

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN071319\
 Data File : VN056684.D
 Acq On : 12 Jul 2019 12:29
 Operator : JC/SP
 Sample : VSTDIC005
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Manual Integrations
 APPROVED

MMDadoda
 7/16/2019 9:59:29 AM

Quant Time: Jul 13 00:00:50 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N071319W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Jul 12 23:38:18 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.19	128	53174	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	290266	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	248851	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	108296	29.72	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	99.07%
60) 4-Bromofluorobenzene	12.40	95	105889	27.58	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	91.93%
63) Toluene-d8	10.09	98	349066	30.25	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	100.83%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	13002	4.703	ug/l 100
3) Chloromethane	2.06	50	18556	4.701	ug/l 98
4) Vinyl Chloride	2.18	62	18779	5.001	ug/l 96
5) Bromomethane	2.55	94	14421m	7.078	ug/l
6) Chloroethane	2.69	64	11297	5.418	ug/l 95
7) Trichlorofluoromethane	3.00	101	24961	5.190	ug/l 98
8) Diethyl Ether	3.40	74	10470	5.200	ug/l 98
9) 1,1,2-Trichlorotrifluoroet	3.75	101	16430	5.406	ug/l 90
10) 1,1-Dichloroethene	3.73	96	15555	5.252	ug/l 92
11) Methyl Iodide	3.95	142	15399	3.657	ug/l 99
12) Methyl Acetate	4.33	43	28066	7.070	ug/l 97
13) Acrolein	3.61	56	10687	29.526	ug/l 97
14) Acrylonitrile	4.99	53	46224	26.445	ug/l 98
15) Acetone	3.82	58	13734	25.697	ug/l 94
16) Carbon Disulfide	4.05	76	39361	5.393	ug/l 99
17) Allyl chloride	4.32	41	26909	5.181	ug/l 97
18) Methylene Chloride	4.55	84	19068	5.438	ug/l 89
19) trans-1,2-Dichloroethene	5.03	96	16673	5.185	ug/l 90
20) Diisopropyl ether	5.96	45	54470	5.117	ug/l 98
21) 1,1-Dichloroethane	5.85	63	31550	5.244	ug/l 97
22) cis-1,2-Dichloroethene	6.83	96	19996	5.295	ug/l 98
23) tert-Butyl Alcohol	4.79	59	15674	23.915	ug/l # 100
24) Methyl tert-Butyl Ether	5.05	73	50006	5.131	ug/l 98
25) Chloroform	7.37	83	31112	5.265	ug/l 98
26) Cyclohexane	7.65	56	28297	5.068	ug/l # 98
29) 1,1-Dichloropropene	7.79	75	23200	5.261	ug/l 97
30) 2-Butanone	6.84	43	64230	25.874	ug/l 99
31) 2,2-Dichloropropane	6.82	77	21432	5.052	ug/l 97
32) 1,1,1-Trichloroethane	7.57	97	24088	5.141	ug/l 100
33) Carbon Tetrachloride	7.77	117	19962	4.990	ug/l 99
34) Benzene	8.04	78	71719	5.223	ug/l # 67
35) Methacrylonitrile	7.18	41	10718	5.242	ug/l 96
36) 1,2-Dichloroethane	8.13	62	24058	5.402	ug/l 99
37) Trichloroethene	8.84	130	19860	5.490	ug/l 99
38) Methylcyclohexane	9.08	83	28238	5.098	ug/l 99
39) 1,2-Dichloropropane	9.12	63	19271	5.228	ug/l 100
40) Dibromomethane	9.21	93	12605	5.503	ug/l 96

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN071319\
 Data File : VN056684.D
 Acq On : 12 Jul 2019 12:29
 Operator : JC/SP
 Sample : VSTDIC005
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleID :
 VSTDIC005

Manual Integrations
 APPROVED

MMDadoda
 7/16/2019 9:59:29 AM

Quant Time: Jul 13 00:00:50 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N071319W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Jul 12 23:38:18 2019
 Response via : Initial Calibration

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

41) Bromodichloromethane	9.40	83	21071	4.947	ug/l	97
42) Vinyl Acetate	5.90	43	200914	23.209	ug/l	100
43) Ethyl Acetate	6.93	43	24579	5.238	ug/l	99
44) Isopropyl Acetate	8.17	43	36812	5.045	ug/l #	88
45) 1,4-Dioxane	9.20	88	7219	99.596	ug/l	89
46) Methyl methacrylate	9.20	41	16667	4.641	ug/l	97
47) n-amyl Acetate	12.07	43	26333	4.355	ug/l	98
48) t-1,3-Dichloropropene	10.38	75	22562	4.932	ug/l	96
49) cis-1,3-Dichloropropene	9.84	75	25209	4.794	ug/l	99
50) 1,1,2-Trichloroethane	10.56	97	18243	5.427	ug/l	97
51) Ethyl methacrylate	10.43	69	24805	4.717	ug/l	94
52) 1,3-Dichloropropane	10.71	76	29125	5.078	ug/l	100
53) Dibromochloromethane	10.90	129	16050	4.837	ug/l	99
54) 1,2-Dibromoethane	11.00	107	18062	5.148	ug/l	98
55) 2-Chloroethyl vinyl ether	9.70	63	59693	22.477	ug/l	99
56) Bromoform	12.12	173	11181	4.602	ug/l #	94
58) 4-Methyl-2-Pentanone	9.99	43	121182	26.674	ug/l	99
59) 2-Hexanone	10.75	43	87457	25.593	ug/l	99
61) Tetrachloroethene	10.63	164	19888	6.121	ug/l	95
62) Toluene	10.16	91	75579	5.339	ug/l	99
64) Chlorobenzene	11.43	112	45928	5.378	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.51	131	16199	5.228	ug/l	99
66) Ethyl Benzene	11.51	91	77762	5.060	ug/l	99
67) m/p-Xylenes	11.62	106	58389	10.235	ug/l	99
68) o-Xylene	11.95	106	29959	5.352	ug/l	93
69) Styrene	11.96	104	44986	4.834	ug/l	98
70) Isopropylbenzene	12.25	105	75850	5.174	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.50	83	25920	5.377	ug/l	99
72) 1,2,3-Trichloropropane	12.55	75	21067m	5.209	ug/l	
73) Bromobenzene	12.53	156	19305	5.100	ug/l	95
74) n-propylbenzene	12.59	91	79955	4.783	ug/l	100
75) 2-Chlorotoluene	12.67	91	51470	5.164	ug/l	100
76) 1,3,5-Trimethylbenzene	12.73	105	63466	5.081	ug/l	98
77) t-1,4-Dichloro-2-butene	12.30	75	5144	3.911	ug/l	81
78) 4-Chlorotoluene	12.77	91	45783	4.733	ug/l	100
79) tert-butylbenzene	12.99	119	55536	5.222	ug/l	98
80) 1,2,4-Trimethylbenzene	13.04	105	61682	4.998	ug/l	100
81) sec-Butylbenzene	13.17	105	71967	5.096	ug/l	100
82) p-Isopropyltoluene	13.29	119	61648	4.833	ug/l	99
83) 1,3-Dichlorobenzene	13.28	146	29972	4.751	ug/l	98
84) 1,4-Dichlorobenzene	13.36	146	26934	4.436	ug/l	97
85) n-Butylbenzene	13.61	91	45819	4.292	ug/l	99
86) Hexachloroethane	13.87	117	8809	4.541	ug/l	96
87) 1,2-Dichlorobenzene	13.65	146	31843	5.009	ug/l	97
88) 1,2-Dibromo-3-Chloropropan	14.27	75	3644	4.243	ug/l	94
89) 1,2,4-Trichlorobenzene	14.91	180	14149	4.037	ug/l	98
90) Hexachlorobutadiene	15.01	225	12585	5.687	ug/l	95
91) Naphthalene	15.13	128	34219	3.546	ug/l	99
92) 1,2,3-Trichlorobenzene	15.31	180	17023	4.640	ug/l	99

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN071319\
Data File : VN056684.D
Acq On : 12 Jul 2019 12:29
Operator : JC/SP
Sample : VSTDICC005
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

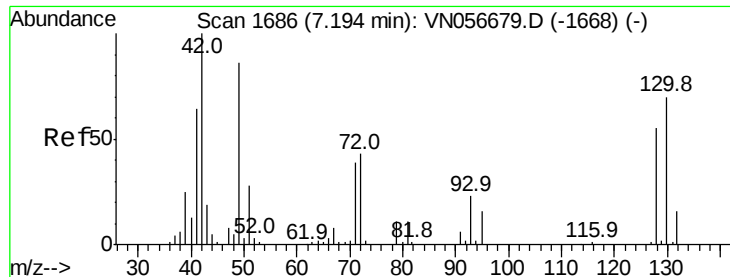
Manual Integrations
APPROVED

MMDadoda
7/16/2019 9:59:29 AM

Quant Time: Jul 13 00:00:50 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N071319W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Jul 12 23:38:18 2019
Response via : Initial Calibration

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

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



#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 7.19 min Scan# 1686

Delta R.T. 0.00 min

Lab File: VN056684.D

Acq: 12 Jul 2019 12:29

Instrument :

MSVOA_N

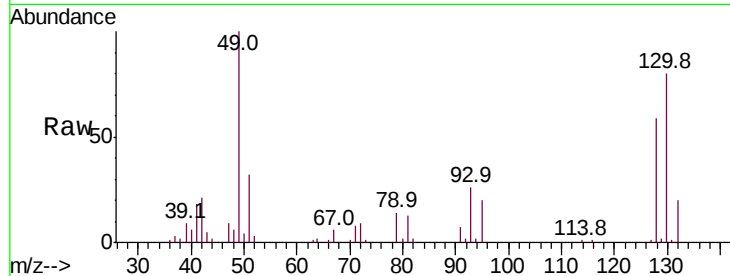
ClientSampleId :

VSTDIC005

Tot Ion	Ratio	Lower	Upper
128	100		
49	156.9	0.0	390.5
130	128.2	0.0	316.5

Manual Integrations
APPROVED

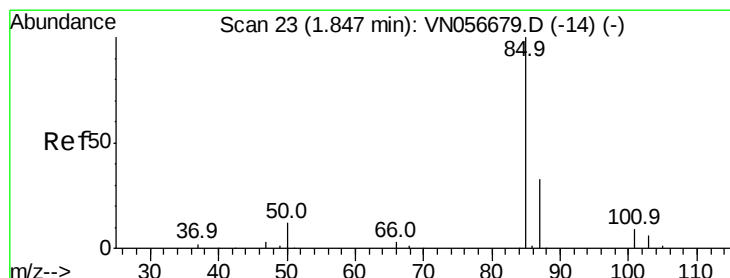
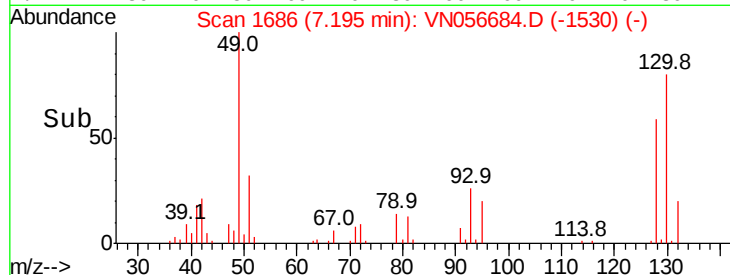
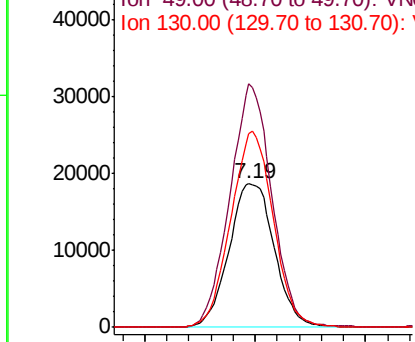
MMDadoda
7/16/2019 9:59:29 AM



