

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN071319\
 Data File : VN056688.D
 Acq On : 12 Jul 2019 14:26
 Operator : JC/SP
 Sample : VN0713WBS01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleID :
 VN0713WBS01

Manual Integrations
 APPROVED

MMDadoda
 7/16/2019 9:59:45 AM

Quant Time: Jul 13 00:31:49 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N071319W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Jul 12 23:58:13 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	53678	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	290250	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	257440	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	108655	29.88	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	99.60%
60) 4-Bromofluorobenzene	12.40	95	115892	29.41	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	98.03%
63) Toluene-d8	10.09	98	358896	30.51	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	101.70%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	59052	19.360	ug/l 98
3) Chloromethane	2.06	50	78674	19.286	ug/l 98
4) Vinyl Chloride	2.19	62	76834	19.149	ug/l 97
5) Bromomethane	2.56	94	48454	19.159	ug/l 96
6) Chloroethane	2.70	64	43015	18.762	ug/l 96
7) Trichlorofluoromethane	3.01	101	101006	19.627	ug/l 96
8) Diethyl Ether	3.41	74	40080	19.045	ug/l 100
9) 1,1,2-Trichlorotrifluoroet	3.76	101	60957	18.995	ug/l 98
10) 1,1-Dichloroethene	3.73	96	61237	19.343	ug/l 99
11) Methyl Iodide	3.95	142	74928	17.809	ug/l 97
12) Methyl Acetate	4.33	43	79888	18.851	ug/l 99
13) Acrolein	3.61	56	24653	82.512	ug/l 99
14) Acrylonitrile	4.99	53	183371	98.226	ug/l 100
15) Acetone	3.82	58	51554	80.002	ug/l 98
16) Carbon Disulfide	4.05	76	152240	18.232	ug/l 100
17) Allyl chloride	4.32	41	103892	18.760	ug/l 98
18) Methylene Chloride	4.55	84	71923	19.350	ug/l 98
19) trans-1,2-Dichloroethene	5.04	96	64810	19.122	ug/l 99
20) Diisopropyl ether	5.95	45	215543	19.533	ug/l 99
21) 1,1-Dichloroethane	5.85	63	121805	19.319	ug/l 99
22) cis-1,2-Dichloroethene	6.83	96	76151	19.215	ug/l 99
23) tert-Butyl Alcohol	4.79	59	66141	101.565	ug/l # 100
24) Methyl tert-Butyl Ether	5.05	73	193713	19.184	ug/l 99
25) Chloroform	7.37	83	119532	19.460	ug/l 99
26) Cyclohexane	7.65	56	110935	18.929	ug/l # 99
29) 1,1-Dichloropropene	7.79	75	89512	19.401	ug/l 99
30) 2-Butanone	6.84	43	251059	93.985	ug/l 99
31) 2,2-Dichloropropane	6.83	77	81000	18.140	ug/l 99
32) 1,1,1-Trichloroethane	7.57	97	96802	19.683	ug/l 99
33) Carbon Tetrachloride	7.77	117	81396	19.233	ug/l 97
34) Benzene	8.04	78	283462	19.996	ug/l 99
35) Methacrylonitrile	7.17	41	33700	16.514	ug/l 97
36) 1,2-Dichloroethane	8.13	62	89807	19.721	ug/l 100
37) Trichloroethene	8.84	130	73692	19.141	ug/l 96
38) Methylcyclohexane	9.08	83	109997	18.872	ug/l 99
39) 1,2-Dichloropropane	9.12	63	77194	20.287	ug/l 98
40) Dibromomethane	9.21	93	47699	19.681	ug/l 99

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN071319\
 Data File : VN056688.D
 Acq On : 12 Jul 2019 14:26
 Operator : JC/SP
 Sample : VN0713WBS01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleID :
 VN0713WBS01

Manual Integrations
 APPROVED

MMDadoda
 7/16/2019 9:59:45 AM

Quant Time: Jul 13 00:31:49 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N071319W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Jul 12 23:58:13 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

41) Bromodichloromethane	9.40	83	86301	19.321	ug/l	100
42) Vinyl Acetate	5.90	43	887602	99.839	ug/l	100
43) Ethyl Acetate	6.93	43	102589	21.253	ug/l	97
44) Isopropyl Acetate	8.17	43	149441	19.849	ug/l #	89
45) 1,4-Dioxane	9.20	88	31363	411.759	ug/l	96
46) Methyl methacrylate	9.20	41	73541	20.332	ug/l	100
47) n-amyl Acetate	12.07	43	114627	18.616	ug/l	98
48) t-1,3-Dichloropropene	10.38	75	89397	18.195	ug/l	100
49) cis-1,3-Dichloropropene	9.84	75	104653	18.881	ug/l	96
50) 1,1,2-Trichloroethane	10.56	97	69781	19.763	ug/l	99
51) Ethyl methacrylate	10.43	69	103674	19.089	ug/l	99
52) 1,3-Dichloropropane	10.71	76	117797	19.938	ug/l	99
53) Dibromochloromethane	10.90	129	67472	18.907	ug/l	98
54) 1,2-Dibromoethane	11.00	107	72142	19.658	ug/l	96
55) 2-Chloroethyl vinyl ether	9.70	63	255962	97.458	ug/l	99
56) Bromoform	12.13	173	48405	18.323	ug/l	100
58) 4-Methyl-2-Pentanone	9.98	43	491879	101.514	ug/l	100
59) 2-Hexanone	10.75	43	358616	97.502	ug/l	99
61) Tetrachloroethene	10.63	164	72291	19.542	ug/l	96
62) Toluene	10.16	91	297948	19.704	ug/l	99
64) Chlorobenzene	11.43	112	179418	19.455	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.51	131	65986	19.516	ug/l	99
66) Ethyl Benzene	11.51	91	312050	19.092	ug/l	98
67) m/p-Xylenes	11.62	106	238125	38.605	ug/l	99
68) o-Xylene	11.95	106	115567	19.209	ug/l	99
69) Styrene	11.96	104	191181	19.178	ug/l	99
70) Isopropylbenzene	12.25	105	306668	19.446	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.50	83	102973	20.118	ug/l	100
72) 1,2,3-Trichloropropane	12.55	75	89770m	20.520	ug/l	
73) Bromobenzene	12.53	156	78799	19.121	ug/l	99
74) n-propylbenzene	12.59	91	332175	18.670	ug/l	99
75) 2-Chlorotoluene	12.67	91	205219	19.152	ug/l	100
76) 1,3,5-Trimethylbenzene	12.73	105	259825	19.316	ug/l	99
77) t-1,4-Dichloro-2-butene	12.30	75	25071	17.240	ug/l	97
78) 4-Chlorotoluene	12.77	91	190902	18.372	ug/l	99
79) tert-butylbenzene	12.99	119	217936	19.046	ug/l	99
80) 1,2,4-Trimethylbenzene	13.04	105	255619	19.162	ug/l	99
81) sec-Butylbenzene	13.17	105	284859	18.807	ug/l	100
82) p-Isopropyltoluene	13.29	119	256280	18.605	ug/l	99
83) 1,3-Dichlorobenzene	13.28	146	123757	18.018	ug/l	99
84) 1,4-Dichlorobenzene	13.36	146	118160	17.947	ug/l	99
85) n-Butylbenzene	13.61	91	199789	17.584	ug/l	99
86) Hexachloroethane	13.87	117	39964	18.491	ug/l	96
87) 1,2-Dichlorobenzene	13.65	146	127846	18.522	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.27	75	16869	19.102	ug/l	97
89) 1,2,4-Trichlorobenzene	14.90	180	58754	15.825	ug/l	98
90) Hexachlorobutadiene	15.01	225	44100	18.269	ug/l	98
91) Naphthalene	15.13	128	157494	15.772	ug/l	100
92) 1,2,3-Trichlorobenzene	15.31	180	66601	17.108	ug/l	98

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN071319\
Data File : VN056688.D
Acq On : 12 Jul 2019 14:26
Operator : JC/SP
Sample : VN0713WBS01
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0713WBS01

Manual Integrations
APPROVED

MMDadoda
7/16/2019 9:59:45 AM

Quant Time: Jul 13 00:31:49 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N071319W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Jul 12 23:58:13 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
--------------------	------	------	----------	------	-------	----------

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

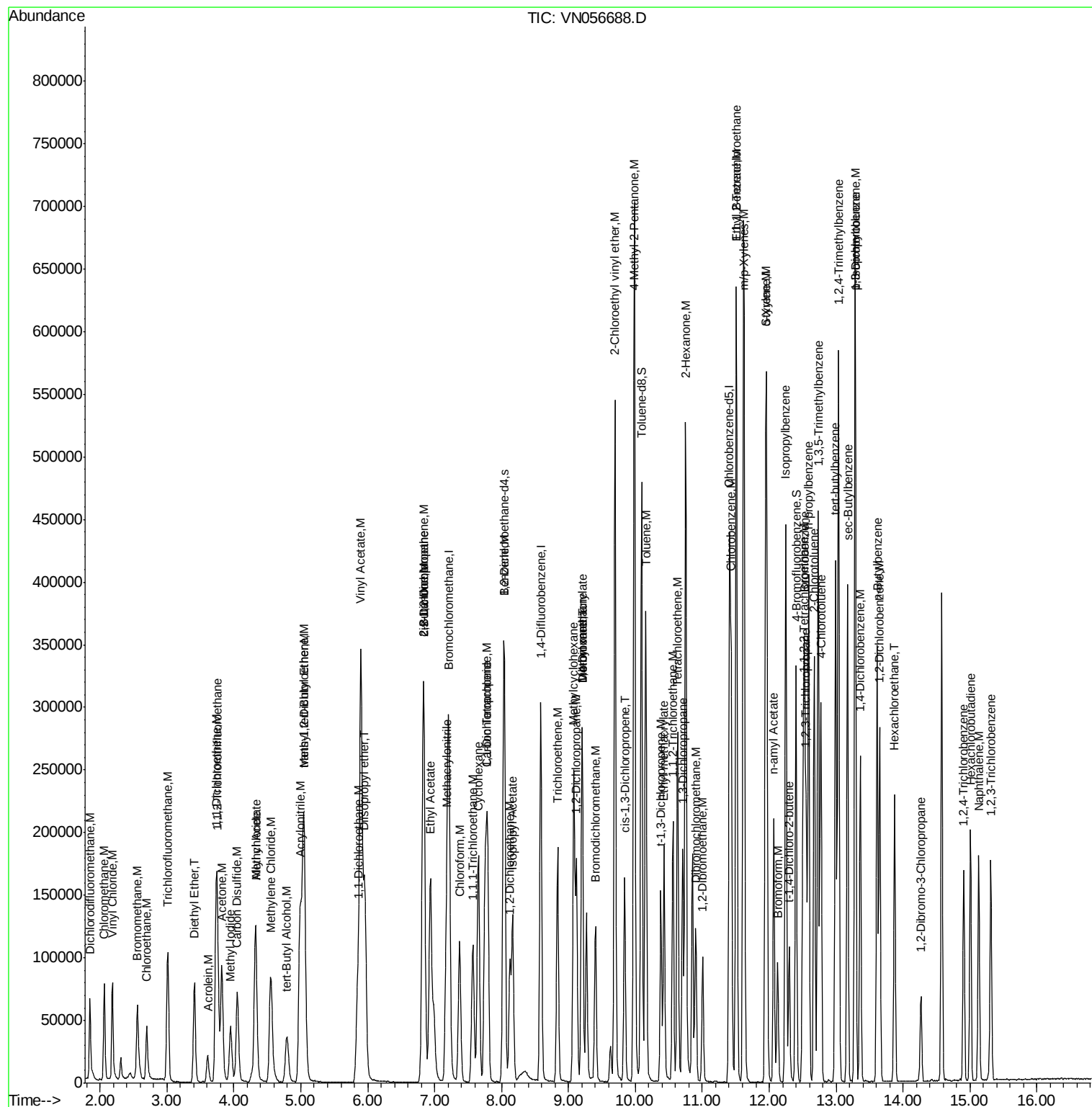
Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN071319\
 Data File : VN056688.D
 Acq On : 12 Jul 2019 14:26
 Operator : JC/SP
 Sample : VN0713WBS01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 13 Sample Multiplier: 1

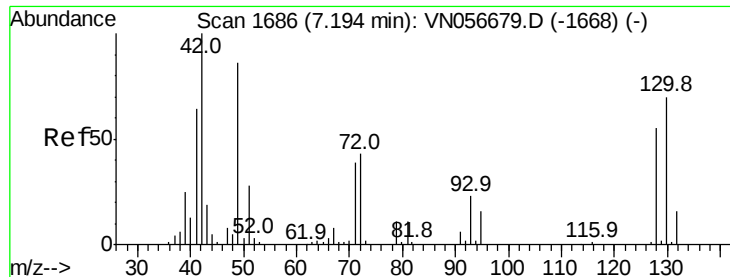
Instrument :
 MSVOA_N
 Client Sample Id :
 VN0713WBS01

Manual Integrations
 APPROVED

MMDadoda
 7/16/2019 9:59:45 AM

Quant Time: Jul 13 00:31:49 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N071319W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Jul 12 23:58:13 2019
 Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 7.20 min Scan# 1687

Delta R.T. 0.00 min

Lab File: VN056688.D

Acq: 12 Jul 2019 14:26

Instrument :

MSVOA_N

ClientSampleId :

VN0713WBS01

Tot Ion:128 Resp: 53678

Ion Ratio Lower Upper

128 100

49 157.6 0.0 390.5

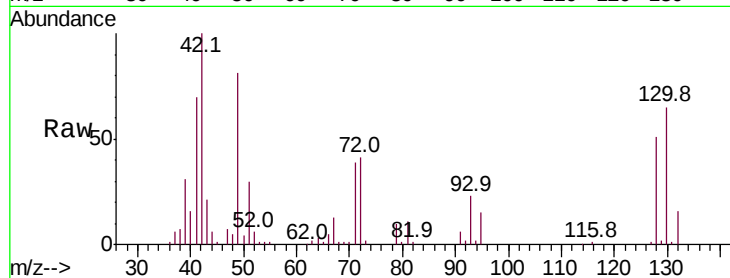
130 126.3 0.0 316.5

Manual Integrations

APPROVED

MMDadoda

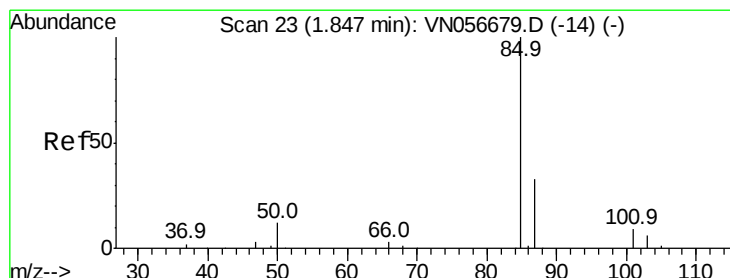
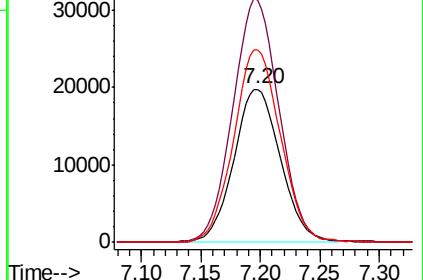
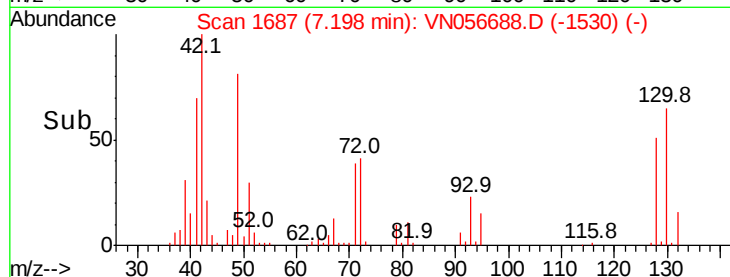
7/16/2019 9:59:45 AM



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VN0

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 19.360 ug/l

RT: 1.85 min Scan# 23

Delta R.T. 0.00 min

Lab File: VN056688.D

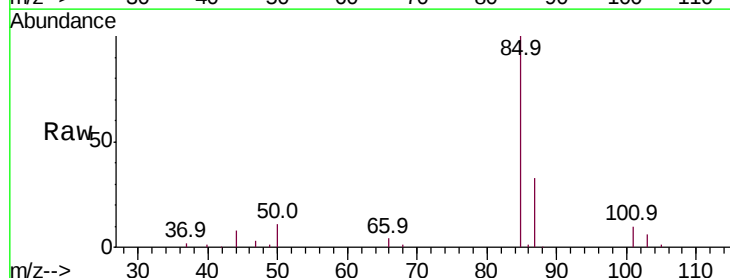
Acq: 12 Jul 2019 14:26

Tgt Ion: 85 Resp: 59052

Ion Ratio Lower Upper

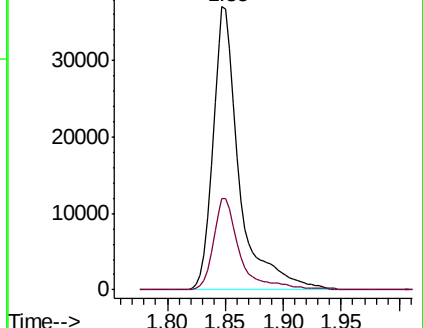
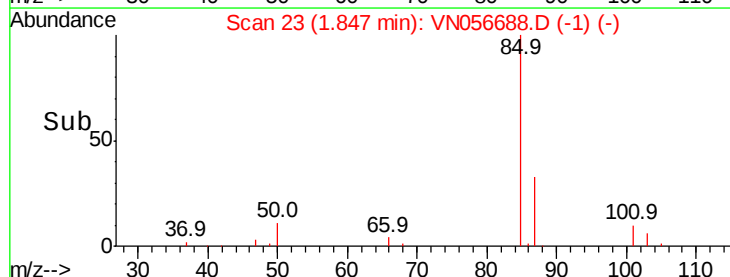
85 100

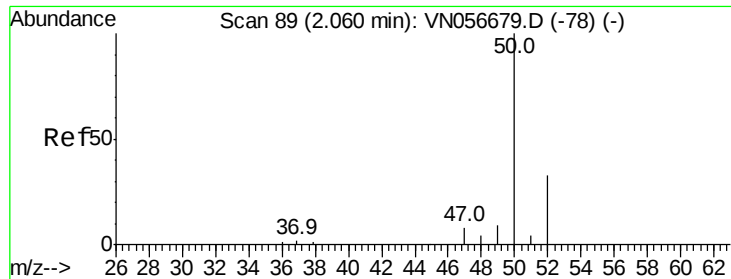
87 32.5 16.8 50.3



Abundance Ion 85.00 (84.70 to 85.70): VN0

Ion 87.00 (86.70 to 87.70): VN0





#3

Chloromethane

Concen: 19.286 ug/l

RT: 2.06 min Scan# 90

Delta R.T. 0.00 min

Lab File: VN056688.D

Acq: 12 Jul 2019 14:26

Instrument :

MSVOA_N

ClientSampleId :

VN0713WBS01

Tot Ion: 50 Resp: 78674

Ion Ratio Lower Upper

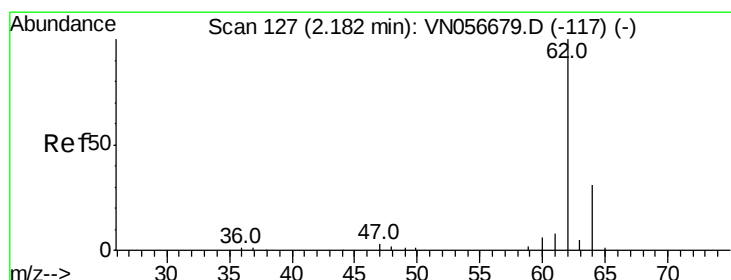
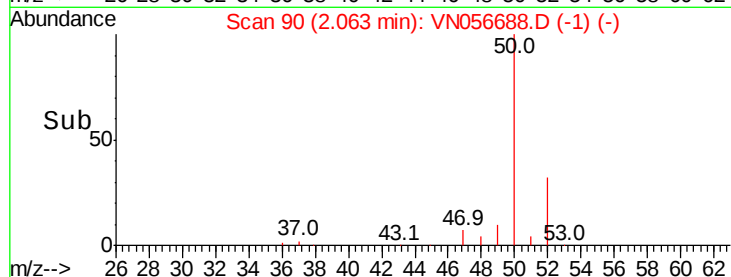
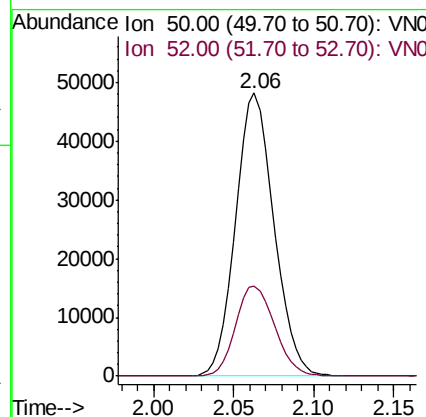
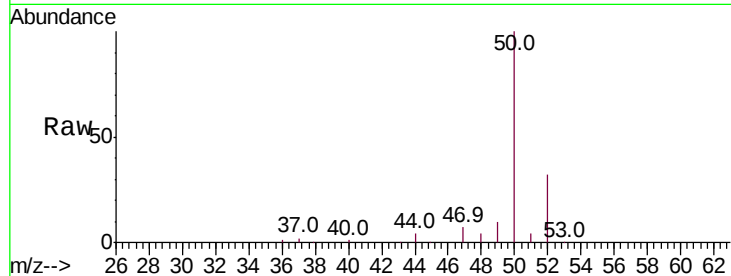
50 100

52 31.9 26.5 39.7

Manual Integrations
APPROVED

MMDadoda

7/16/2019 9:59:45 AM



#4

Vinyl Chloride

Concen: 19.149 ug/l

RT: 2.19 min Scan# 128

Delta R.T. 0.00 min

Lab File: VN056688.D

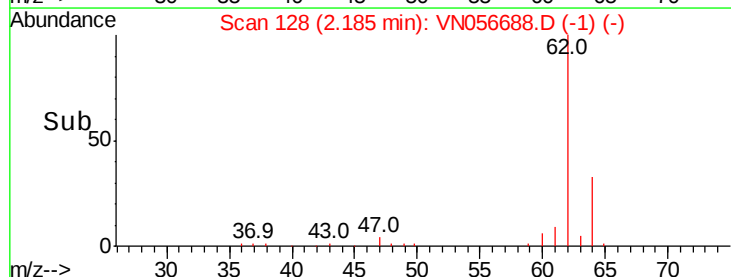
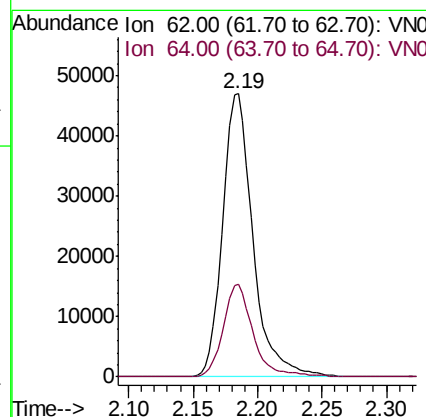
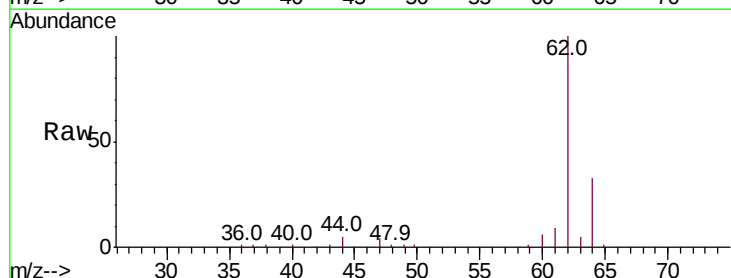
Acq: 12 Jul 2019 14:26

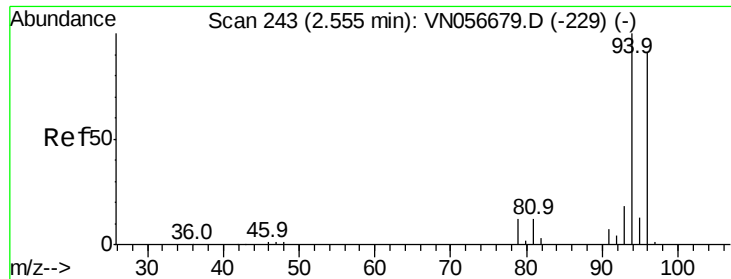
Tgt Ion: 62 Resp: 76834

Ion Ratio Lower Upper

62 100

64 32.8 25.0 37.4





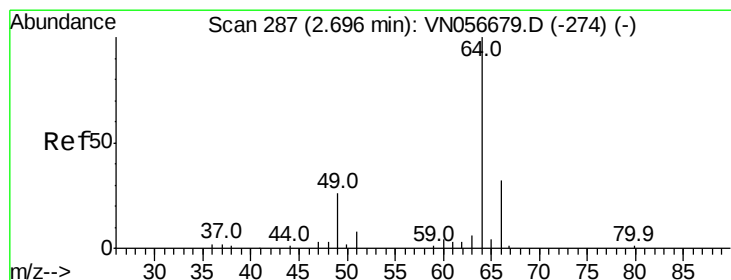
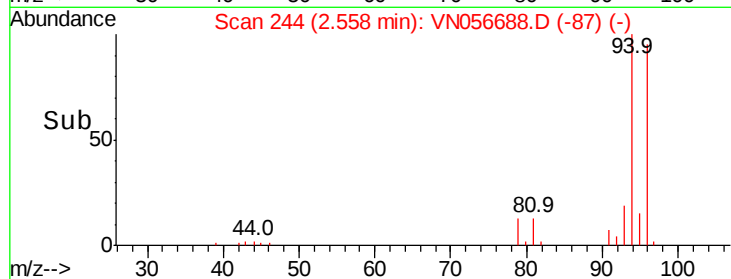
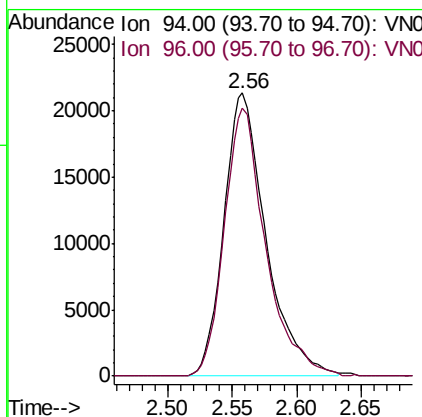
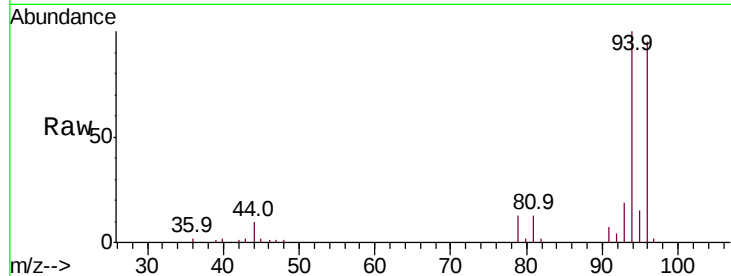
#5
Bromomethane
Concen: 19.159 ug/l
RT: 2.56 min Scan# 244
Delta R.T. 0.00 min
Lab File: VN056688.D
Acq: 12 Jul 2019 14:26

Instrument :
MSVOA_N
ClientSampleId :
VN0713WBS01

Tot Ion: 94 Resp: 48454
Ion Ratio Lower Upper
94 100
96 94.7 72.8 109.2

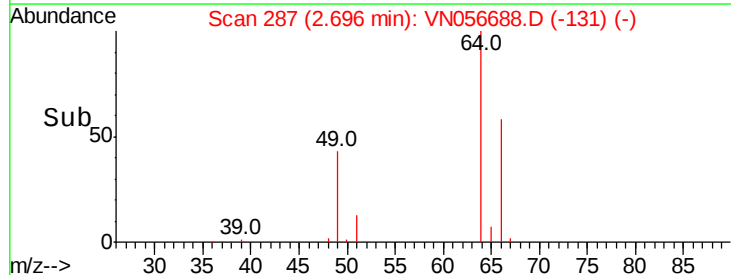
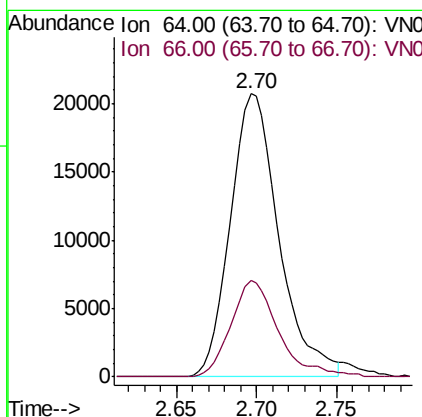
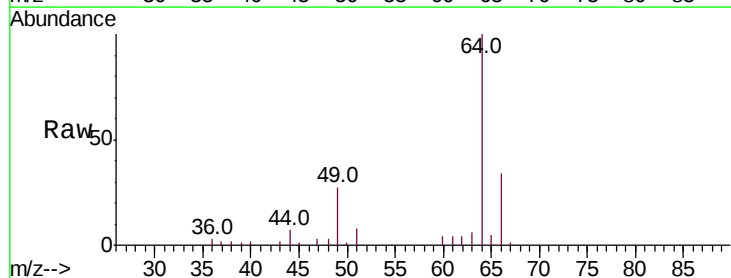
Manual Integrations
APPROVED

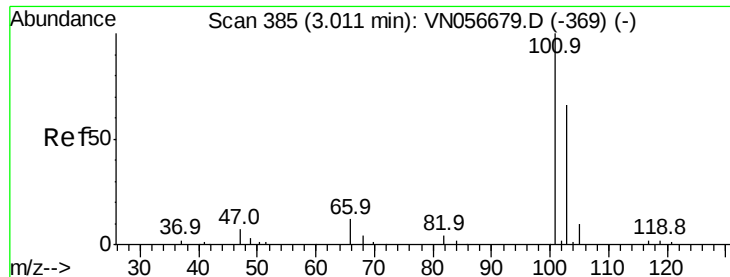
MMDadoda
7/16/2019 9:59:45 AM



#6
Chloroethane
Concen: 18.762 ug/l
RT: 2.70 min Scan# 287
Delta R.T. 0.00 min
Lab File: VN056688.D
Acq: 12 Jul 2019 14:26

Tgt Ion: 64 Resp: 43015
Ion Ratio Lower Upper
64 100
66 34.3 25.7 38.5





#7

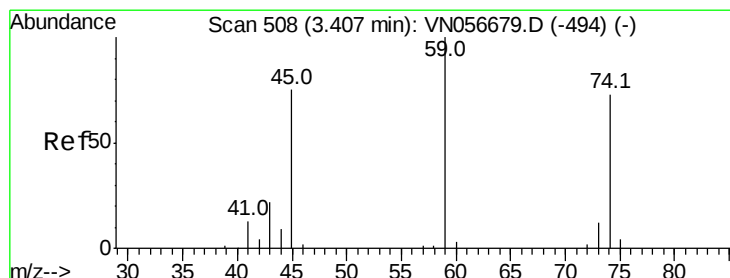
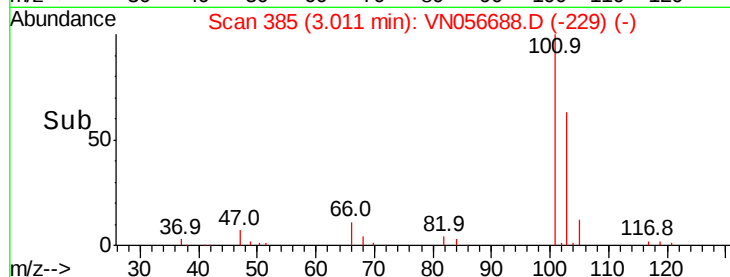
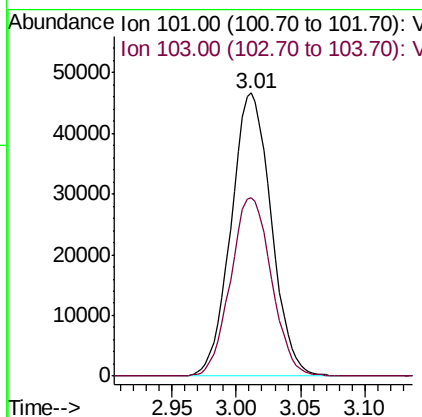
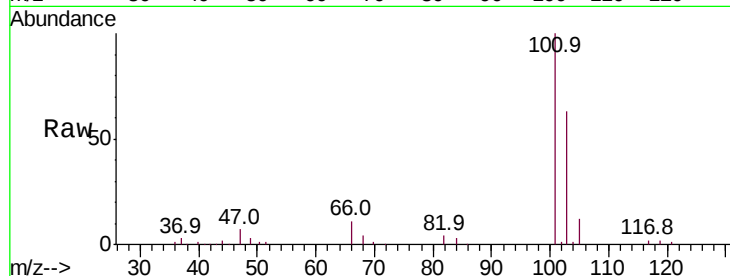
Trichlorofluoromethane
Concen: 19.627 ug/l
RT: 3.01 min Scan# 385
Delta R.T. 0.00 min
Lab File: VN056688.D
Acq: 12 Jul 2019 14:26

Instrument :
MSVOA_N
ClientSampleId :
VN0713WBS01

Tot Ion	Ratio	Lower	Upper
101	100		
103	63.1	52.8	79.2

Manual Integrations
APPROVED

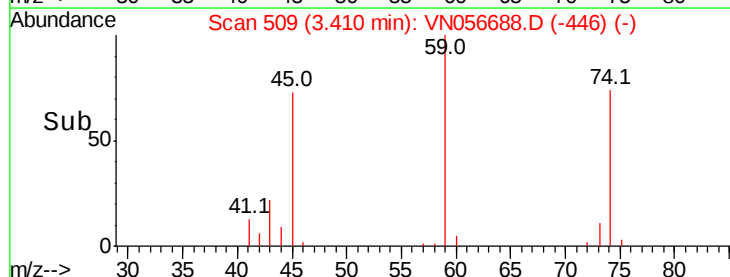
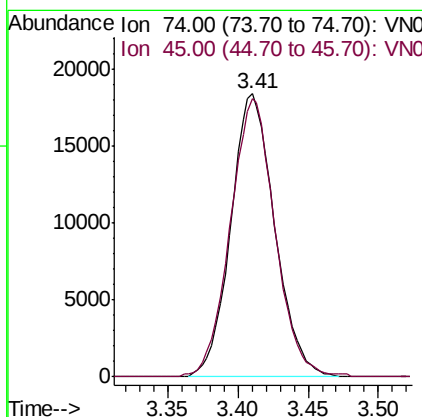
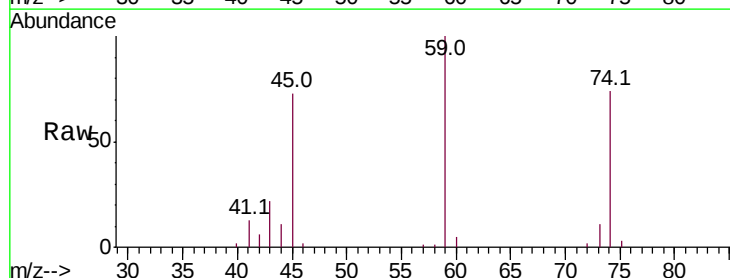
MMDadoda
7/16/2019 9:59:45 AM

