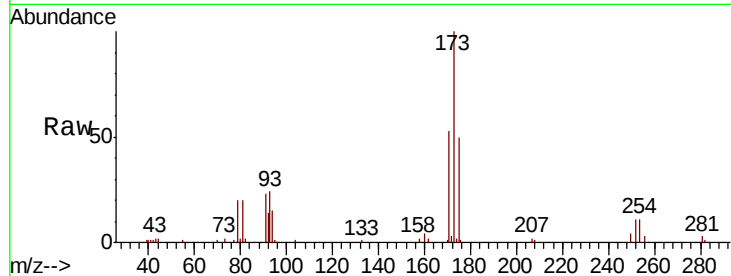
ClientSampleId :

VN1121WBS01

Tot Ion:	173	Resp:	65710
Ion Ratio	Lower	Upper	
173	100		
175	48.9	24.6	73.6
254	0.0	0.1	0.1#

Manual Integrations
APPROVED

MMDadoda
11/22/2019 3:11:58 PM



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

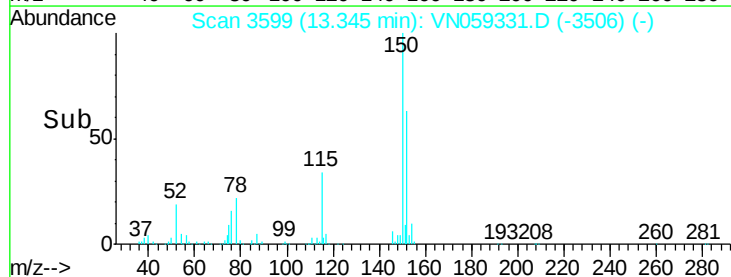
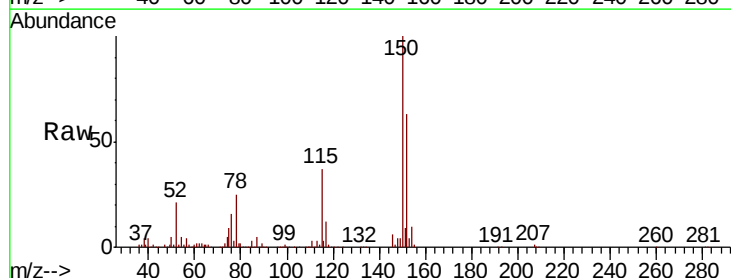
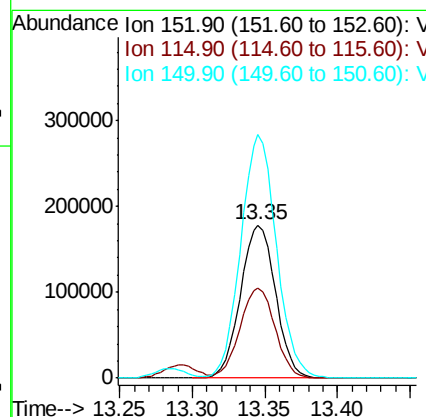
RT: 13.35 min Scan# 3599

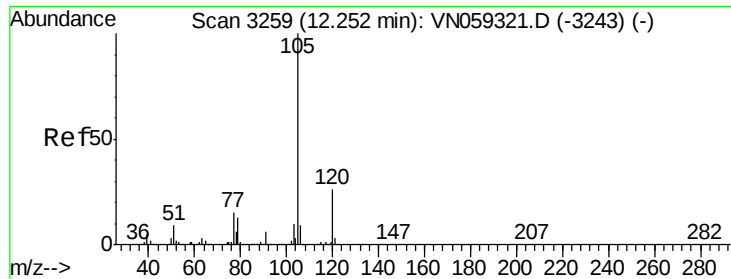
Delta R.T. 0.00 min

Lab File: VN059331.D

Acq: 21 Nov 2019 13:39

Tgt Ion:	152	Resp:	298891
Ion Ratio	Lower	Upper	
152	100		
115	59.3	29.3	88.0
150	162.0	0.0	346.0





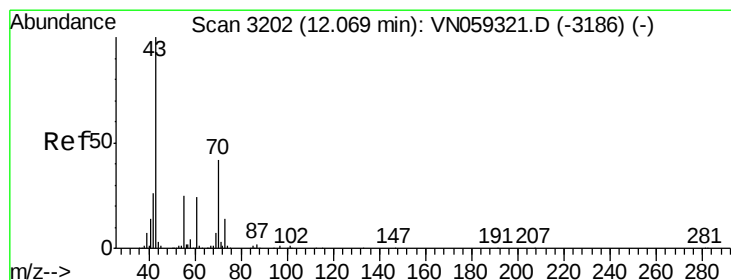
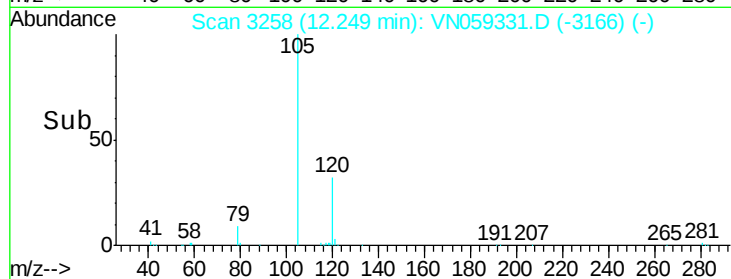
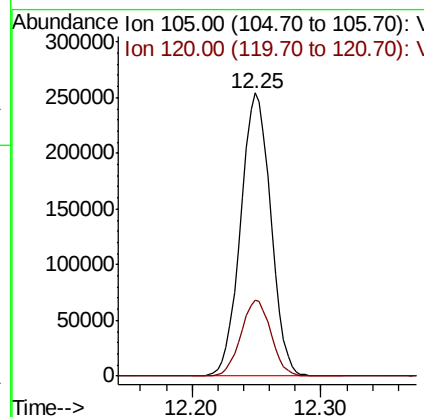
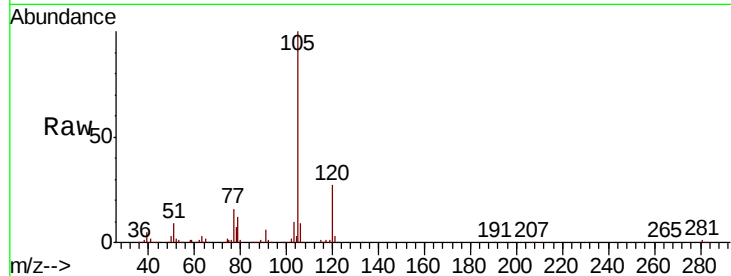
#73
Isopropylbenzene
Concen: 16.890 ug/l
RT: 12.25 min Scan# 3258
Delta R.T. -0.00 min
Lab File: VN059331.D
Acq: 21 Nov 2019 13:39

Instrument :
MSVOA_N
ClientSampleId :
VN1121WBS01

Tot Ion	Ratio	Lower	Upper
105	100		
120	26.7	13.1	39.3

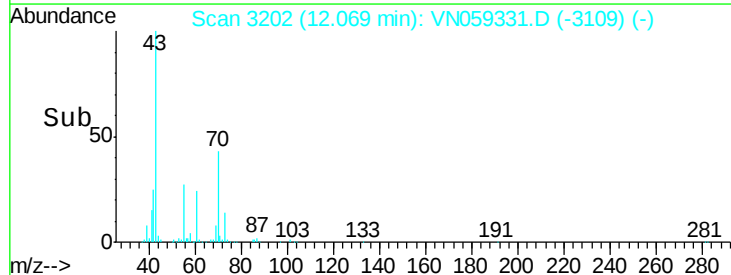
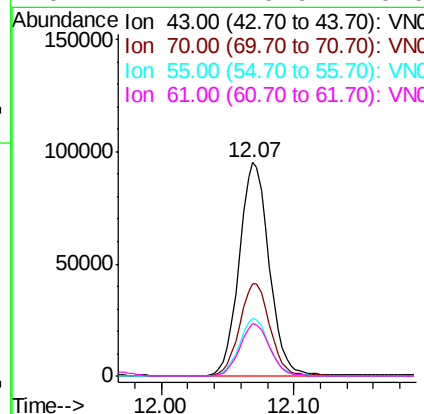
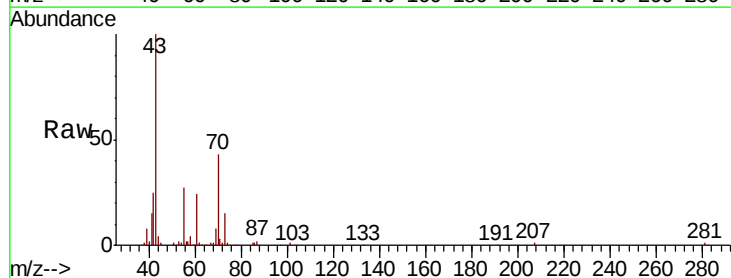
Manual Integrations
APPROVED