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VN

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 4.703 ug/l

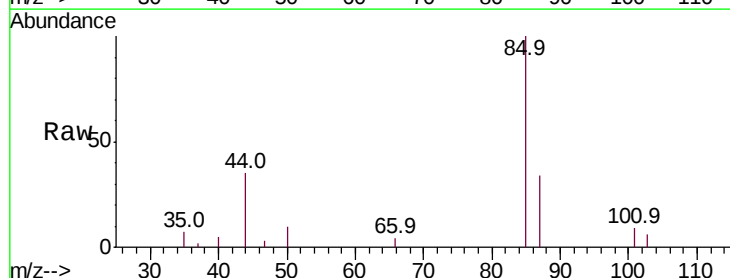
RT: 1.85 min Scan# 23

Delta R.T. 0.00 min

Lab File: VN056684.D

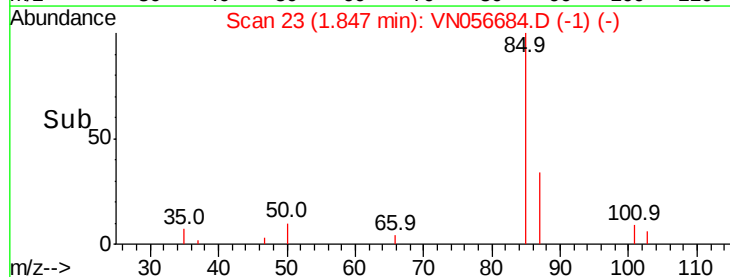
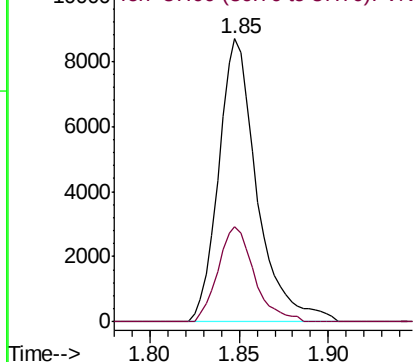
Acq: 12 Jul 2019 12:29

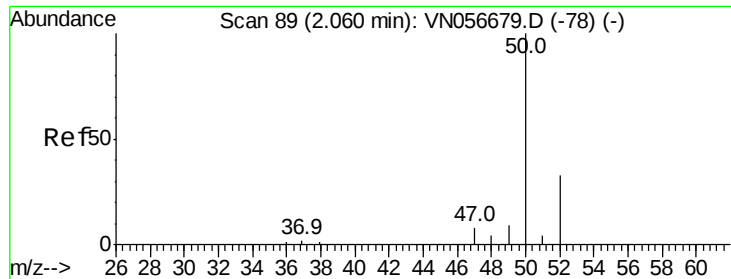
Tgt Ion	Ratio	Lower	Upper
85	100		
87	33.5	16.8	50.3



Abundance Ion 85.00 (84.70 to 85.70): VN

Ion 87.00 (86.70 to 87.70): VN





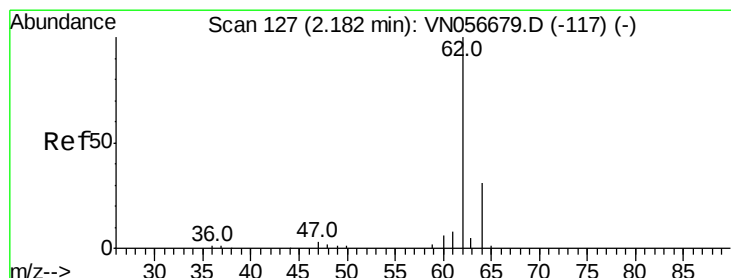
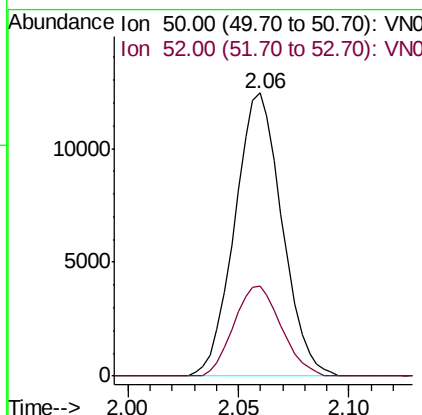
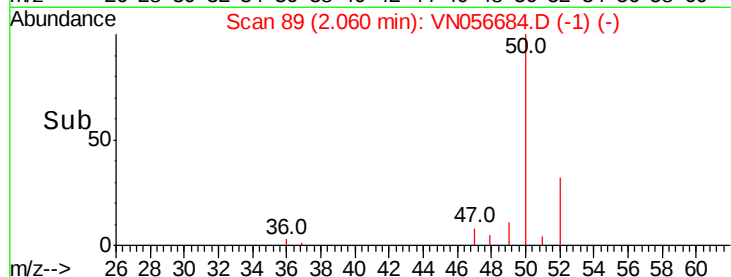
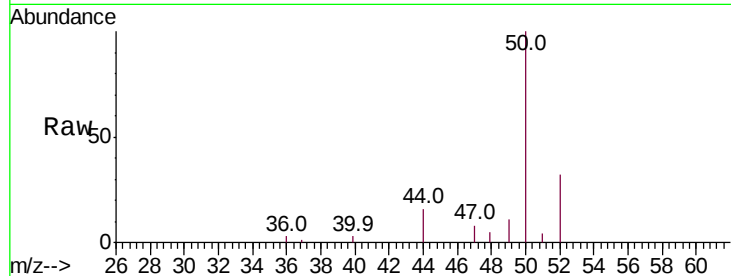
#3
Chloromethane
Concen: 4.701 ug/l
RT: 2.06 min Scan# 89
Delta R.T. 0.00 min
Lab File: VN056684.D
Acq: 12 Jul 2019 12:29

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	50	52	Ratio	100	Resp	18556	Lower	Upper
50	100							
52	31.8				26.5		39.7	

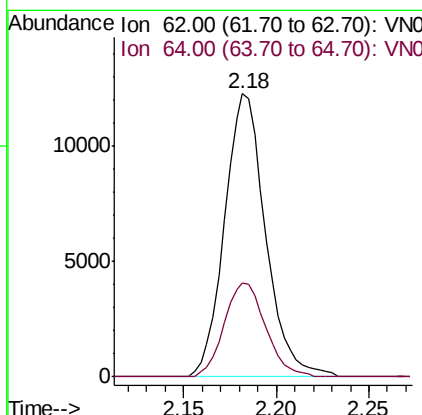
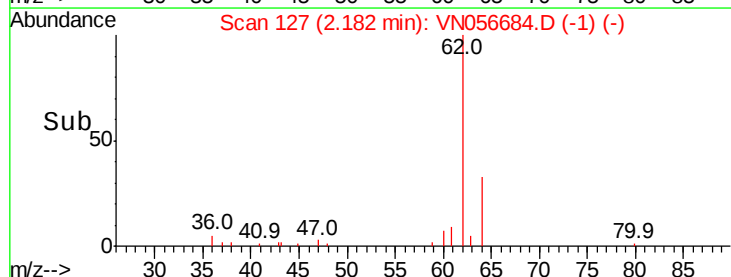
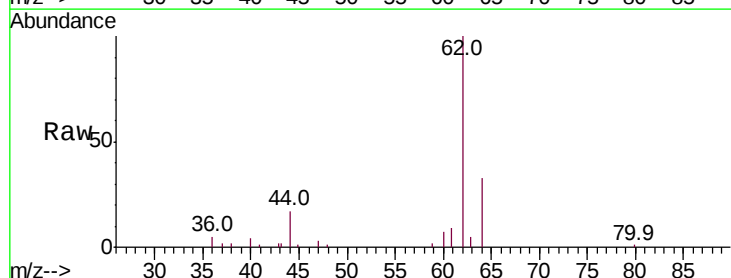
Manual Integrations
APPROVED

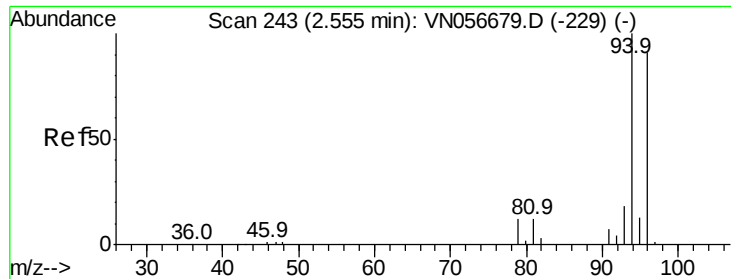
MMDadoda
7/16/2019 9:59:29 AM



#4
Vinyl Chloride
Concen: 5.001 ug/l
RT: 2.18 min Scan# 127
Delta R.T. 0.00 min
Lab File: VN056684.D
Acq: 12 Jul 2019 12:29

Tgt Ion	62	64	Ratio	100	Resp	18779	Lower	Upper
62	100							
64	33.4				25.0		37.4	