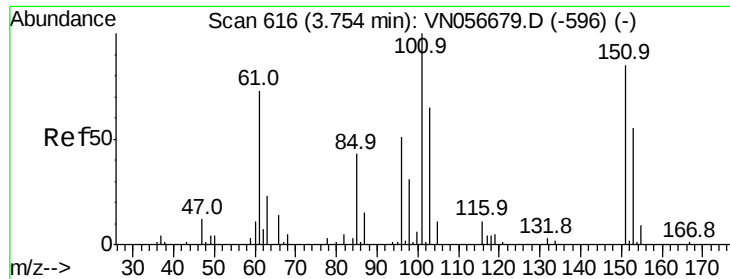


#8

Diethyl Ether
Concen: 19.045 ug/l
RT: 3.41 min Scan# 509
Delta R.T. 0.00 min
Lab File: VN056688.D
Acq: 12 Jul 2019 14:26

Tgt Ion	Ratio	Lower	Upper
74	100		
45	99.8	19.9	179.5





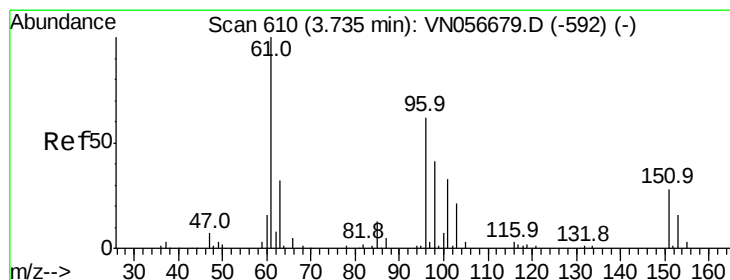
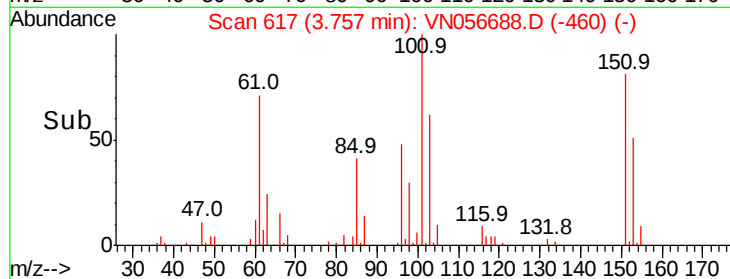
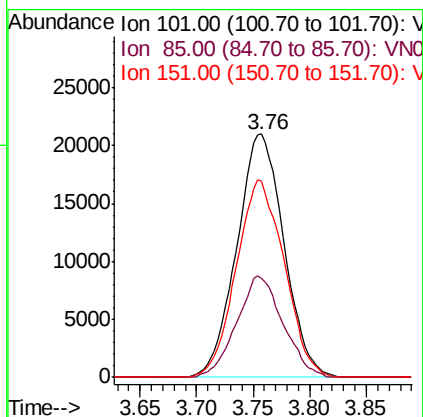
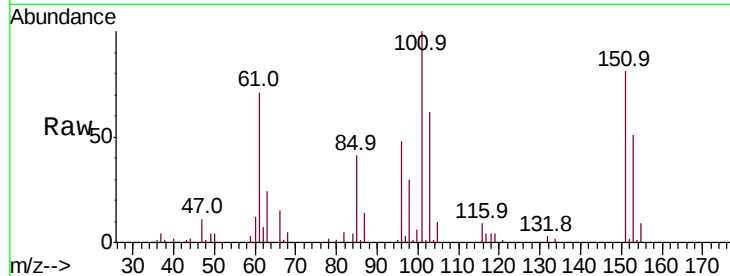
#9
 1,1,2-Trichlorotrifluoroethane
 Concen: 18.995 ug/l
 RT: 3.76 min Scan# 617
 Delta R.T. 0.00 min
 Lab File: VN056688.D
 Acq: 12 Jul 2019 14:26

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0713WBS01

Tot Ion	Ratio	Resp Lower	Upper
101	100		
85	40.8	0.0	84.2
151	82.4	0.0	167.6

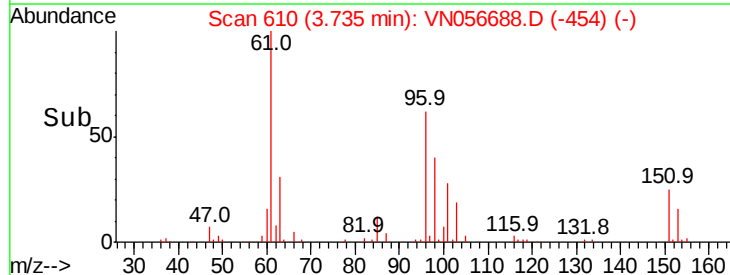
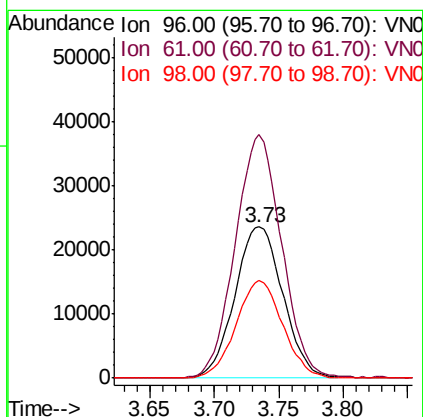
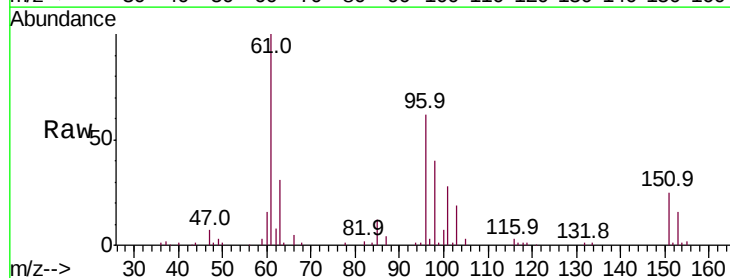
Manual Integrations
 APPROVED

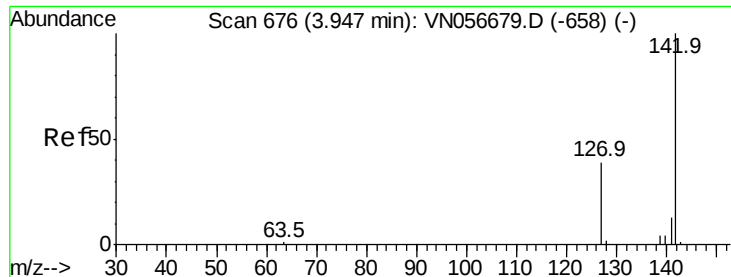
MMDadoda
 7/16/2019 9:59:45 AM



#10
 1,1-Dichloroethene
 Concen: 19.343 ug/l
 RT: 3.73 min Scan# 610
 Delta R.T. 0.00 min
 Lab File: VN056688.D
 Acq: 12 Jul 2019 14:26

Tgt Ion	Ratio	Resp Lower	Upper
96	100		
61	160.1	129.0	193.4
98	64.1	52.5	78.7





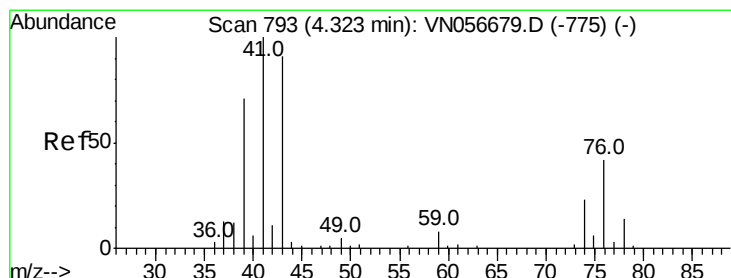
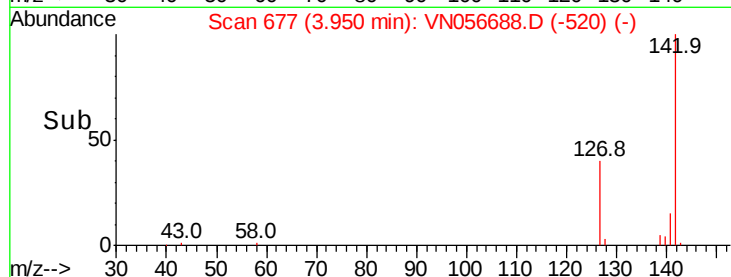
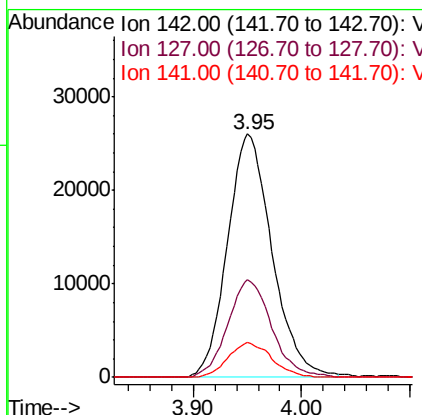
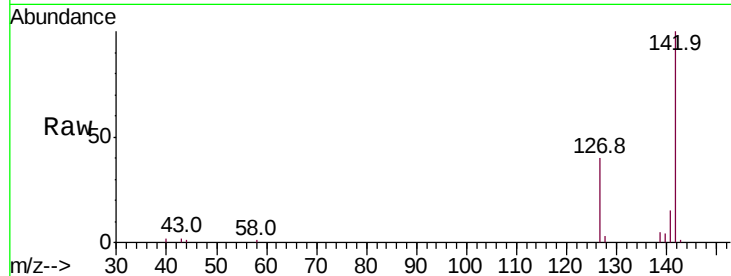
#11
Methyl Iodide
Concen: 17.809 ug/l
RT: 3.95 min Scan# 677
Delta R.T. 0.00 min
Lab File: VN056688.D
Acq: 12 Jul 2019 14:26

Instrument :
MSVOA_N
ClientSampleId :
VN0713WBS01

Tot Ion	Ratio	Lower	Upper
142	100		
127	40.5	19.5	58.5
141	14.7	6.8	20.3

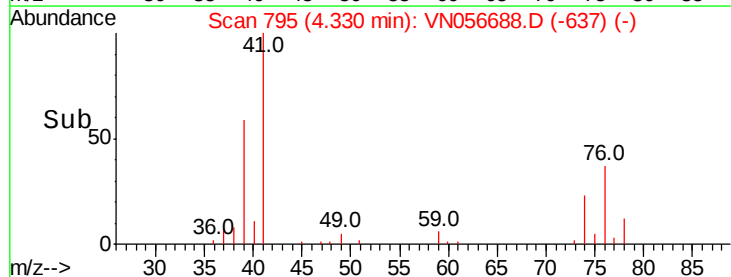
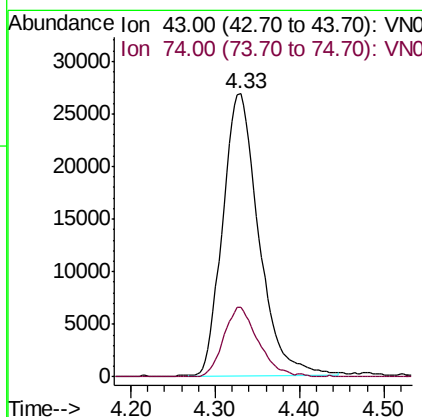
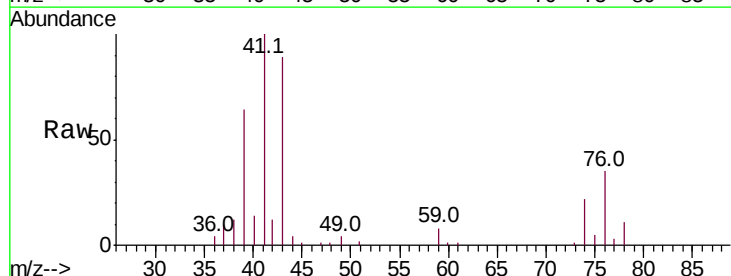
Manual Integrations
APPROVED

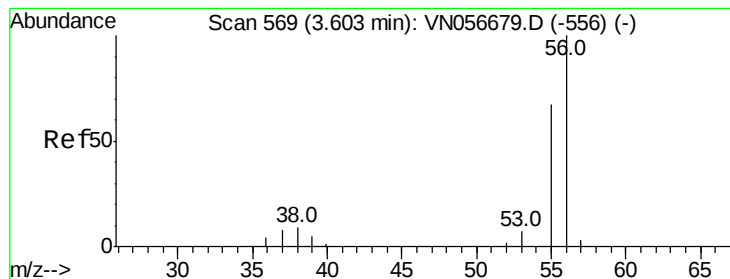
MMDadoda
7/16/2019 9:59:45 AM



#12
Methyl Acetate
Concen: 18.851 ug/l
RT: 4.33 min Scan# 795
Delta R.T. 0.01 min
Lab File: VN056688.D
Acq: 12 Jul 2019 14:26

Tgt Ion	Ratio	Lower	Upper
43	100		
74	25.0	20.2	30.4





#13

Acrolein

Concen: 82.512 ug/l

RT: 3.61 min Scan# 570

Delta R.T. 0.00 min

Lab File: VN056688.D

Acq: 12 Jul 2019 14:26

Instrument :

MSVOA_N

ClientSampleId :

VN0713WBS01

Tot Ion: 56 Resp: 24653

Ion Ratio Lower Upper

56 100

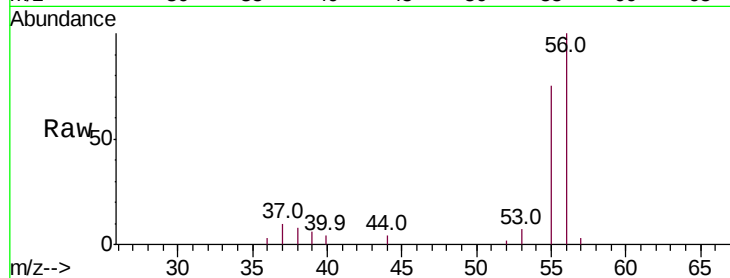
55 70.1 56.9 85.3

Manual Integrations

APPROVED

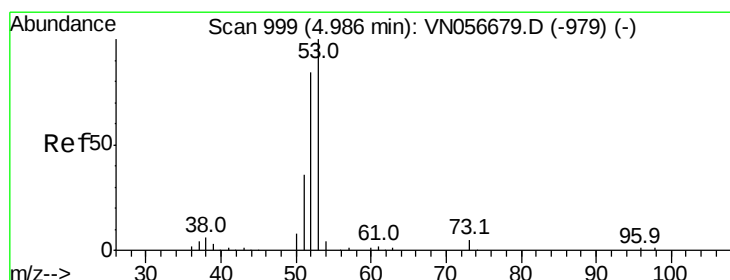
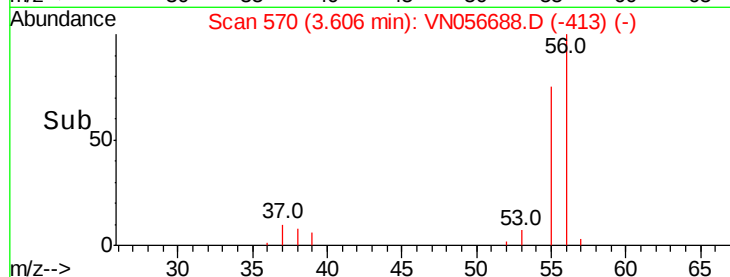
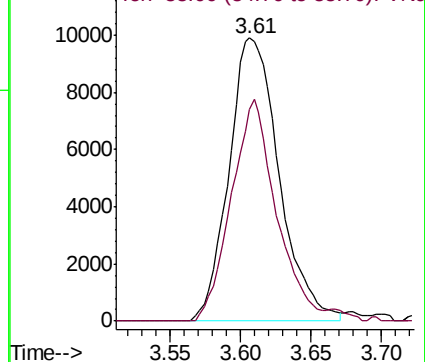
MMDadoda

7/16/2019 9:59:45 AM



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#14

Acrylonitrile

Concen: 98.226 ug/l

RT: 4.99 min Scan# 1000

Delta R.T. 0.00 min

Lab File: VN056688.D

Acq: 12 Jul 2019 14:26

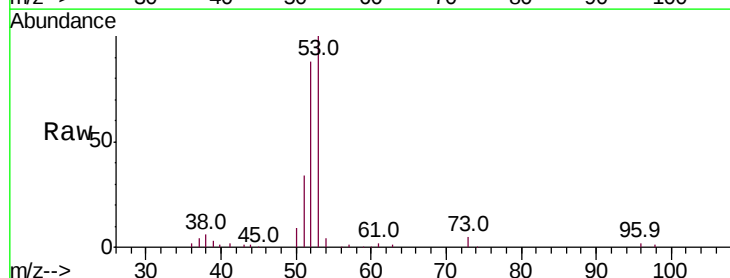
Tgt Ion: 53 Resp: 183371

Ion Ratio Lower Upper

53 100

52 82.7 41.3 123.7

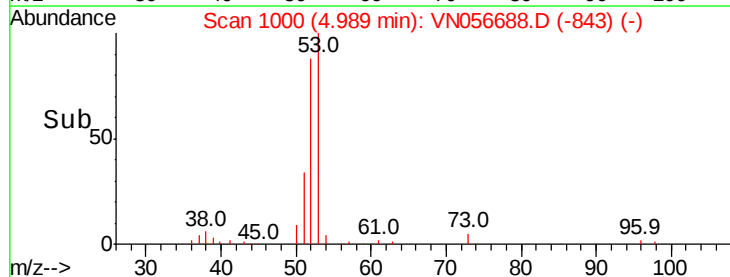
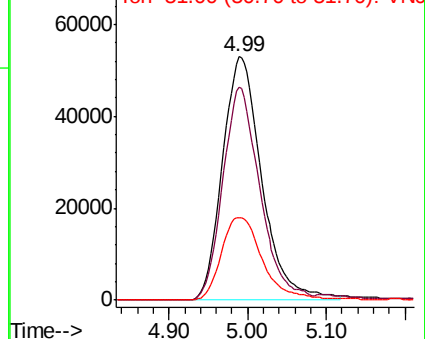
51 35.6 17.7 53.1

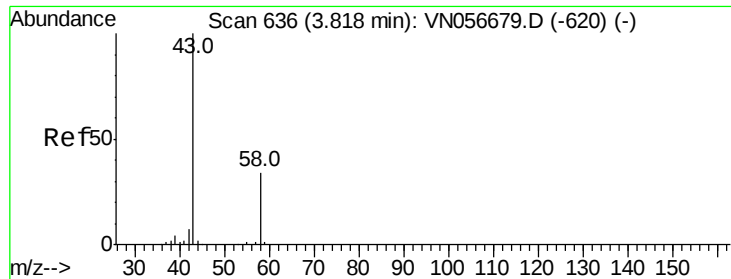


Abundance Ion 53.00 (52.70 to 53.70): VN0

Ion 52.00 (51.70 to 52.70): VN0

Ion 51.00 (50.70 to 51.70): VN0





#15

Acetone

Concen: 80.002 ug/l

RT: 3.82 min Scan# 636

Delta R.T. 0.00 min

Lab File: VN056688.D

Acq: 12 Jul 2019 14:26

Instrument :

MSVOA_N

ClientSampleId :

VN0713WBS01

Tot Ion: 58 Resp: 51554

Ion Ratio Lower Upper

58 100

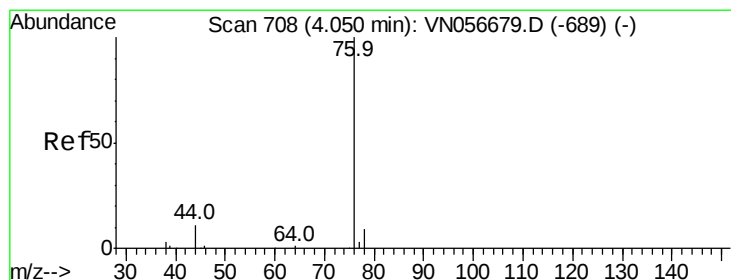
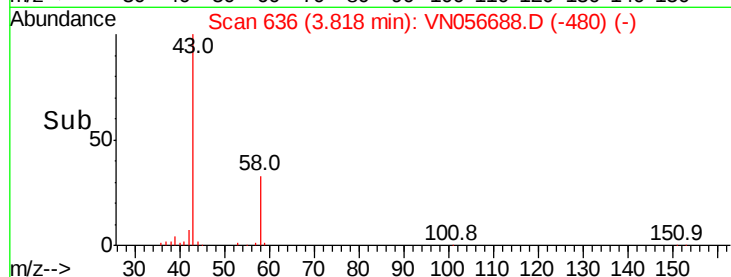
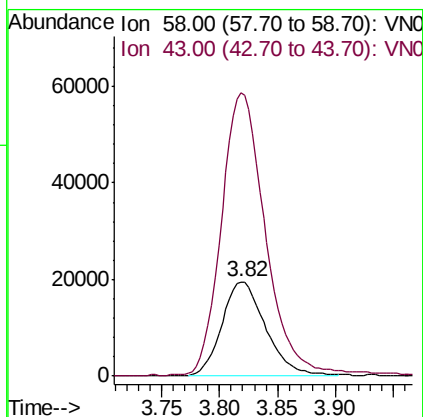
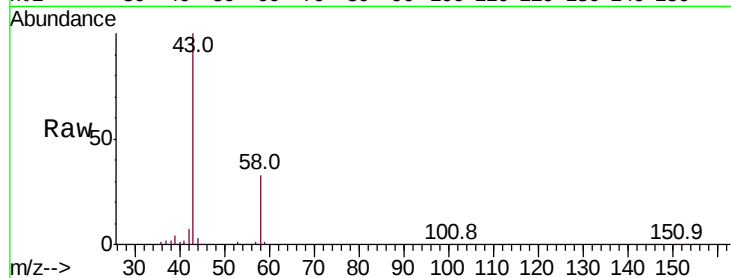
43 296.9 233.9 350.9

Manual Integrations

APPROVED

MMDadoda

7/16/2019 9:59:45 AM



#16

Carbon Disulfide

Concen: 18.232 ug/l

RT: 4.05 min Scan# 708

Delta R.T. 0.00 min

Lab File: VN056688.D

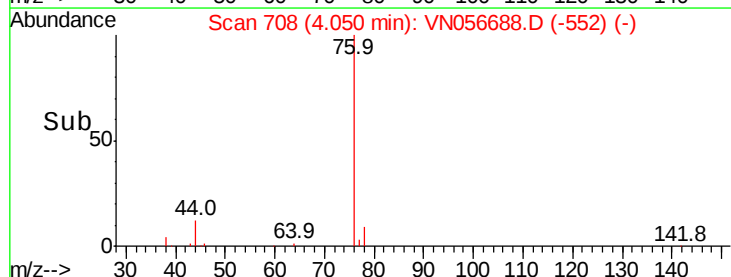
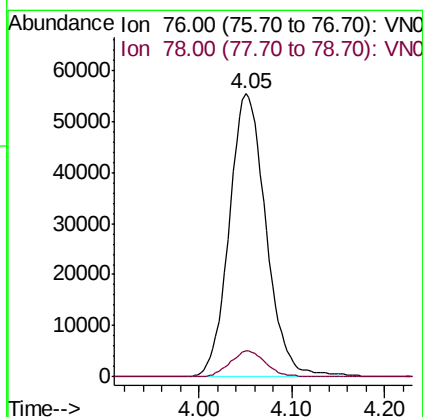
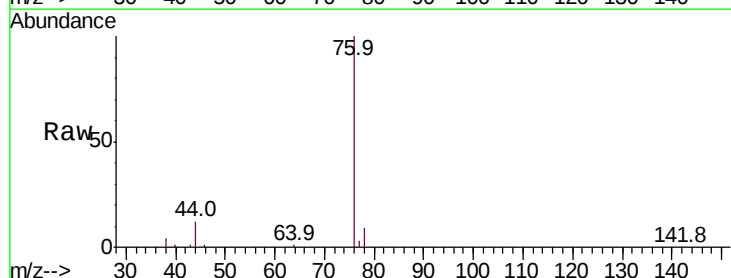
Acq: 12 Jul 2019 14:26

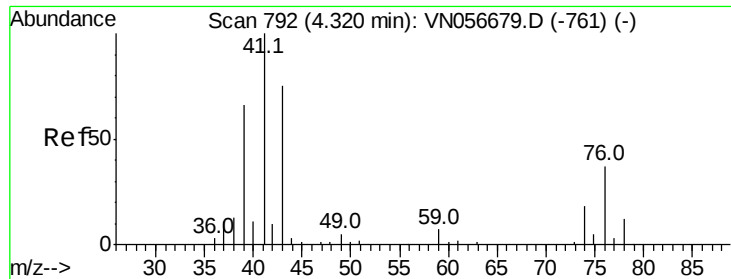
Tgt Ion: 76 Resp: 152240

Ion Ratio Lower Upper

76 100

78 9.2 7.4 11.0





#17

Allvl chloride

Concen: 18.760 ug/l

RT: 4.32 min Scan# 793

Delta R.T. 0.00 min

Lab File: VN056688.D

Acq: 12 Jul 2019 14:26

Instrument :

MSVOA_N

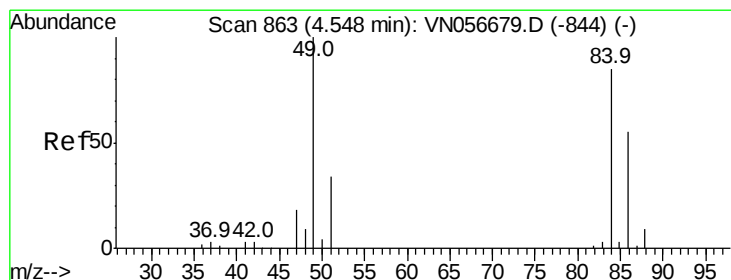
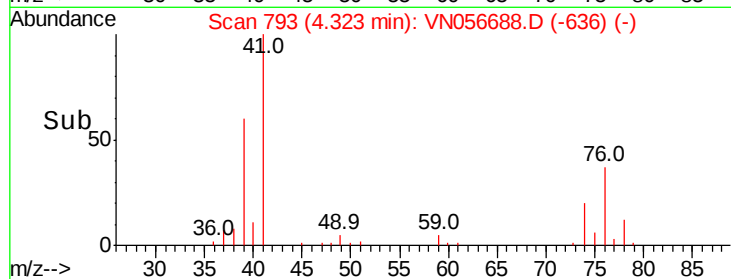
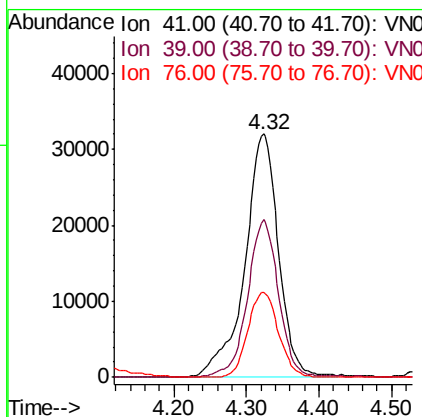
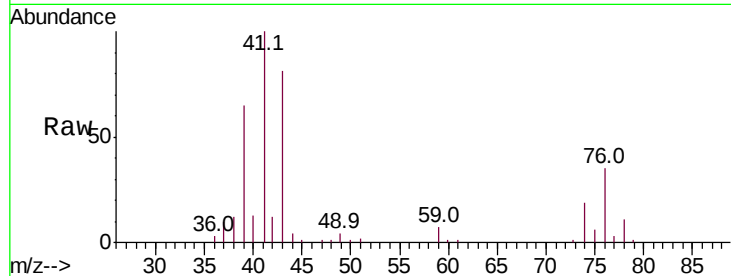
ClientSampleId :

VN0713WBS01

Tot Ion:	41	Resp:	103892
Ion Ratio	Lower	Upper	
41	100		
39	65.0	32.8	98.4
76	35.1	18.5	55.5

Manual Integrations
APPROVED

MMDadoda
7/16/2019 9:59:45 AM



#18

Methylene Chloride

Concen: 19.350 ug/l

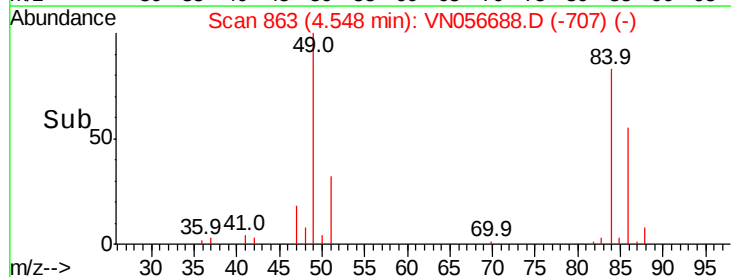
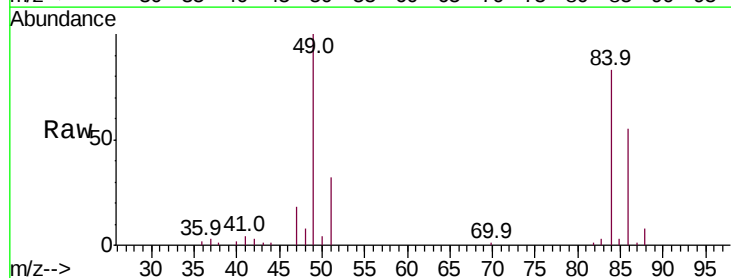
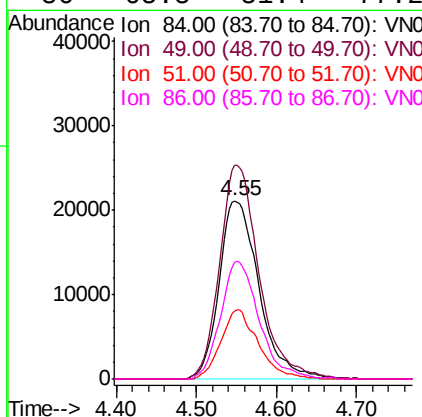
RT: 4.55 min Scan# 863

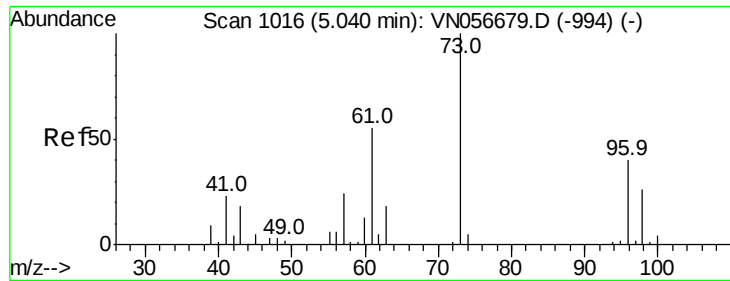
Delta R.T. 0.00 min

Lab File: VN056688.D

Acq: 12 Jul 2019 14:26

Tgt Ion:	84	Resp:	71923
Ion Ratio	Lower	Upper	
84	100		
49	119.9	93.9	140.9
51	38.3	31.7	47.5
86	65.5	51.4	77.2





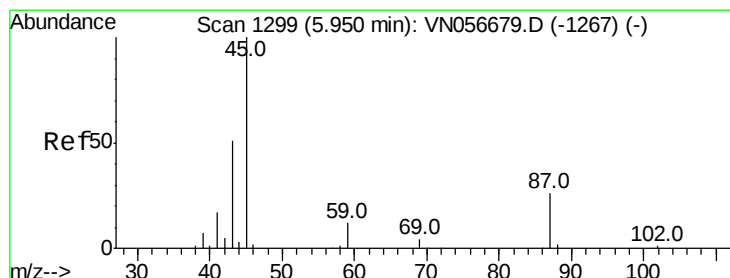
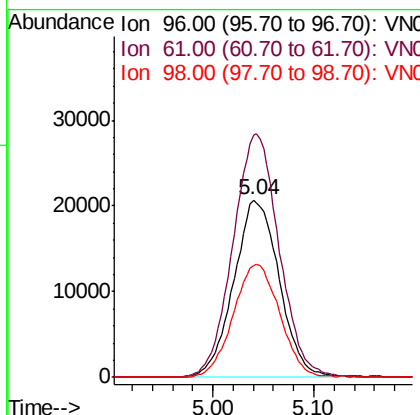
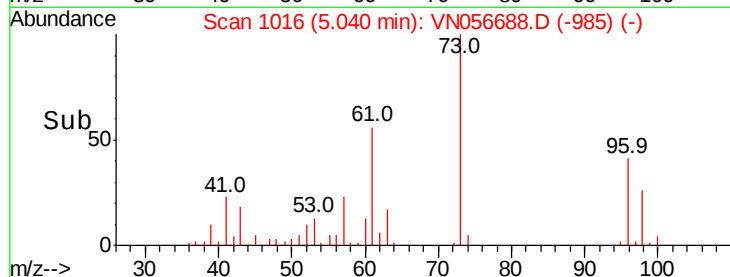
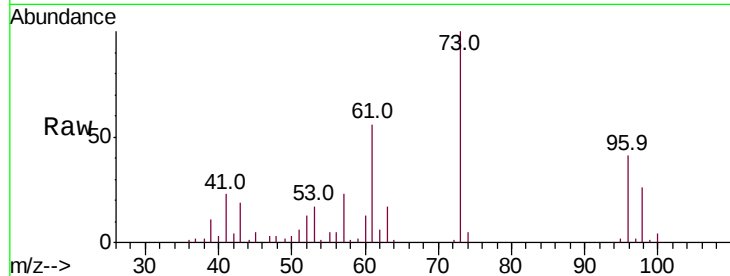
#19
trans-1,2-Dichloroethene
Concen: 19.122 ug/l
RT: 5.04 min Scan# 1016
Delta R.T. 0.00 min
Lab File: VN056688.D
Acq: 12 Jul 2019 14:26

Instrument :
MSVOA_N
ClientSampleId :
VN0713WBS01

Tot Ion	Ratio	Lower	Upper
96	100		
61	135.5	109.6	164.4
98	63.4	51.4	77.2

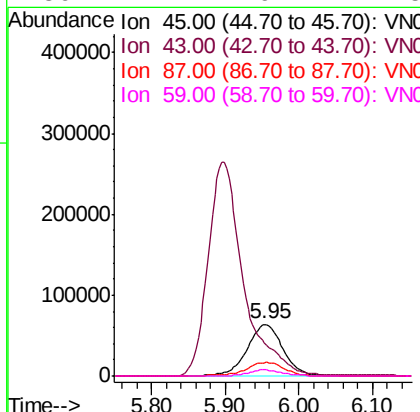
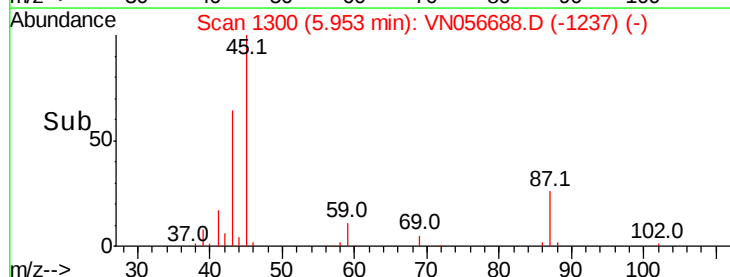
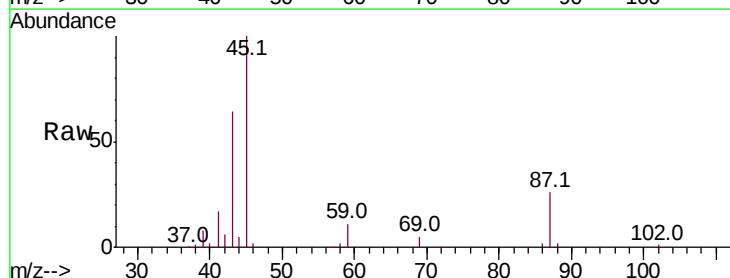
Manual Integrations
APPROVED