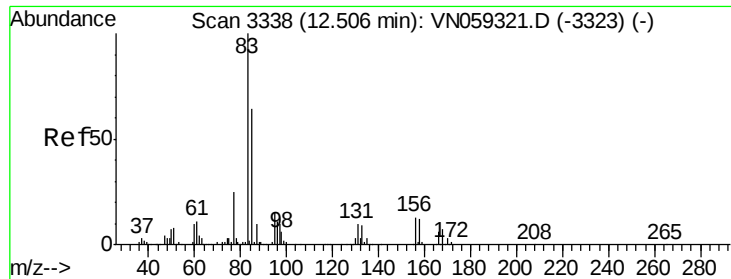
MMDadoda
11/22/2019 3:11:58 PM



#74
N-ethyl acetate
Concen: 15.274 ug/l
RT: 12.07 min Scan# 3202
Delta R.T. 0.00 min
Lab File: VN059331.D
Acq: 21 Nov 2019 13:39

Tgt Ion	Ratio	Lower	Upper
43	100		
70	43.8	33.8	50.6
55	27.1	20.3	30.5
61	24.4	19.9	29.9





#75

1,1,2,2-Tetrachloroethane

Concen: 16.334 ug/l

RT: 12.51 min Scan# 3338

Delta R.T. 0.00 min

Lab File: VN059331.D

Acq: 21 Nov 2019 13:39

Instrument :

MSVOA_N

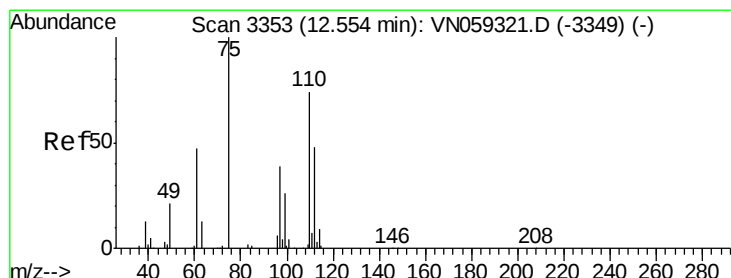
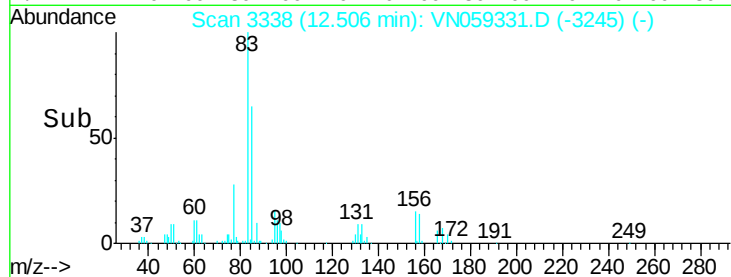
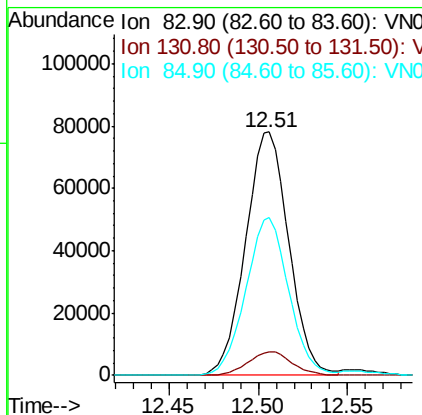
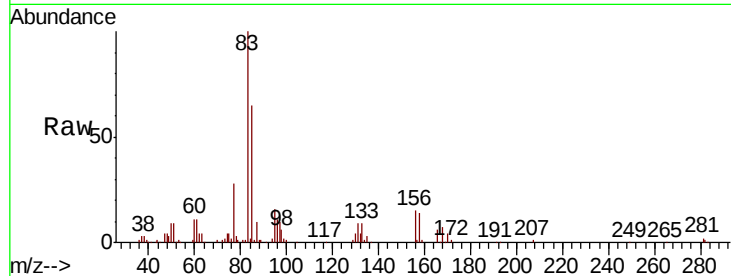
ClientSampleId :

VN1121WBS01

Tot Ion:	83	Resp:	132299
Ion Ratio	Lower	Upper	
83	100		
131	9.8	5.0	14.9
85	64.2	32.1	96.3

Manual Integrations
APPROVED

MMDadoda
11/22/2019 3:11:58 PM



#76

1,2,3-Trichloropropane

Concen: 17.134 ug/l m

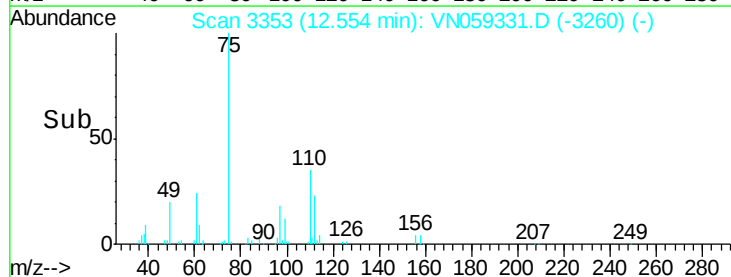
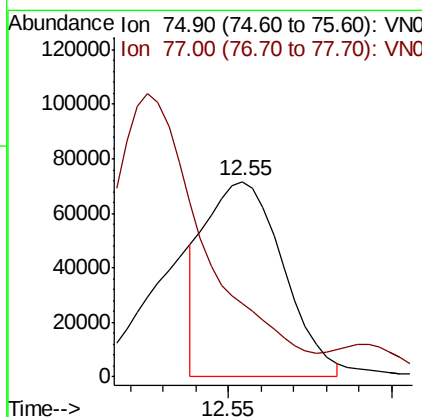
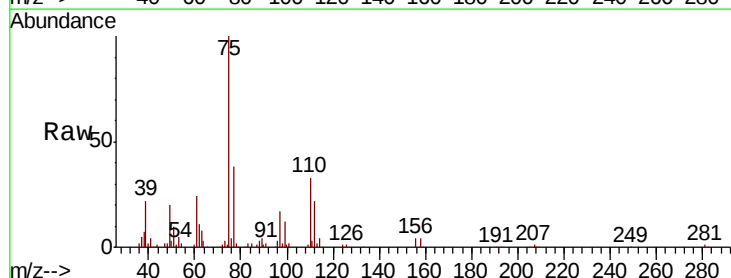
RT: 12.55 min Scan# 3353

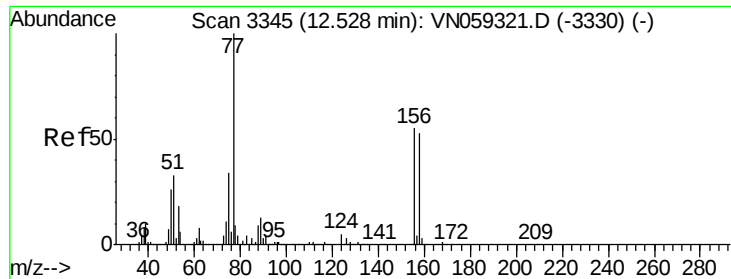
Delta R.T. 0.00 min

Lab File: VN059331.D

Acq: 21 Nov 2019 13:39

Tgt Ion:	75	Resp:	118315
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





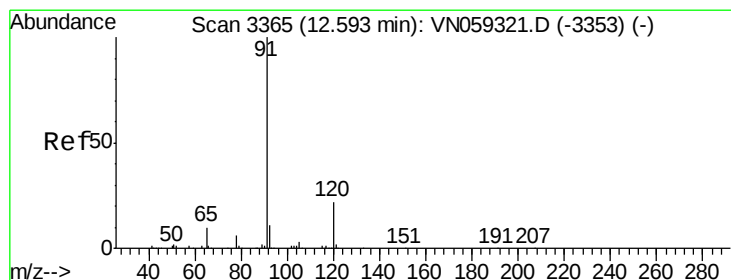
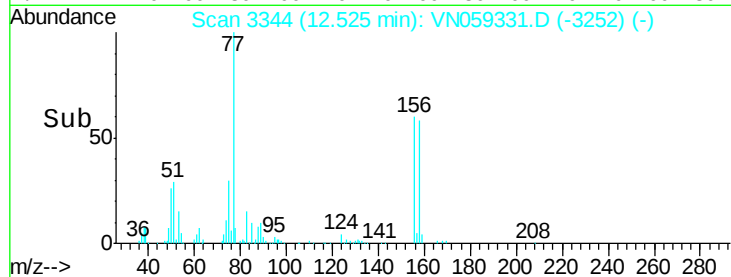
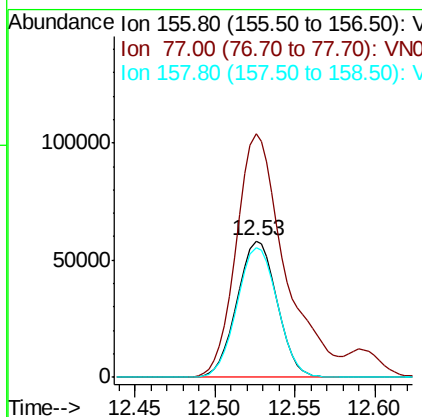
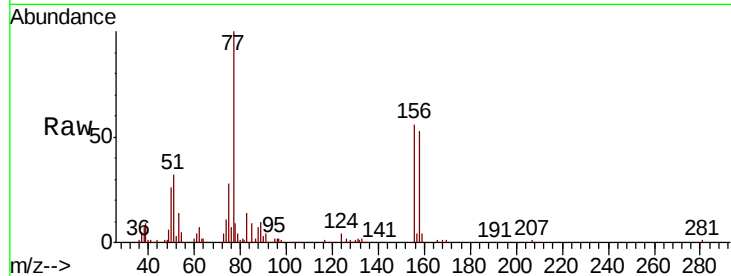
#77
Bromobenzene
Concen: 16.693 ug/l
RT: 12.53 min Scan# 3344
Delta R.T. -0.00 min
Lab File: VN059331.D
Acq: 21 Nov 2019 13:39