#5

Bromomethane

Concen: 7.078 ug/l m

RT: 2.55 min Scan# 241

Delta R.T. -0.01 min

Lab File: VN056684.D

Acq: 12 Jul 2019 12:29

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion: 94 Resp: 14421

Ion Ratio Lower Upper

94 100

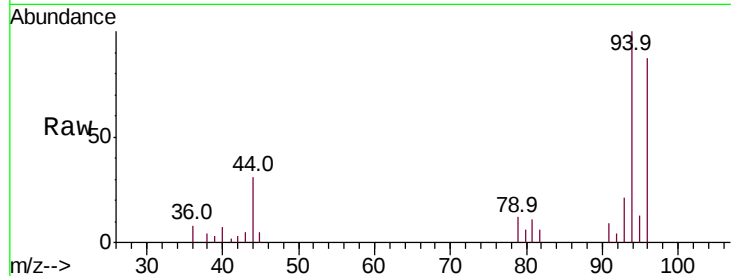
96 87.0 72.8 109.2

Manual Integrations

APPROVED

MMDadoda

7/16/2019 9:59:29 AM



Abundance Ion 94.00 (93.70 to 94.70): VN0

Ion 96.00 (95.70 to 96.70): VN0

8000

6000

4000

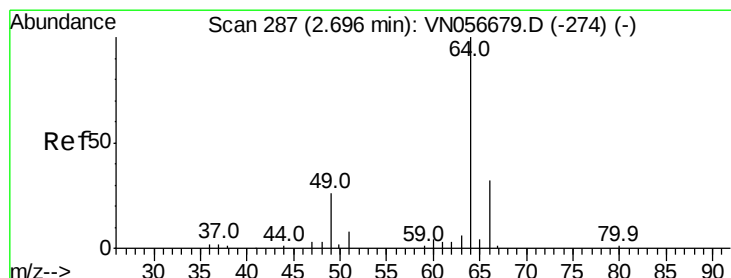
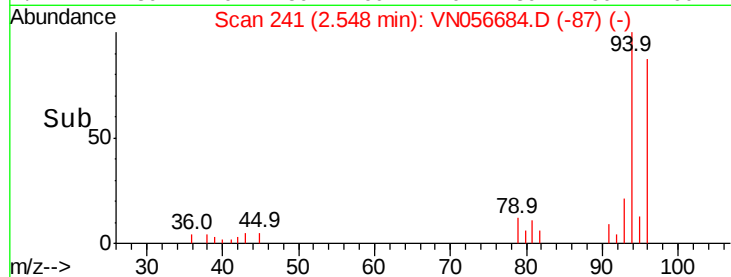
2000

0

Time-->

2.45 2.50 2.55 2.60 2.65

2.55



#6

Chloroethane

Concen: 5.418 ug/l

RT: 2.69 min Scan# 286

Delta R.T. -0.00 min

Lab File: VN056684.D

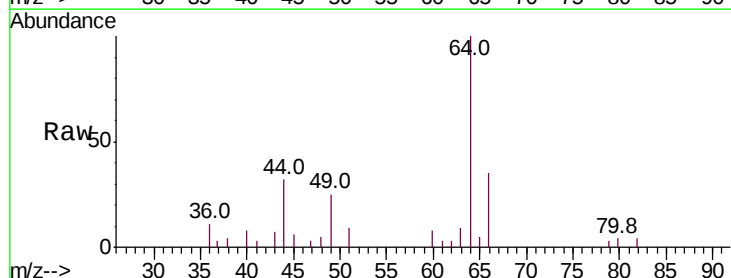
Acq: 12 Jul 2019 12:29

Tgt Ion: 64 Resp: 11297

Ion Ratio Lower Upper

64 100

66 34.7 25.7 38.5



Abundance Ion 64.00 (63.70 to 64.70): VN0

Ion 66.00 (65.70 to 66.70): VN0

6000

5000

4000

3000

2000

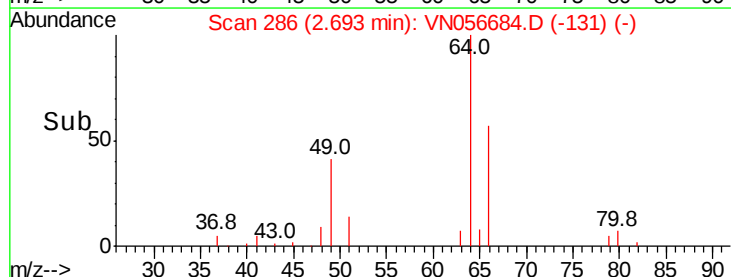
1000

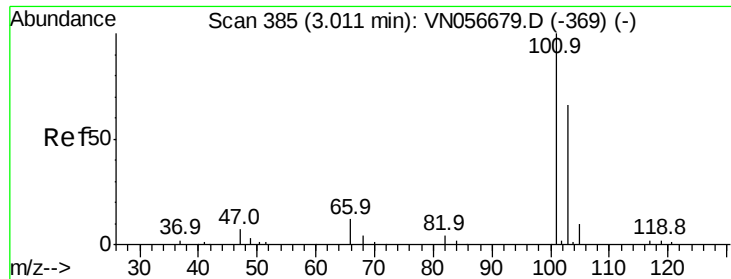
0

Time-->

2.65 2.70 2.75

2.69





#7

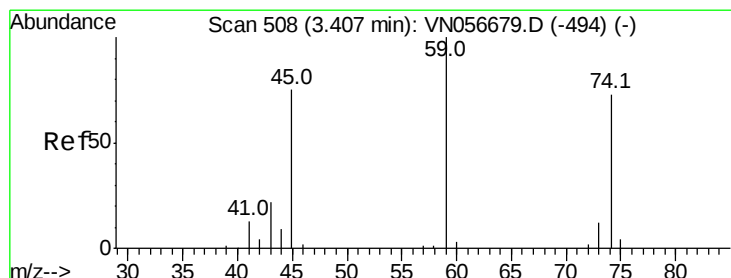
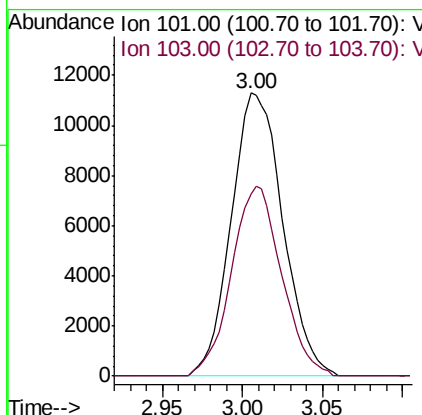
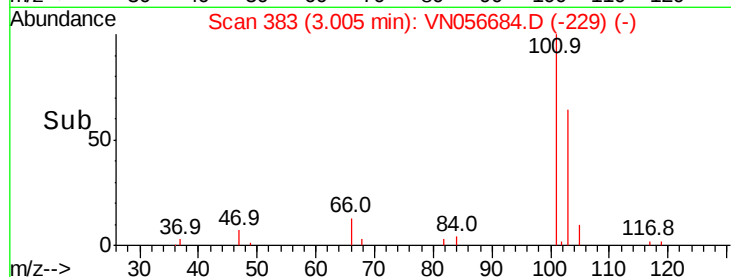
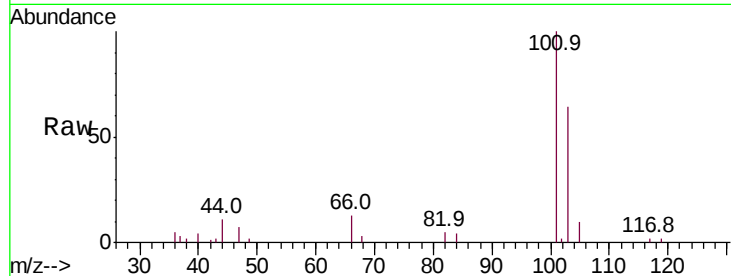
Trichlorofluoromethane
 Concen: 5.190 ug/l
 RT: 3.00 min Scan# 383
 Delta R.T. -0.01 min
 Lab File: VN056684.D
 Acq: 12 Jul 2019 12:29

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tot Ion:101 Resp: 24961
 Ion Ratio Lower Upper
 101 100
 103 64.5 52.8 79.2

Manual Integrations
 APPROVED

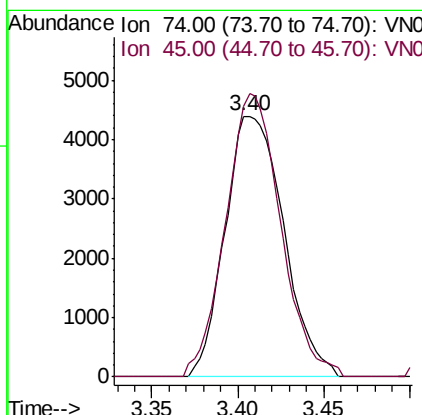
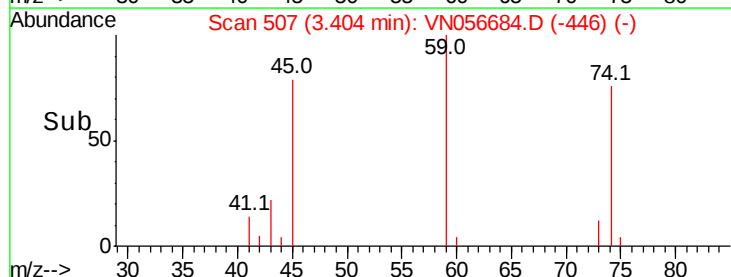
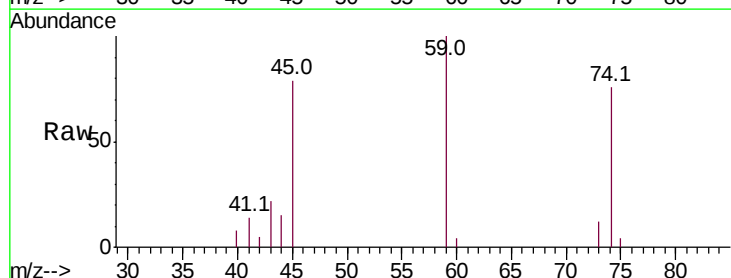
MMDadoda
 7/16/2019 9:59:29 AM

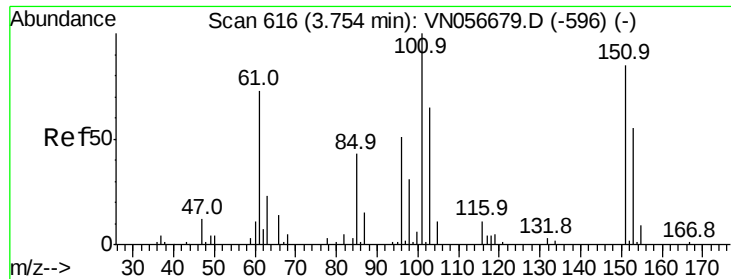


#8

Diethyl Ether
 Concen: 5.200 ug/l
 RT: 3.40 min Scan# 507
 Delta R.T. -0.00 min
 Lab File: VN056684.D
 Acq: 12 Jul 2019 12:29