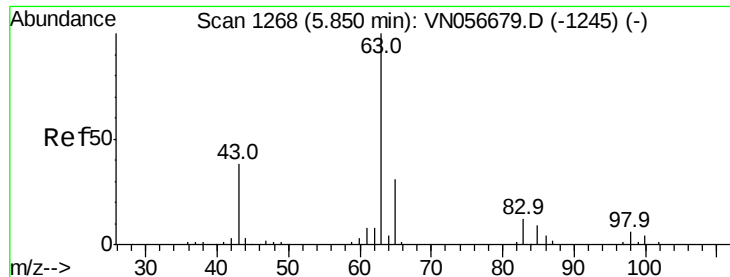
MMDadoda
7/16/2019 9:59:45 AM



#20
Diisopropyl ether
Concen: 19.533 ug/l
RT: 5.95 min Scan# 1300
Delta R.T. 0.00 min
Lab File: VN056688.D
Acq: 12 Jul 2019 14:26

Tgt Ion	Ratio	Lower	Upper
45	100		
43	62.0	50.3	75.5
87	25.8	21.4	32.0
59	11.2	9.7	14.5





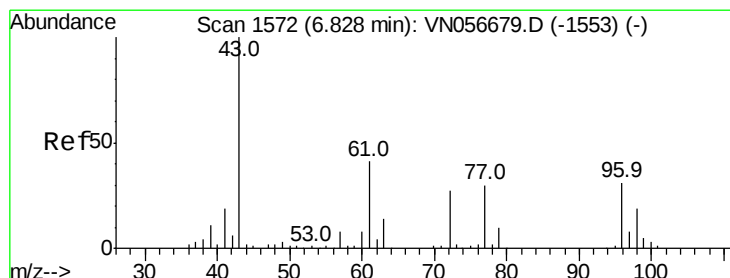
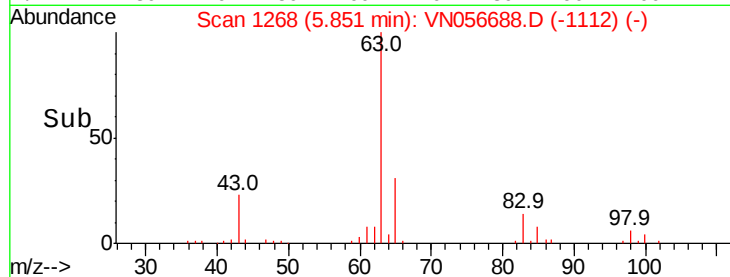
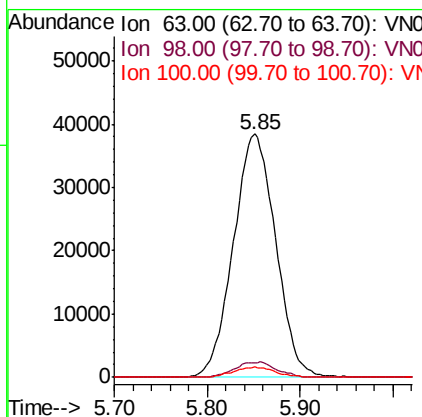
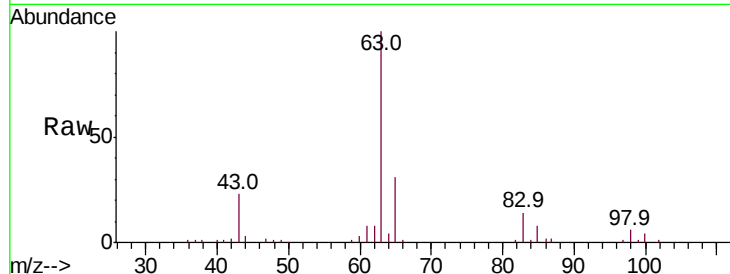
#21
 1,1-Dichloroethane
 Concen: 19.319 ug/l
 RT: 5.85 min Scan# 1268
 Delta R.T. 0.00 min
 Lab File: VN056688.D
 Acq: 12 Jul 2019 14:26

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0713WBS01

Tot Ion	Ratio	Resp Lower	Upper
63	100		
98	6.1	3.3	9.8
100	4.1	2.1	6.3

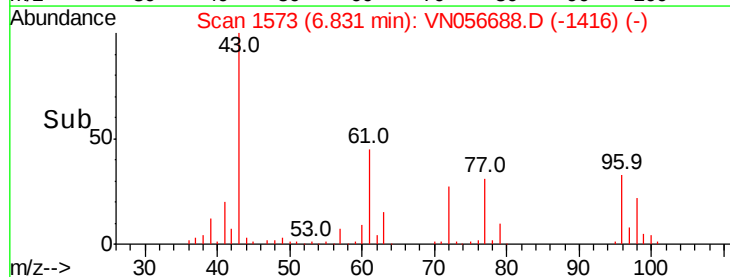
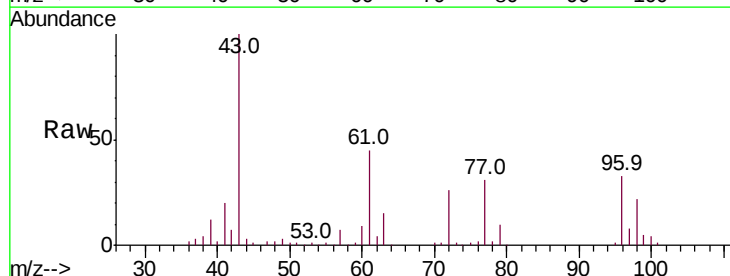
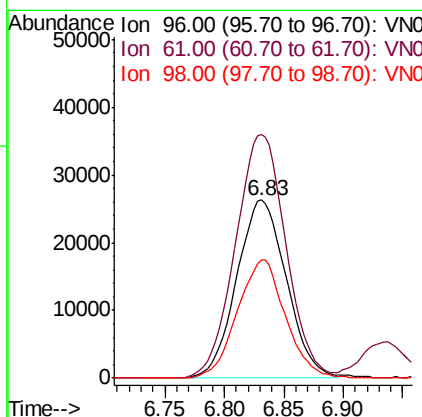
Manual Integrations
 APPROVED

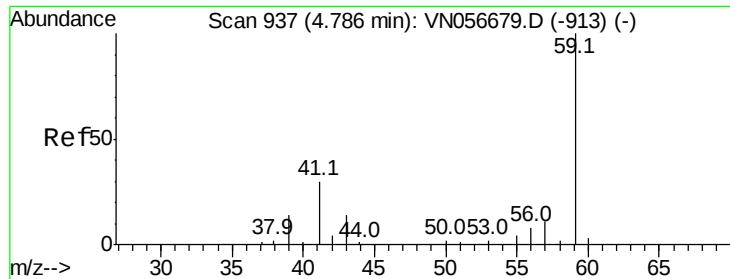
MMDadoda
 7/16/2019 9:59:45 AM



#22
 cis-1,2-Dichloroethene
 Concen: 19.215 ug/l
 RT: 6.83 min Scan# 1573
 Delta R.T. 0.00 min
 Lab File: VN056688.D
 Acq: 12 Jul 2019 14:26

Tgt Ion	Ratio	Resp Lower	Upper
96	100		
61	138.7	112.1	168.1
98	64.1	52.2	78.2





#23

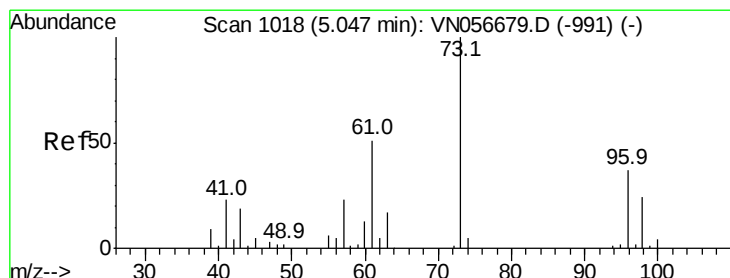
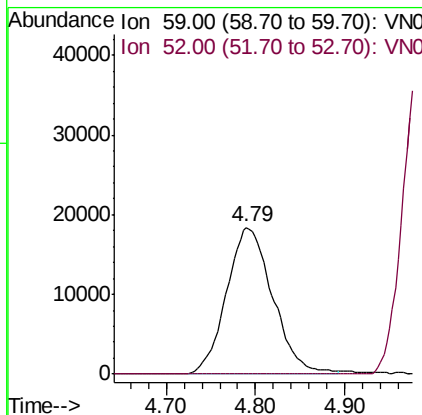
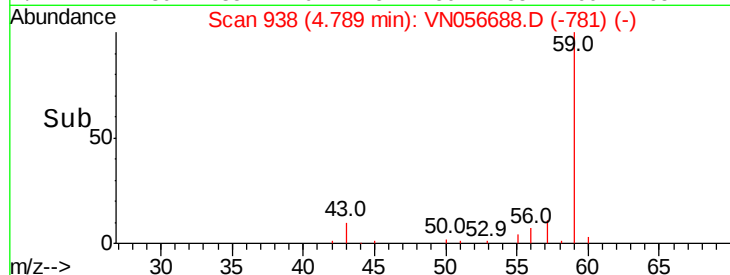
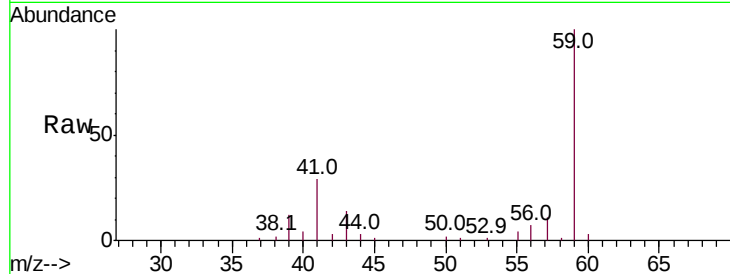
tert-Butyl Alcohol
Concen: 101.565 ug/l
RT: 4.79 min Scan# 938
Delta R.T. 0.00 min
Lab File: VN056688.D
Acq: 12 Jul 2019 14:26

Instrument :
MSVOA_N
ClientSampleId :
VN0713WBS01

Tot Ion: 59 Resp: 66141
Ion Ratio Lower Upper
59 100
52 0.0 0.1 0.1#

Manual Integrations
APPROVED

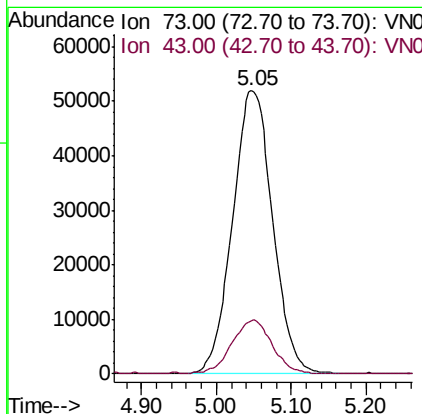
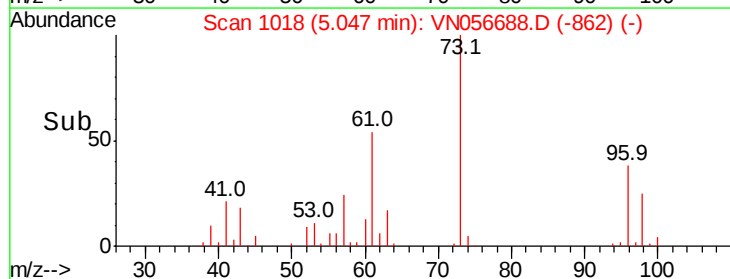
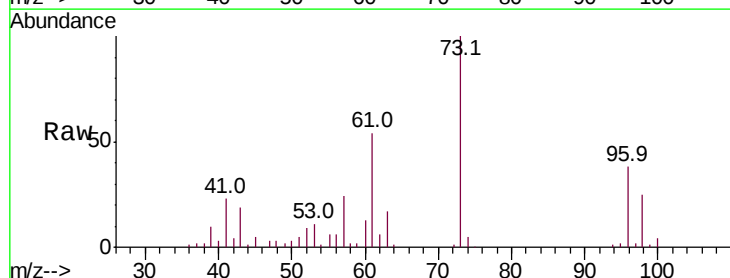
MMDadoda
7/16/2019 9:59:45 AM

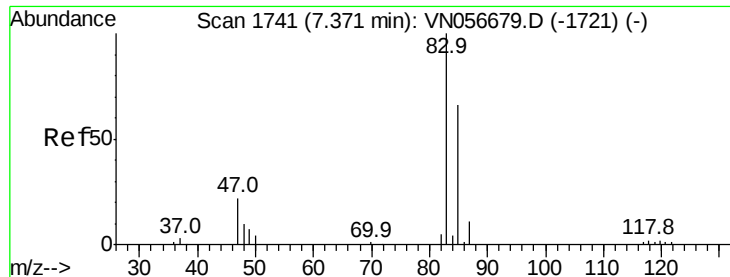


#24

Methyl tert-Butyl Ether
Concen: 19.184 ug/l
RT: 5.05 min Scan# 1018
Delta R.T. 0.00 min
Lab File: VN056688.D
Acq: 12 Jul 2019 14:26

Tgt Ion: 73 Resp: 193713
Ion Ratio Lower Upper
73 100
43 19.2 15.1 22.7





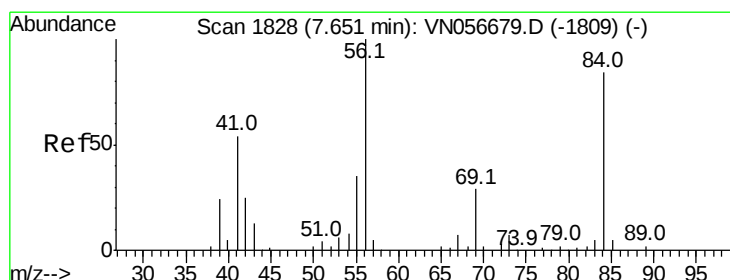
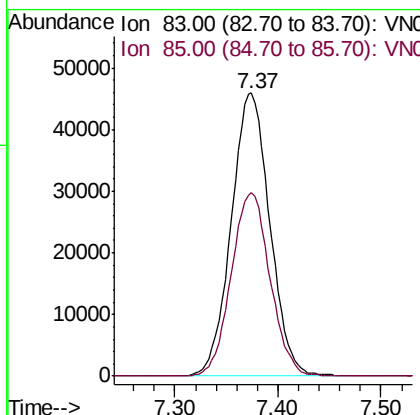
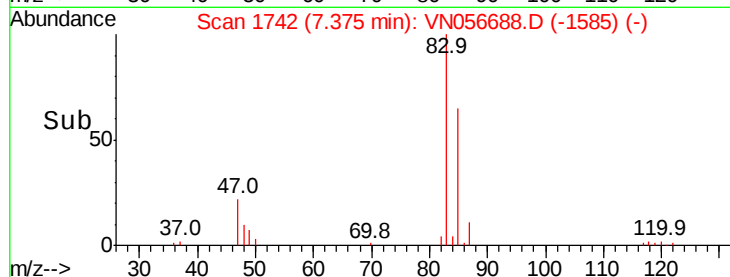
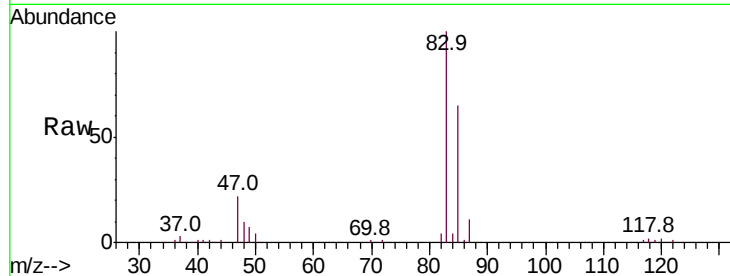
#25
Chloroform
Concen: 19.460 ug/l
RT: 7.37 min Scan# 1742
Delta R.T. 0.00 min
Lab File: VN056688.D
Acq: 12 Jul 2019 14:26

Instrument :
MSVOA_N
ClientSampleId :
VN0713WBS01

Tot Ion	83	Resp	119532
Ion	Ratio	Lower	Upper
83	100		
85	64.7	52.6	79.0

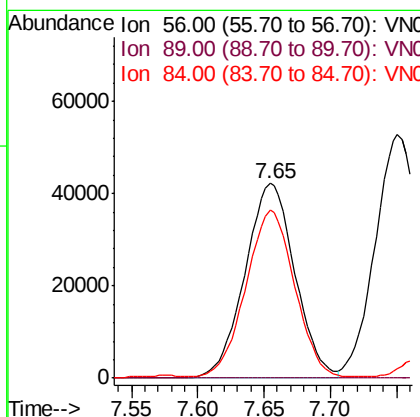
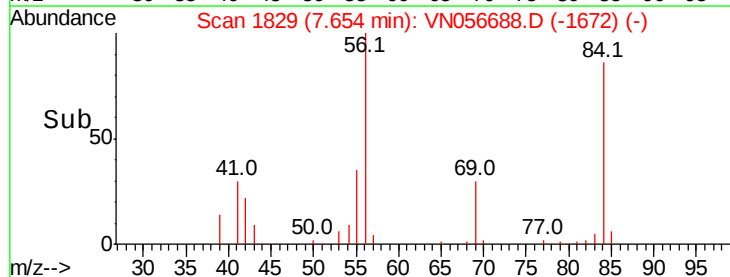
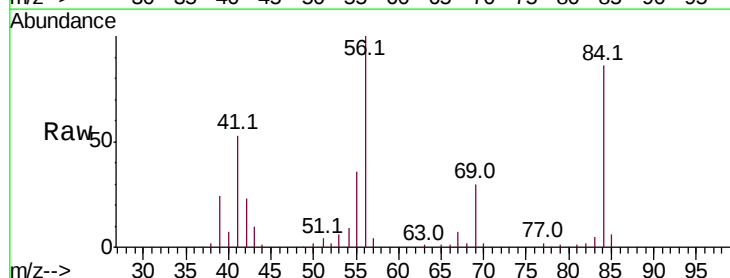
Manual Integrations
APPROVED

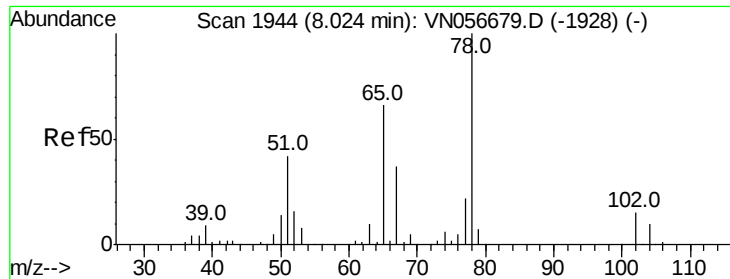
MMDadoda
7/16/2019 9:59:45 AM



#26
Cyclohexane
Concen: 18.929 ug/l
RT: 7.65 min Scan# 1829
Delta R.T. 0.00 min
Lab File: VN056688.D
Acq: 12 Jul 2019 14:26

Tgt Ion	56	Resp	110935
Ion	Ratio	Lower	Upper
56	100		
89	0.0	1.4	2.2#
84	84.1	68.2	102.4





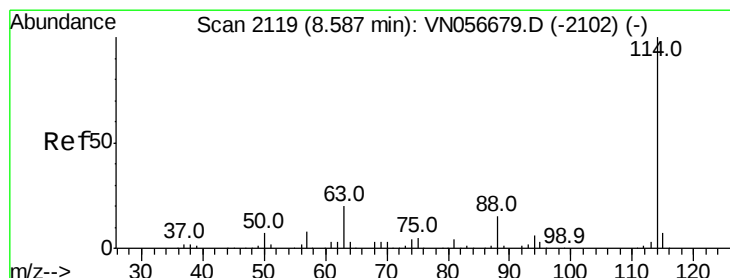
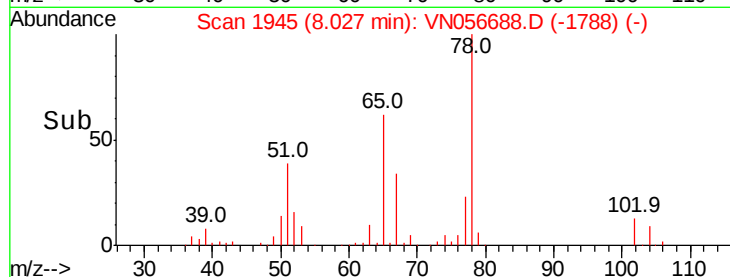
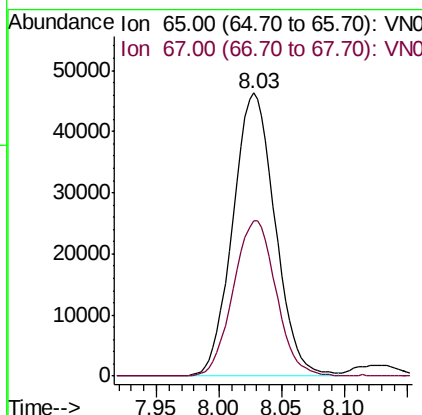
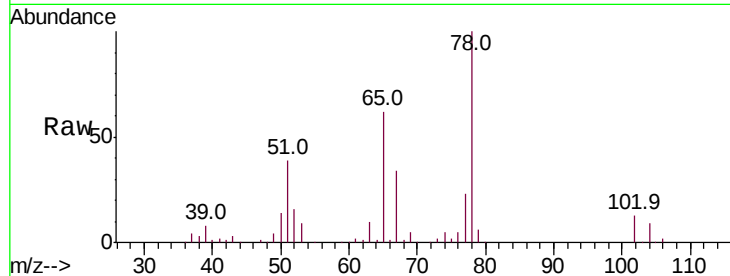
#27
 1,2-Dichloroethane-d4
 Concen: 29.883 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN056688.D
 Acq: 12 Jul 2019 14:26

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0713WBS01

Tot Ion	Ratio	Resp	Lower	Upper
65	100	108655		
67	55.4		43.4	65.0

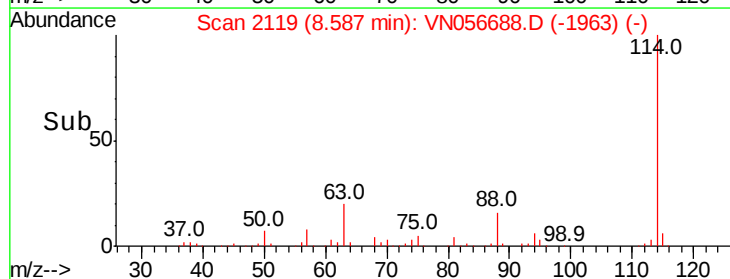
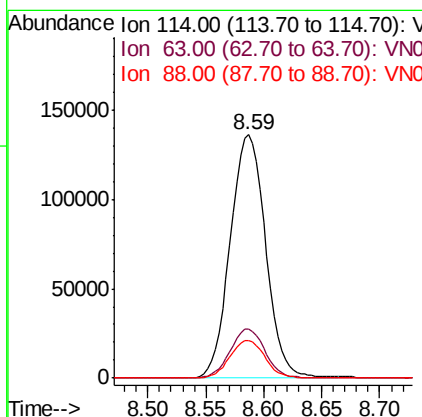
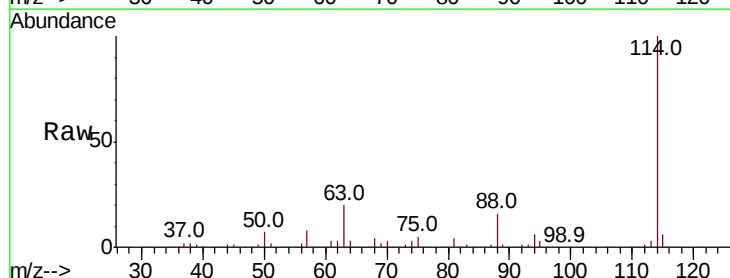
Manual Integrations
 APPROVED

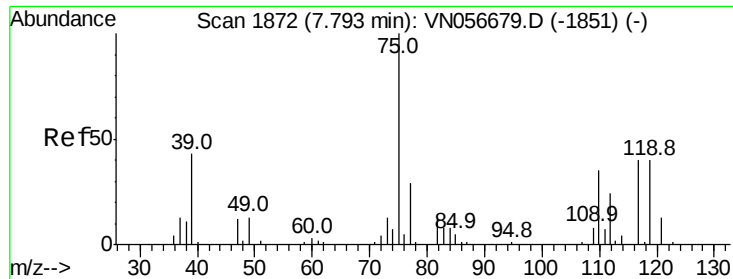
MMDadoda
 7/16/2019 9:59:45 AM



#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN056688.D
 Acq: 12 Jul 2019 14:26

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	290250		
63	19.8		16.2	24.2
88	15.3		12.3	18.5





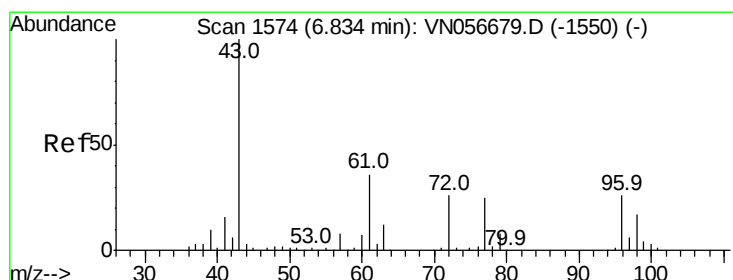
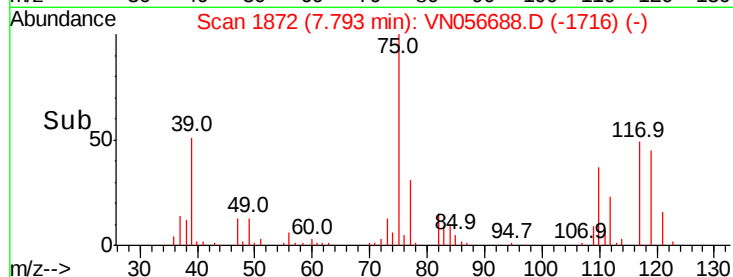
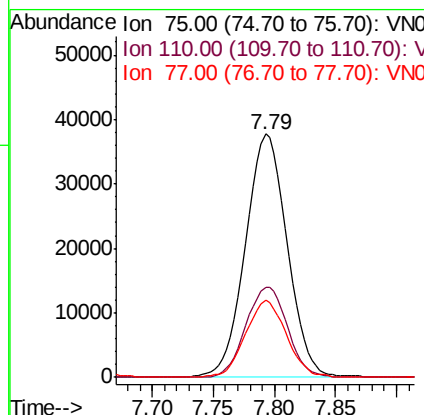
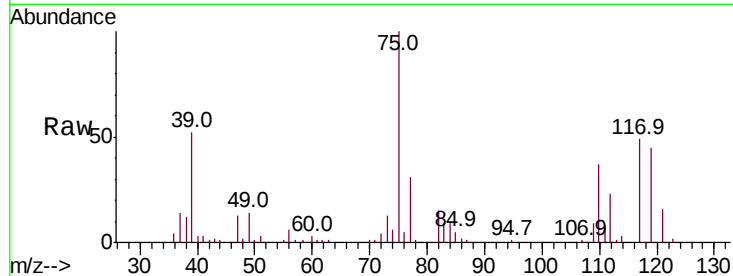
#29
 1,1-Dichloropropene
 Concen: 19.401 ug/l
 RT: 7.79 min Scan# 1872
 Delta R.T. 0.00 min
 Lab File: VN056688.D
 Acq: 12 Jul 2019 14:26

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0713WBS01

Tot Ion	Ratio	Lower	Upper
75	100		
110	36.9	0.0	72.4
77	30.9	0.0	62.2

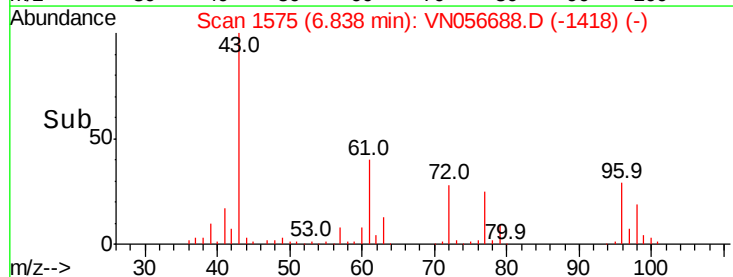
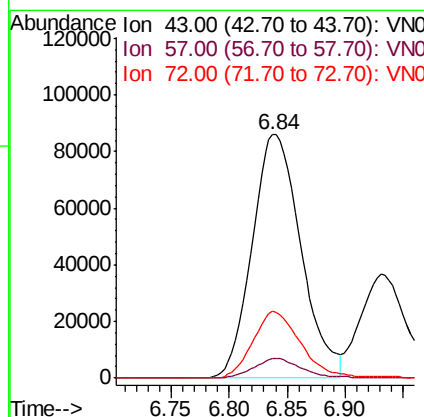
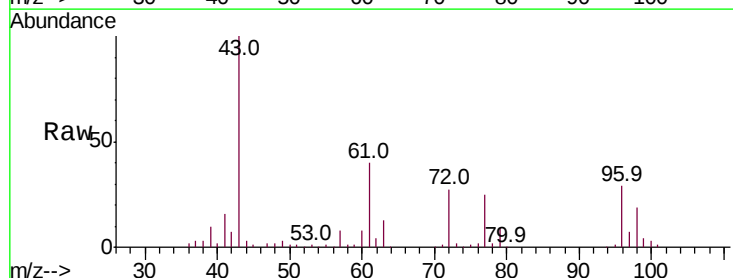
Manual Integrations
 APPROVED

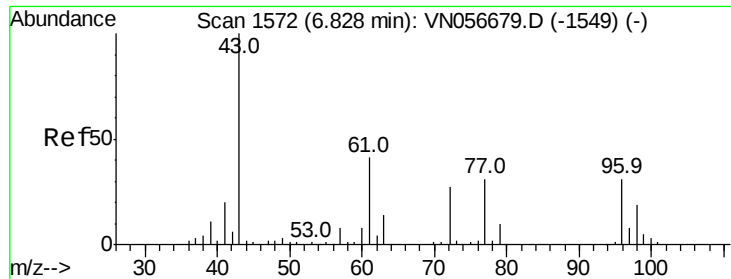
MMDadoda
 7/16/2019 9:59:45 AM



#30
 2-Butanone
 Concen: 93.985 ug/l
 RT: 6.84 min Scan# 1575
 Delta R.T. 0.00 min
 Lab File: VN056688.D
 Acq: 12 Jul 2019 14:26

Tgt Ion	Ratio	Lower	Upper
43	100		
57	7.8	6.6	10.0
72	26.7	21.3	31.9





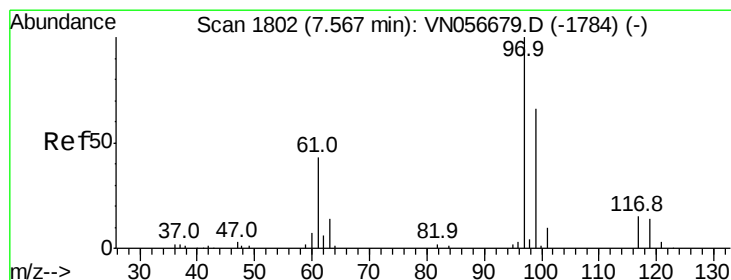
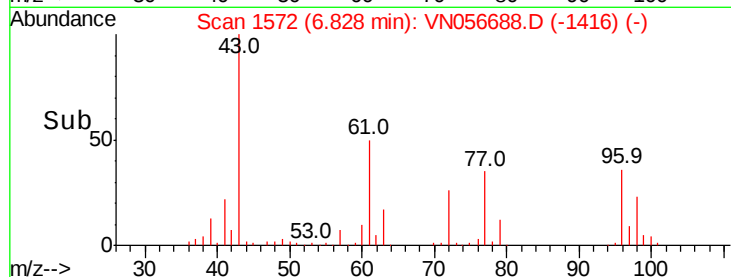
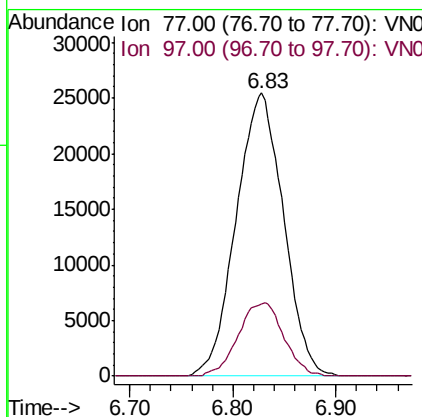
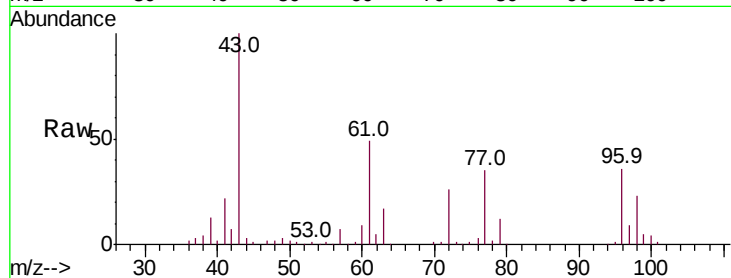
#31
 2,2-Dichloropropane
 Concen: 18.140 ug/l
 RT: 6.83 min Scan# 1572
 Delta R.T. 0.00 min
 Lab File: VN056688.D
 Acq: 12 Jul 2019 14:26

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0713WBS01

Tot Ion: 77 Resp: 81000
 Ion Ratio Lower Upper
 77 100
 97 25.0 19.7 29.5

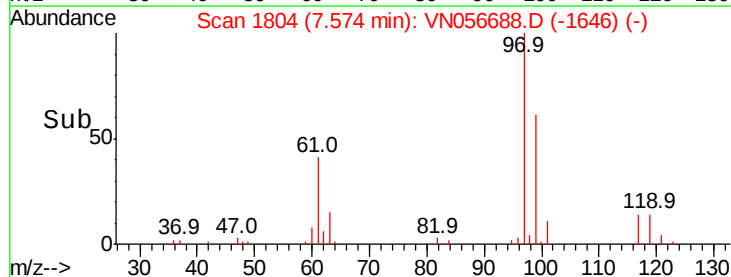
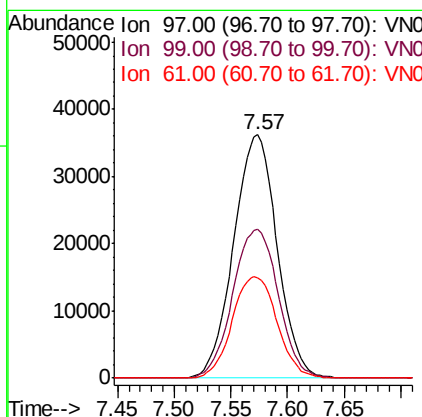
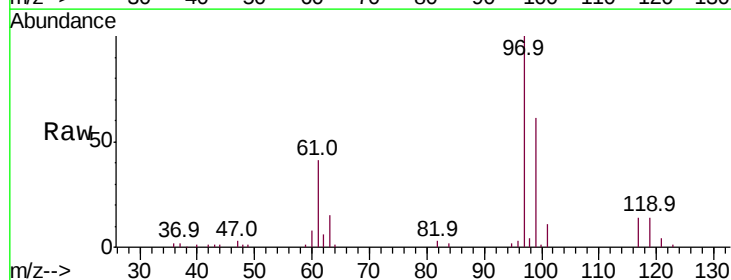
Manual Integrations
 APPROVED