Instrument :
MSVOA_N
ClientSampleId :
VN1121WBS01

Tot Ion	Ratio	Lower	Upper
156	100		
77	217.6	111.1	333.4
158	96.5	47.8	143.4

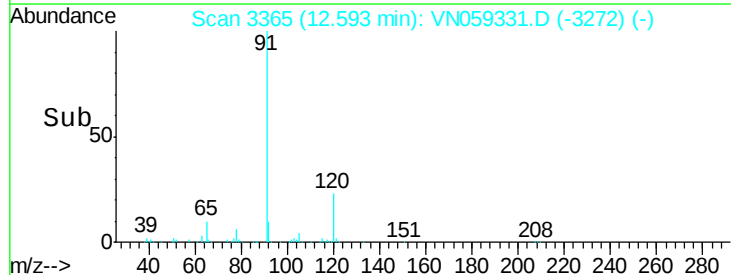
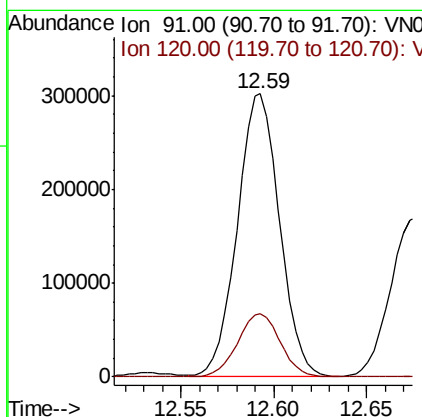
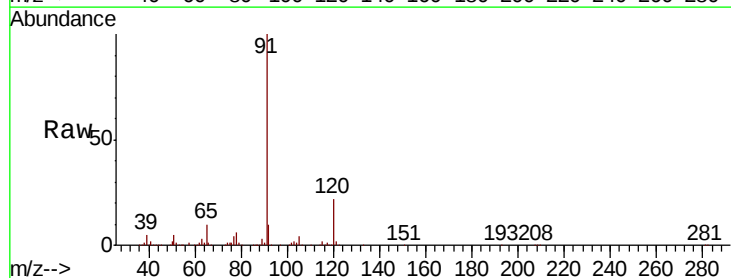
Manual Integrations
APPROVED

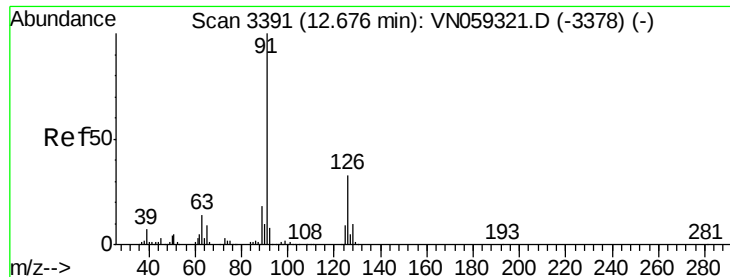
MMDadoda
11/22/2019 3:11:58 PM



#78
n-propylbenzene
Concen: 17.110 ug/l
RT: 12.59 min Scan# 3365
Delta R.T. 0.00 min
Lab File: VN059331.D
Acq: 21 Nov 2019 13:39

Tgt Ion	Ratio	Lower	Upper
91	100		
120	22.7	11.3	33.9





#79

2-Chlorotoluene

Concen: 16.715 ug/l

RT: 12.68 min Scan# 3391

Delta R.T. 0.00 min

Lab File: VN059331.D

Acq: 21 Nov 2019 13:39

Instrument :

MSVOA_N

ClientSampleId :

VN1121WBS01

Tot Ion: 91 Resp: 284543

Ion Ratio Lower Upper

91 100

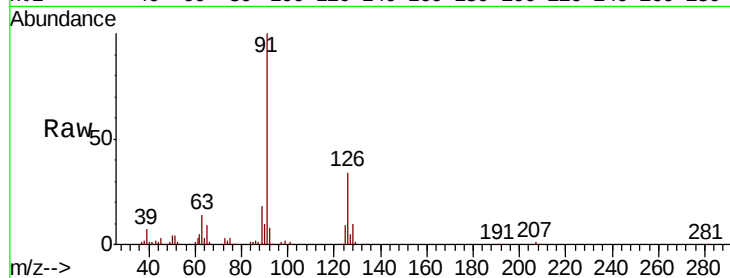
126 33.6 16.7 50.1

Manual Integrations

APPROVED

MMDadoda

11/22/2019 3:11:58 PM



Abundance Ion 91.00 (90.70 to 91.70): VN059321.D (-3378) (-)

Ion 125.90 (125.60 to 126.60): VN059321.D (-3378) (-)

300000

250000

200000

150000

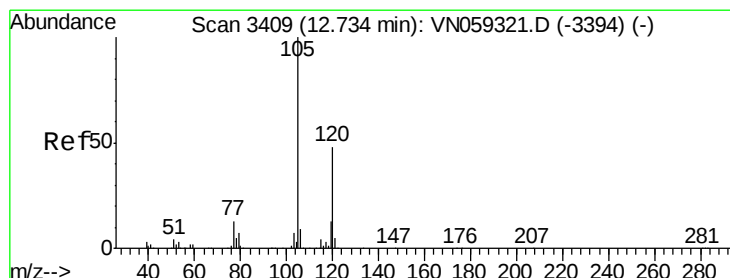
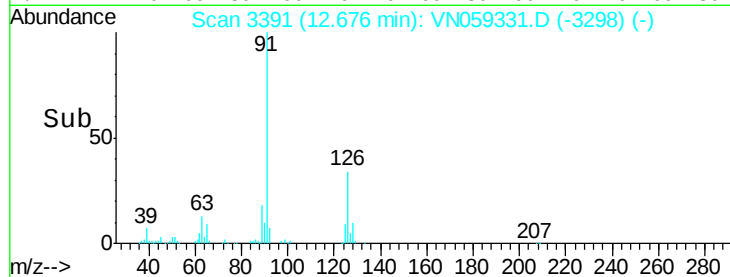
100000

50000

0

12.60 12.65 12.70

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 16.927 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN059331.D

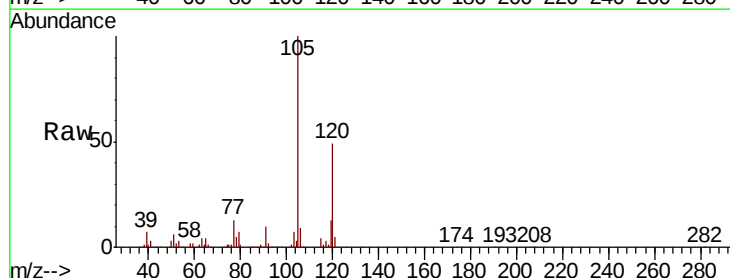
Acq: 21 Nov 2019 13:39

Tgt Ion: 105 Resp: 348410

Ion Ratio Lower Upper

105 100

120 48.5 24.1 72.4



Abundance Ion 105.00 (104.70 to 105.70): VN059321.D (-3394) (-)

Ion 120.00 (119.70 to 120.70): VN059321.D (-3394) (-)