Tgt Ion: 74 Resp: 10470
 Ion Ratio Lower Upper
 74 100
 45 101.8 19.9 179.5





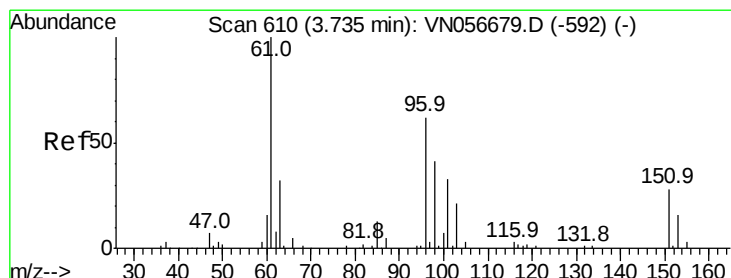
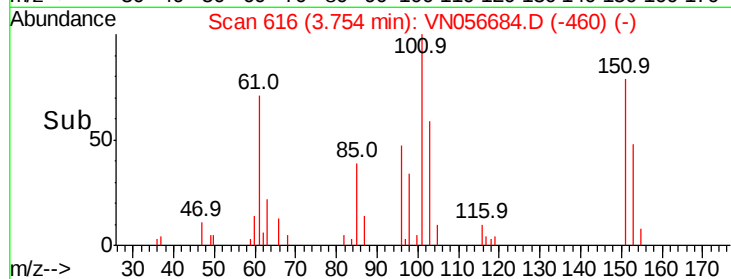
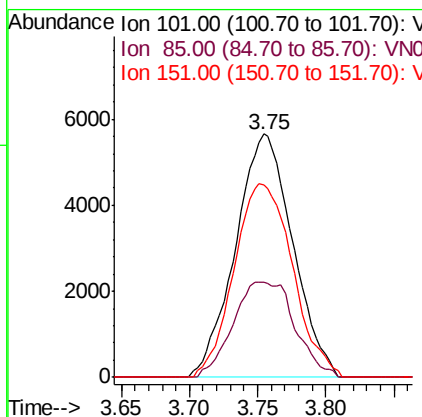
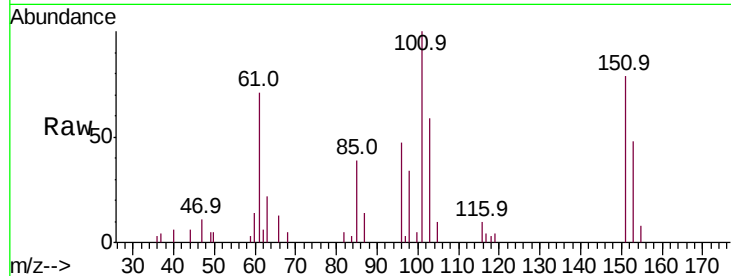
#9
 1,1,2-Trichlorotrifluoroethane
 Concen: 5.406 ug/l
 RT: 3.75 min Scan# 616
 Delta R.T. 0.00 min
 Lab File: VN056684.D
 Acq: 12 Jul 2019 12:29

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tot Ion:	101	Resp:	16430
Ion Ratio	Lower	Upper	
101	100		
85	26.9	0.0	84.2
151	81.6	0.0	167.6

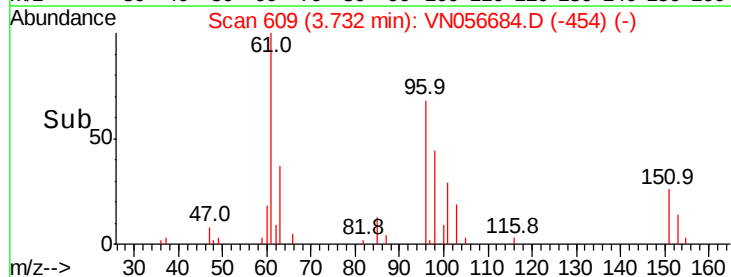
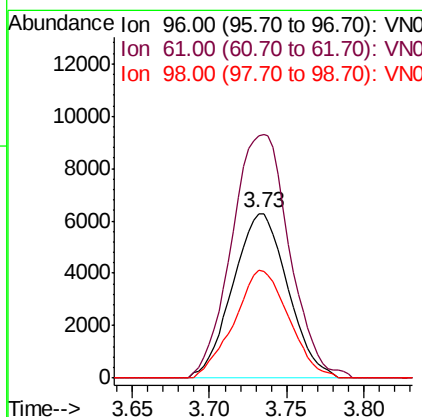
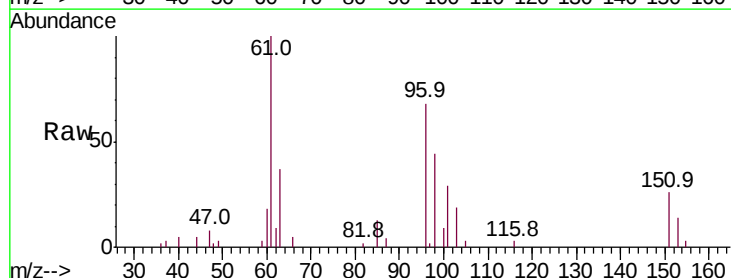
Manual Integrations
 APPROVED

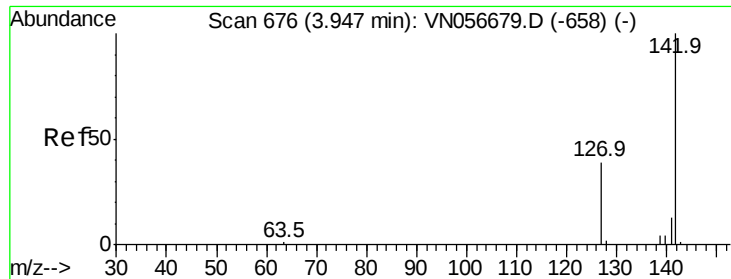
MMDadoda
 7/16/2019 9:59:29 AM



#10
 1,1-Dichloroethene
 Concen: 5.252 ug/l
 RT: 3.73 min Scan# 609
 Delta R.T. -0.00 min
 Lab File: VN056684.D
 Acq: 12 Jul 2019 12:29

Tgt Ion:	96	Resp:	15555
Ion Ratio	Lower	Upper	
96	100		
61	147.0	129.0	193.4
98	65.4	52.5	78.7





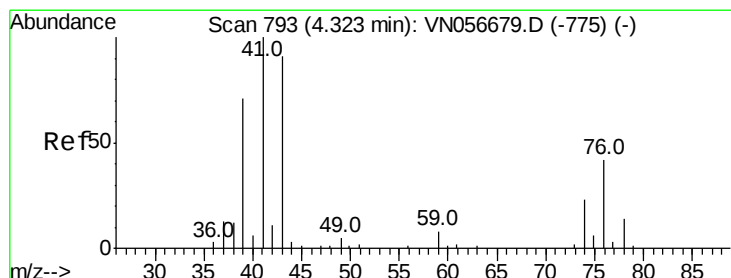
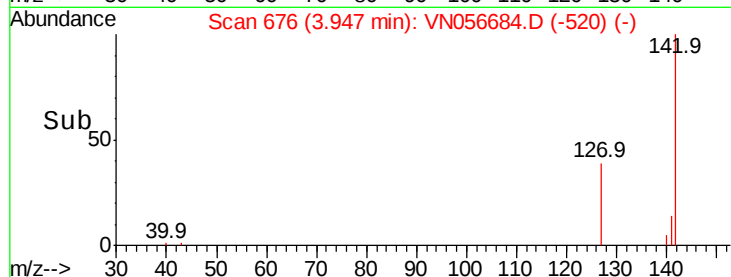
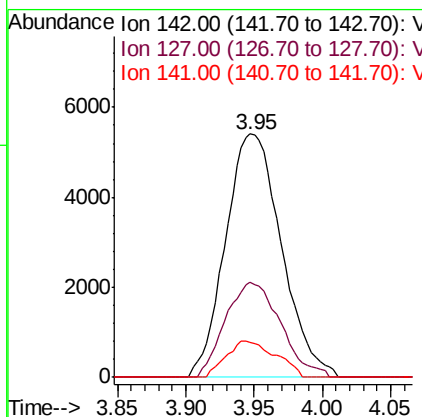
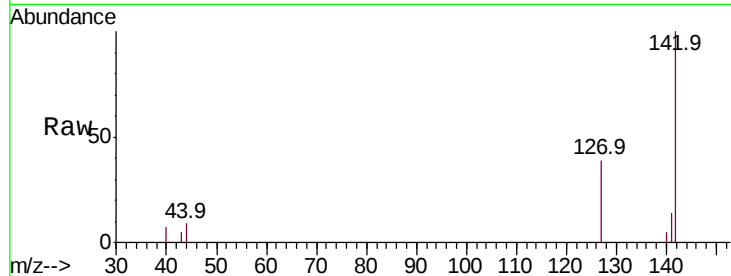
#11
Methyl Iodide
Concen: 3.657 ug/l
RT: 3.95 min Scan# 676
Delta R.T. 0.00 min
Lab File: VN056684.D
Acq: 12 Jul 2019 12:29

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
142	100		
127	39.2	19.5	58.5
141	14.3	6.8	20.3

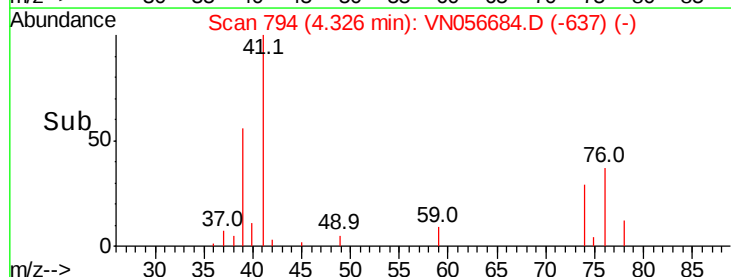
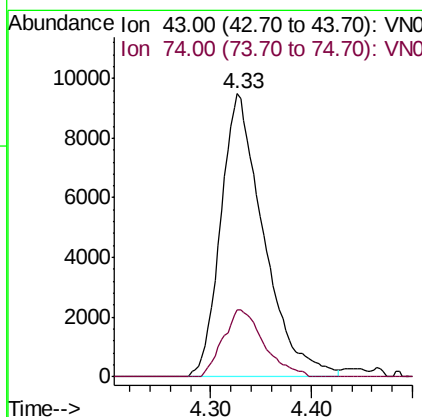
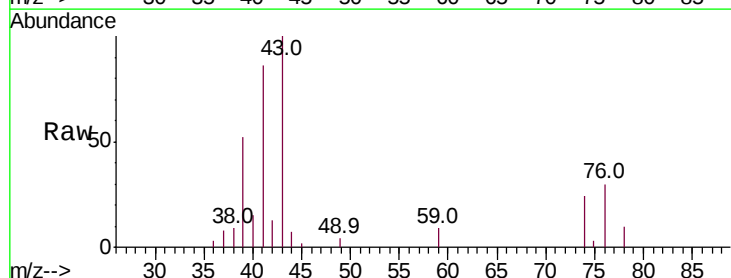
Manual Integrations
APPROVED