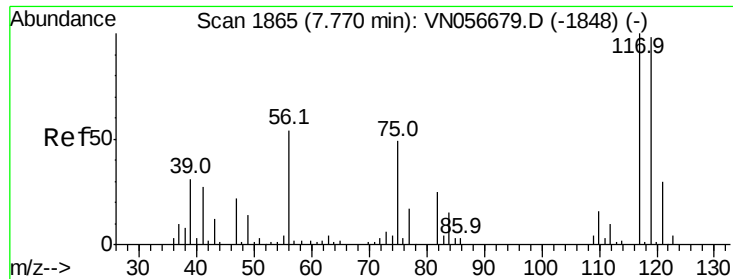
MMDadoda
 7/16/2019 9:59:45 AM



#32
 1,1,1-Trichloroethane
 Concen: 19.683 ug/l
 RT: 7.57 min Scan# 1804
 Delta R.T. 0.01 min
 Lab File: VN056688.D
 Acq: 12 Jul 2019 14:26

Tgt Ion: 97 Resp: 96802
 Ion Ratio Lower Upper
 97 100
 99 64.1 52.0 78.0
 61 43.0 34.4 51.6





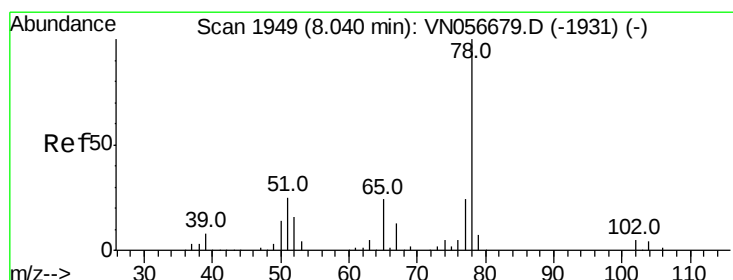
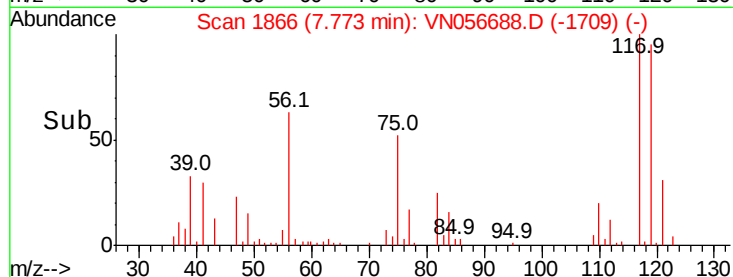
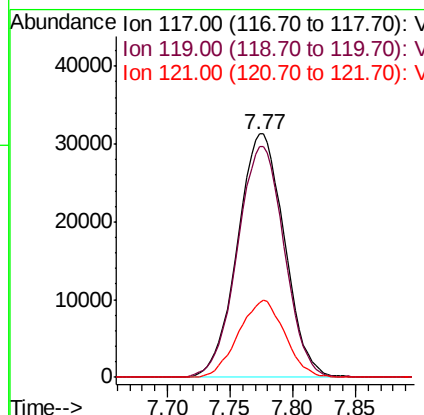
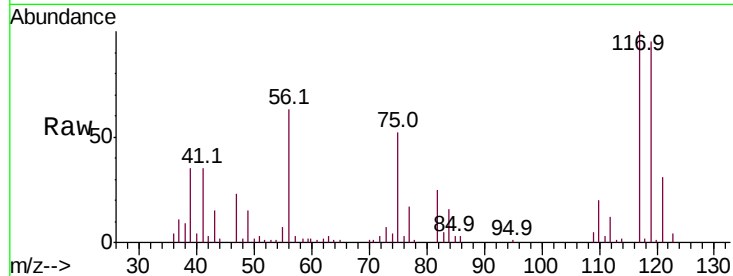
#33
Carbon Tetrachloride
Concen: 19.233 ug/l
RT: 7.77 min Scan# 1866
Delta R.T. 0.00 min
Lab File: VN056688.D
Acq: 12 Jul 2019 14:26

Instrument :
MSVOA_N
ClientSampleId :
VN0713WBS01

Tot Ion:117 Resp: 81396
Ion Ratio Lower Upper
117 100
119 95.0 78.7 118.1
121 30.9 24.0 36.0

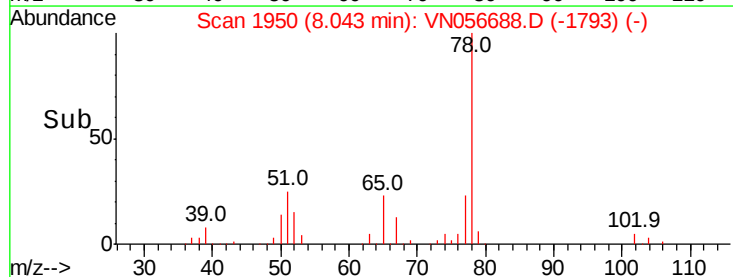
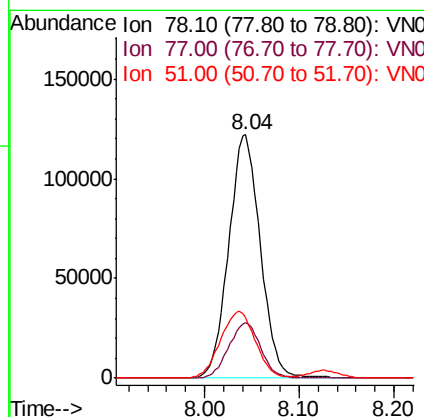
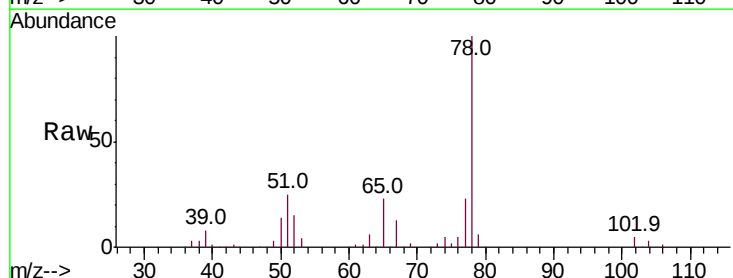
Manual Integrations
APPROVED

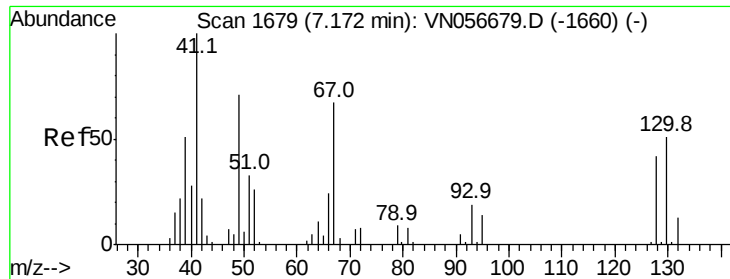
MMDadoda
7/16/2019 9:59:45 AM



#34
Benzene
Concen: 19.996 ug/l
RT: 8.04 min Scan# 1950
Delta R.T. 0.00 min
Lab File: VN056688.D
Acq: 12 Jul 2019 14:26

Tgt Ion: 78 Resp: 283462
Ion Ratio Lower Upper
78 100
77 22.7 19.0 28.4
51 24.7 19.7 29.5





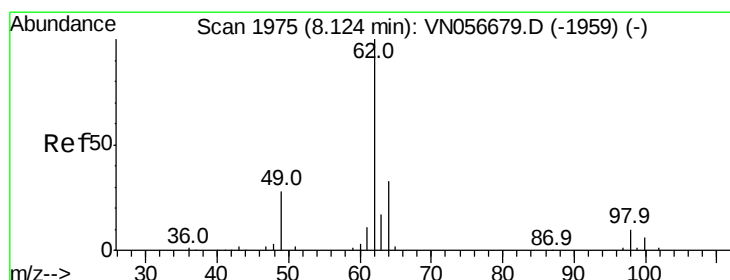
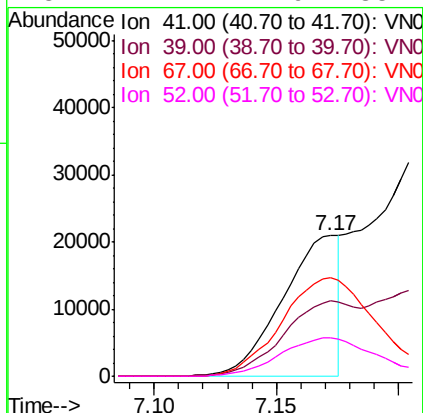
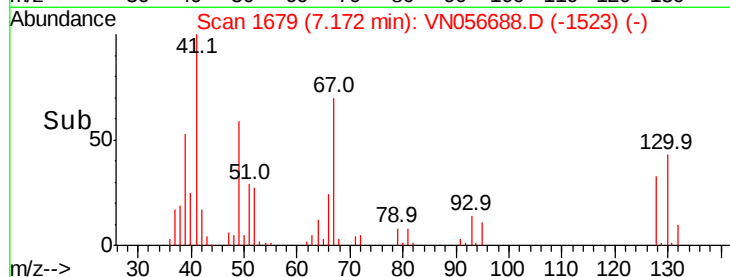
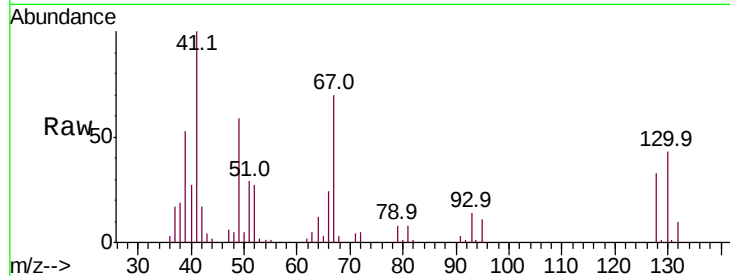
#35
Methacrylonitrile
Concen: 16.514 ug/l
RT: 7.17 min Scan# 1679
Delta R.T. 0.00 min
Lab File: VN056688.D
Acq: 12 Jul 2019 14:26

Instrument :
MSVOA_N
ClientSampleId :
VN0713WBS01

Tot Ion	Ratio	Lower	Upper
41	100		
39	53.5	25.4	76.2
67	69.8	33.6	100.8
52	27.2	12.9	38.7

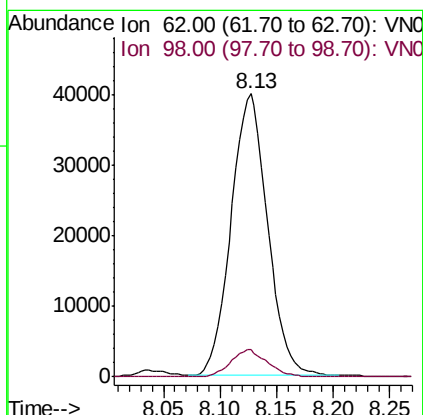
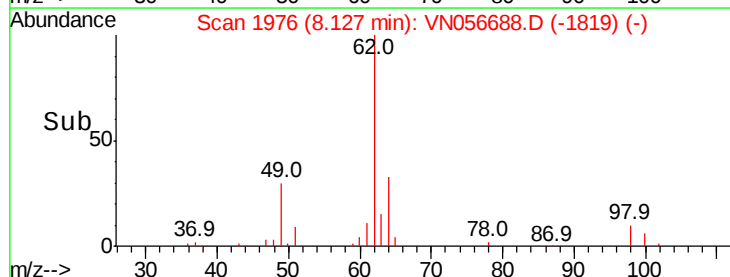
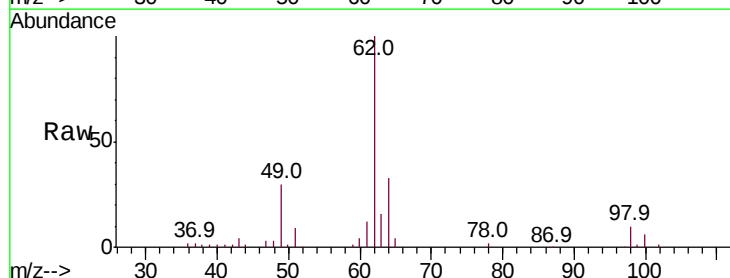
Manual Integrations
APPROVED

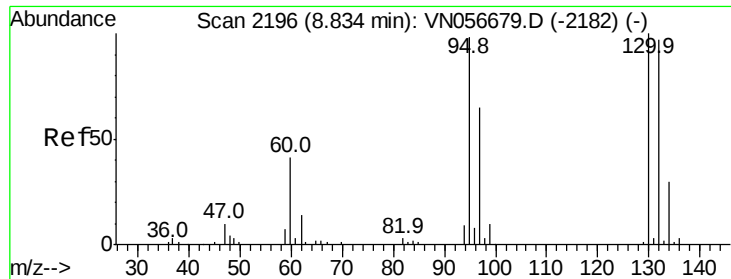
MMDadoda
7/16/2019 9:59:45 AM



#36
1,2-Dichloroethane
Concen: 19.721 ug/l
RT: 8.13 min Scan# 1976
Delta R.T. 0.00 min
Lab File: VN056688.D
Acq: 12 Jul 2019 14:26

Tgt Ion	Ratio	Lower	Upper
62	100		
98	9.6	7.7	11.5





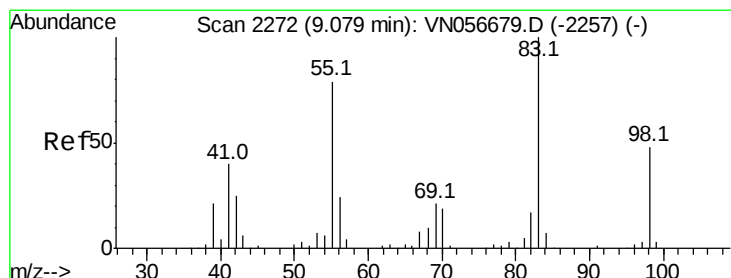
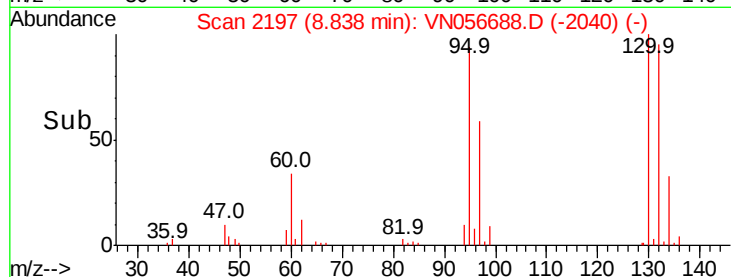
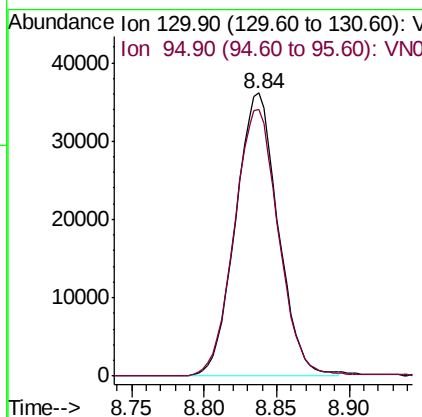
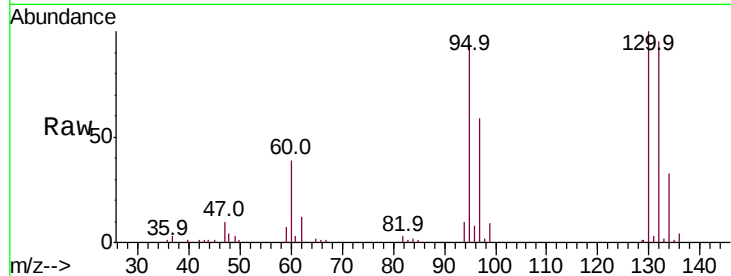
#37
 Trichloroethene
 Concen: 19.141 ug/l
 RT: 8.84 min Scan# 2197
 Delta R.T. 0.00 min
 Lab File: VN056688.D
 Acq: 12 Jul 2019 14:26

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0713WBS01

Tot Ion:130 Resp: 73692
 Ion Ratio Lower Upper
 130 100
 95 94.3 78.4 117.6

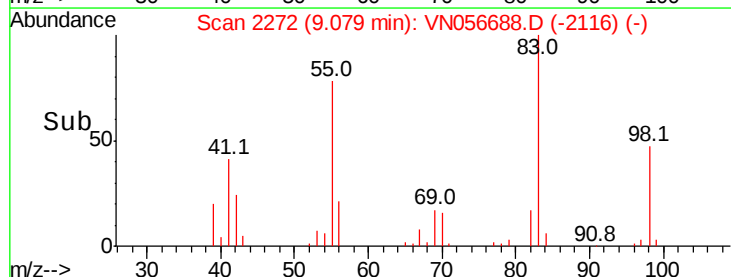
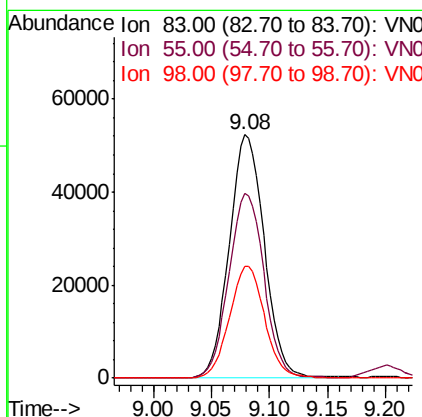
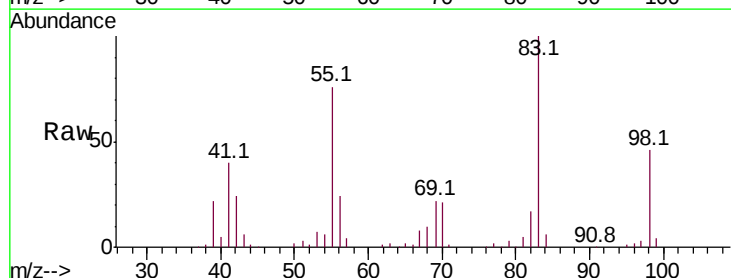
Manual Integrations
 APPROVED

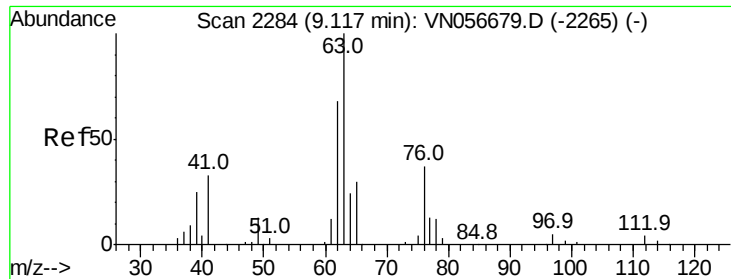
MMDadoda
 7/16/2019 9:59:45 AM



#38
 Methylcyclohexane
 Concen: 18.872 ug/l
 RT: 9.08 min Scan# 2272
 Delta R.T. 0.00 min
 Lab File: VN056688.D
 Acq: 12 Jul 2019 14:26

Tgt Ion: 83 Resp: 109997
 Ion Ratio Lower Upper
 83 100
 55 75.8 38.4 115.2
 98 46.1 23.3 69.9





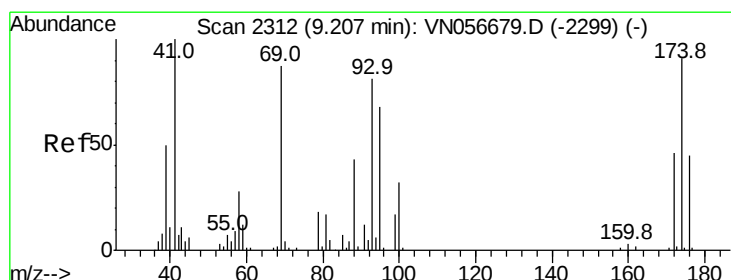
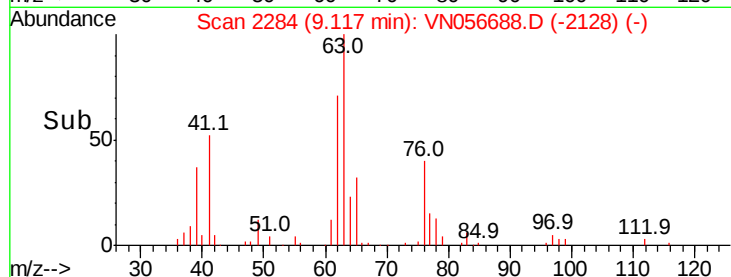
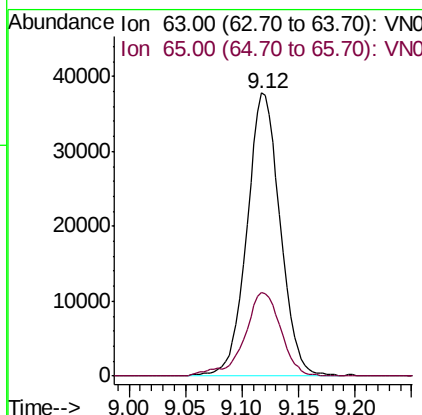
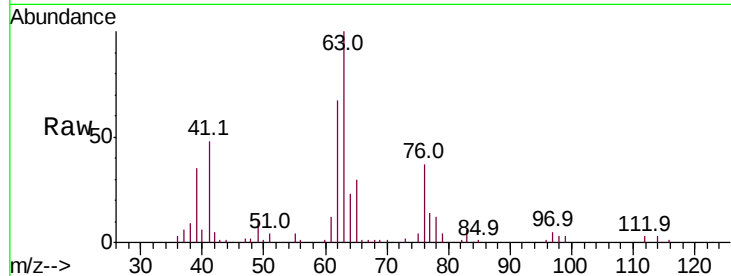
#39
 1,2-Dichloropropane
 Concen: 20.287 ug/l
 RT: 9.12 min Scan# 2284
 Delta R.T. 0.00 min
 Lab File: VN056688.D
 Acq: 12 Jul 2019 14:26

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0713WBS01

Tot Ion: 63 Resp: 77194
 Ion Ratio Lower Upper
 63 100
 65 29.5 24.6 36.8

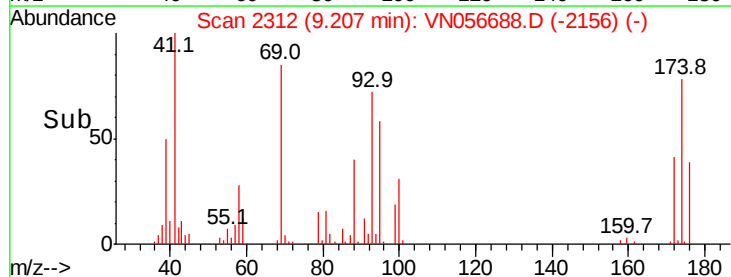
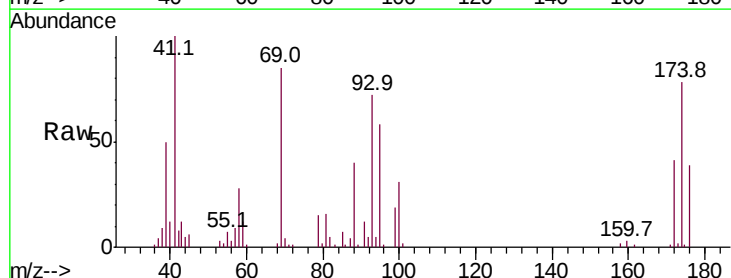
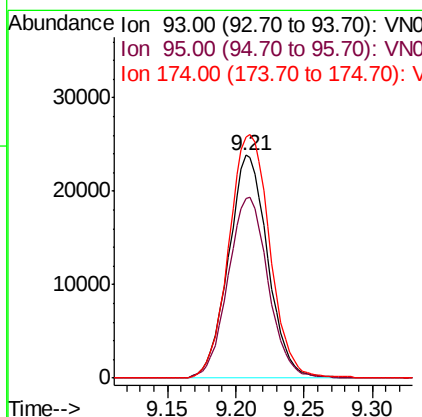
Manual Integrations
 APPROVED

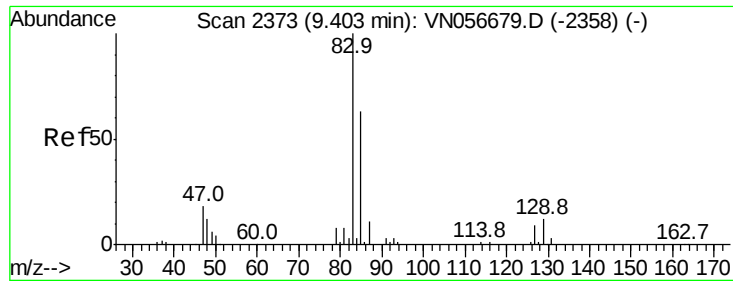
MMDadoda
 7/16/2019 9:59:45 AM



#40
 Dibromomethane
 Concen: 19.681 ug/l
 RT: 9.21 min Scan# 2312
 Delta R.T. 0.00 min
 Lab File: VN056688.D
 Acq: 12 Jul 2019 14:26

Tgt Ion: 93 Resp: 47699
 Ion Ratio Lower Upper
 93 100
 95 82.7 0.0 167.0
 174 114.1 0.0 224.2





#41

Bromodichloromethane

Concen: 19.321 ug/l

RT: 9.40 min Scan# 2373

Delta R.T. 0.00 min

Lab File: VN056688.D

Acq: 12 Jul 2019 14:26

Instrument :

MSVOA_N

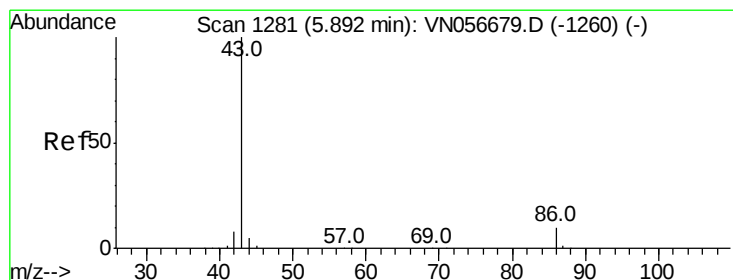
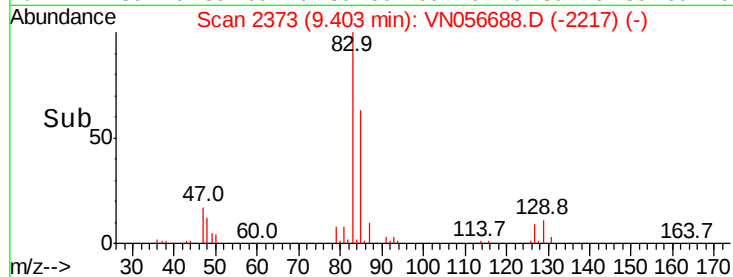
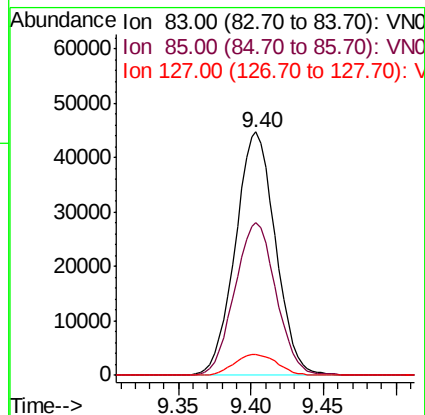
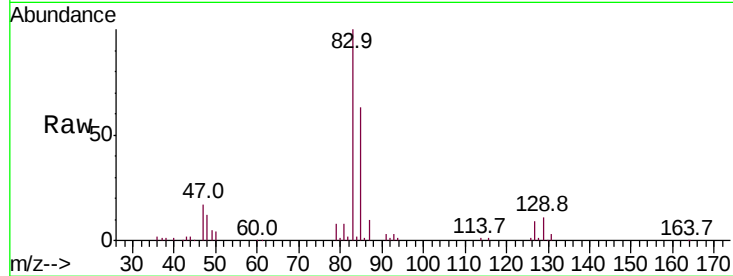
ClientSampleId :

VN0713WBS01

Tot Ion:	83	Resp:	86301
Ion Ratio	Lower	Upper	
83	100		
85	62.7	50.1	75.1
127	8.5	7.0	10.4

Manual Integrations
APPROVED

MMDadoda
7/16/2019 9:59:45 AM



#42

Vinyl Acetate

Concen: 99.839 ug/l

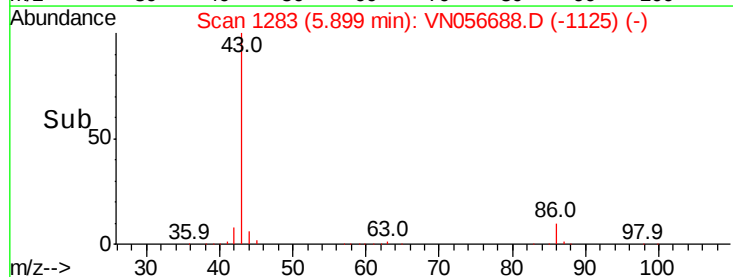
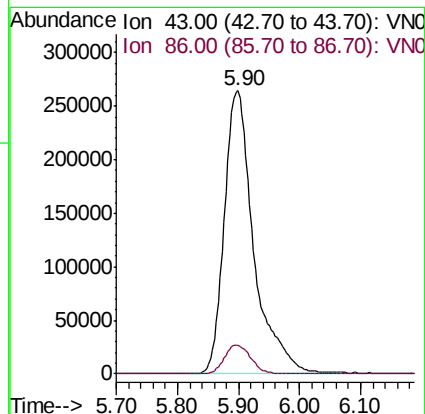
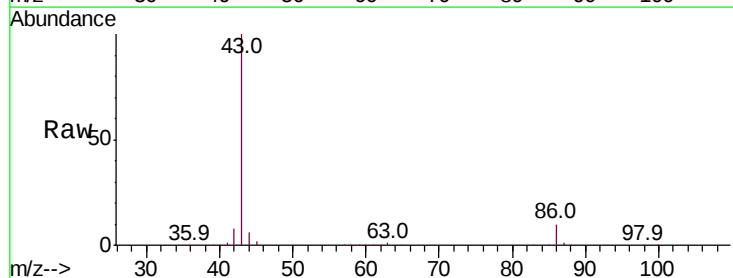
RT: 5.90 min Scan# 1283

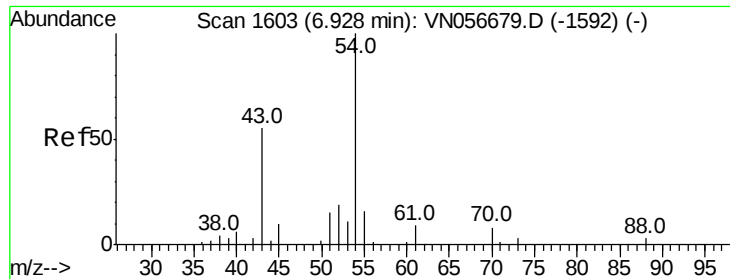
Delta R.T. 0.01 min

Lab File: VN056688.D

Acq: 12 Jul 2019 14:26

Tgt Ion:	43	Resp:	887602
Ion Ratio	Lower	Upper	
43	100		
86	9.1	7.4	11.2





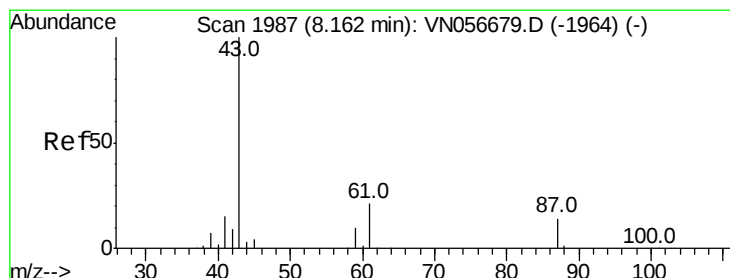
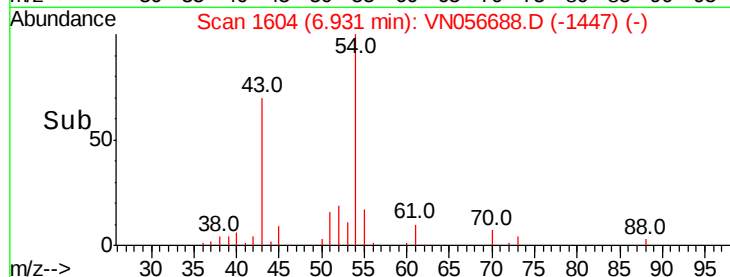
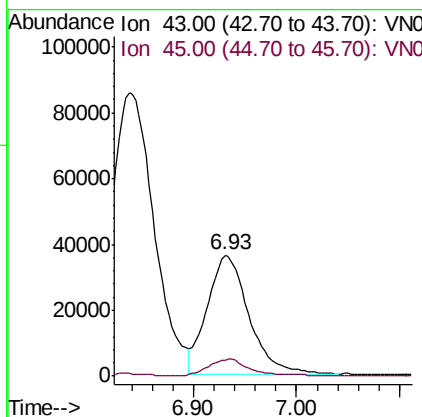
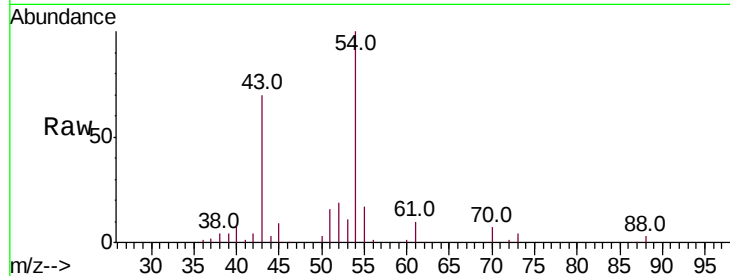
#43
Ethyl Acetate
Concen: 21.253 ug/l
RT: 6.93 min Scan# 1604
Delta R.T. 0.00 min
Lab File: VN056688.D
Acq: 12 Jul 2019 14:26

Instrument :
MSVOA_N
ClientSampleId :
VN0713WBS01

Tot Ion: 43 Resp: 102589
Ion Ratio Lower Upper
43 100
45 12.9 11.2 16.8

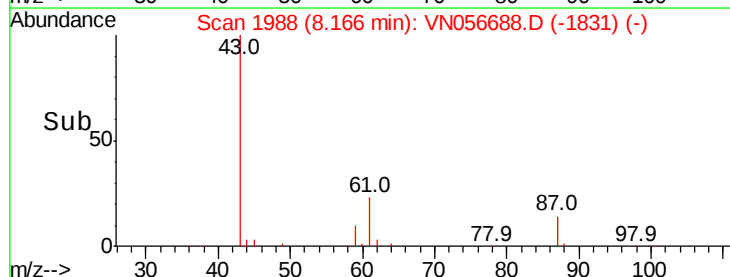
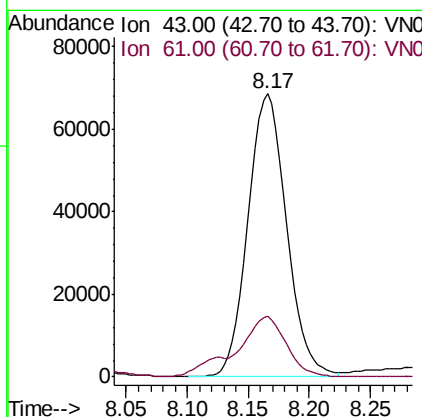
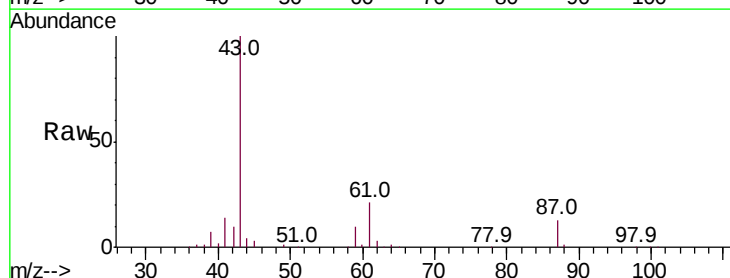
Manual Integrations
APPROVED