250000

200000

150000

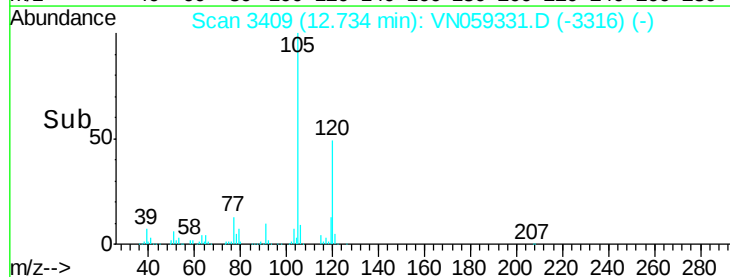
100000

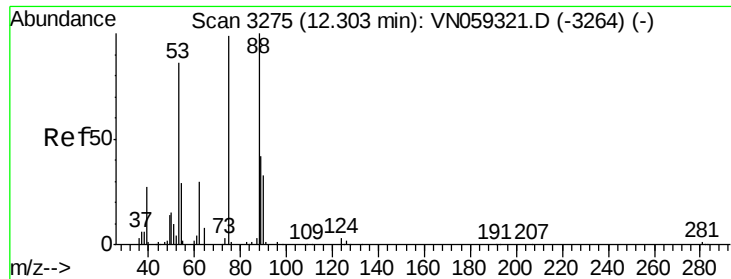
50000

0

12.70 12.80

Time-->





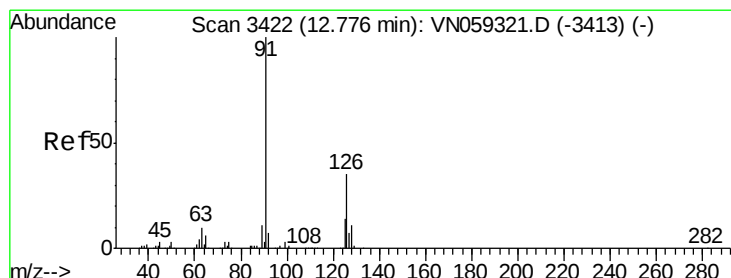
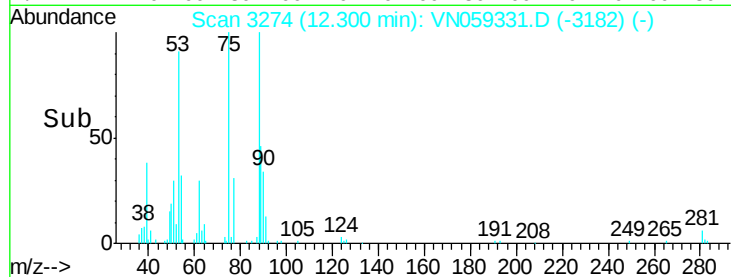
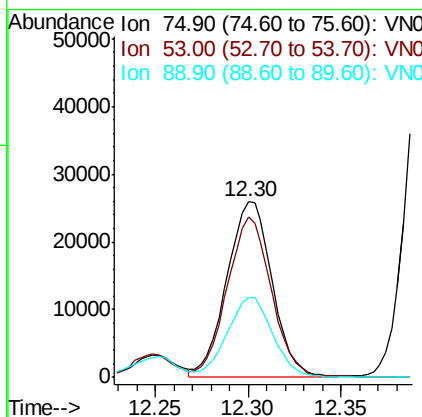
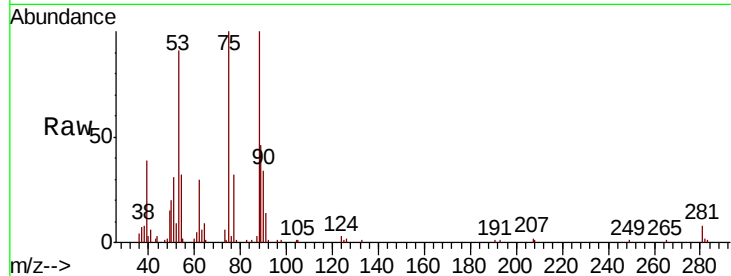
#81
trans-1,4-Dichloro-2-butene
Concen: 15.838 ug/l
RT: 12.30 min Scan# 3274
Delta R.T. -0.00 min
Lab File: VN059331.D
Acq: 21 Nov 2019 13:39

Instrument :
MSVOA_N
ClientSampleId :
VN1121WBS01

Tot Ion	Ratio	Lower	Upper
75	100		
53	90.0	70.7	106.1
89	46.1	35.4	53.0

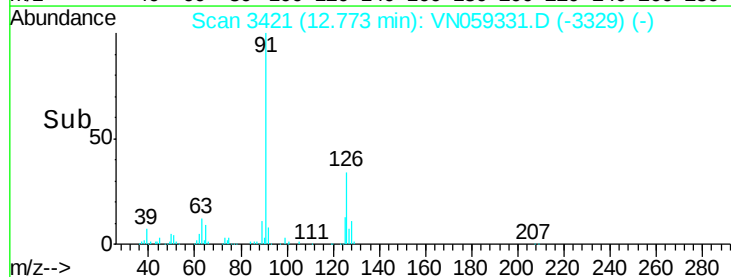
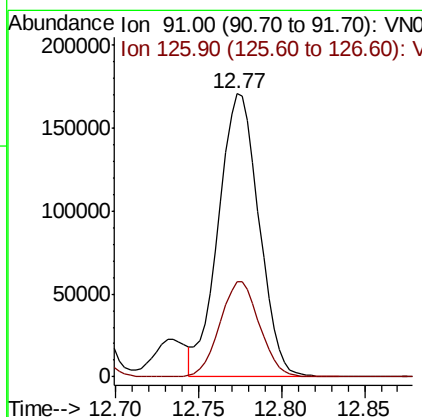
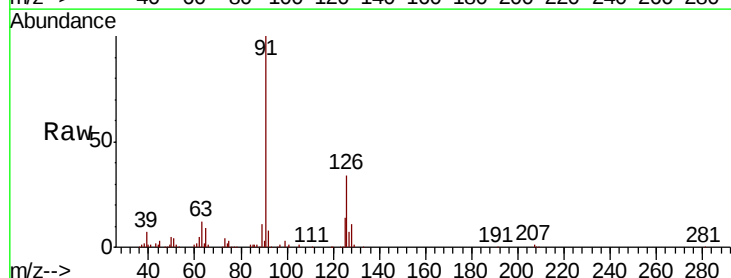
Manual Integrations
APPROVED

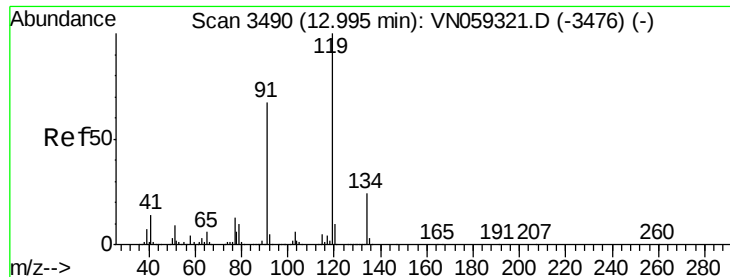
MMDadoda
11/22/2019 3:11:58 PM



#82
4-Chlorotoluene
Concen: 16.441 ug/l
RT: 12.77 min Scan# 3421
Delta R.T. -0.00 min
Lab File: VN059331.D
Acq: 21 Nov 2019 13:39

Tgt Ion	Ratio	Lower	Upper
91	100		
126	33.0	16.2	48.6





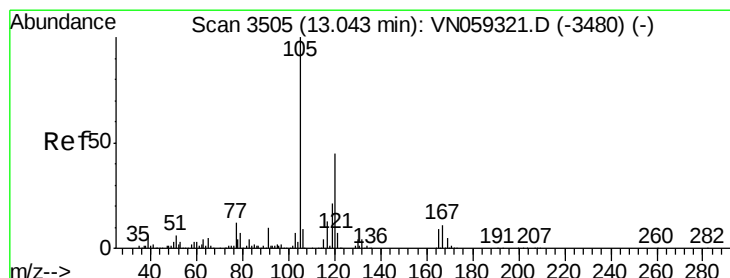
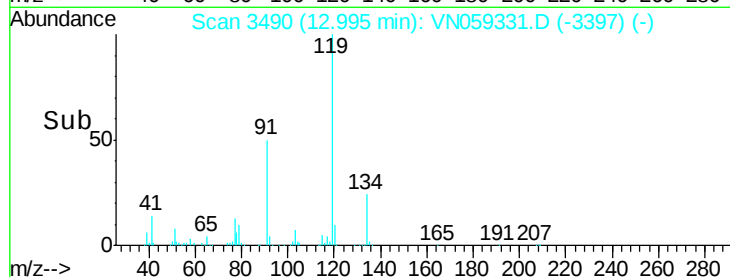
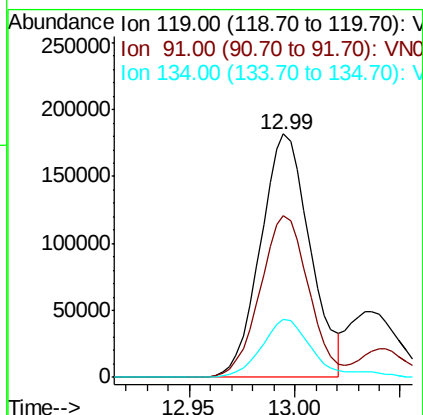
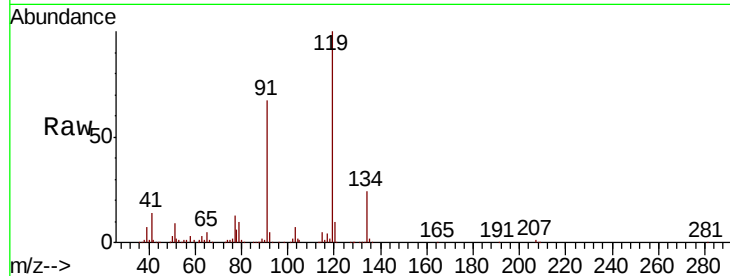
#83
tert-Butylbenzene
Concen: 17.103 ug/l
RT: 12.99 min Scan# 3490
Delta R.T. 0.00 min
Lab File: VN059331.D
Acq: 21 Nov 2019 13:39