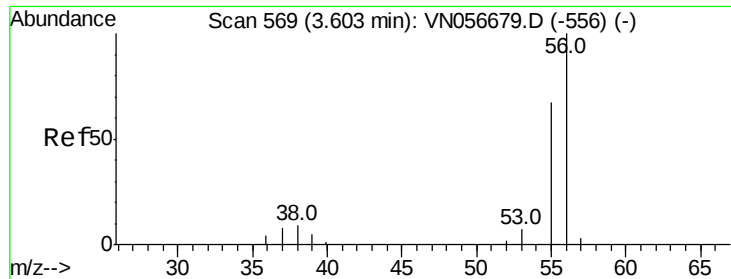
MMDadoda
7/16/2019 9:59:29 AM



#12
Methyl Acetate
Concen: 7.070 ug/l
RT: 4.33 min Scan# 794
Delta R.T. 0.00 min
Lab File: VN056684.D
Acq: 12 Jul 2019 12:29

Tgt Ion	Ratio	Lower	Upper
43	100		
74	23.8	20.2	30.4





#13

Acrolein

Concen: 29.526 ug/l

RT: 3.61 min Scan# 571

Delta R.T. 0.01 min

Lab File: VN056684.D

Acq: 12 Jul 2019 12:29

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion: 56 Resp: 10687

Ion Ratio Lower Upper

56 100

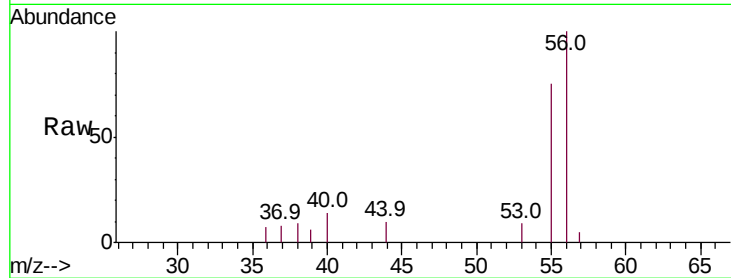
55 73.5 56.9 85.3

Manual Integrations

APPROVED

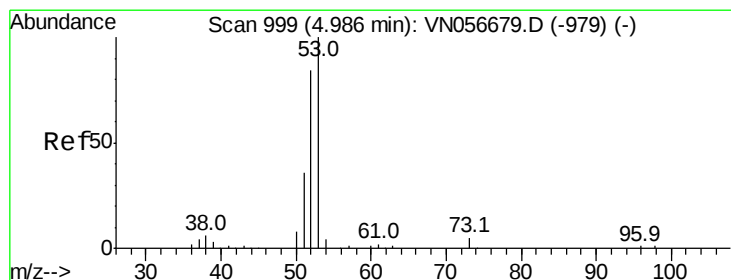
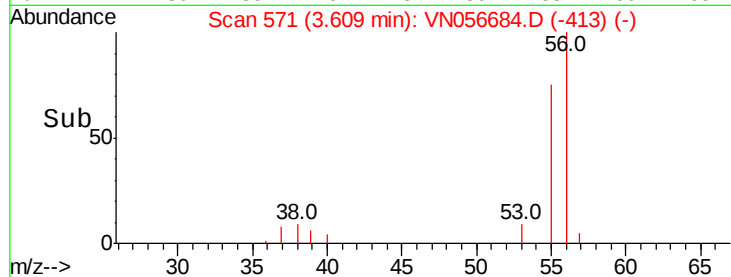
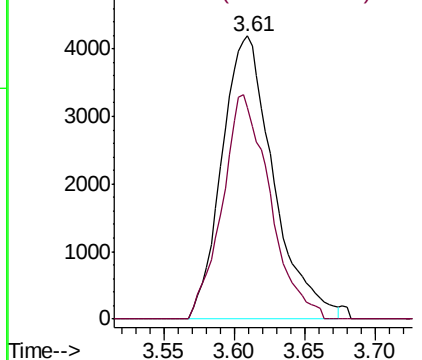
MMDadoda

7/16/2019 9:59:29 AM



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#14

Acrylonitrile

Concen: 26.445 ug/l

RT: 4.99 min Scan# 1001

Delta R.T. 0.01 min

Lab File: VN056684.D

Acq: 12 Jul 2019 12:29

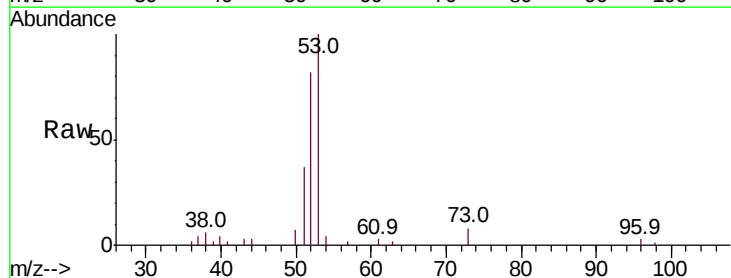
Tgt Ion: 53 Resp: 46224

Ion Ratio Lower Upper

53 100

52 80.6 41.3 123.7

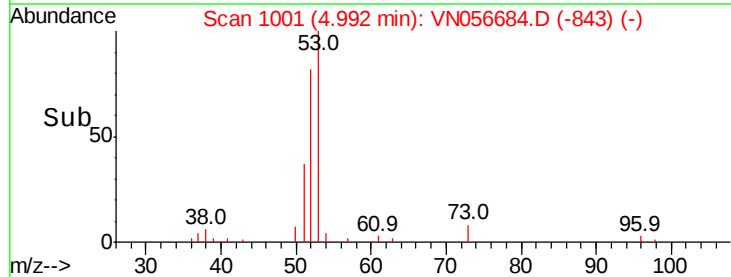
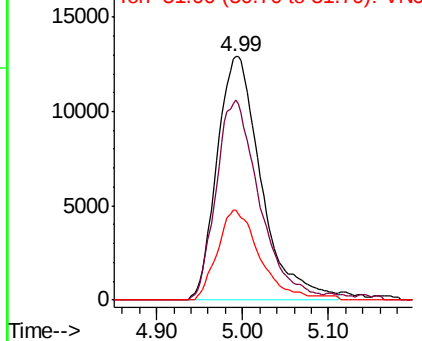
51 34.4 17.7 53.1

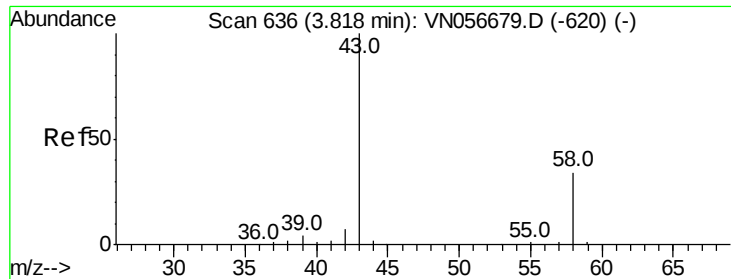


Abundance Ion 53.00 (52.70 to 53.70): VN0

Ion 52.00 (51.70 to 52.70): VN0

Ion 51.00 (50.70 to 51.70): VN0





#15

Acetone

Concen: 25.697 ug/l

RT: 3.82 min Scan# 636

Delta R.T. 0.00 min

Lab File: VN056684.D

Acq: 12 Jul 2019 12:29

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion: 58 Resp: 13734

Ion Ratio Lower Upper

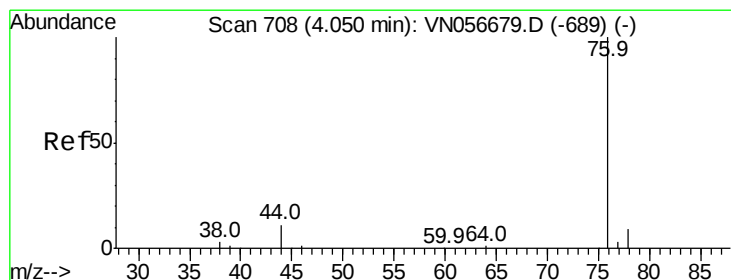
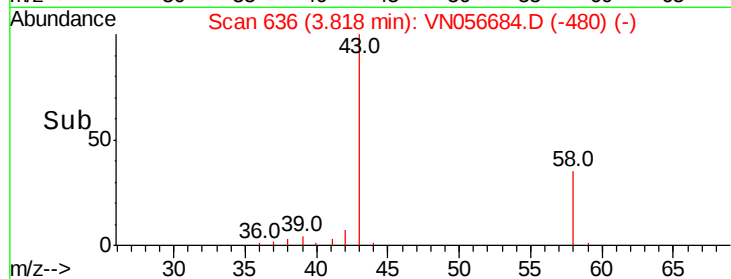
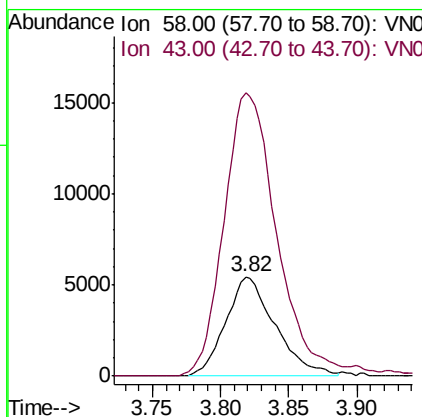
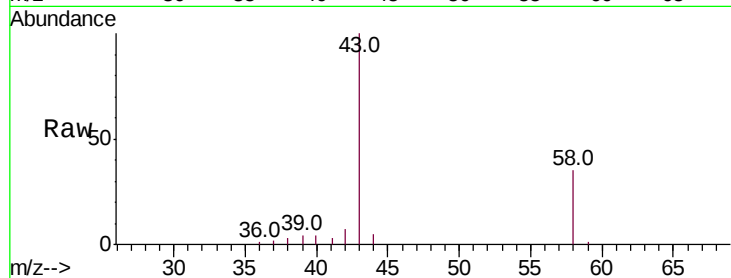
58 100

43 280.3 233.9 350.9

Manual Integrations
APPROVED

MMDadoda

7/16/2019 9:59:29 AM



#16

Carbon Disulfide

Concen: 5.393 ug/l

RT: 4.05 min Scan# 707

Delta R.T. -0.00 min

Lab File: VN056684.D

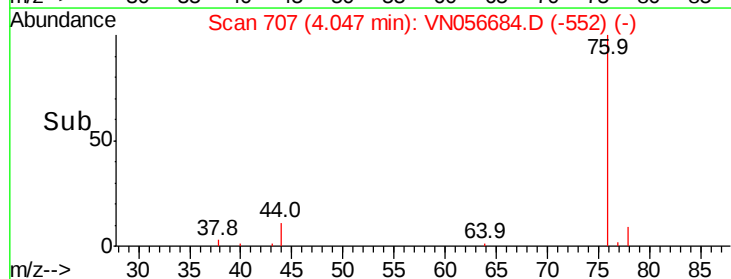
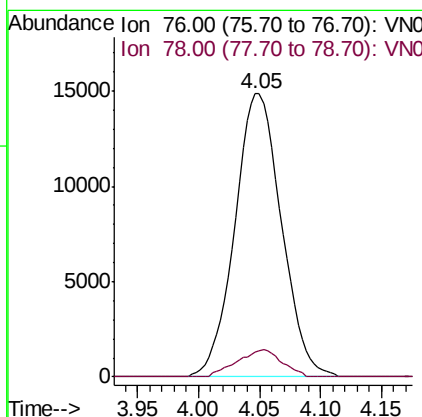
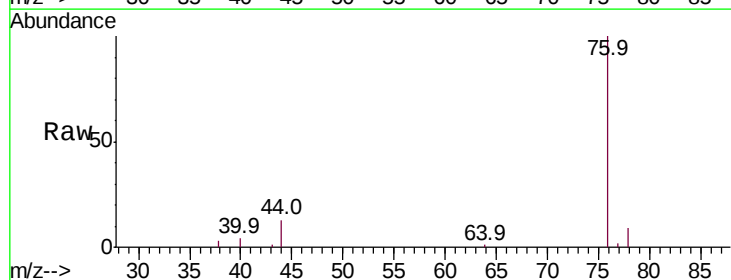
Acq: 12 Jul 2019 12:29