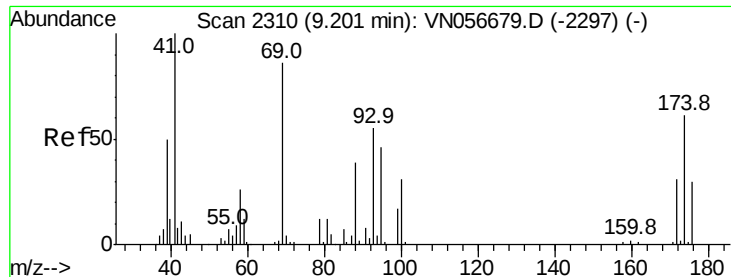
MMDadoda
7/16/2019 9:59:45 AM



#44
Isopropyl Acetate
Concen: 19.849 ug/l
RT: 8.17 min Scan# 1988
Delta R.T. 0.00 min
Lab File: VN056688.D
Acq: 12 Jul 2019 14:26

Tgt Ion: 43 Resp: 149441
Ion Ratio Lower Upper
43 100
61 22.4 22.6 33.8#





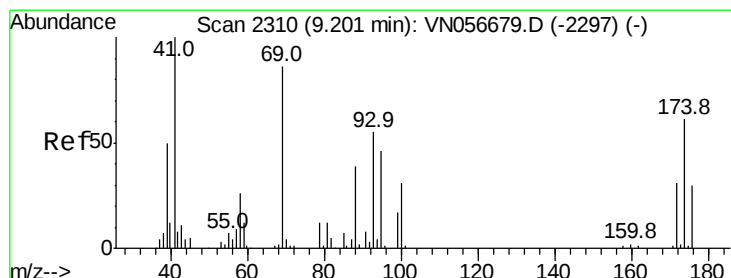
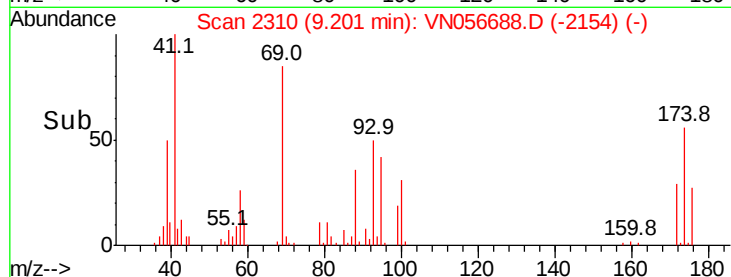
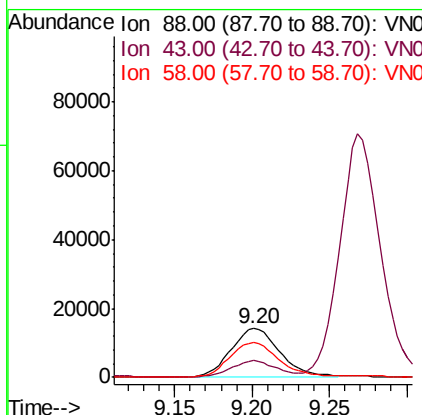
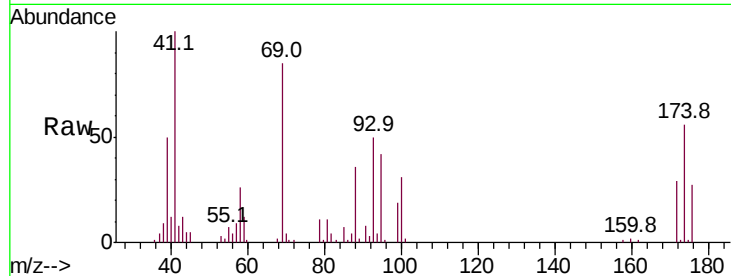
#45
 1,4-Dioxane
 Concen: 411.759 ug/l
 RT: 9.20 min Scan# 2310
 Delta R.T. 0.00 min
 Lab File: VN056688.D
 Acq: 12 Jul 2019 14:26

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0713WBS01

Tot Ion	88	Resp	31363
Ion	Ratio	Lower	Upper
88	100		
43	29.4	23.0	34.6
58	72.3	54.6	81.8

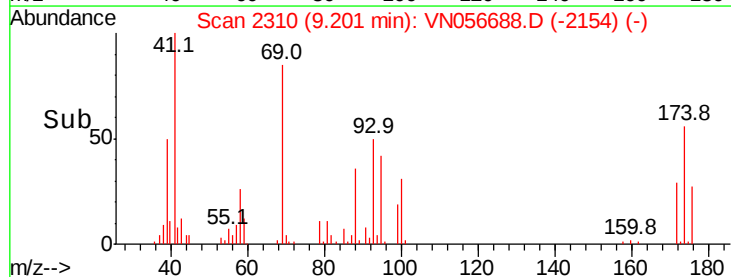
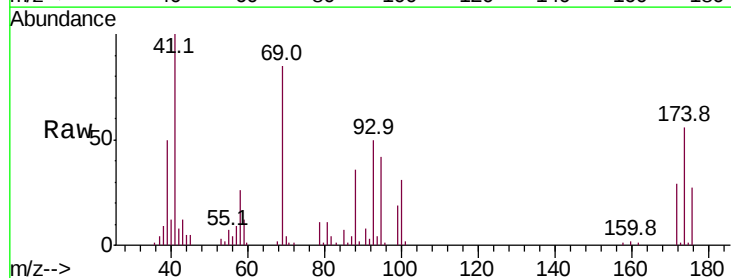
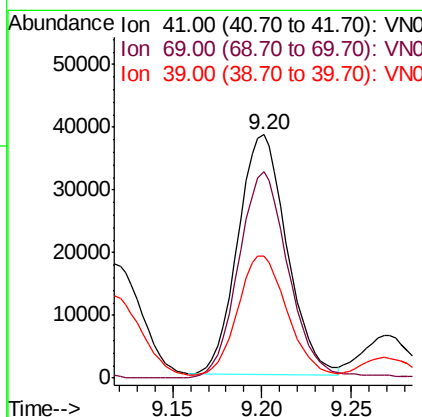
Manual Integrations
 APPROVED

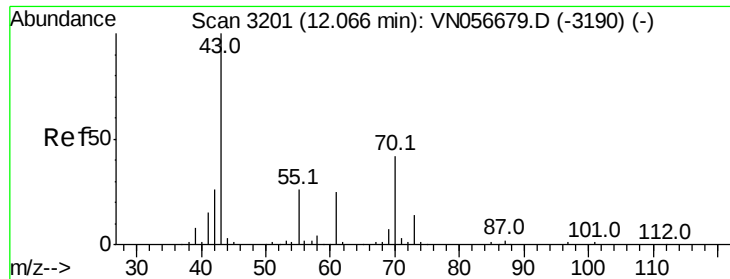
MMDadoda
 7/16/2019 9:59:45 AM



#46
 Methyl methacrylate
 Concen: 20.332 ug/l
 RT: 9.20 min Scan# 2310
 Delta R.T. 0.00 min
 Lab File: VN056688.D
 Acq: 12 Jul 2019 14:26

Tgt Ion	41	Resp	73541
Ion	Ratio	Lower	Upper
41	100		
69	86.2	43.0	129.0
39	49.8	25.1	75.4





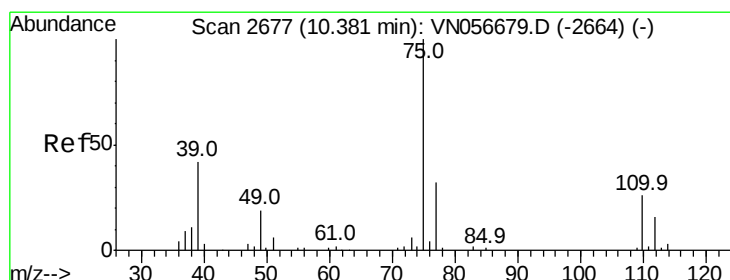
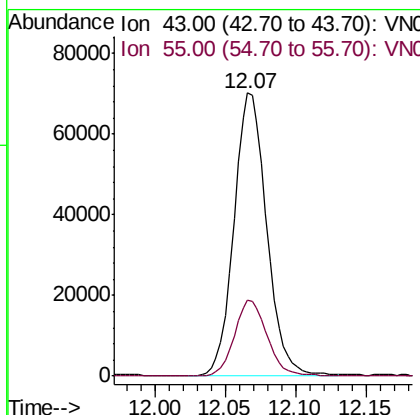
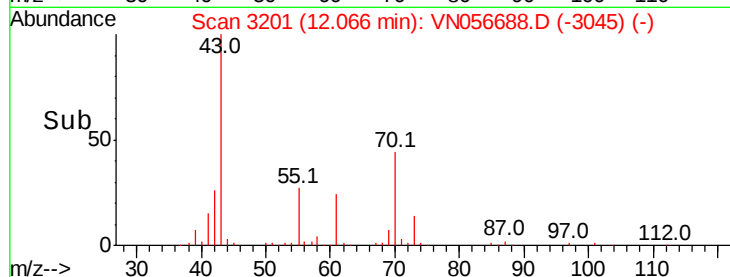
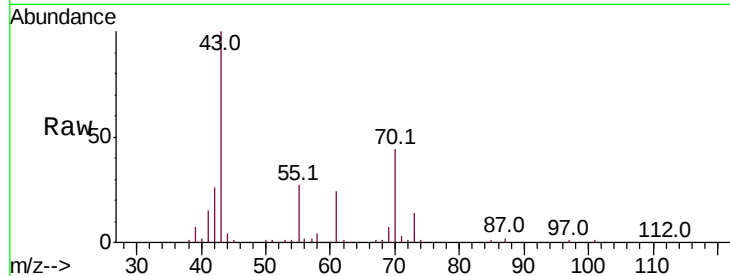
#47
n-amvl Acetate
Concen: 18.616 ug/l
RT: 12.07 min Scan# 3201
Delta R.T. 0.00 min
Lab File: VN056688.D
Acq: 12 Jul 2019 14:26

Instrument :
MSVOA_N
ClientSampleId :
VN0713WBS01

Tot Ion: 43 Resp: 114627
Ion Ratio Lower Upper
43 100
55 26.8 20.7 31.1

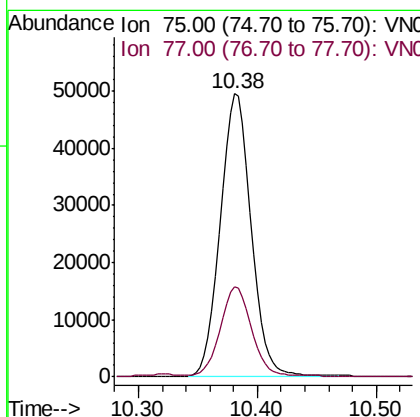
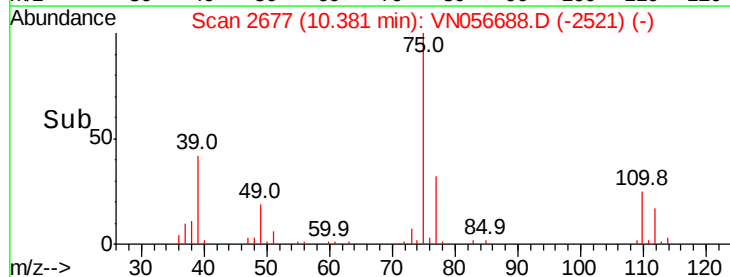
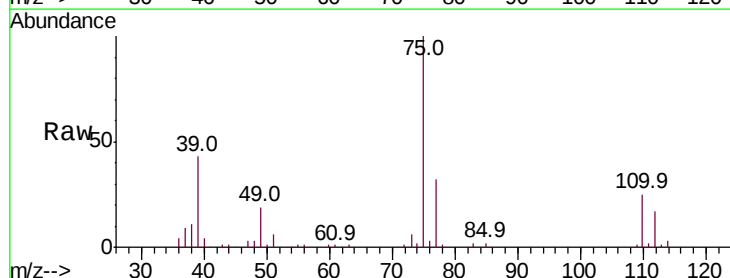
Manual Integrations
APPROVED

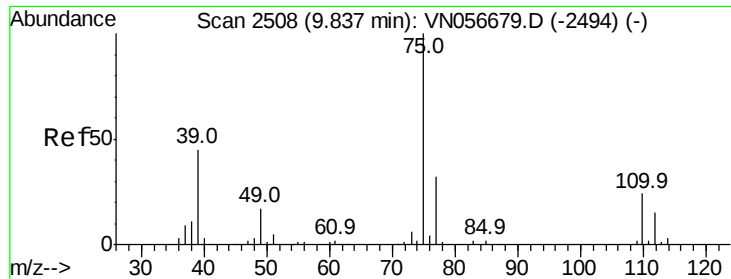
MMDadoda
7/16/2019 9:59:45 AM



#48
t-1,3-Dichloropropene
Concen: 18.195 ug/l
RT: 10.38 min Scan# 2677
Delta R.T. 0.00 min
Lab File: VN056688.D
Acq: 12 Jul 2019 14:26

Tgt Ion: 75 Resp: 89397
Ion Ratio Lower Upper
75 100
77 32.0 25.7 38.5





#49

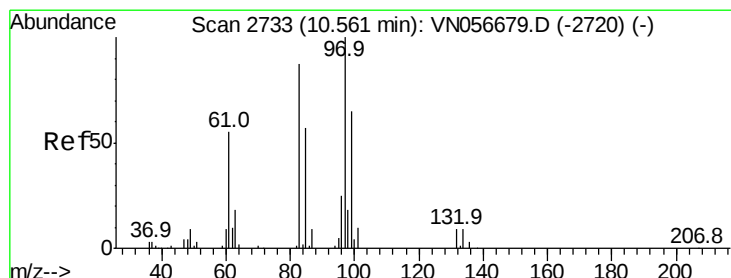
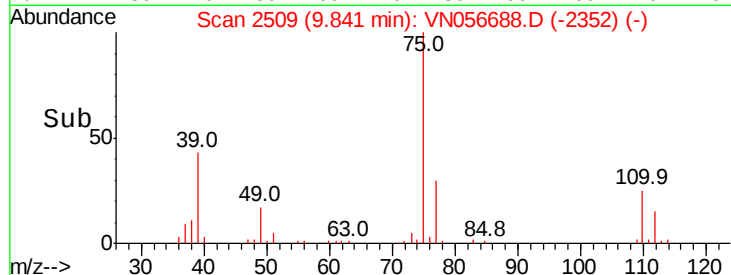
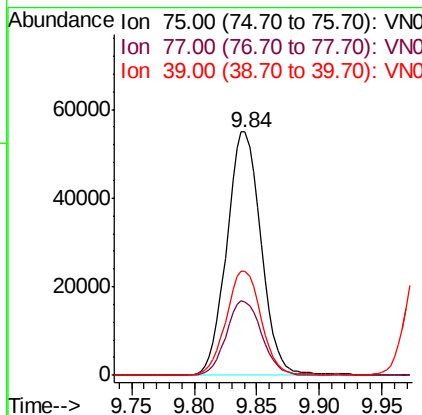
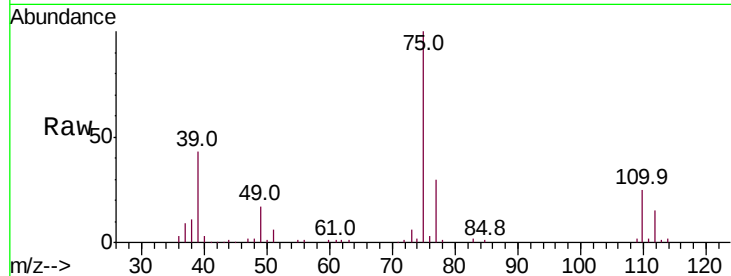
cis-1,3-Dichloropropene
 Concen: 18.881 ug/l
 RT: 9.84 min Scan# 2509
 Delta R.T. 0.00 min
 Lab File: VN056688.D
 Acq: 12 Jul 2019 14:26

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0713WBS01

Tot Ion	Ratio	Resp	Lower	Upper
75	100			
77	30.3	26.0	39.0	
39	42.8	36.2	54.4	

Manual Integrations
 APPROVED

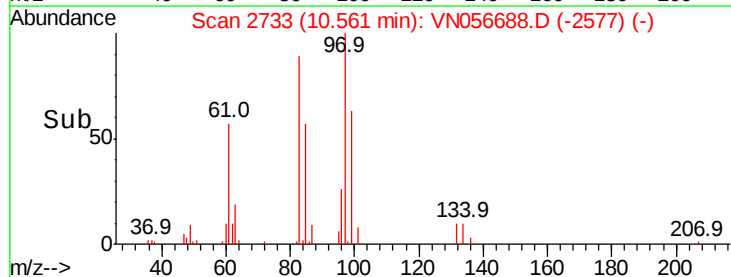
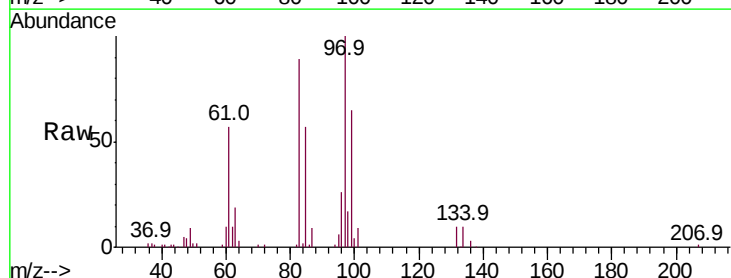
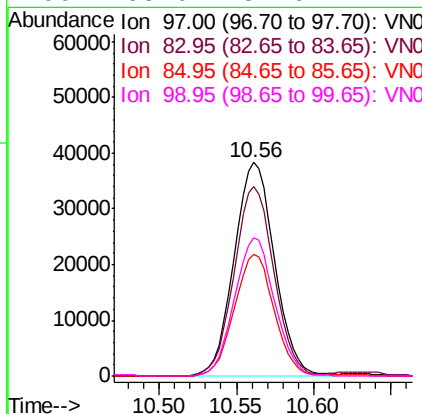
MMDadoda
 7/16/2019 9:59:45 AM

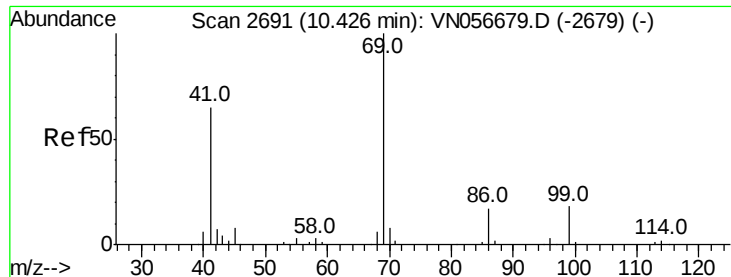


#50

1,1,2-Trichloroethane
 Concen: 19.763 ug/l
 RT: 10.56 min Scan# 2733
 Delta R.T. 0.00 min
 Lab File: VN056688.D
 Acq: 12 Jul 2019 14:26

Tgt Ion	Ratio	Resp	Lower	Upper
97	100			
83	88.6	69.2	103.8	
85	57.2	45.3	67.9	
99	65.0	51.6	77.4	





#51

Ethyl methacrylate

Concen: 19.089 ug/l

RT: 10.43 min Scan# 2692

Delta R.T. 0.00 min

Lab File: VN056688.D

Acq: 12 Jul 2019 14:26

Instrument :

MSVOA_N

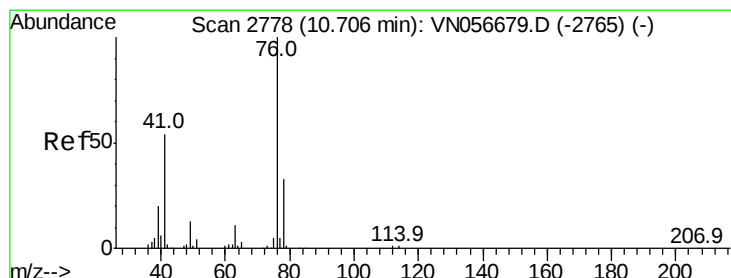
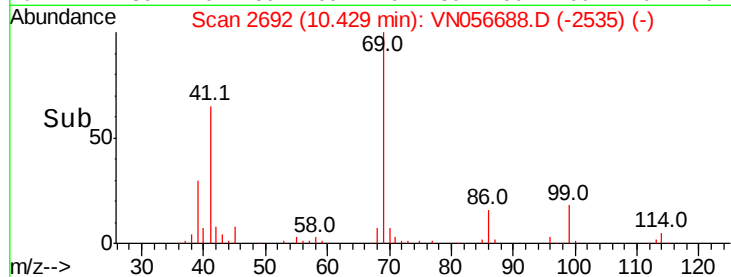
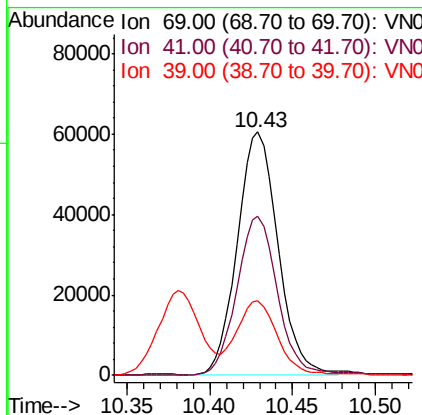
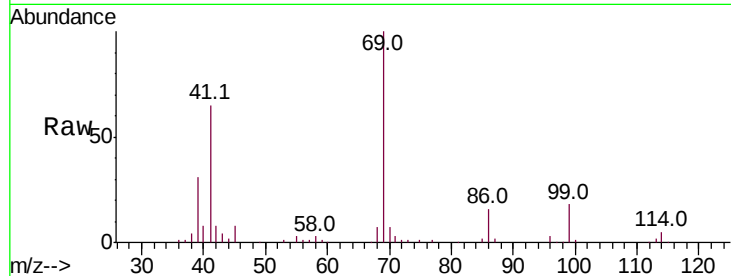
ClientSampleId :

VN0713WBS01

Tot Ion:	69	Resp:	103674
Ion Ratio	Lower	Upper	
69	100		
41	64.9	32.8	98.3
39	29.8	15.4	46.2

Manual Integrations
APPROVED

MMDadoda
7/16/2019 9:59:45 AM



#52

1,3-Dichloropropane

Concen: 19.938 ug/l

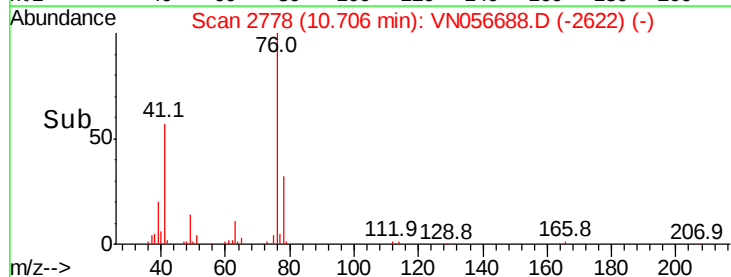
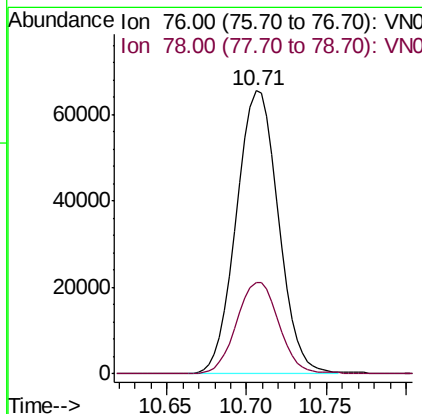
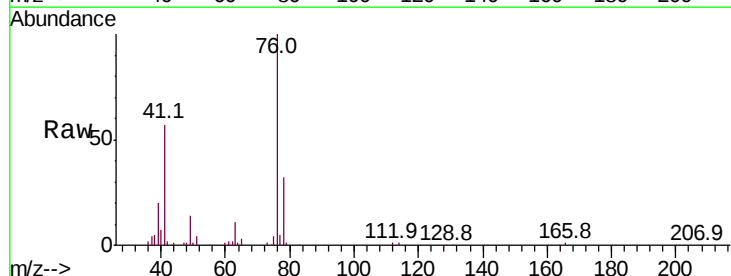
RT: 10.71 min Scan# 2778

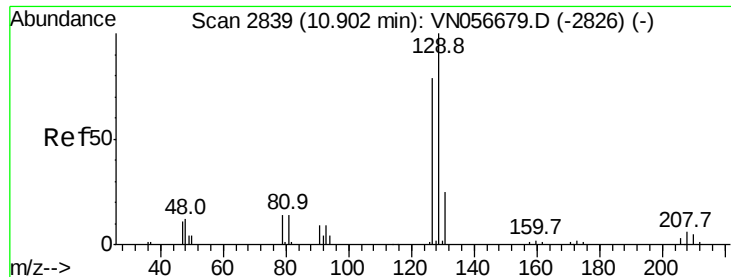
Delta R.T. 0.00 min

Lab File: VN056688.D

Acq: 12 Jul 2019 14:26

Tgt Ion:	76	Resp:	117797
Ion Ratio	Lower	Upper	
76	100		
78	32.4	0.0	63.6





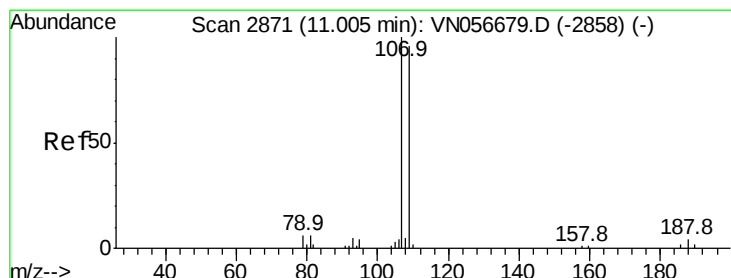
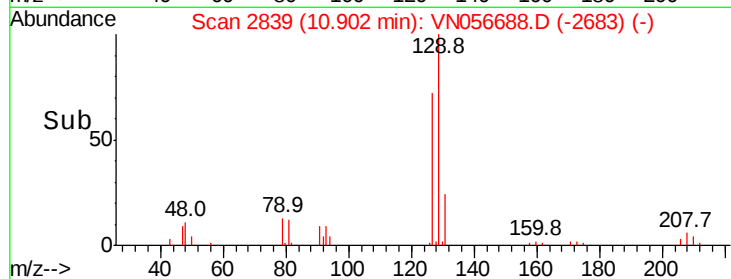
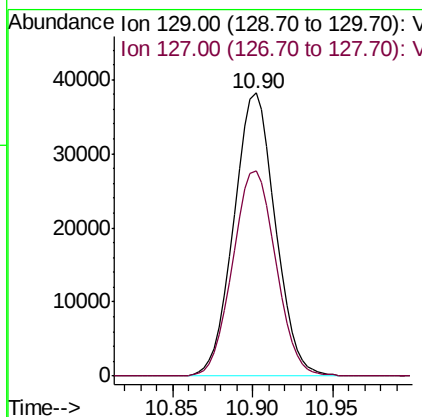
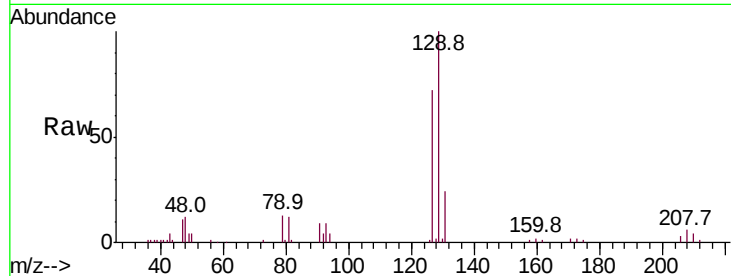
#53
 Dibromochloromethane
 Concen: 18.907 ug/l
 RT: 10.90 min Scan# 2839
 Delta R.T. 0.00 min
 Lab File: VN056688.D
 Acq: 12 Jul 2019 14:26

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0713WBS01

Tot Ion:129 Resp: 67472
 Ion Ratio Lower Upper
 129 100
 127 75.6 38.7 116.1

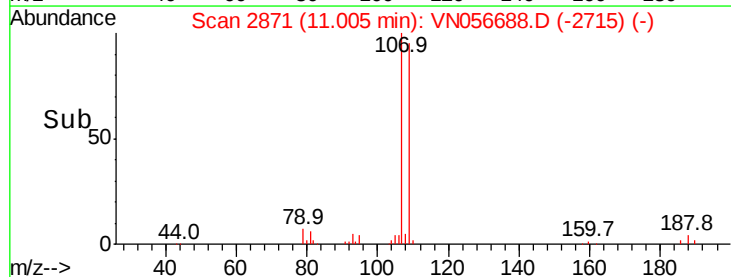
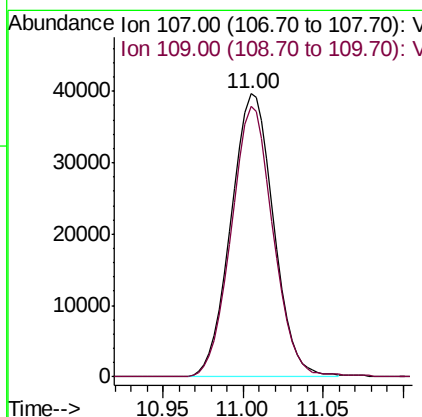
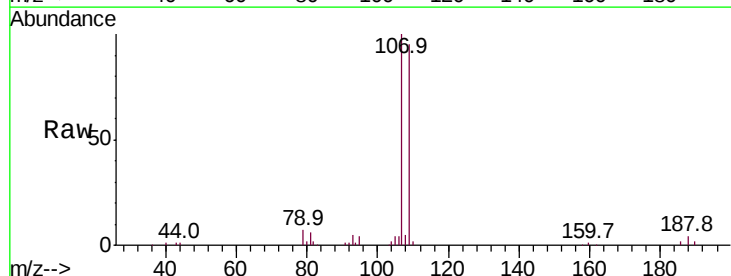
Manual Integrations
 APPROVED

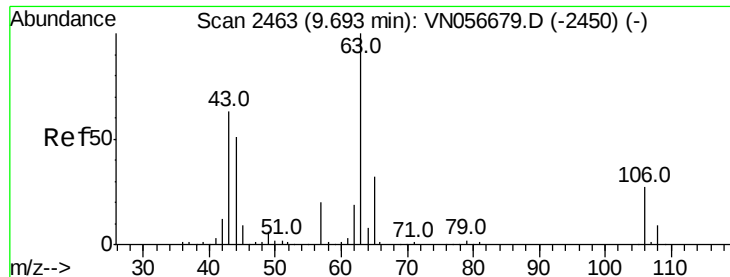
MMDadoda
 7/16/2019 9:59:45 AM



#54
 1,2-Dibromoethane
 Concen: 19.658 ug/l
 RT: 11.00 min Scan# 2871
 Delta R.T. 0.00 min
 Lab File: VN056688.D
 Acq: 12 Jul 2019 14:26

Tgt Ion:107 Resp: 72142
 Ion Ratio Lower Upper
 107 100
 109 93.3 77.9 116.9





#55

2-Chloroethyl vinyl ether

Concen: 97.458 ug/l

RT: 9.70 min Scan# 2464

Delta R.T. 0.00 min

Lab File: VN056688.D

Acq: 12 Jul 2019 14:26

Instrument :

MSVOA_N

ClientSampleId :

VN0713WBS01

Tot Ion: 63 Resp: 255962

Ion Ratio Lower Upper

63 100

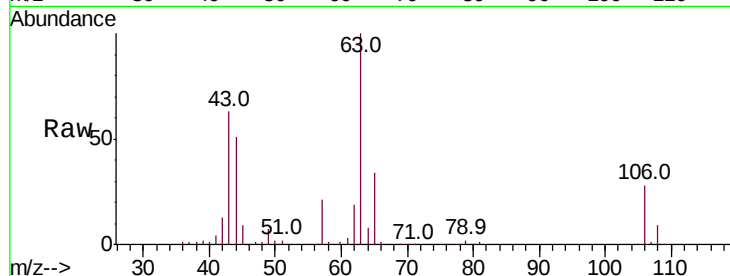
65 32.7 25.2 37.8

106 27.2 21.6 32.4

Manual Integrations
APPROVED

MMDadoda

7/16/2019 9:59:45 AM

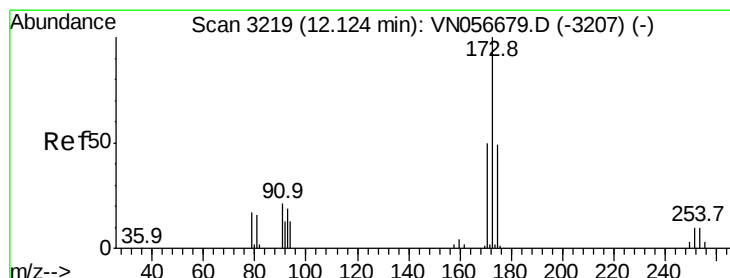
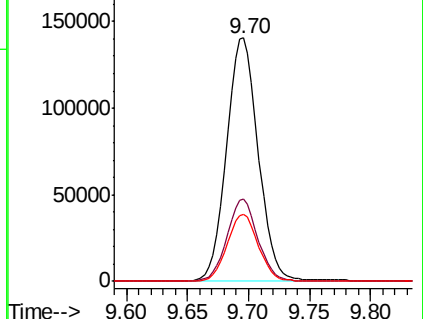
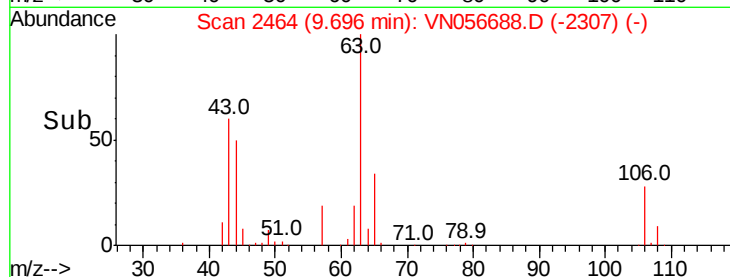


Abundance Ion 63.00 (62.70 to 63.70): VN056679.D (-2450) (-)

Ion 65.00 (64.70 to 65.70): VN056679.D (-2450) (-)

Ion 106.00 (105.70 to 106.70): VN056679.D (-2450) (-)