Instrument :
MSVOA_N
ClientSampleId :
VN1121WBS01

Tot Ion	Ratio	Lower	Upper
119	100		
91	65.3	32.8	98.4
134	25.1	13.0	38.9

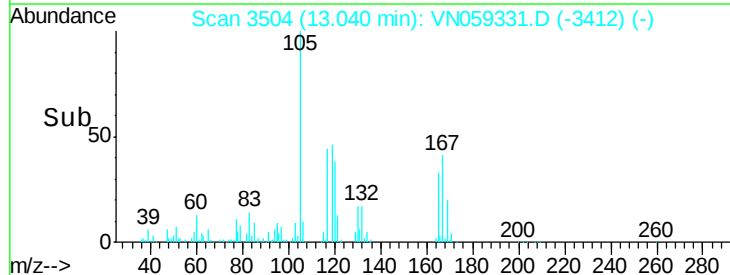
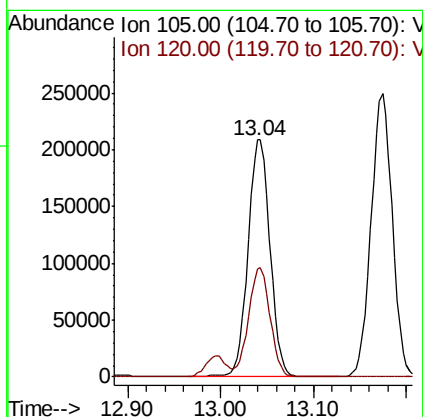
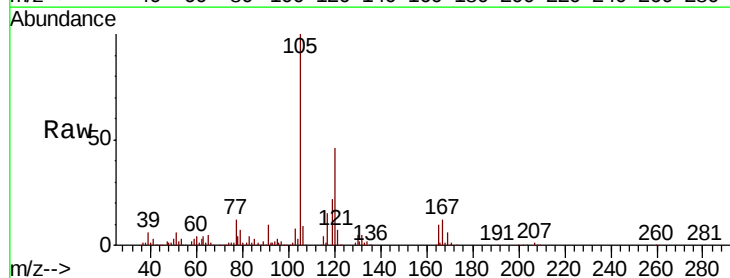
Manual Integrations
APPROVED

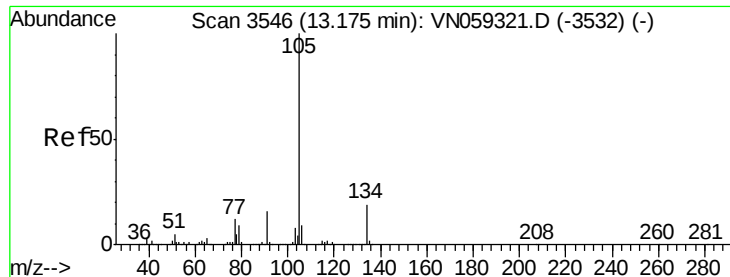
MMDadoda
11/22/2019 3:11:58 PM



#84
1,2,4-Trimethylbenzene
Concen: 17.023 ug/l
RT: 13.04 min Scan# 3504
Delta R.T. -0.00 min
Lab File: VN059331.D
Acq: 21 Nov 2019 13:39

Tgt Ion	Ratio	Lower	Upper
105	100		
120	45.1	22.6	67.8





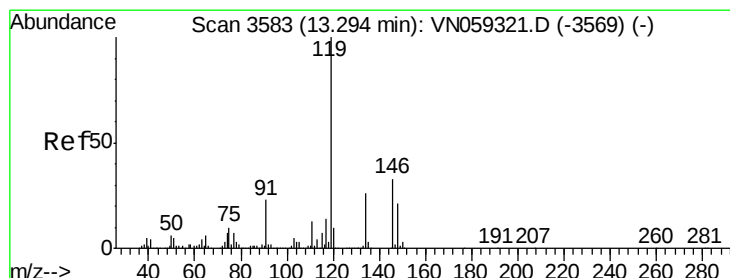
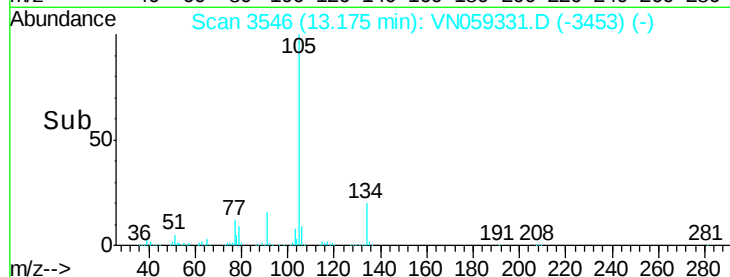
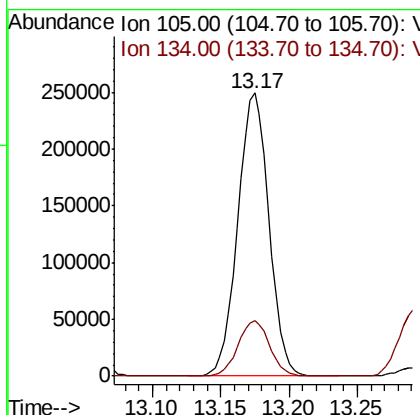
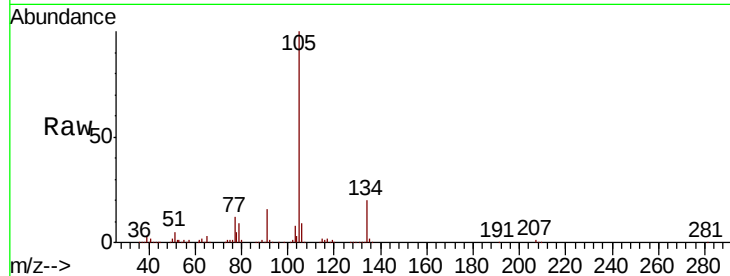
#85
 sec-Butylbenzene
 Concen: 16.878 ug/l
 RT: 13.17 min Scan# 3546
 Delta R.T. 0.00 min
 Lab File: VN059331.D
 Acq: 21 Nov 2019 13:39

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1121WBS01

Tot Ion	Ratio	Lower	Upper
105	100		
134	19.8	9.8	29.3

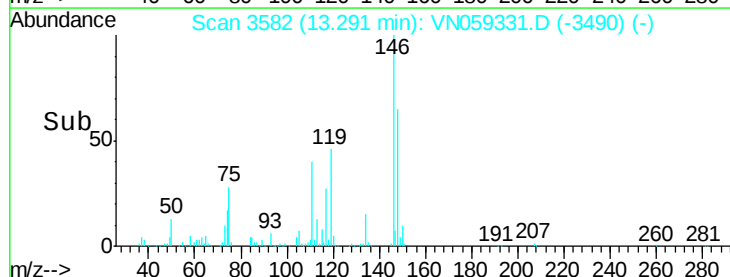
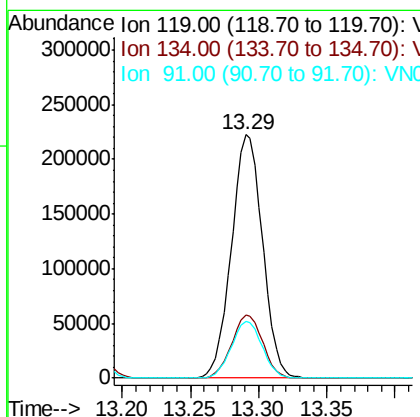
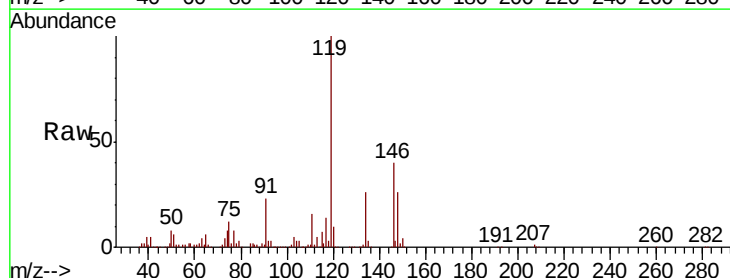
Manual Integrations
 APPROVED

MMDadoda
 11/22/2019 3:11:58 PM



#86
 p-Isopropyltoluene
 Concen: 16.868 ug/l
 RT: 13.29 min Scan# 3582
 Delta R.T. -0.00 min
 Lab File: VN059331.D
 Acq: 21 Nov 2019 13:39

Tgt Ion	Ratio	Lower	Upper
119	100		
134	25.9	13.0	38.9
91	23.0	11.6	34.7





#87

1,3-Dichlorobenzene

Concen: 16.158 ug/l

RT: 13.28 min Scan# 3580

Delta R.T. 0.00 min

Lab File: VN059331.D

Acq: 21 Nov 2019 13:39

Instrument :