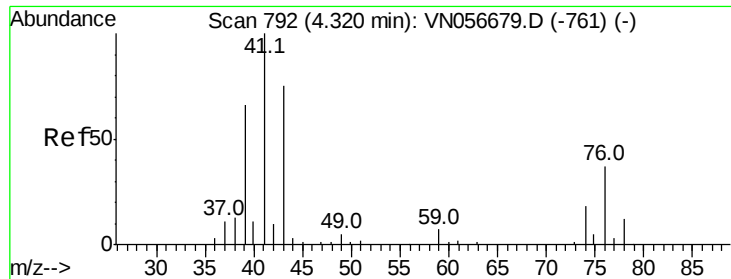
Tgt Ion: 76 Resp: 39361

Ion Ratio Lower Upper

76 100

78 8.7 7.4 11.0





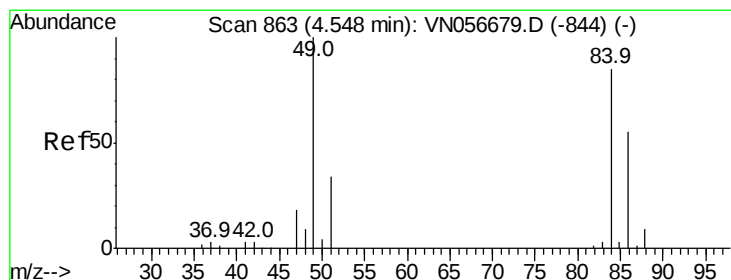
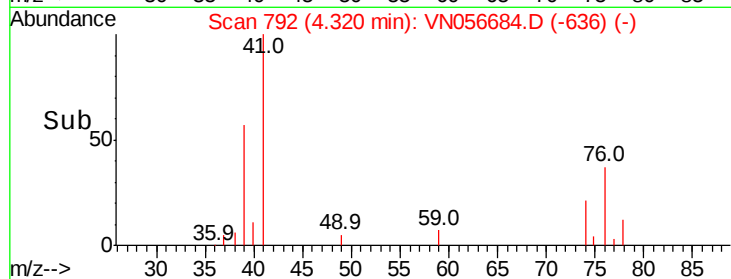
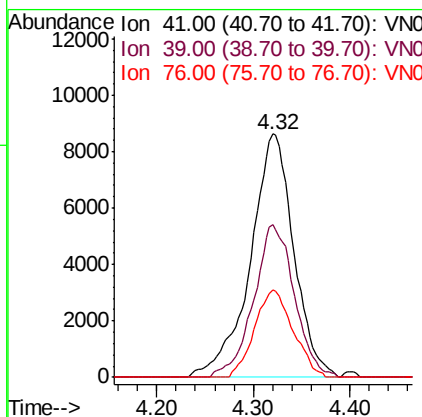
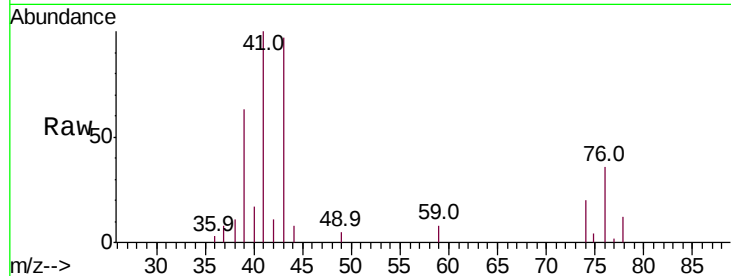
#17
Allvl chloride
Concen: 5.181 ug/l
RT: 4.32 min Scan# 792
Delta R.T. 0.00 min
Lab File: VN056684.D
Acq: 12 Jul 2019 12:29

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion:	41	Resp:	26909
Ion	Ratio	Lower	Upper
41	100		
39	62.6	32.8	98.4
76	35.7	18.5	55.5

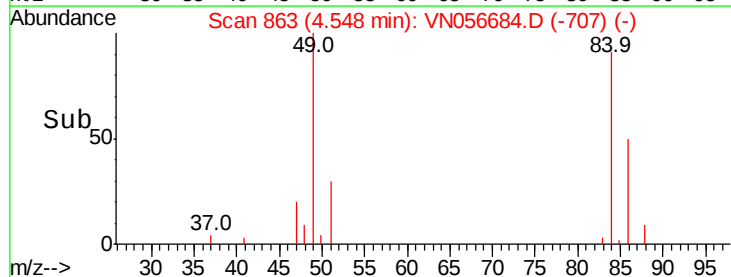
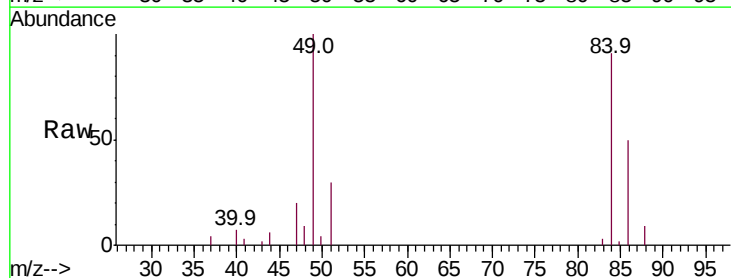
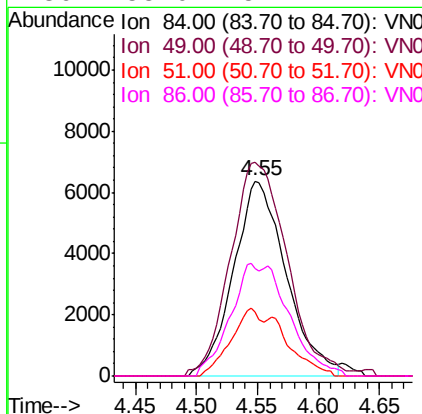
Manual Integrations
APPROVED

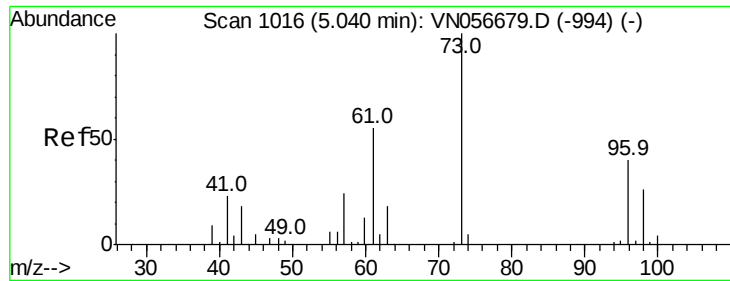
MMDadoda
7/16/2019 9:59:29 AM



#18
Methylene Chloride
Concen: 5.438 ug/l
RT: 4.55 min Scan# 863
Delta R.T. 0.00 min
Lab File: VN056684.D
Acq: 12 Jul 2019 12:29

Tgt Ion:	84	Resp:	19068
Ion	Ratio	Lower	Upper
84	100		
49	106.3	93.9	140.9
51	32.7	31.7	47.5
86	55.0	51.4	77.2





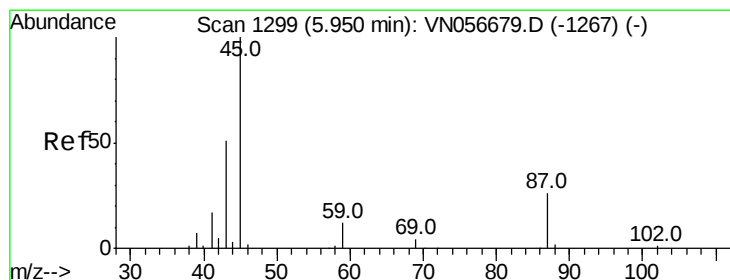
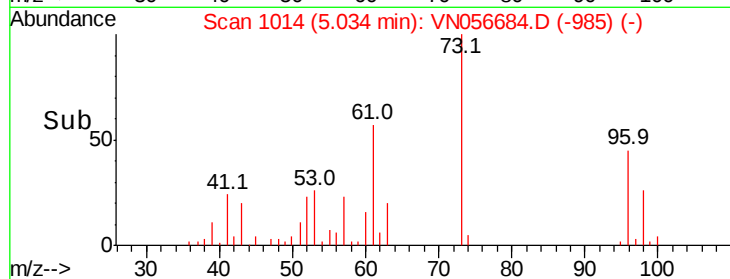
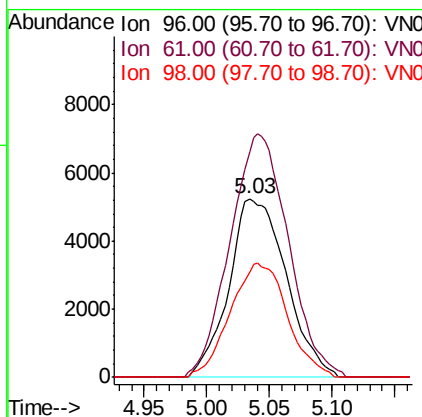
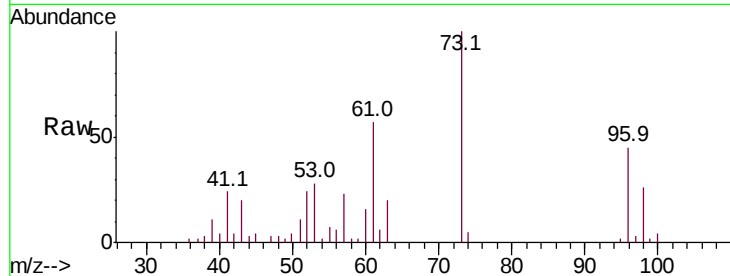
#19
trans-1,2-Dichloroethene
Concen: 5.185 ug/l
RT: 5.03 min Scan# 1014
Delta R.T. -0.01 min
Lab File: VN056684.D
Acq: 12 Jul 2019 12:29

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
96	100		
61	123.4	109.6	164.4
98	58.8	51.4	77.2