Time-->



#56

Bromoform

Concen: 18.323 ug/l

RT: 12.13 min Scan# 3220

Delta R.T. 0.00 min

Lab File: VN056688.D

Acq: 12 Jul 2019 14:26

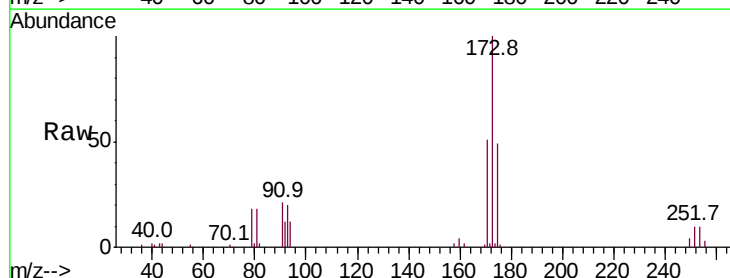
Tgt Ion: 173 Resp: 48405

Ion Ratio Lower Upper

173 100

175 49.6 39.7 59.5

254 8.9 7.8 11.8

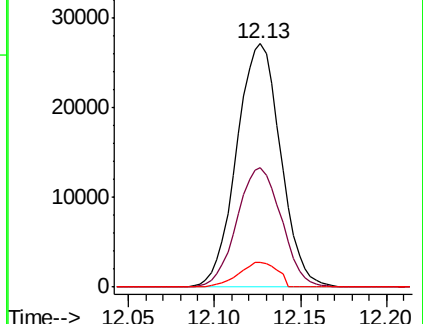
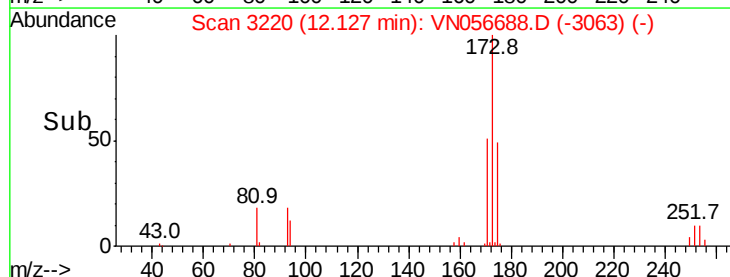


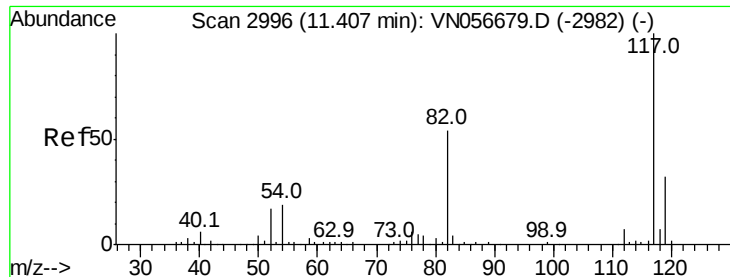
Abundance Ion 173.00 (172.70 to 173.70): VN056679.D (-3207) (-)

Ion 175.00 (174.70 to 175.70): VN056679.D (-3207) (-)

Ion 254.00 (253.70 to 254.70): VN056679.D (-3207) (-)

Time-->





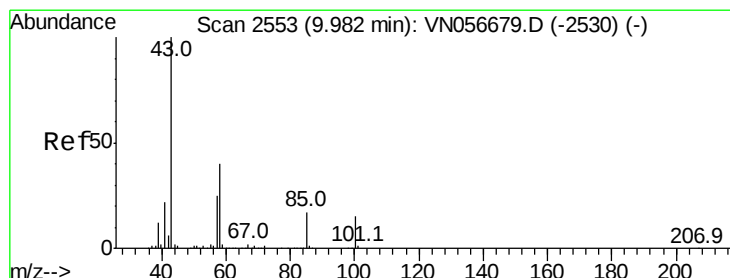
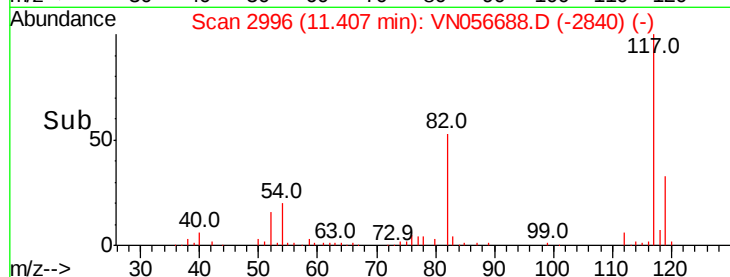
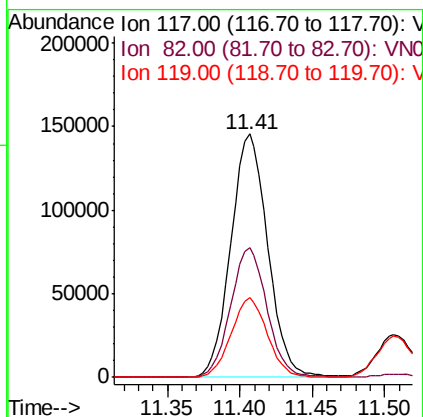
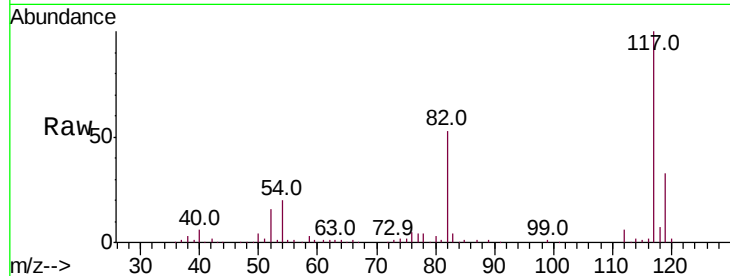
#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN056688.D
Acq: 12 Jul 2019 14:26

Instrument :
MSVOA_N
ClientSampleId :
VN0713WBS01

Tot Ion	Ratio	Lower	Upper
117	100		
82	52.4	43.0	64.4
119	32.0	26.0	39.0

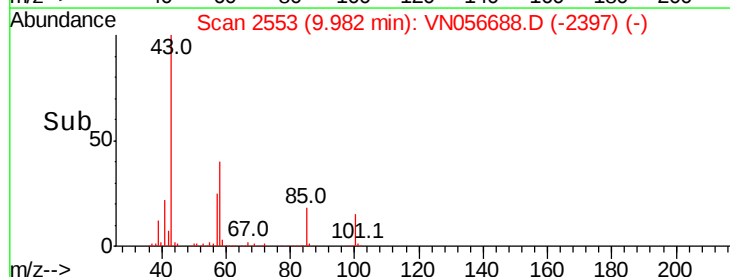
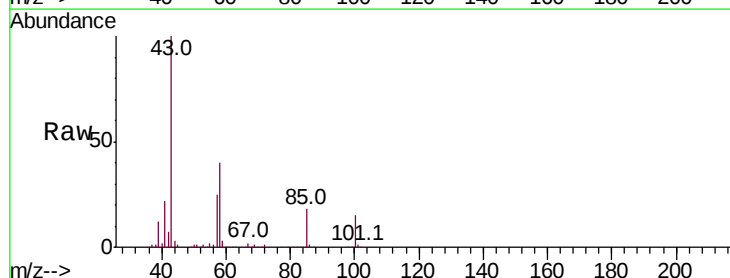
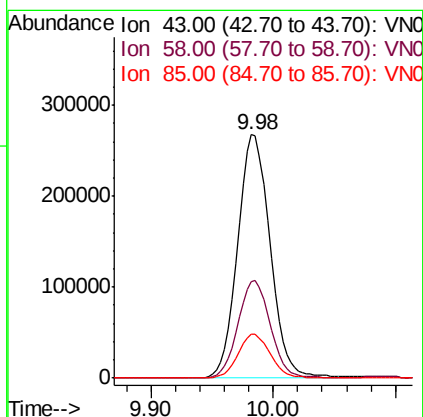
Manual Integrations
APPROVED

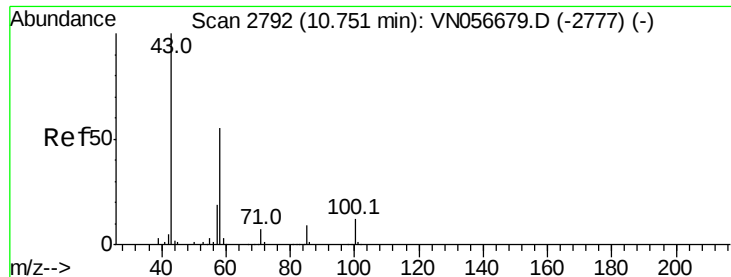
MMDadoda
7/16/2019 9:59:45 AM



#58
4-Methyl-2-Pentanone
Concen: 101.514 ug/l
RT: 9.98 min Scan# 2553
Delta R.T. 0.00 min
Lab File: VN056688.D
Acq: 12 Jul 2019 14:26

Tgt Ion	Ratio	Lower	Upper
43	100		
58	40.0	31.9	47.9
85	18.1	14.2	21.4





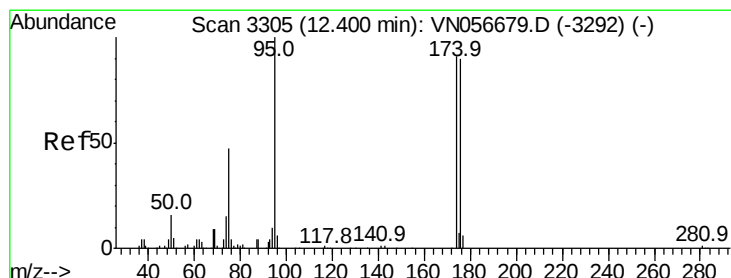
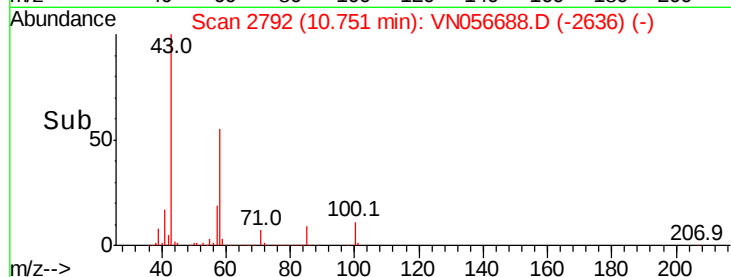
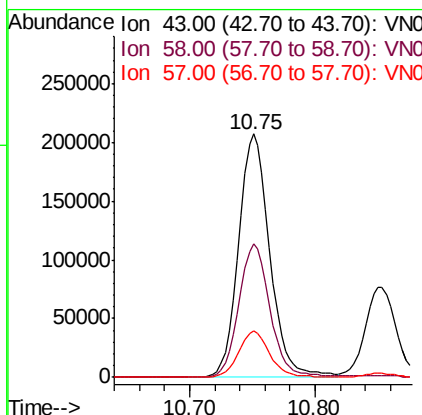
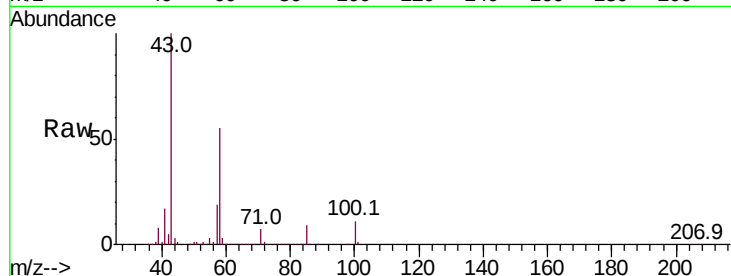
#59
2-Hexanone
Concen: 97.502 ug/l
RT: 10.75 min Scan# 2792
Delta R.T. 0.00 min
Lab File: VN056688.D
Acq: 12 Jul 2019 14:26

Instrument :
MSVOA_N
ClientSampleId :
VN0713WBS01

Tot Ion	Ratio	Lower	Upper
43	100		
58	55.0	44.4	66.6
57	18.9	15.2	22.8

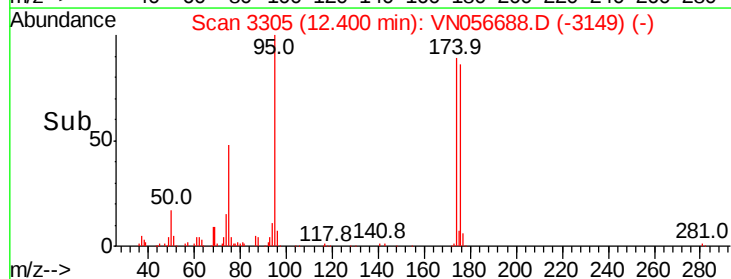
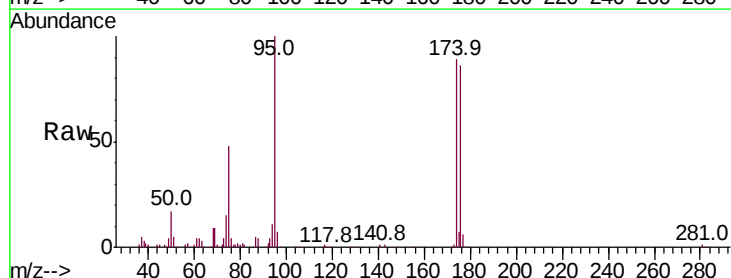
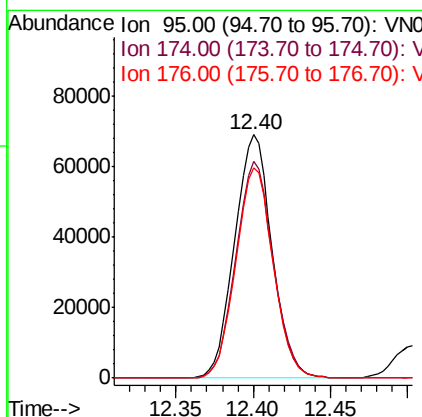
Manual Integrations
APPROVED

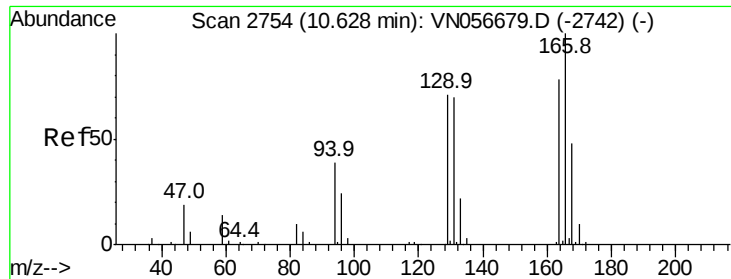
MMDadoda
7/16/2019 9:59:45 AM



#60
4-Bromofluorobenzene
Concen: 29.415 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.00 min
Lab File: VN056688.D
Acq: 12 Jul 2019 14:26

Tgt Ion	Ratio	Lower	Upper
95	100		
174	89.1	72.6	108.8
176	86.2	71.0	106.6





#61

Tetrachloroethene

Concen: 19.542 ug/l

RT: 10.63 min Scan# 2755

Delta R.T. 0.00 min

Lab File: VN056688.D

Acq: 12 Jul 2019 14:26

Instrument :

MSVOA_N

ClientSampleId :

VN0713WBS01

Tot Ion:164 Resp: 72291

Ion Ratio Lower Upper

164 100

166 134.3 102.3 153.5

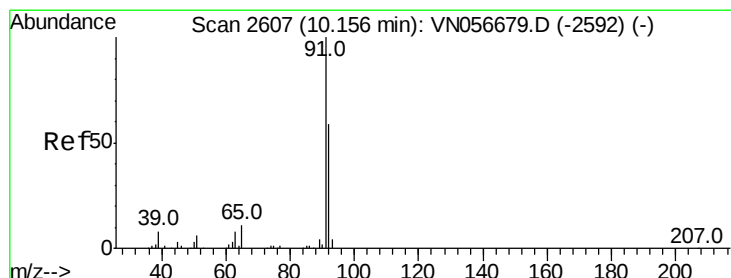
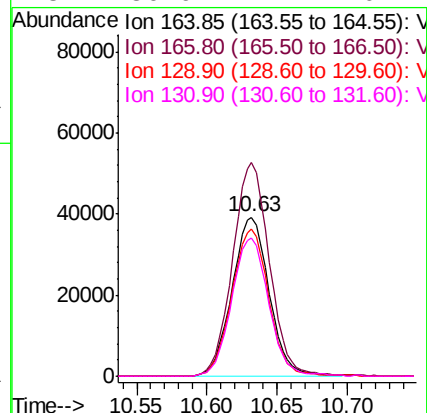
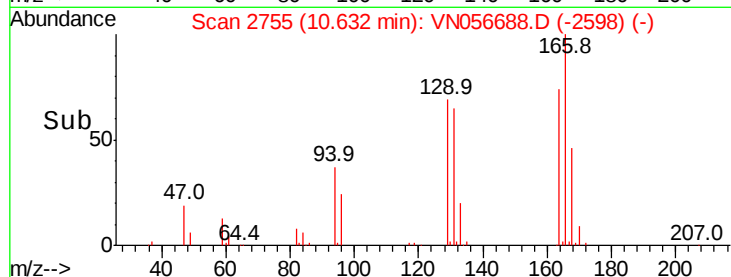
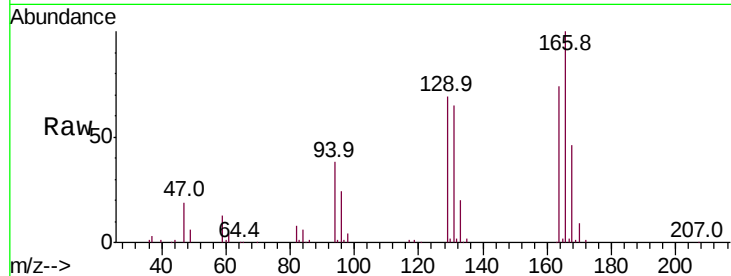
129 92.4 72.6 108.8

131 86.9 71.4 107.2

Manual Integrations
APPROVED

MMDadoda

7/16/2019 9:59:45 AM



#62

Toluene

Concen: 19.704 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VN056688.D

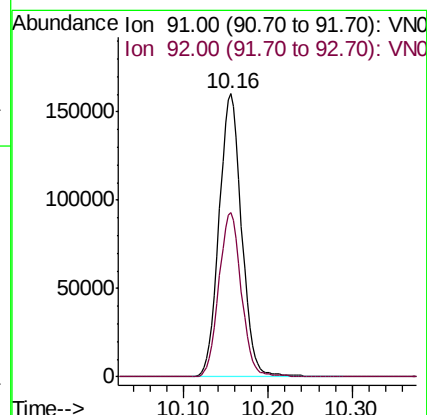
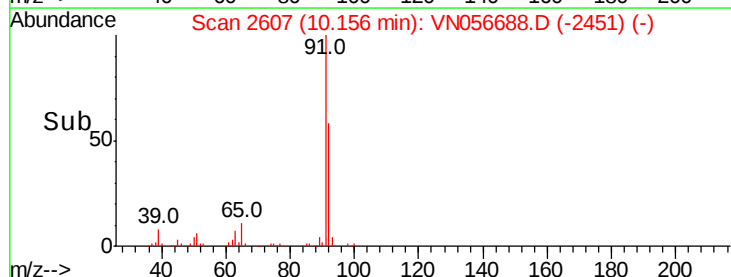
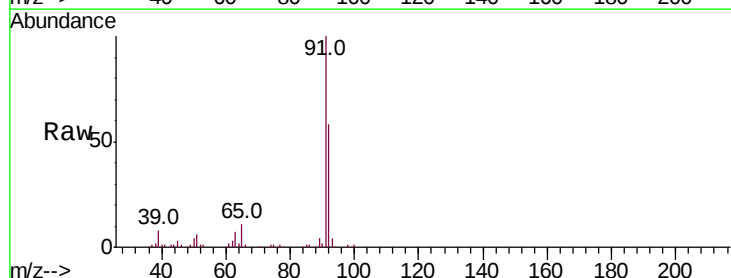
Acq: 12 Jul 2019 14:26

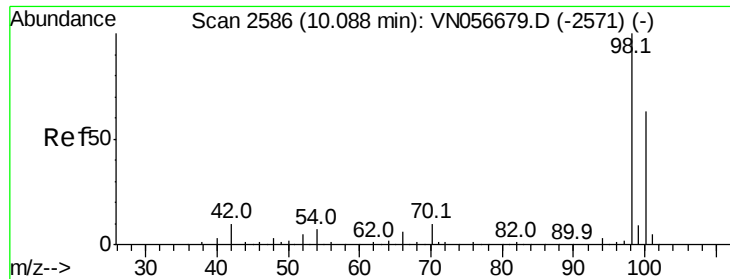
Tgt Ion: 91 Resp: 297948

Ion Ratio Lower Upper

91 100

92 57.8 46.7 70.1





#63

Toluene-d8

Concen: 30.511 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN056688.D

Acq: 12 Jul 2019 14:26

Instrument :

MSVOA_N

ClientSampleId :

VN0713WBS01

Tot Ion: 98 Resp: 358896

Ion Ratio Lower Upper

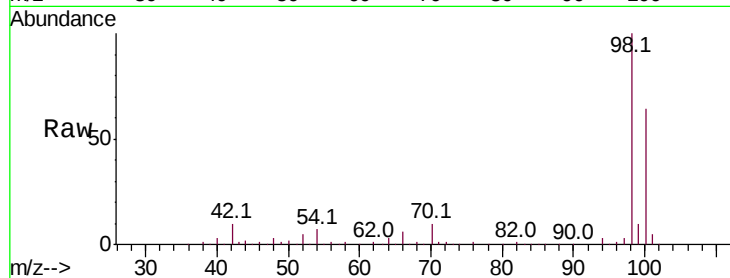
98 100

100 63.6 51.1 76.7

Manual Integrations
APPROVED

MMDadoda

7/16/2019 9:59:45 AM



Abundance Ion 98.00 (97.70 to 98.70): VN056679.D (-2571) (-)

Ion 100.00 (99.70 to 100.70): VN056679.D (-2571) (-)

200000

150000

100000

50000

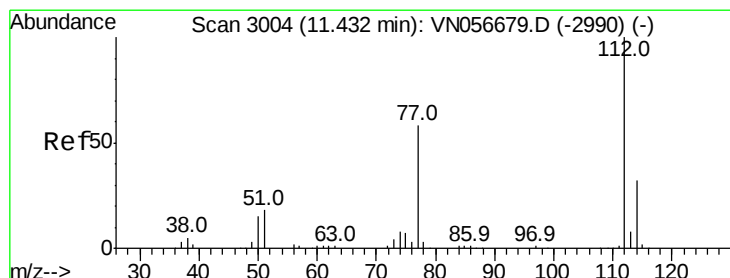
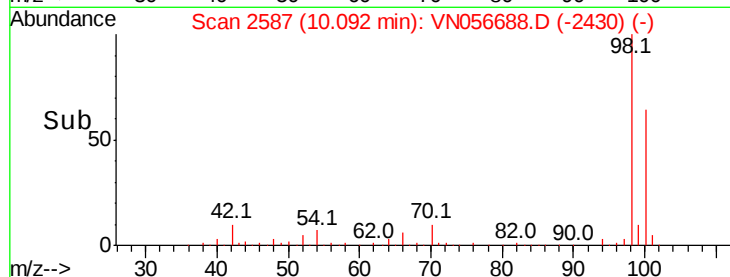
0

10.09

10.10

10.20

Time-->



#64

Chlorobenzene

Concen: 19.455 ug/l

RT: 11.43 min Scan# 3004

Delta R.T. 0.00 min

Lab File: VN056688.D

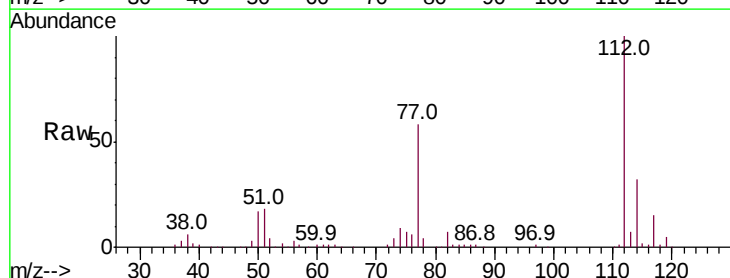
Acq: 12 Jul 2019 14:26

Tgt Ion: 112 Resp: 179418

Ion Ratio Lower Upper

112 100

114 32.2 25.3 37.9



Abundance Ion 112.00 (111.70 to 112.70): VN056679.D (-2990) (-)

Ion 114.00 (113.70 to 114.70): VN056679.D (-2990) (-)

120000

100000

80000

60000

40000

20000

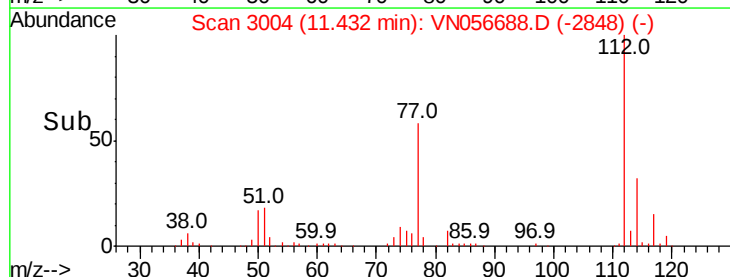
0

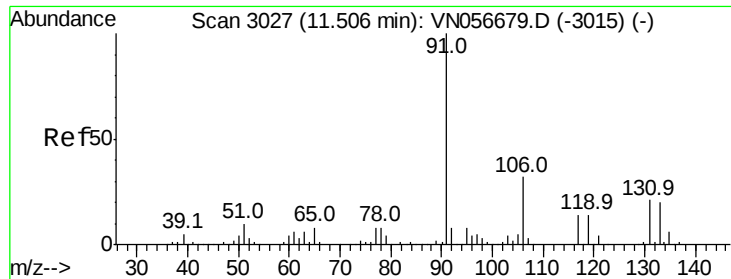
11.43

11.40

11.50

Time-->





#65

1,1,1,2-Tetrachloroethane

Concen: 19.516 ug/l

RT: 11.51 min Scan# 3027

Delta R.T. 0.00 min

Lab File: VN056688.D

Acq: 12 Jul 2019 14:26

Instrument :

MSVOA_N

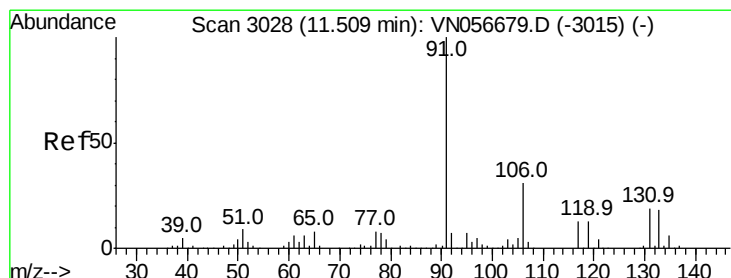
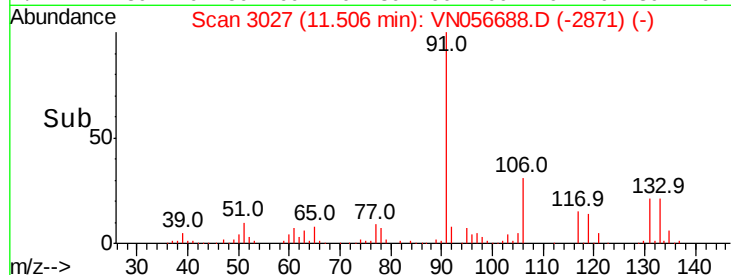
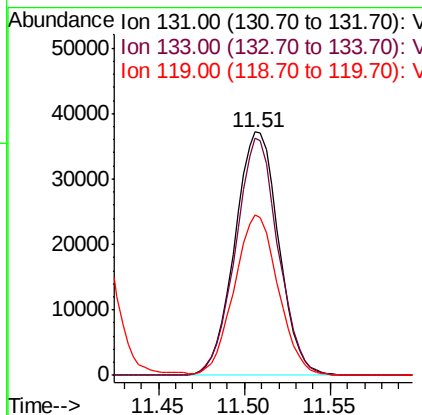
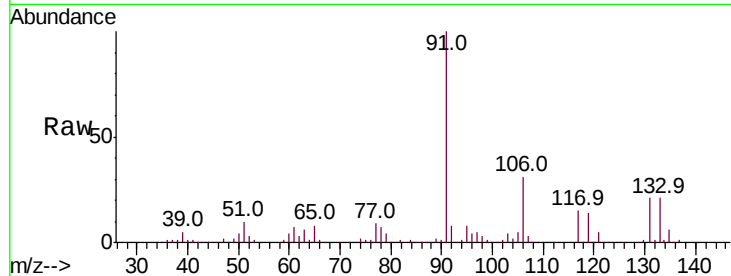
ClientSampleId :

VN0713WBS01

Tot Ion:	131	Resp:	65986
Ion	Ratio	Lower	Upper
131	100		
133	94.5	0.0	191.4
119	65.9	0.0	133.4

Manual Integrations
APPROVED

MMDadoda
7/16/2019 9:59:45 AM



#66

Ethyl Benzene

Concen: 19.092 ug/l

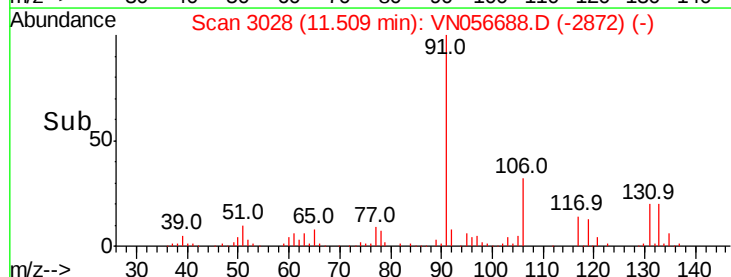
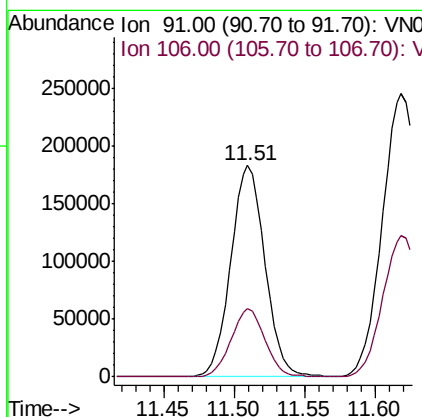
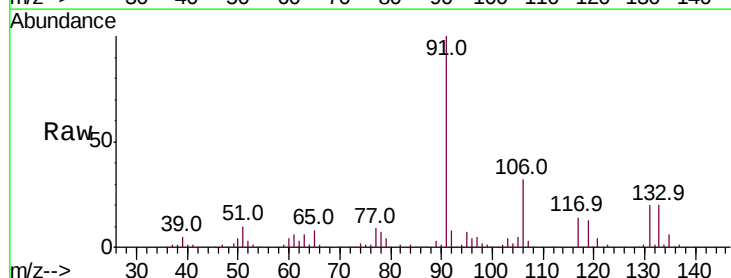
RT: 11.51 min Scan# 3028

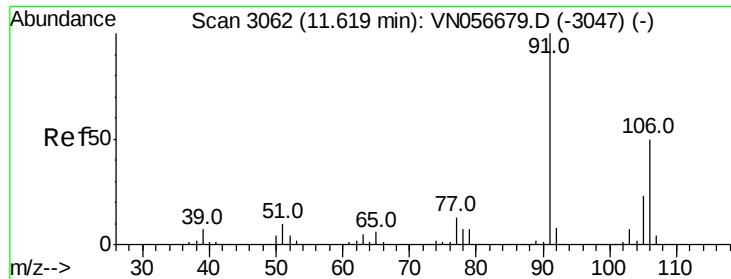
Delta R.T. 0.00 min

Lab File: VN056688.D

Acq: 12 Jul 2019 14:26

Tgt Ion:	91	Resp:	312050
Ion	Ratio	Lower	Upper
91	100		
106	32.3	25.1	37.7





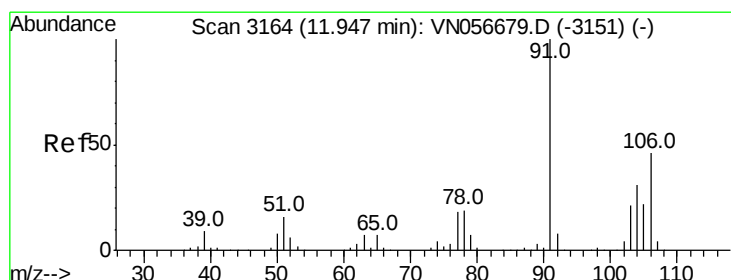
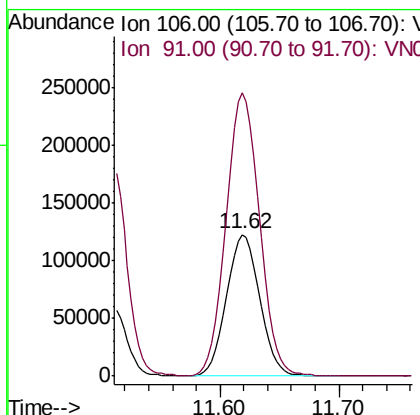
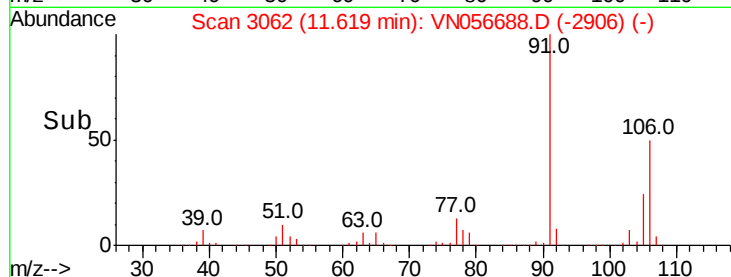
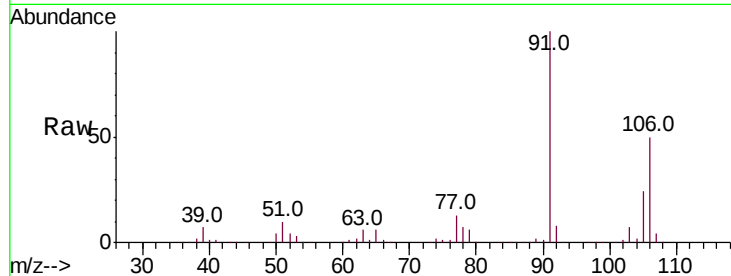
#67
m/p-Xylenes
Concen: 38.605 ug/l
RT: 11.62 min Scan# 3062
Delta R.T. 0.00 min
Lab File: VN056688.D
Acq: 12 Jul 2019 14:26