MSVOA_N

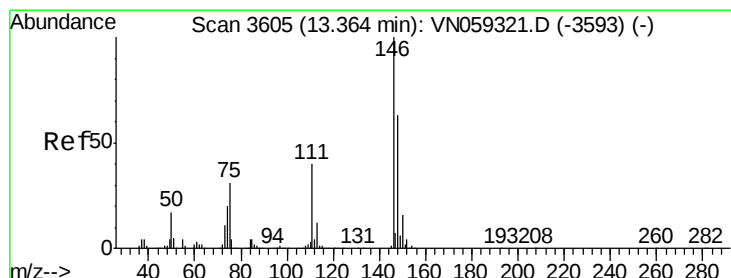
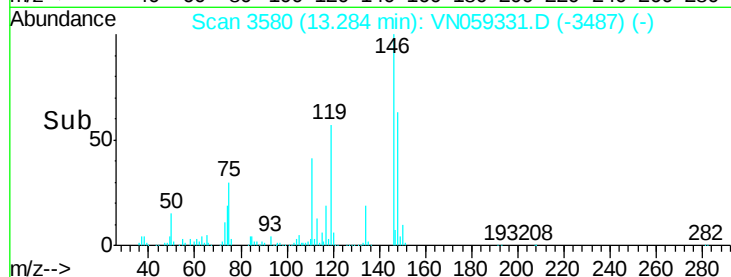
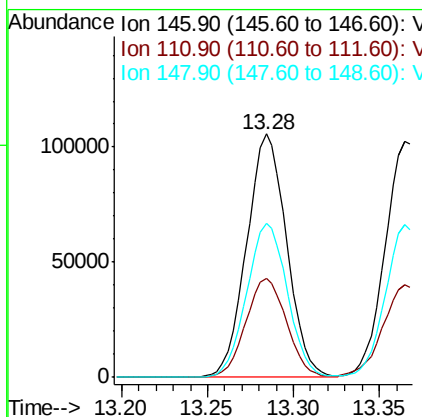
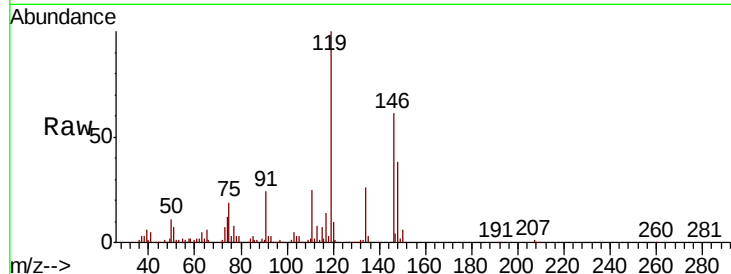
ClientSampleId :

VN1121WBS01

Tot Ion:	146	Resp:	170885
Ion Ratio	Lower	Upper	
146	100		
111	41.5	20.6	61.8
148	64.1	31.9	95.5

Manual Integrations
APPROVED

MMDadoda
11/22/2019 3:11:58 PM



#88

1,4-Dichlorobenzene

Concen: 16.371 ug/l

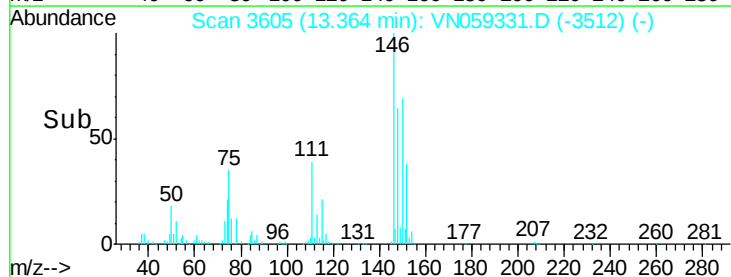
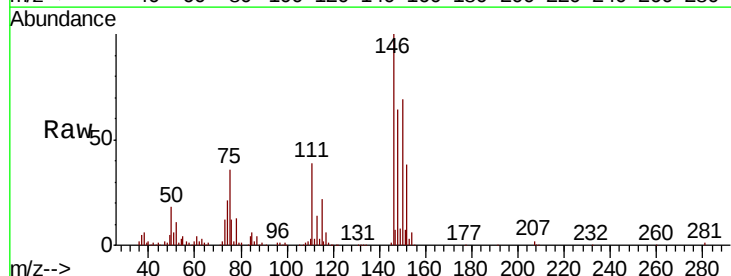
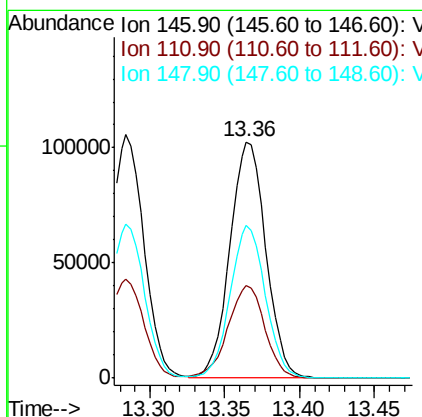
RT: 13.36 min Scan# 3605

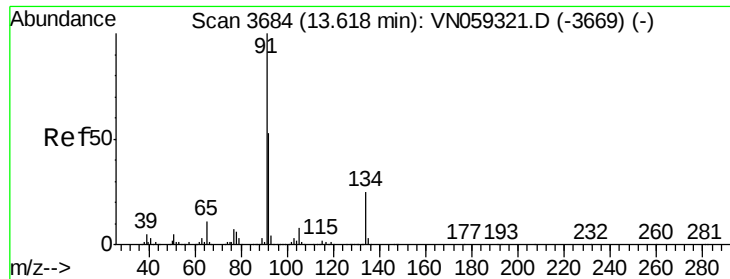
Delta R.T. 0.00 min

Lab File: VN059331.D

Acq: 21 Nov 2019 13:39

Tgt Ion:	146	Resp:	171307
Ion Ratio	Lower	Upper	
146	100		
111	39.9	20.1	60.3
148	63.1	31.7	95.1





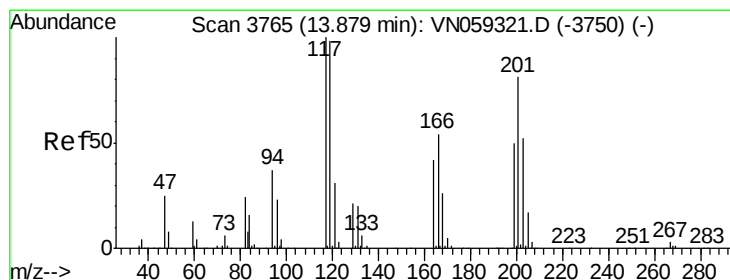
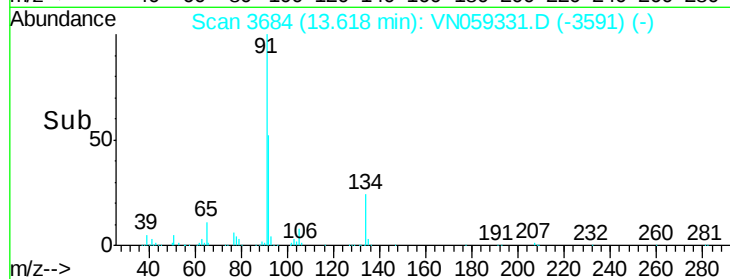
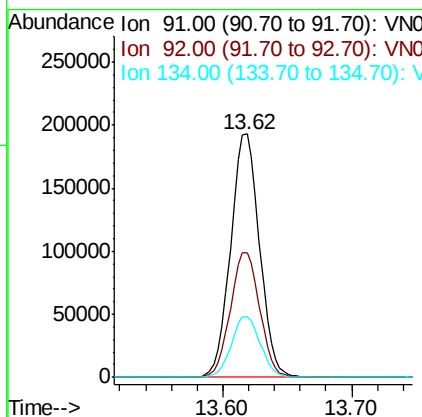
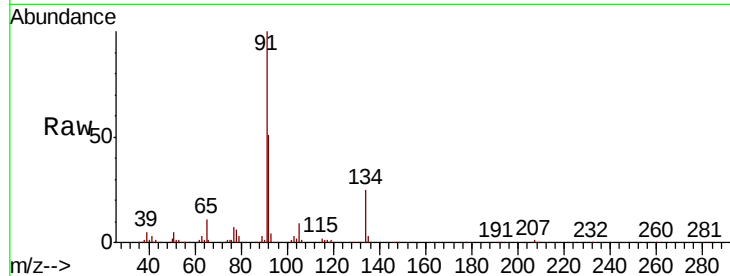
#89
n-Butylbenzene
Concen: 16.429 ug/l
RT: 13.62 min Scan# 3684
Delta R.T. 0.00 min
Lab File: VN059331.D
Acq: 21 Nov 2019 13:39