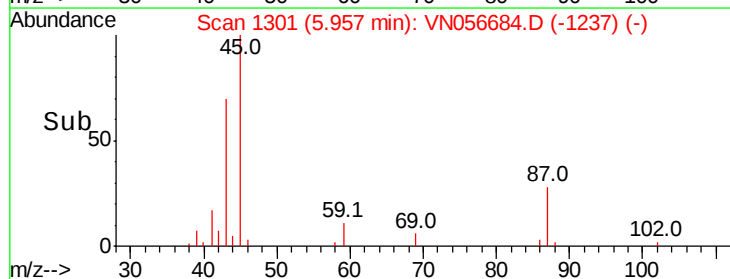
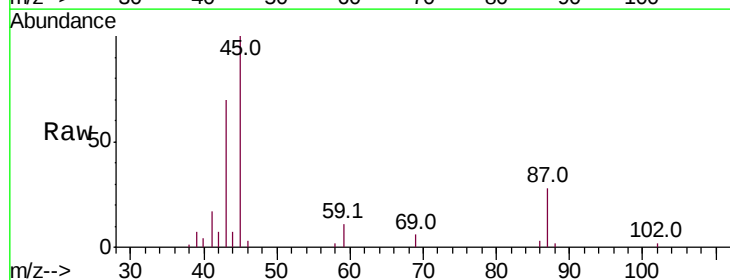
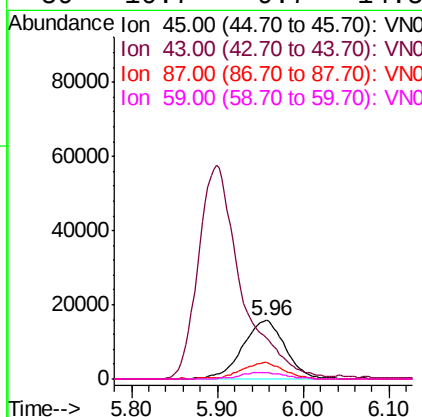
Manual Integrations
APPROVED

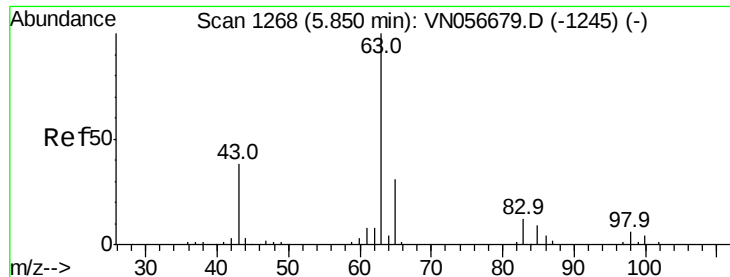
MMDadoda
7/16/2019 9:59:29 AM



#20
Diisopropyl ether
Concen: 5.117 ug/l
RT: 5.96 min Scan# 1301
Delta R.T. 0.01 min
Lab File: VN056684.D
Acq: 12 Jul 2019 12:29

Tgt Ion	Ratio	Lower	Upper
45	100		
43	64.2	50.3	75.5
87	28.5	21.4	32.0
59	10.7	9.7	14.5





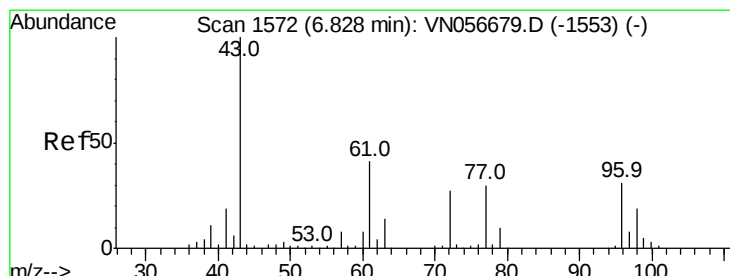
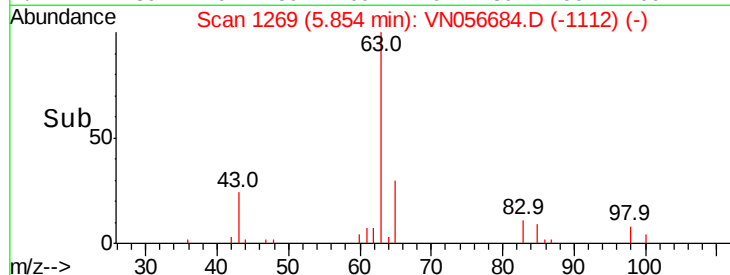
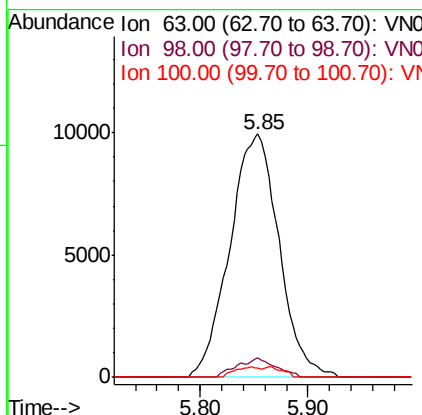
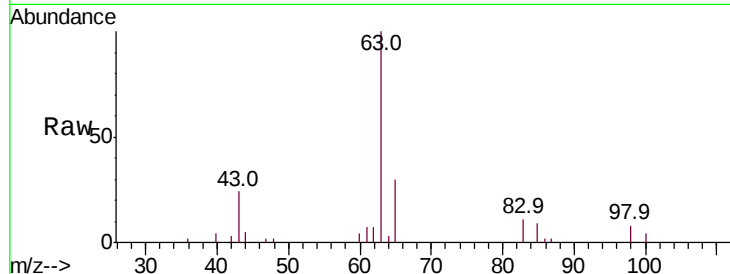
#21
 1,1-Dichloroethane
 Concen: 5.244 ug/l
 RT: 5.85 min Scan# 1269
 Delta R.T. 0.00 min
 Lab File: VN056684.D
 Acq: 12 Jul 2019 12:29

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Resp	Lower	Upper
63	100			
98	7.8	3.3	9.8	
100	3.7	2.1	6.3	

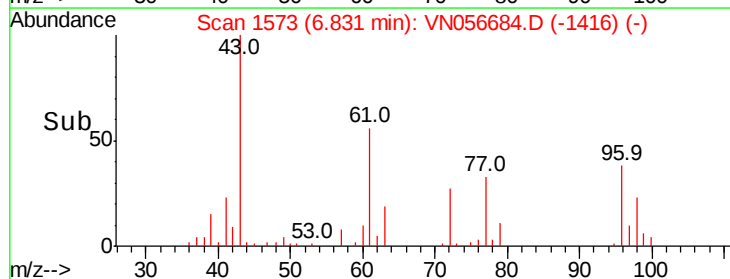
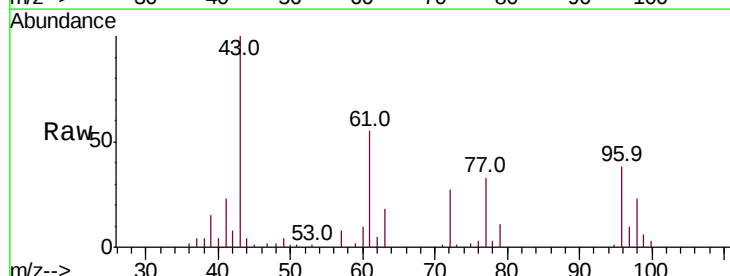
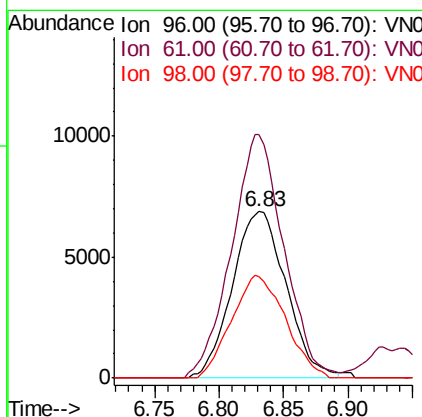
Manual Integrations
 APPROVED

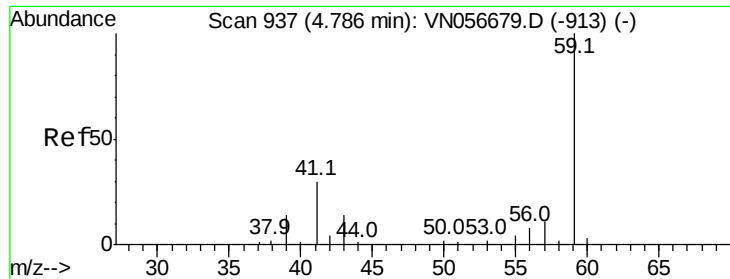
MMDadoda
 7/16/2019 9:59:29 AM



#22
 cis-1,2-Dichloroethene
 Concen: 5.295 ug/l
 RT: 6.83 min Scan# 1573
 Delta R.T. 0.00 min
 Lab File: VN056684.D
 Acq: 12 Jul 2019 12:29

Tgt Ion	Ratio	Resp	Lower	Upper
96	100			
61	142.1	112.1	168.1	
98	61.8	52.2	78.2	





#23

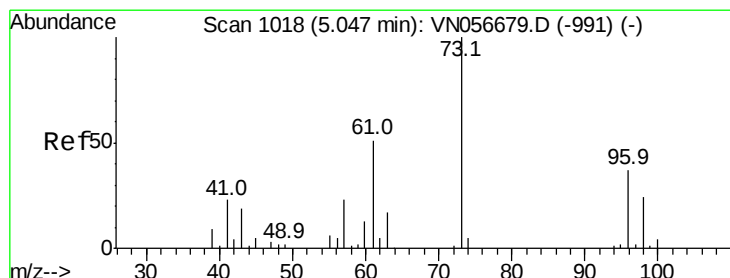
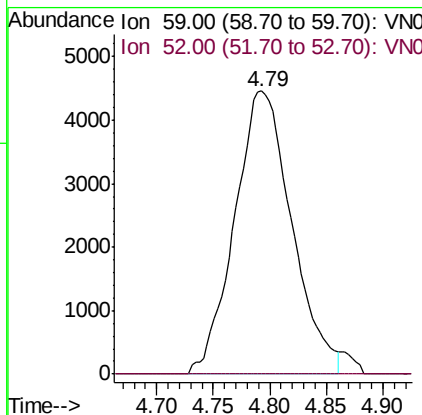
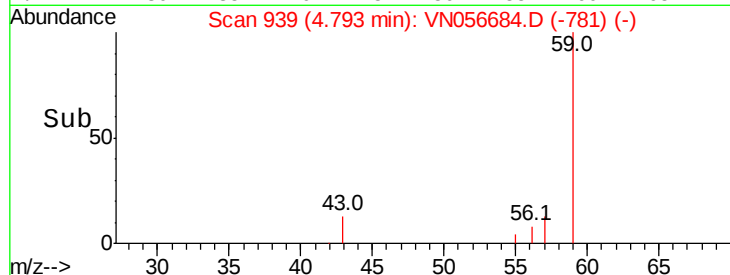
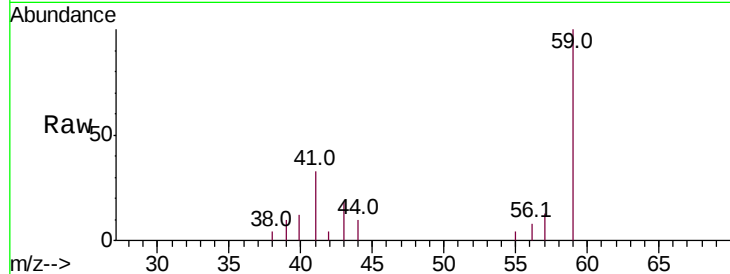
tert-Butyl Alcohol
 Concen: 23.915 ug/l
 RT: 4.79 min Scan# 939
 Delta R.T. 0.01 min
 Lab File: VN056684.D
 Acq: 12 Jul 2019 12:29