Instrument :
MSVOA_N
ClientSampleId :
VN0713WBS01

Tot Ion:106 Resp: 238125
Ion Ratio Lower Upper
106 100
91 201.4 161.8 242.8

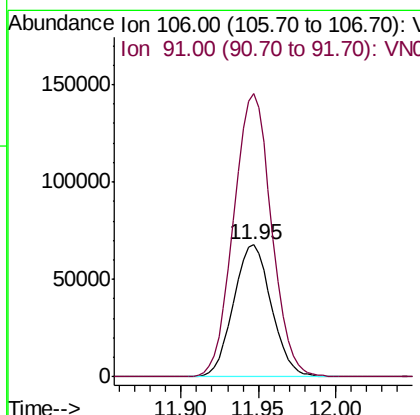
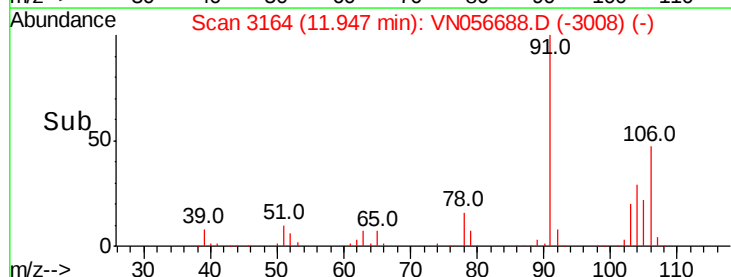
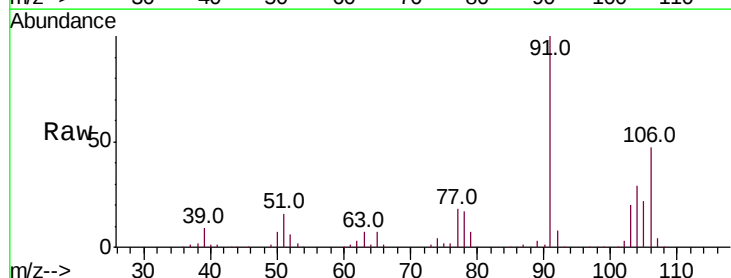
Manual Integrations
APPROVED

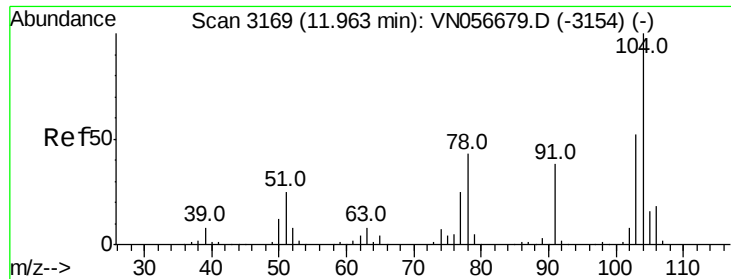
MMDadoda
7/16/2019 9:59:45 AM



#68
o-Xylene
Concen: 19.209 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. 0.00 min
Lab File: VN056688.D
Acq: 12 Jul 2019 14:26

Tgt Ion:106 Resp: 115567
Ion Ratio Lower Upper
106 100
91 214.0 108.1 324.2





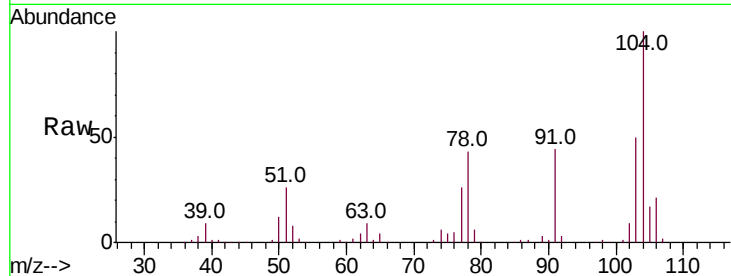
#69
Stvrene
Concen: 19.178 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. 0.00 min
Lab File: VN056688.D
Acq: 12 Jul 2019 14:26

Instrument :
MSVOA_N
ClientSampleId :
VN0713WBS01

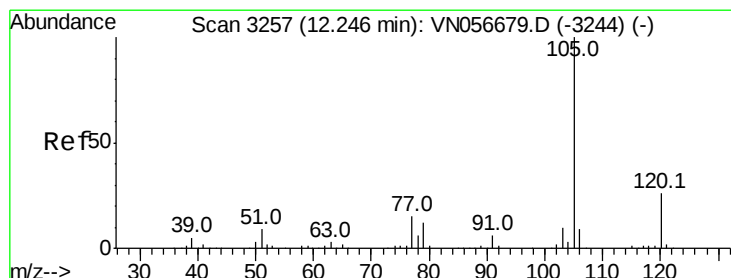
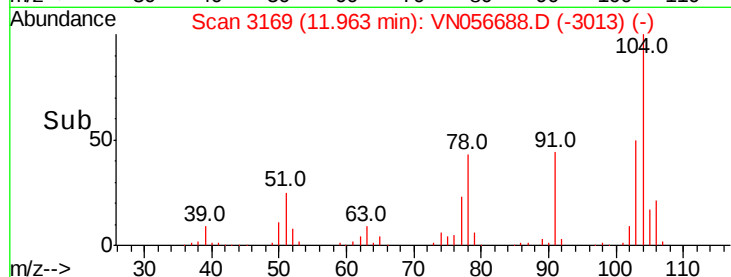
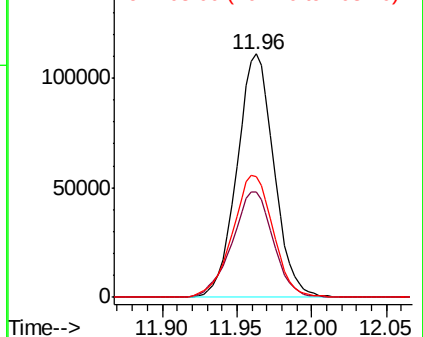
Tot Ion	Ratio	Lower	Upper
104	100		
78	48.2	38.7	58.1
103	55.2	45.0	67.4

Manual Integrations
APPROVED

MMDadoda
7/16/2019 9:59:45 AM

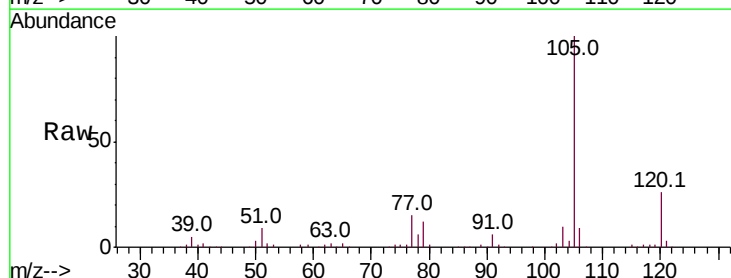


Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): VN
Ion 103.00 (102.70 to 103.70): V

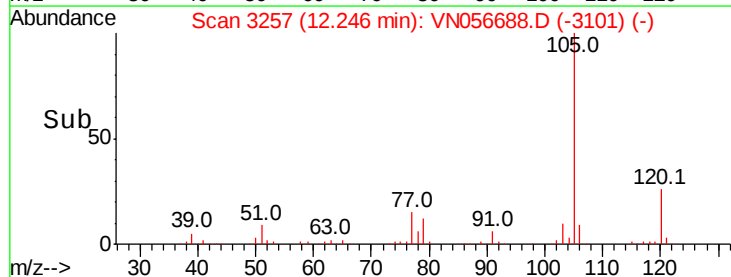
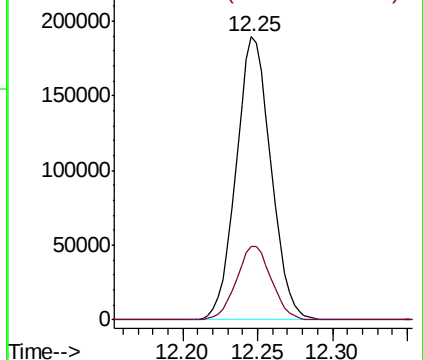


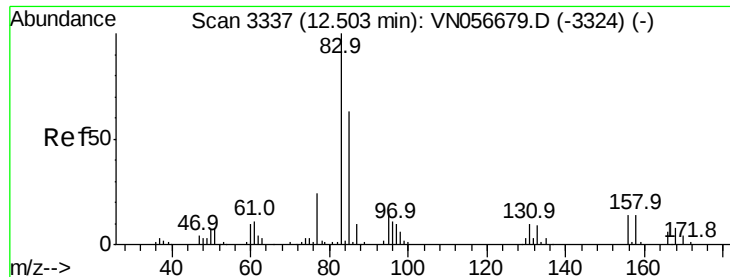
#70
Isopropylbenzene
Concen: 19.446 ug/l
RT: 12.25 min Scan# 3257
Delta R.T. 0.00 min
Lab File: VN056688.D
Acq: 12 Jul 2019 14:26

Tgt Ion	Ratio	Lower	Upper
105	100		
120	26.3	18.6	34.5



Abundance Ion 105.00 (104.70 to 105.70): V
Ion 120.00 (119.70 to 120.70): V





#71

1,1,2,2-Tetrachloroethane

Concen: 20.118 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. 0.00 min

Lab File: VN056688.D

Acq: 12 Jul 2019 14:26

Instrument :

MSVOA_N

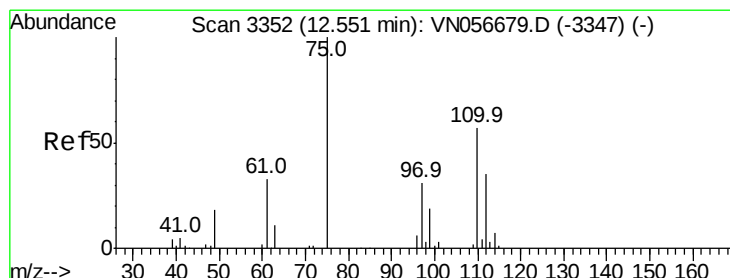
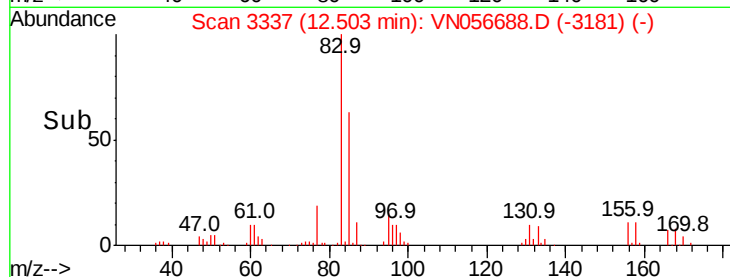
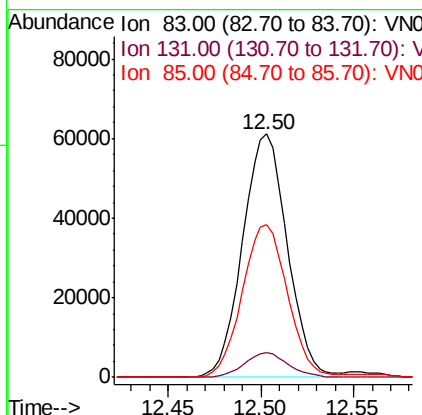
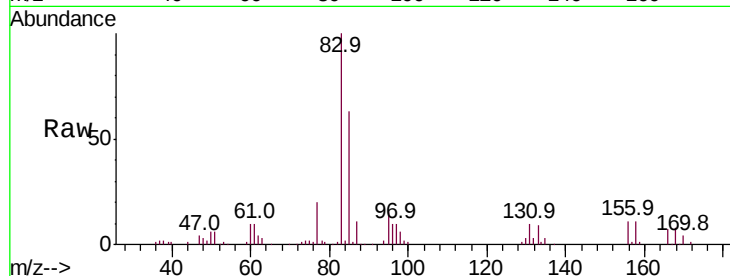
ClientSampleId :

VN0713WBS01

Tot Ion:	83	Resp:	102973
Ion Ratio	Lower	Upper	
83	100		
131	10.0	5.1	15.3
85	63.6	31.9	95.7

Manual Integrations
APPROVED

MMDadoda
7/16/2019 9:59:45 AM



#72

1,2,3-Trichloropropane

Concen: 20.520 ug/l m

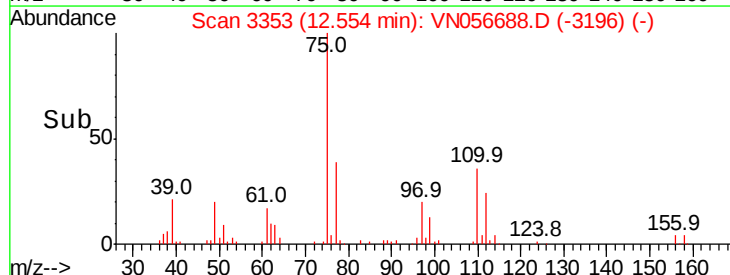
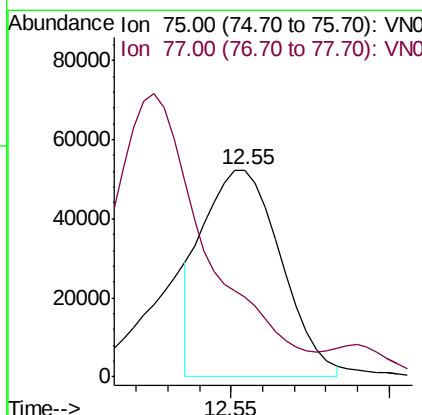
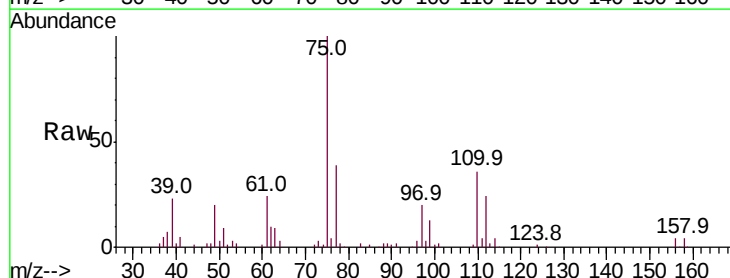
RT: 12.55 min Scan# 3353

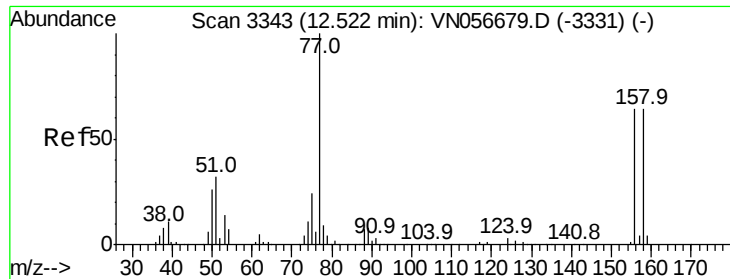
Delta R.T. 0.00 min

Lab File: VN056688.D

Acq: 12 Jul 2019 14:26

Tgt Ion:	75	Resp:	89770
Ion Ratio	Lower	Upper	
75	100		
77	169.1	0.0	352.2





#73

Bromobenzene

Concen: 19.121 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. 0.00 min

Lab File: VN056688.D

Acq: 12 Jul 2019 14:26

Instrument :

MSVOA_N

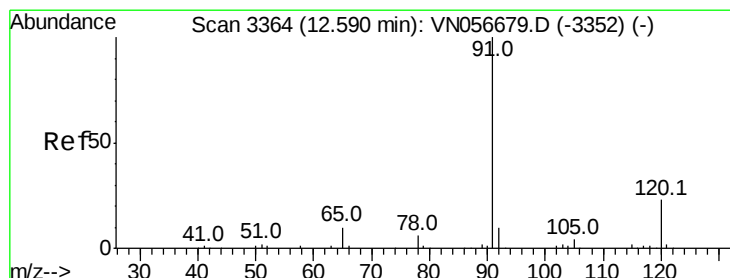
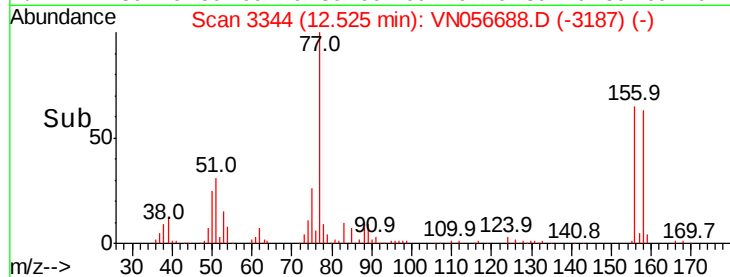
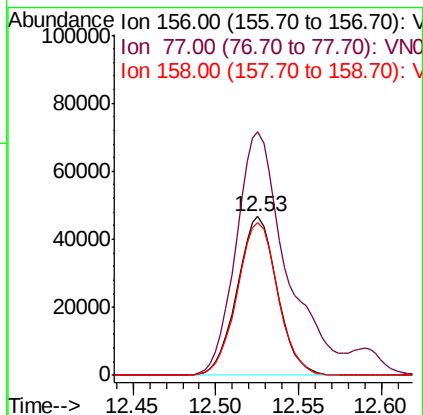
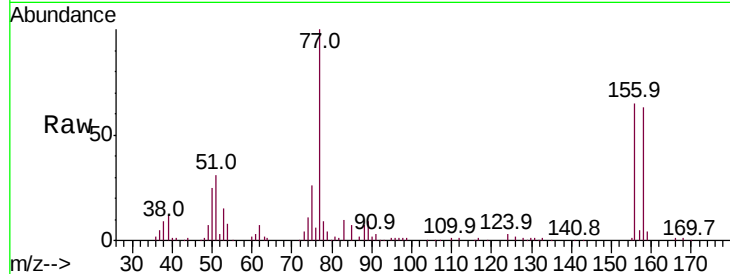
ClientSampleId :

VN0713WBS01

Tot Ion:	156	Resp:	78799
Ion	Ratio	Lower	Upper
156	100		
77	192.7	0.0	381.8
158	97.2	0.0	195.8

Manual Integrations
APPROVED

MMDadoda
7/16/2019 9:59:45 AM



#74

n-propylbenzene

Concen: 18.670 ug/l

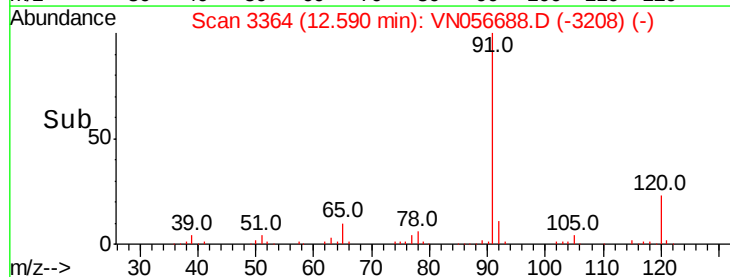
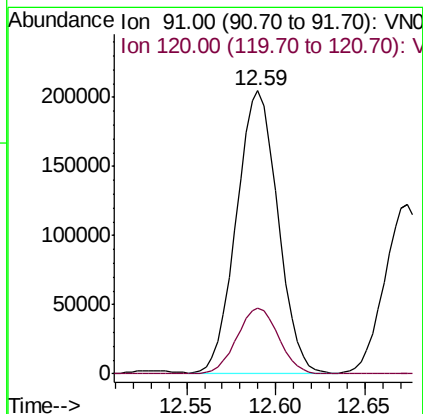
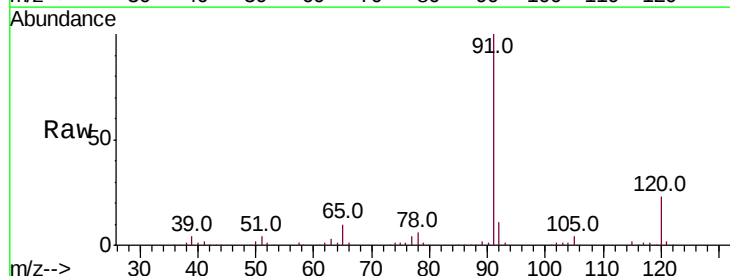
RT: 12.59 min Scan# 3364

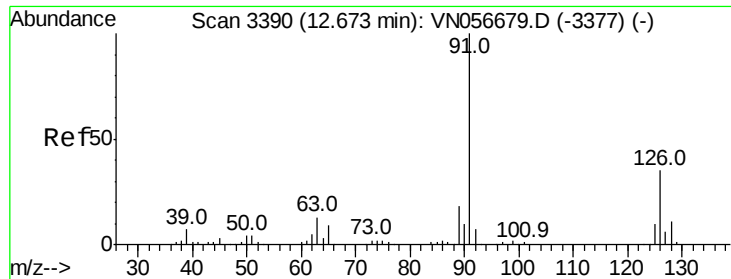
Delta R.T. 0.00 min

Lab File: VN056688.D

Acq: 12 Jul 2019 14:26

Tgt Ion:	91	Resp:	332175
Ion	Ratio	Lower	Upper
91	100		
120	23.3	0.0	45.6





#75

2-Chlorotoluene

Concen: 19.152 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. 0.00 min

Lab File: VN056688.D

Acq: 12 Jul 2019 14:26

Instrument :

MSVOA_N

ClientSampleId :

VN0713WBS01

Tot Ion: 91 Resp: 205219

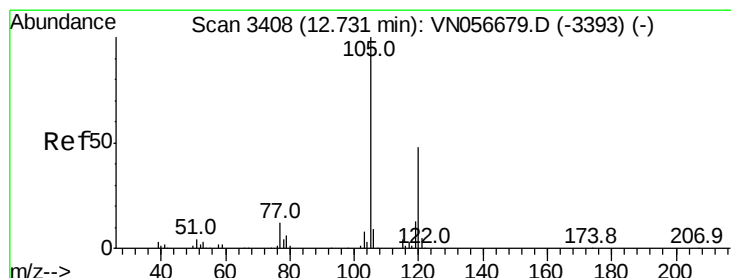
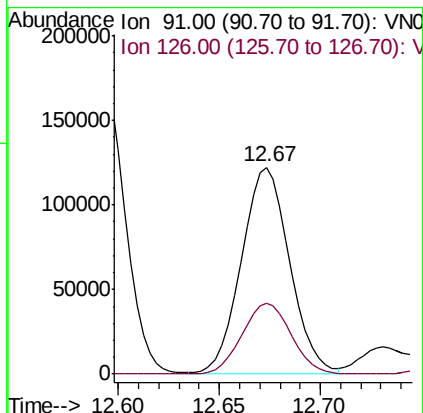
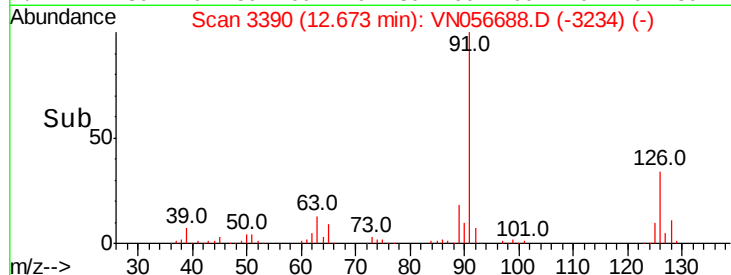
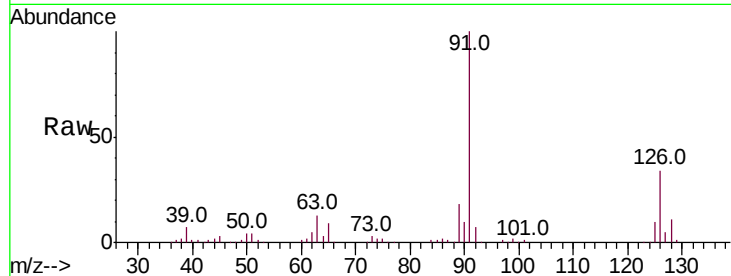
Ion Ratio Lower Upper

91 100

126 34.9 0.0 69.8

Manual Integrations
APPROVED

MMDadoda
7/16/2019 9:59:45 AM



#76

1,3,5-Trimethylbenzene

Concen: 19.316 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN056688.D

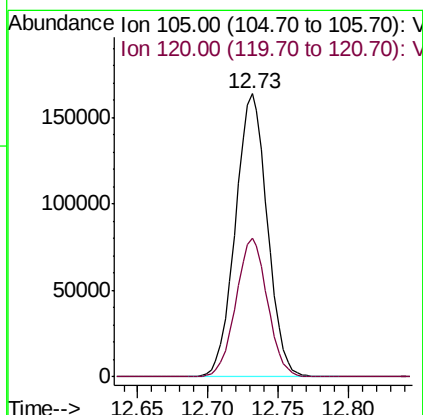
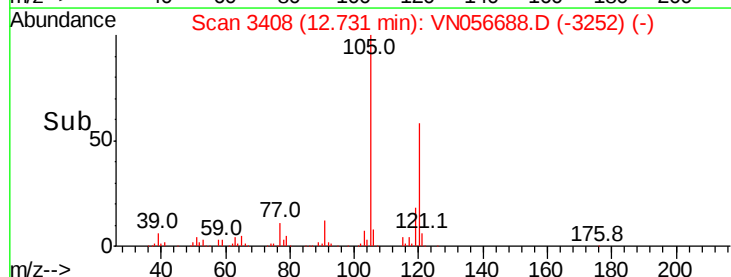
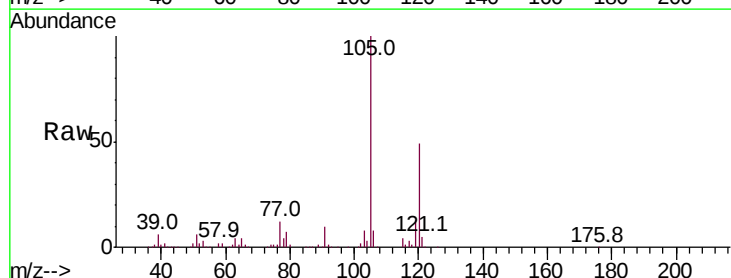
Acq: 12 Jul 2019 14:26

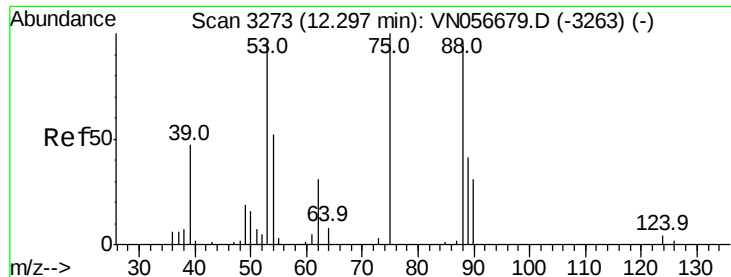
Tgt Ion: 105 Resp: 259825

Ion Ratio Lower Upper

105 100

120 48.3 0.0 97.6





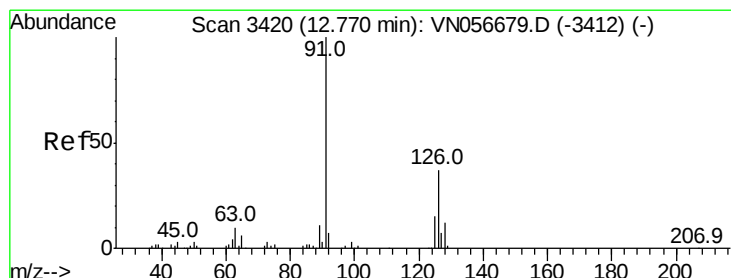
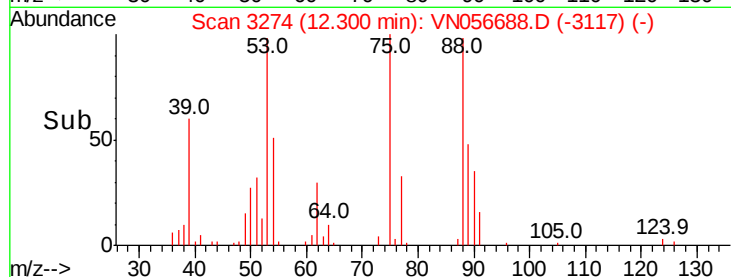
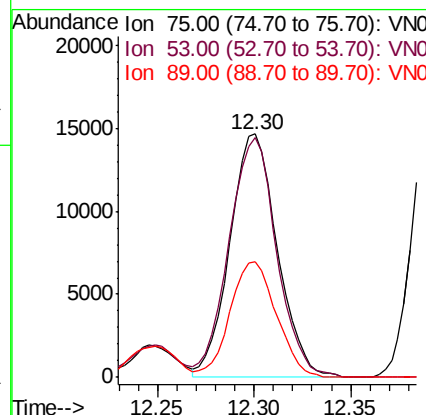
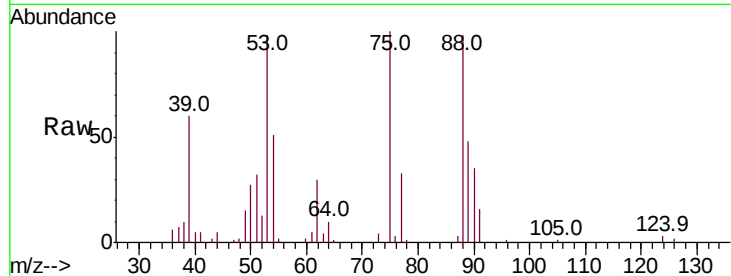
#77
 t-1,4-Dichloro-2-butene
 Concen: 17.240 ug/l
 RT: 12.30 min Scan# 3274
 Delta R.T. 0.00 min
 Lab File: VN056688.D
 Acq: 12 Jul 2019 14:26

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0713WBS01

Tot Ion	Ratio	Lower	Upper
75	100		
53	98.2	48.6	145.8
89	47.7	21.3	64.0

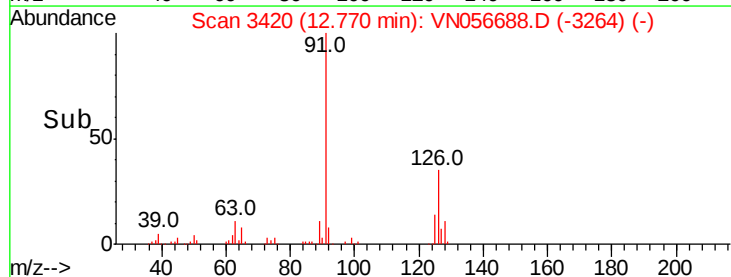
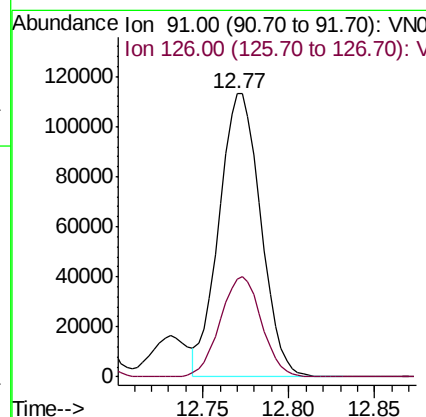
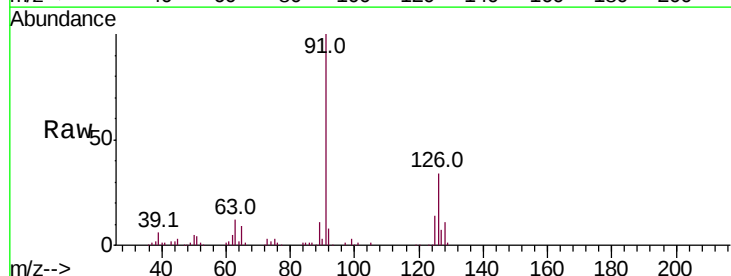
Manual Integrations
 APPROVED

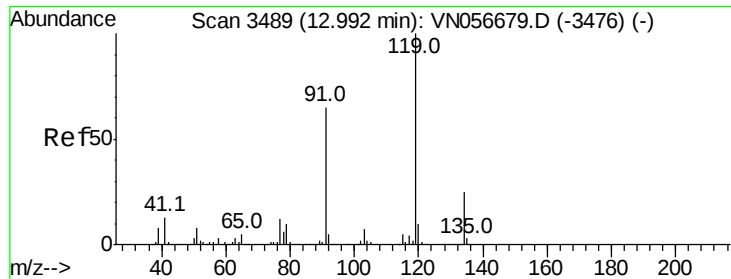
MMDadoda
 7/16/2019 9:59:45 AM



#78
 4-Chlorotoluene
 Concen: 18.372 ug/l
 RT: 12.77 min Scan# 3420
 Delta R.T. 0.00 min
 Lab File: VN056688.D
 Acq: 12 Jul 2019 14:26

Tgt Ion	Ratio	Lower	Upper
91	100		
126	35.3	0.0	69.4





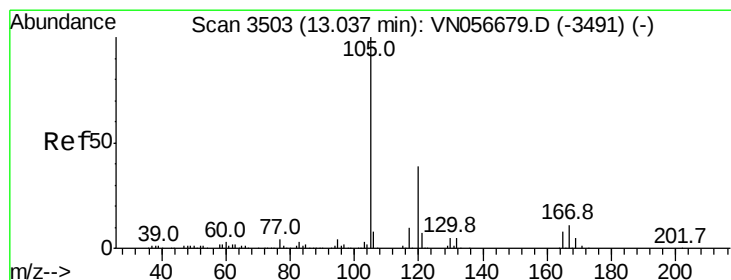
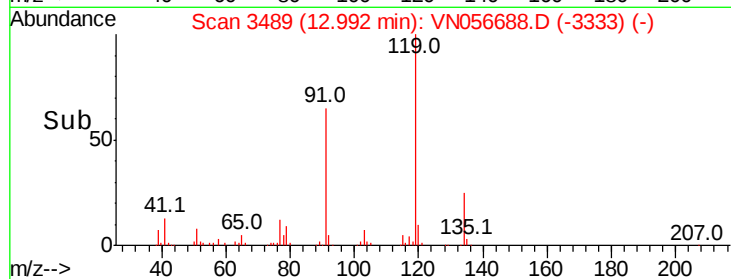
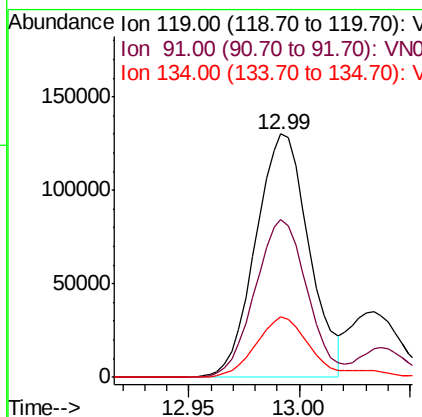
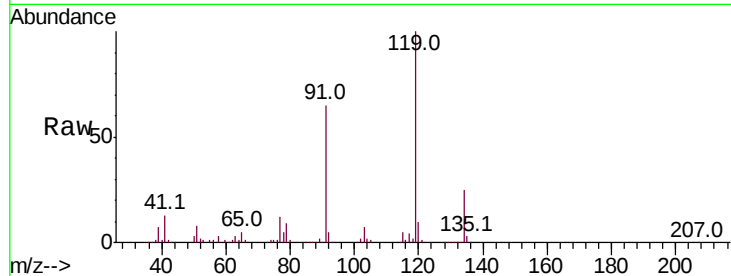
#79
tert-butylbenzene
Concen: 19.046 ug/l
RT: 12.99 min Scan# 3489
Delta R.T. 0.00 min
Lab File: VN056688.D
Acq: 12 Jul 2019 14:26

Instrument :
MSVOA_N
ClientSampleId :
VN0713WBS01

Tot Ion	Ratio	Resp	Lower	Upper
119	100	217936		
91	63.7	0.0	125.4	
134	24.5	0.0	48.4	