Instrument :
MSVOA_N
ClientSampleId :
VN1121WBS01

Tot Ion	Ratio	Lower	Upper
91	100		
92	52.3	26.0	78.0
134	25.2	12.7	38.1

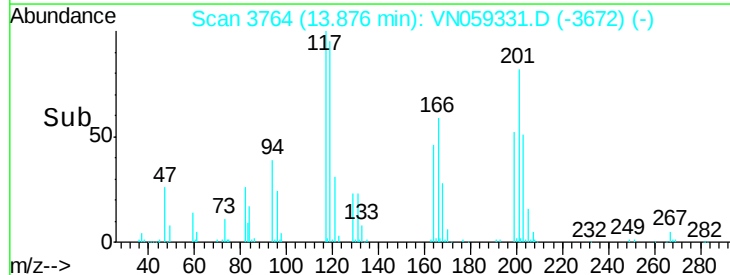
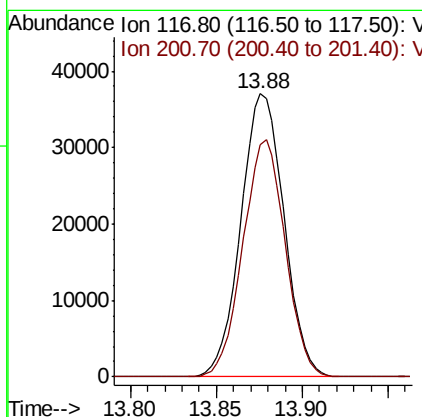
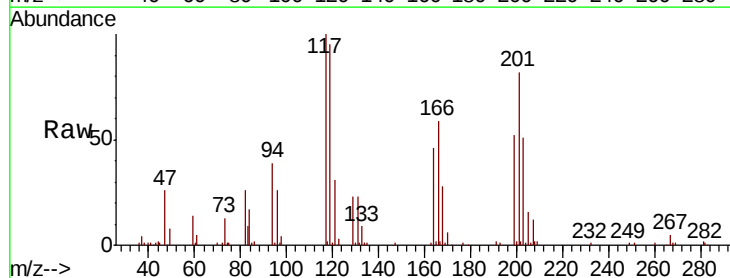
Manual Integrations
APPROVED

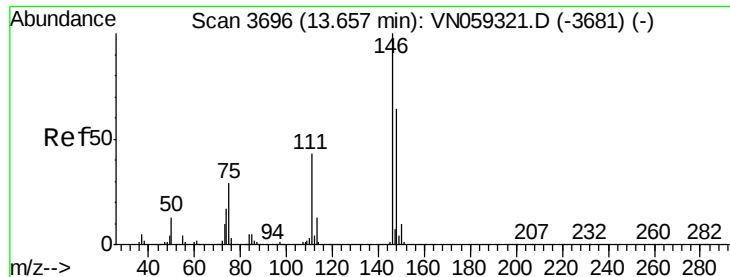
MMDadoda
11/22/2019 3:11:58 PM



#90
Hexachloroethane
Concen: 16.399 ug/l
RT: 13.88 min Scan# 3764
Delta R.T. -0.00 min
Lab File: VN059331.D
Acq: 21 Nov 2019 13:39

Tgt Ion	Ratio	Lower	Upper
117	100		
201	82.0	40.4	121.2





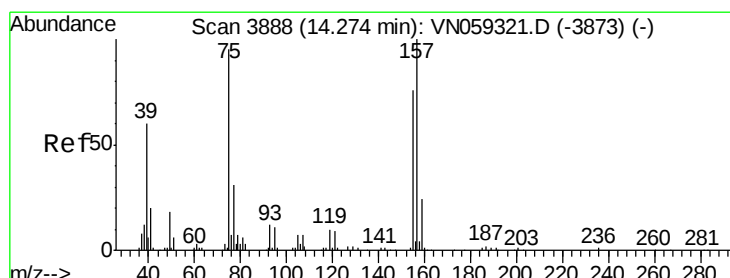
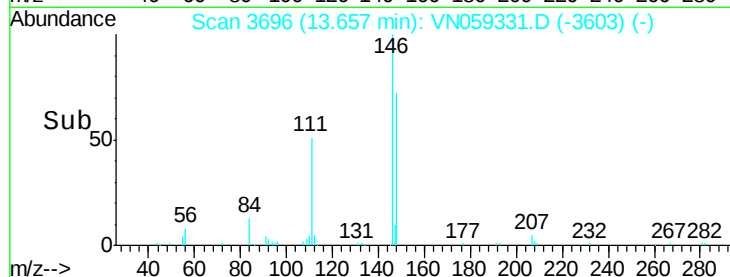
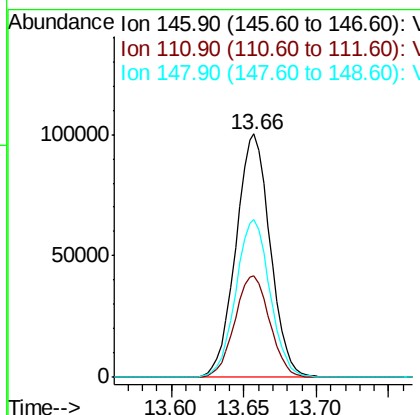
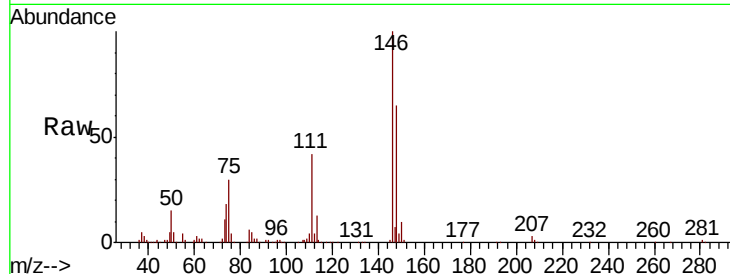
#91
 1,2-Dichlorobenzene
 Concen: 16.091 ug/l
 RT: 13.66 min Scan# 3696
 Delta R.T. 0.00 min
 Lab File: VN059331.D
 Acq: 21 Nov 2019 13:39

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1121WBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	42.4	21.3	64.0
148	64.8	31.9	95.5

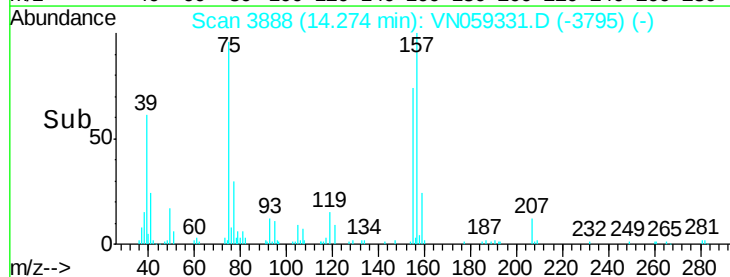
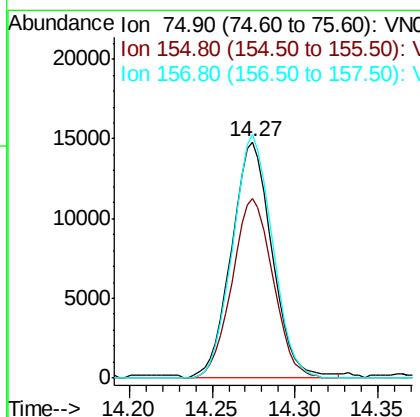
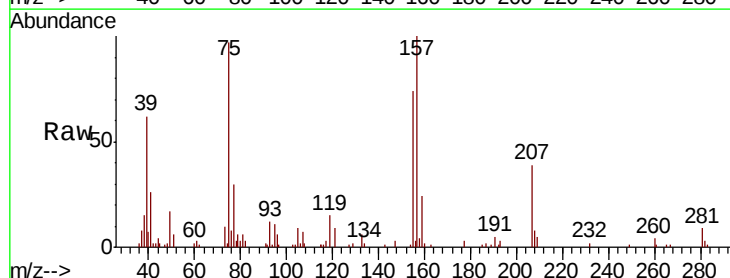
Manual Integrations
 APPROVED

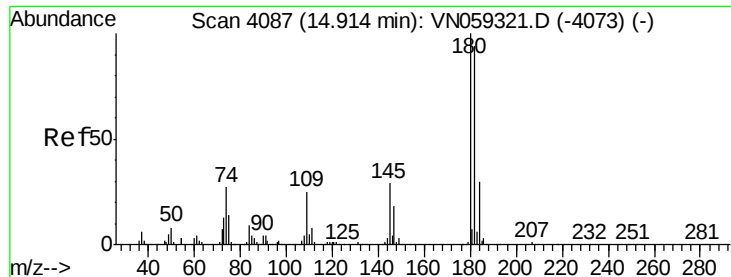
MMDadoda
 11/22/2019 3:11:58 PM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 14.711 ug/l
 RT: 14.27 min Scan# 3888
 Delta R.T. 0.00 min
 Lab File: VN059331.D
 Acq: 21 Nov 2019 13:39