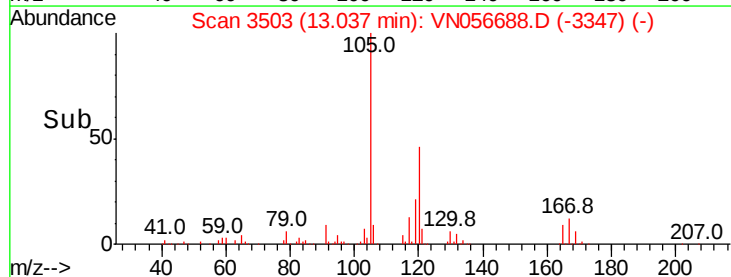
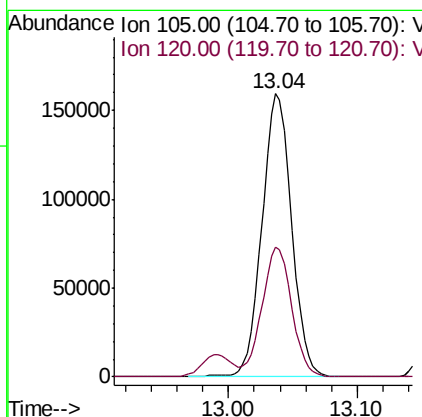
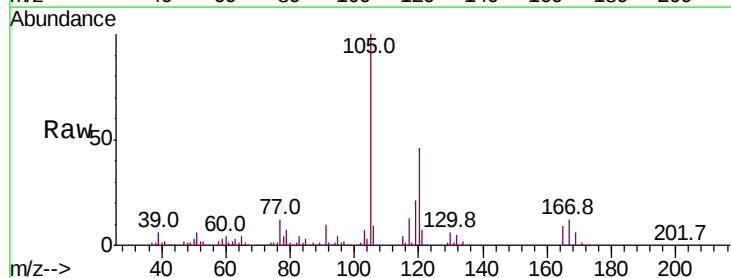
Manual Integrations
APPROVED

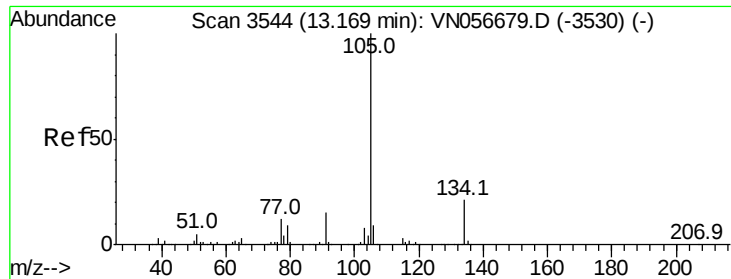
MMDadoda
7/16/2019 9:59:45 AM



#80
1,2,4-Trimethylbenzene
Concen: 19.162 ug/l
RT: 13.04 min Scan# 3503
Delta R.T. 0.00 min
Lab File: VN056688.D
Acq: 12 Jul 2019 14:26

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	255619		
120	46.0	0.0	91.2	





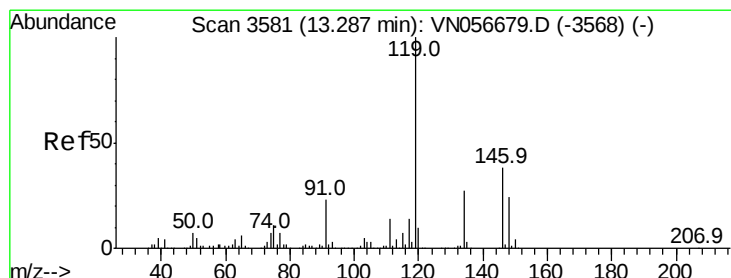
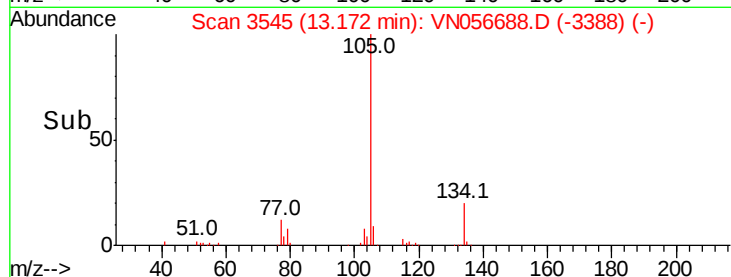
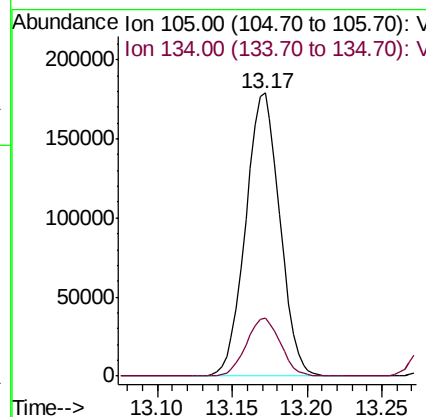
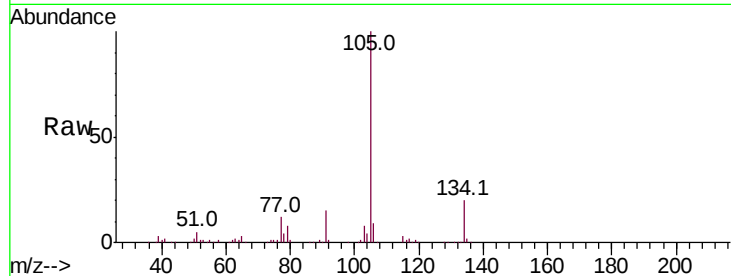
#81
 sec-Butylbenzene
 Concen: 18.807 ug/l
 RT: 13.17 min Scan# 3545
 Delta R.T. 0.00 min
 Lab File: VN056688.D
 Acq: 12 Jul 2019 14:26

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0713WBS01

Tot Ion	Ratio	Resp	Lower	Upper
105	100	284859		
134	20.4	0.0	40.8	

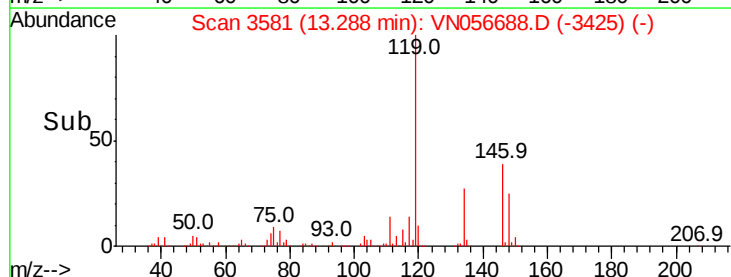
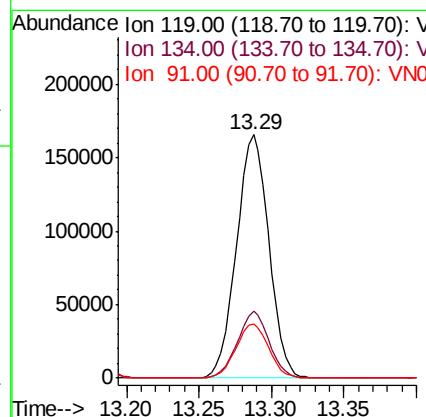
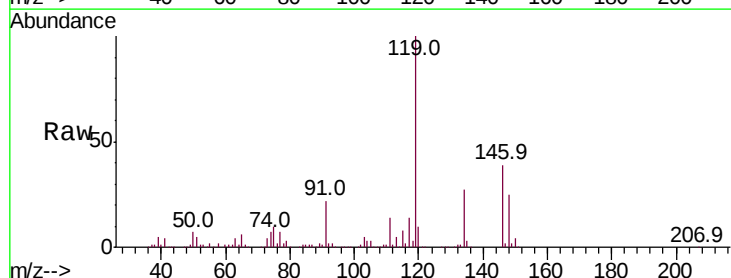
Manual Integrations
 APPROVED

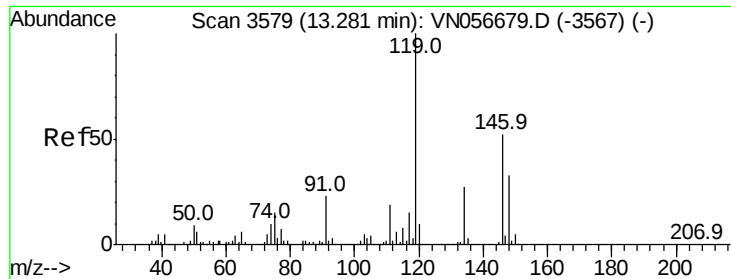
MMDadoda
 7/16/2019 9:59:45 AM



#82
 p-Isopropyltoluene
 Concen: 18.605 ug/l
 RT: 13.29 min Scan# 3581
 Delta R.T. 0.00 min
 Lab File: VN056688.D
 Acq: 12 Jul 2019 14:26

Tgt Ion	Ratio	Resp	Lower	Upper
119	100	256280		
134	26.8	0.0	52.8	
91	22.5	0.0	45.4	





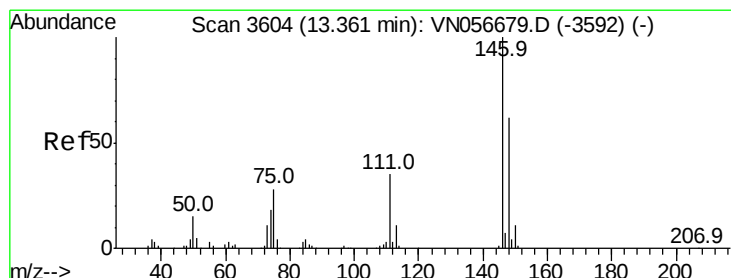
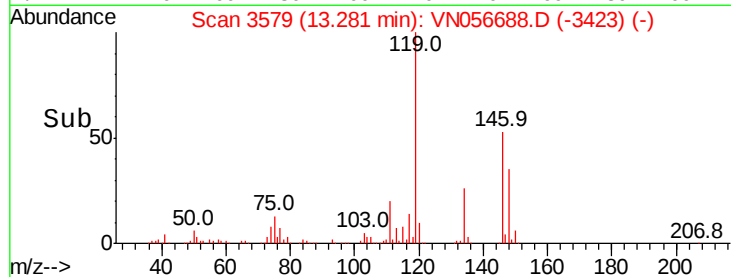
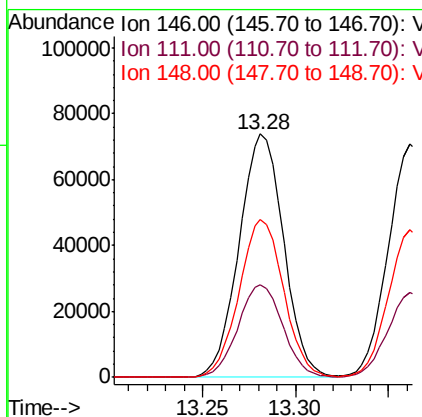
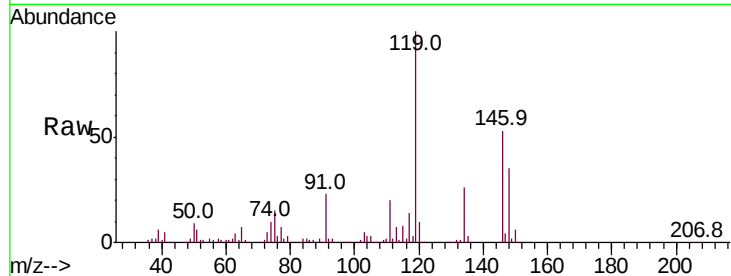
#83
 1,3-Dichlorobenzene
 Concen: 18.018 ug/l
 RT: 13.28 min Scan# 3579
 Delta R.T. 0.00 min
 Lab File: VN056688.D
 Acq: 12 Jul 2019 14:26

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0713WBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.2	18.7	56.1
148	64.7	31.8	95.4

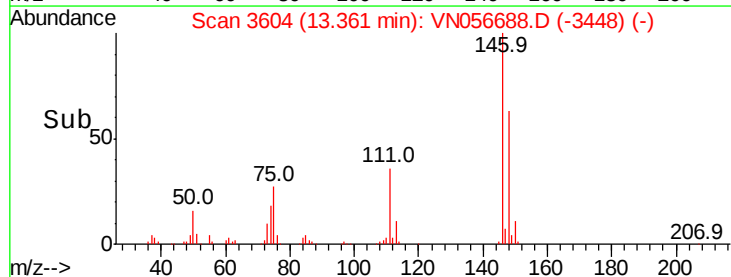
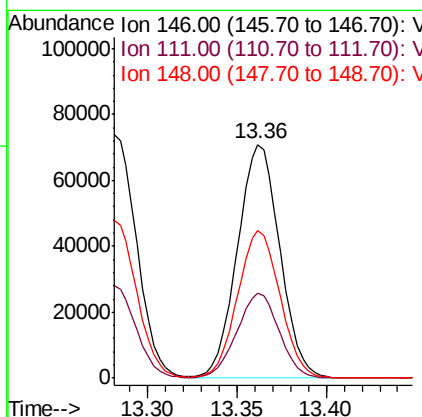
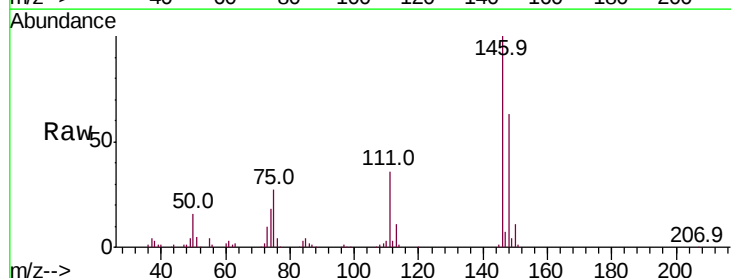
Manual Integrations
 APPROVED

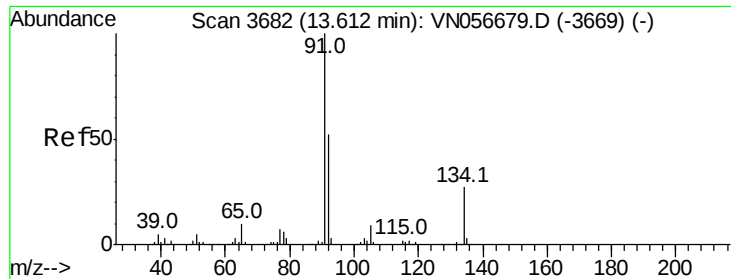
MMDadoda
 7/16/2019 9:59:45 AM



#84
 1,4-Dichlorobenzene
 Concen: 17.947 ug/l
 RT: 13.36 min Scan# 3604
 Delta R.T. 0.00 min
 Lab File: VN056688.D
 Acq: 12 Jul 2019 14:26

Tgt Ion	Ratio	Lower	Upper
146	100		
111	36.1	17.8	53.4
148	63.2	31.9	95.5





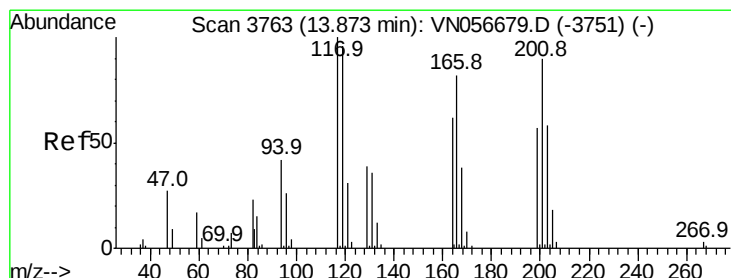
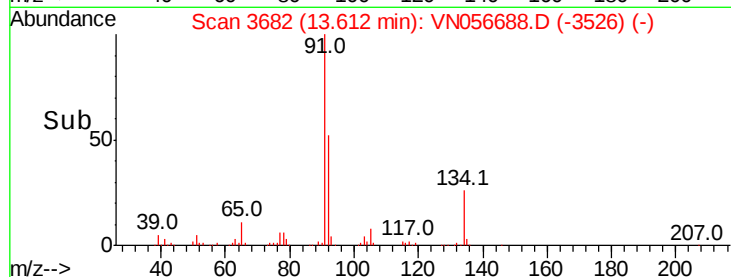
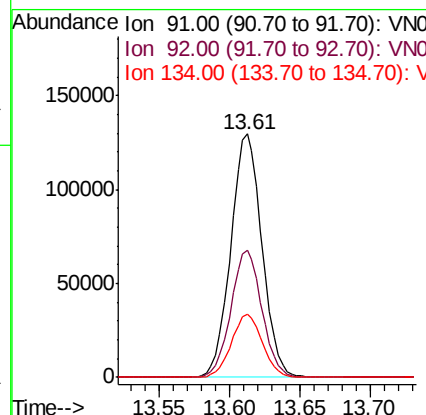
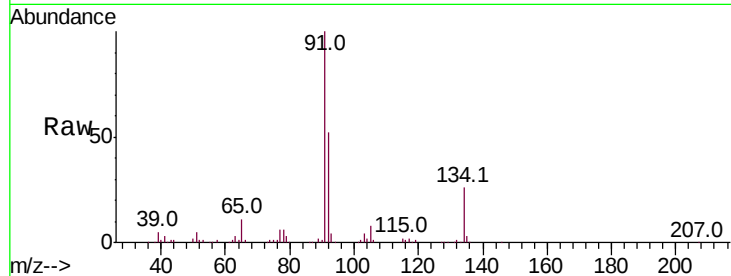
#85
n-Butylbenzene
Concen: 17.584 ug/l
RT: 13.61 min Scan# 3682
Delta R.T. 0.00 min
Lab File: VN056688.D
Acq: 12 Jul 2019 14:26

Instrument :
MSVOA_N
ClientSampleId :
VN0713WBS01

Tot Ion	Ratio	Resp	Lower	Upper
91	100	199789		
92	51.8		0.0	104.0
134	25.8		0.0	53.2

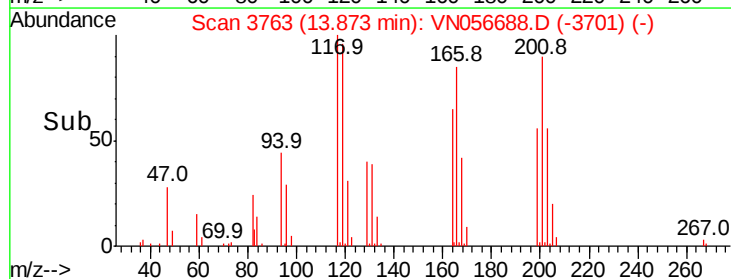
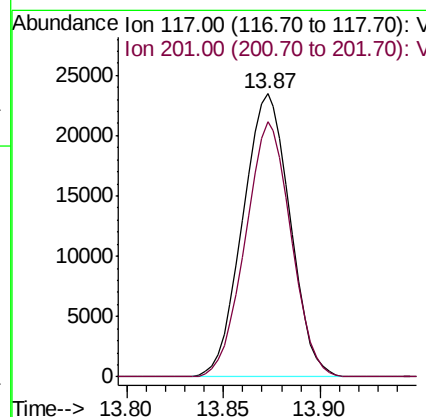
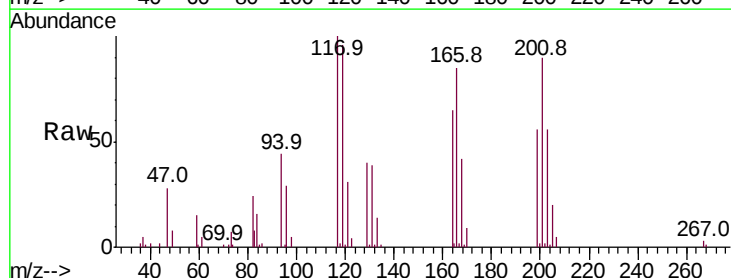
Manual Integrations
APPROVED

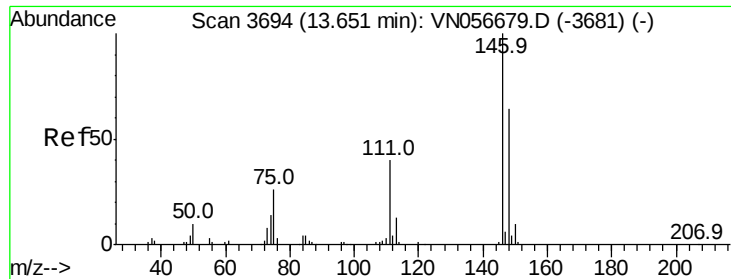
MMDadoda
7/16/2019 9:59:45 AM



#86
Hexachloroethane
Concen: 18.491 ug/l
RT: 13.87 min Scan# 3763
Delta R.T. 0.00 min
Lab File: VN056688.D
Acq: 12 Jul 2019 14:26

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	39964		
201	86.9		45.6	136.7





#87

1,2-Dichlorobenzene

Concen: 18.522 ug/l

RT: 13.65 min Scan# 3694

Delta R.T. 0.00 min

Lab File: VN056688.D

Acq: 12 Jul 2019 14:26

Instrument :

MSVOA_N

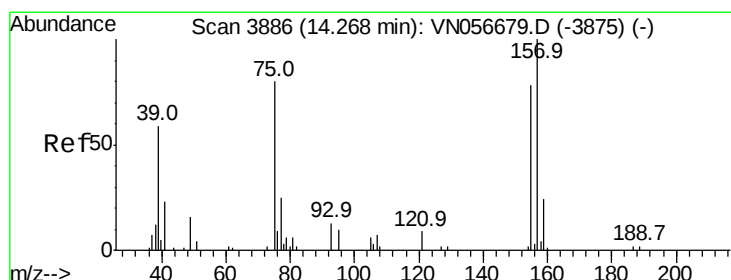
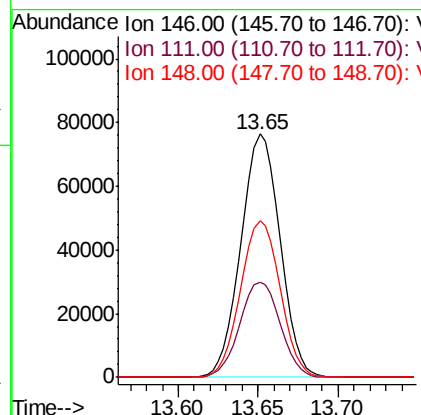
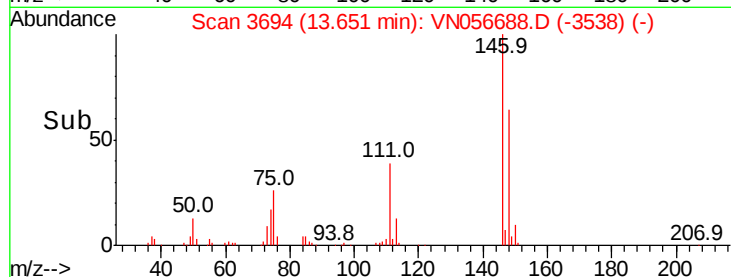
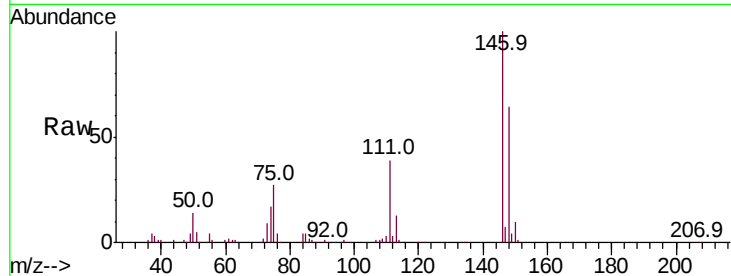
ClientSampleId :

VN0713WBS01

Tot Ion:	146	Resp:	127846
Ion Ratio	Lower	Upper	
146	100		
111	40.3	19.7	59.0
148	65.2	32.7	98.1

Manual Integrations
APPROVED

MMDadoda
7/16/2019 9:59:45 AM



#88

1,2-Dibromo-3-Chloropropane

Concen: 19.102 ug/l

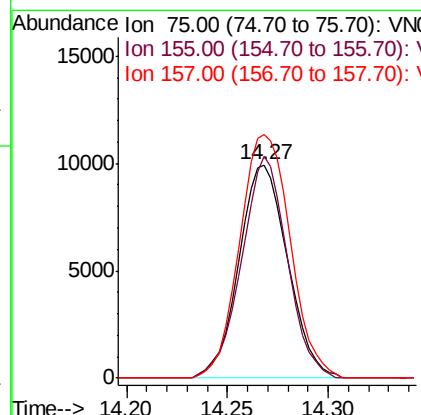
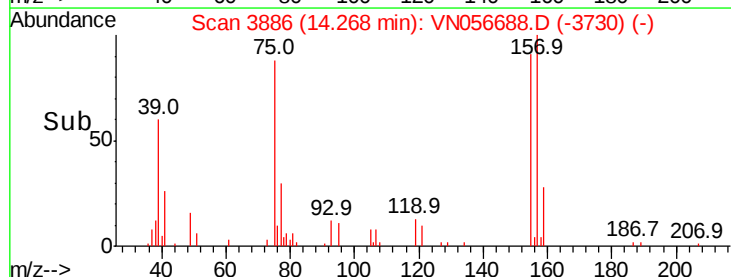
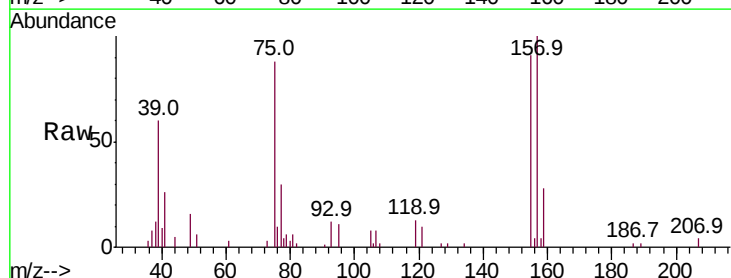
RT: 14.27 min Scan# 3886

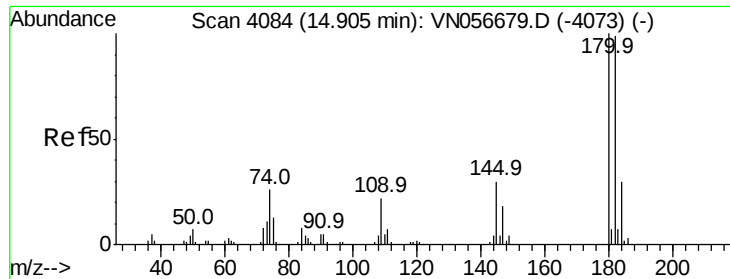
Delta R.T. 0.00 min

Lab File: VN056688.D

Acq: 12 Jul 2019 14:26

Tgt Ion:	75	Resp:	16869
Ion Ratio	Lower	Upper	
75	100		
155	96.8	78.6	117.8
157	118.6	99.3	148.9





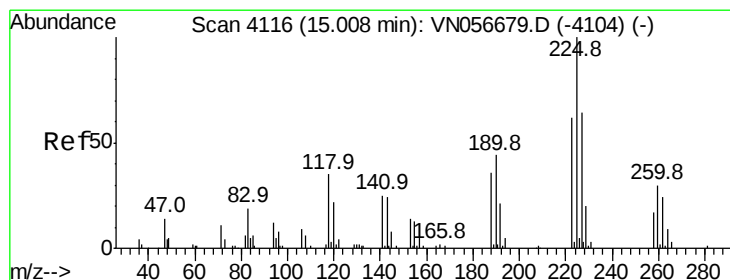
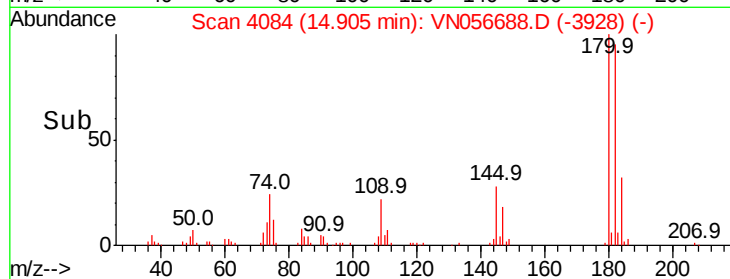
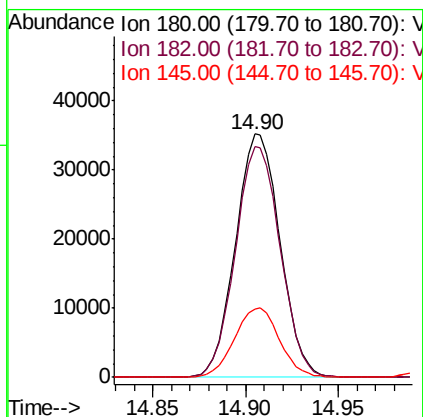
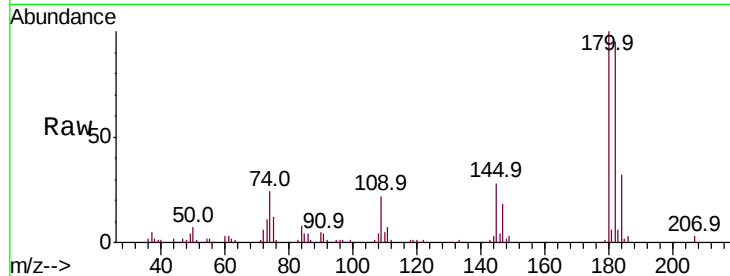
#89
 1,2,4-Trichlorobenzene
 Concen: 15.825 ug/l
 RT: 14.90 min Scan# 4084
 Delta R.T. 0.00 min
 Lab File: VN056688.D
 Acq: 12 Jul 2019 14:26

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0713WBS01

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.3	78.2	117.4
145	28.8	23.2	34.8

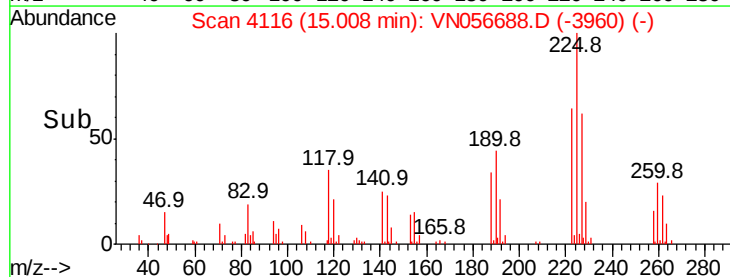
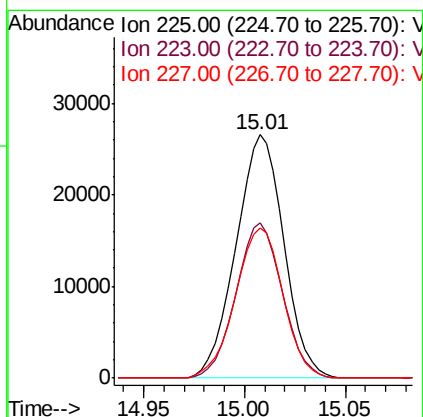
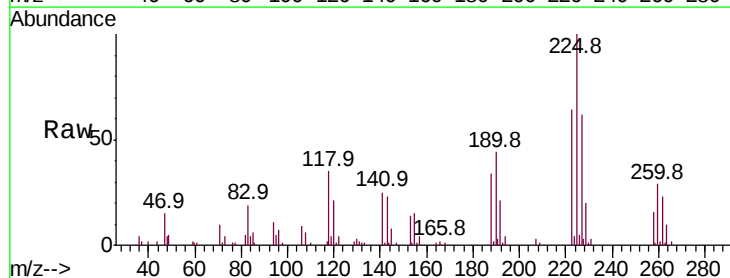
Manual Integrations
 APPROVED

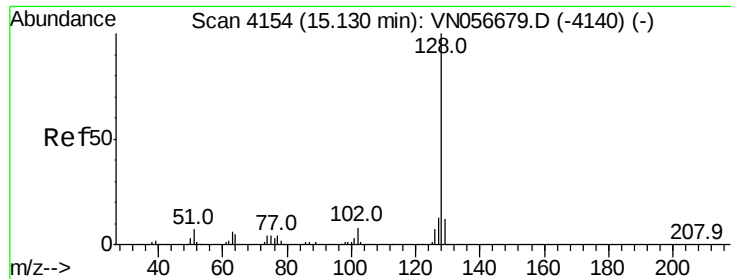
MMDadoda
 7/16/2019 9:59:45 AM



#90
 Hexachlorobutadiene
 Concen: 18.269 ug/l
 RT: 15.01 min Scan# 4116
 Delta R.T. 0.00 min
 Lab File: VN056688.D
 Acq: 12 Jul 2019 14:26

Tgt Ion	Ratio	Lower	Upper
225	100		
223	61.8	0.0	124.6
227	61.4	0.0	128.6





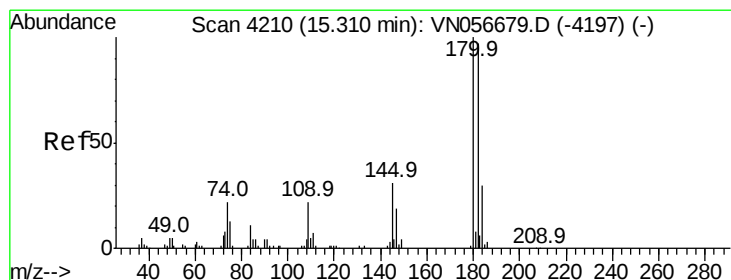
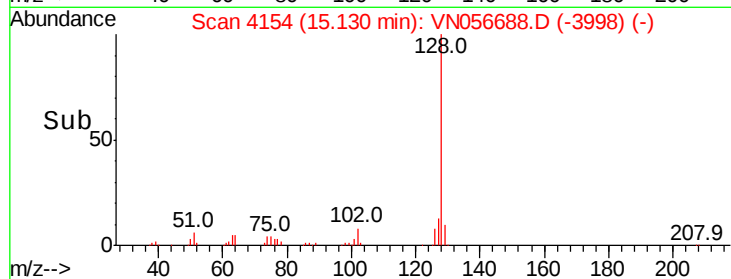
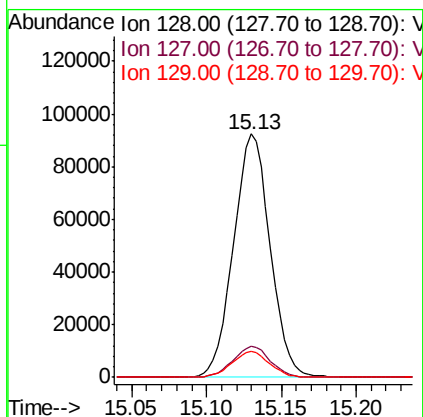
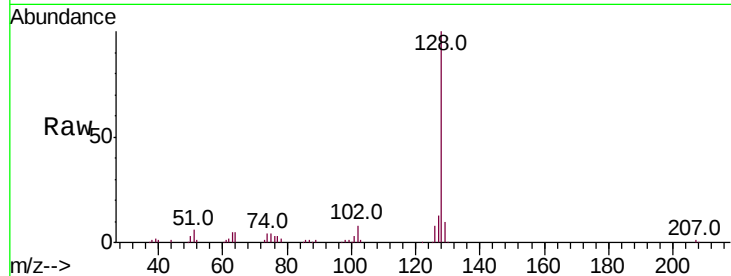
#91
Naphthalene
Concen: 15.772 ug/l
RT: 15.13 min Scan# 4154
Delta R.T. 0.00 min
Lab File: VN056688.D
Acq: 12 Jul 2019 14:26

Instrument :
MSVOA_N
ClientSampleId :
VN0713WBS01

Tot Ion:	128	Resp:	157494
Ion Ratio	Lower	Upper	
128	100		
127	12.9	10.4	15.6
129	10.7	8.8	13.2

Manual Integrations
APPROVED

MMDadoda
7/16/2019 9:59:45 AM



#92
1,2,3-Trichlorobenzene
Concen: 17.108 ug/l
RT: 15.31 min Scan# 4211
Delta R.T. 0.00 min
Lab File: VN056688.D
Acq: 12 Jul 2019 14:26

Tgt Ion:	180	Resp:	66601
Ion Ratio	Lower	Upper	
180	100		
182	93.9	0.0	192.4
145	29.5	0.0	60.4