Tgt Ion	Ratio	Lower	Upper
75	100		
155	76.2	40.5	121.5
157	100.8	52.7	158.1





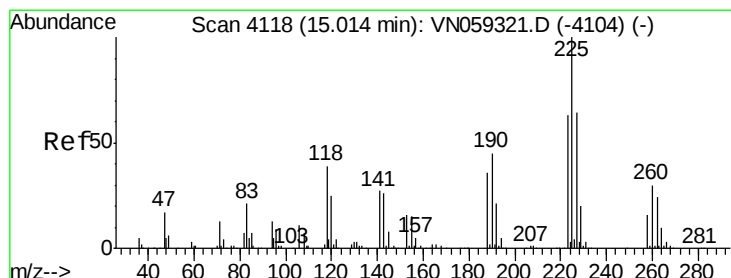
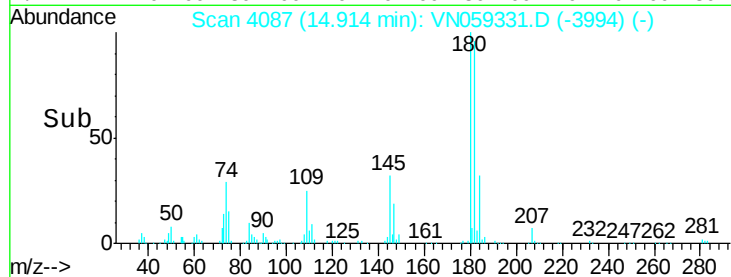
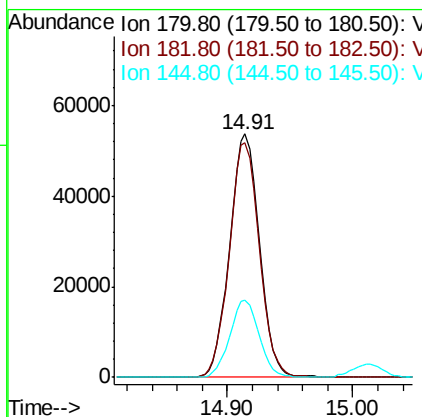
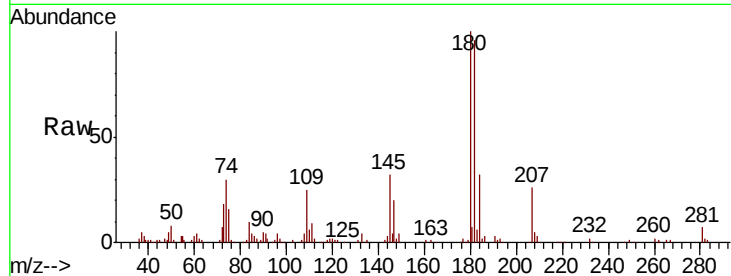
#93
 1,2,4-Trichlorobenzene
 Concen: 16.027 ug/l
 RT: 14.91 min Scan# 4087
 Delta R.T. 0.00 min
 Lab File: VN059331.D
 Acq: 21 Nov 2019 13:39

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1121WBS01

Tot Ion	Ratio	Resp	Lower	Upper
180	100			
182	97.2	47.2	141.6	
145	31.1	14.9	44.5	

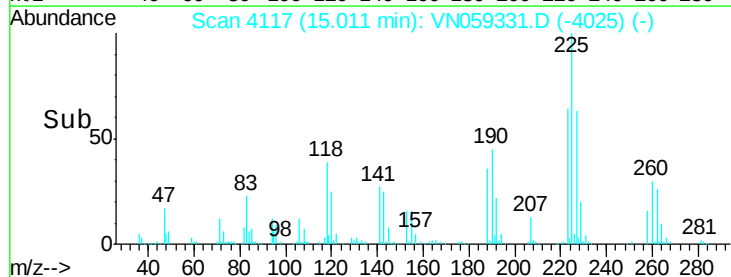
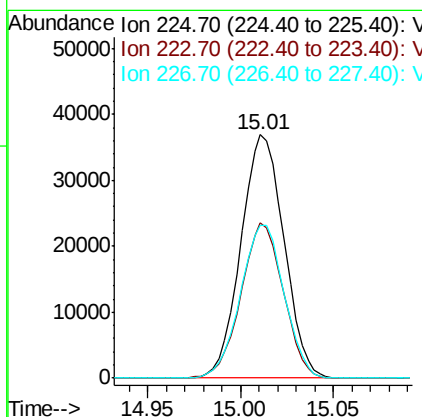
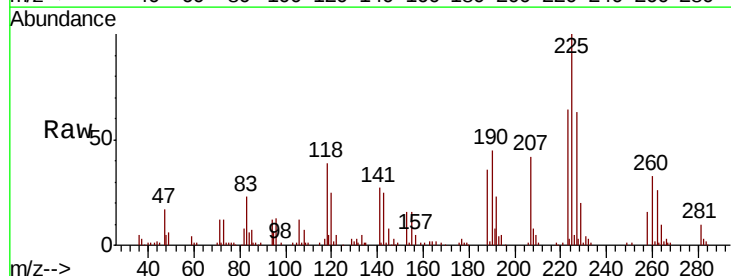
Manual Integrations
 APPROVED

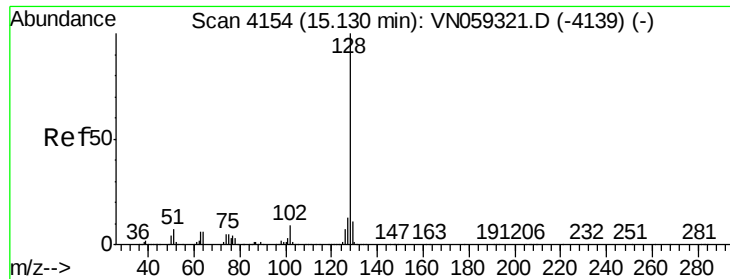
MMDadoda
 11/22/2019 3:11:58 PM



#94
 Hexachlorobutadiene
 Concen: 16.115 ug/l
 RT: 15.01 min Scan# 4117
 Delta R.T. -0.00 min
 Lab File: VN059331.D
 Acq: 21 Nov 2019 13:39

Tgt Ion	Ratio	Resp	Lower	Upper
225	100			
223	62.6	31.6	94.8	
227	63.9	32.6	97.7	





#95

Naphthalene

Concen: 15.396 ug/l

RT: 15.13 min Scan# 4154

Delta R.T. 0.00 min

Lab File: VN059331.D

Acq: 21 Nov 2019 13:39

Instrument :

MSVOA_N

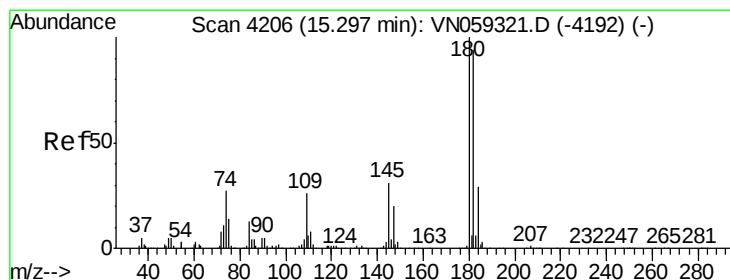
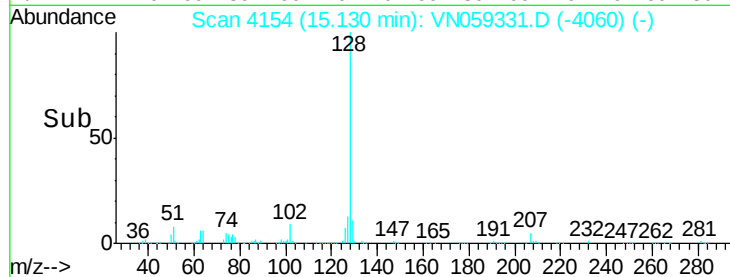
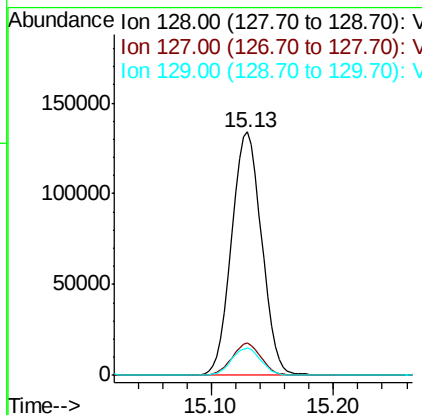
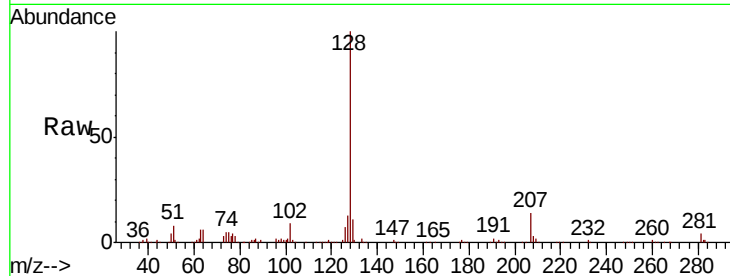
ClientSampleId :

VN1121WBS01

Tot Ion:	128	Resp:	230052
Ion Ratio	Lower	Upper	
128	100		
127	12.9	10.2	15.2
129	10.9	8.6	13.0

Manual Integrations
APPROVED

MMDadoda
11/22/2019 3:11:58 PM



#96

1,2,3-Trichlorobenzene

Concen: 15.872 ug/l

RT: 15.30 min Scan# 4206

Delta R.T. 0.00 min

Lab File: VN059331.D

Acq: 21 Nov 2019 13:39

Tgt Ion:	180	Resp:	90720
Ion Ratio	Lower	Upper	
180	100		
182	96.8	47.1	141.4
145	32.4	15.6	46.8