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tot Ion: 59 Resp: 15674
 Ion Ratio Lower Upper
 59 100
 52 0.0 0.1 0.1#

Manual Integrations
 APPROVED

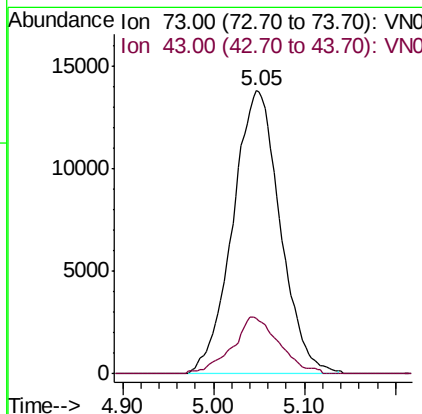
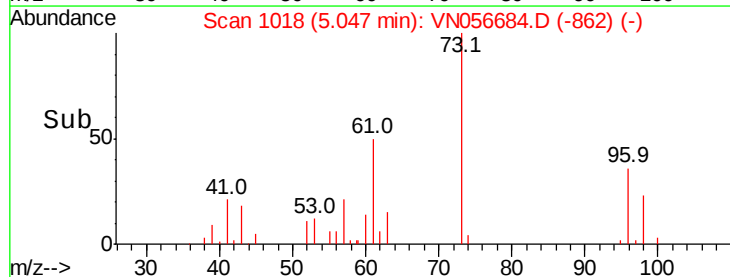
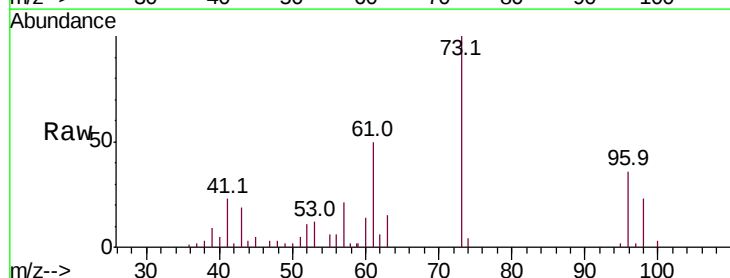
MMDadoda
 7/16/2019 9:59:29 AM

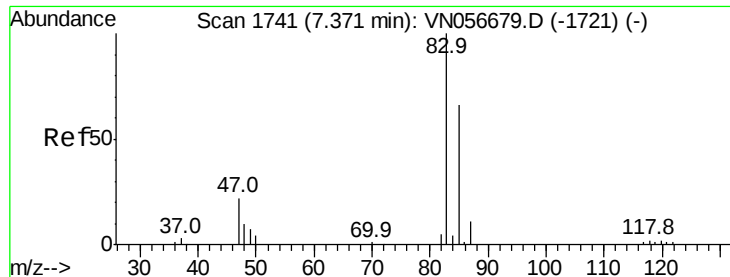


#24

Methyl tert-Butyl Ether
 Concen: 5.131 ug/l
 RT: 5.05 min Scan# 1018
 Delta R.T. 0.00 min
 Lab File: VN056684.D
 Acq: 12 Jul 2019 12:29

Tgt Ion: 73 Resp: 50006
 Ion Ratio Lower Upper
 73 100
 43 17.9 15.1 22.7





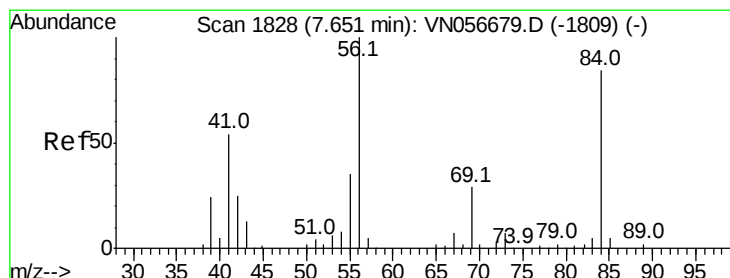
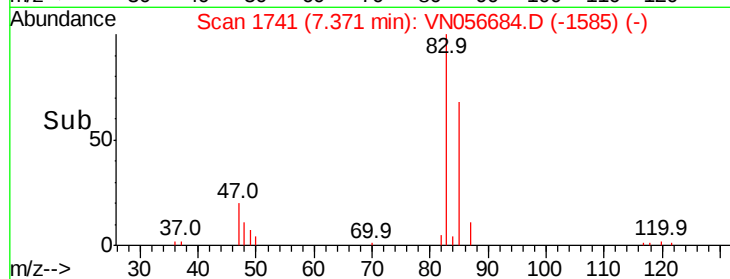
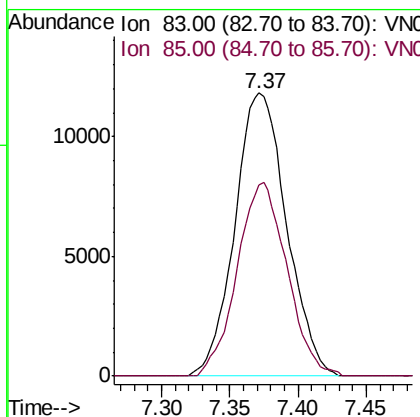
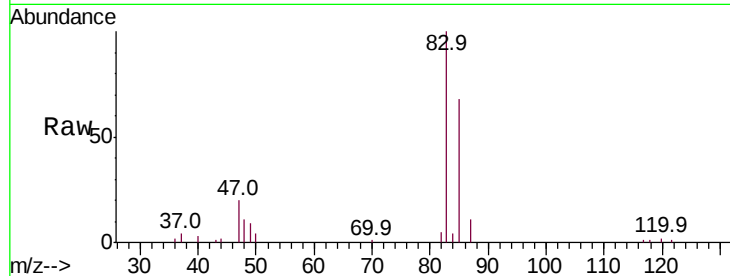
#25
Chloroform
Concen: 5.265 ug/l
RT: 7.37 min Scan# 1741
Delta R.T. 0.00 min
Lab File: VN056684.D
Acq: 12 Jul 2019 12:29

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	83	Resp	31112
Ion	Ratio	Lower	Upper
83	100		
85	67.7	52.6	79.0

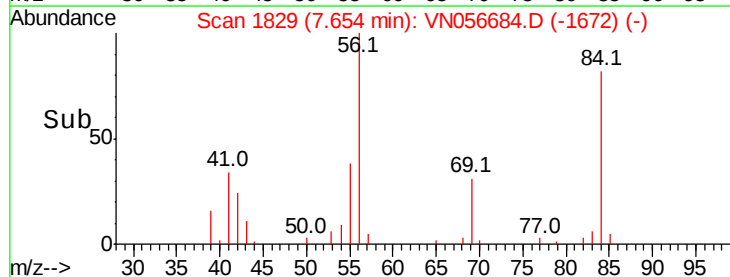
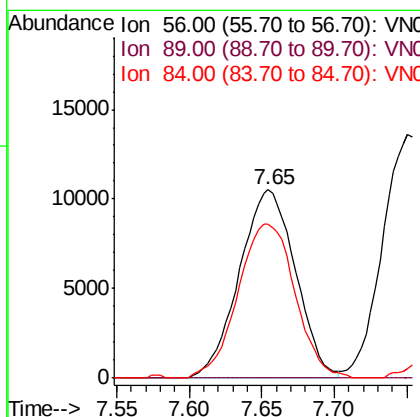
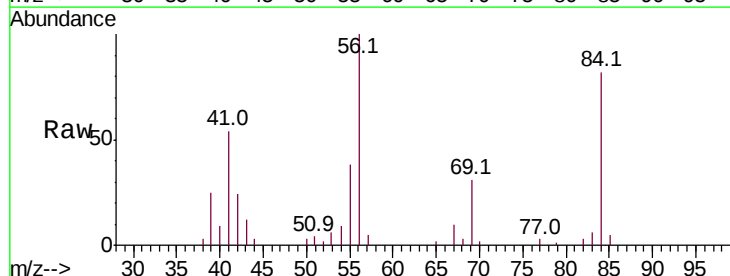
Manual Integrations
APPROVED

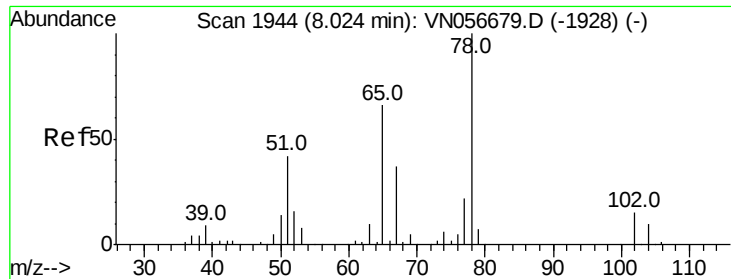
MMDadoda
7/16/2019 9:59:29 AM



#26
Cyclohexane
Concen: 5.068 ug/l
RT: 7.65 min Scan# 1829
Delta R.T. 0.00 min
Lab File: VN056684.D
Acq: 12 Jul 2019 12:29

Tgt Ion	56	Resp	28297
Ion	Ratio	Lower	Upper
56	100		
89	0.0	1.4	2.2#
84	83.3	68.2	102.4





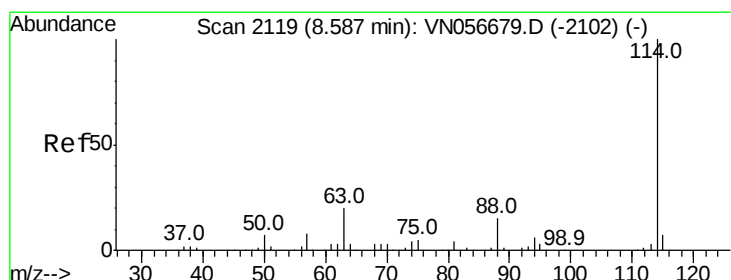
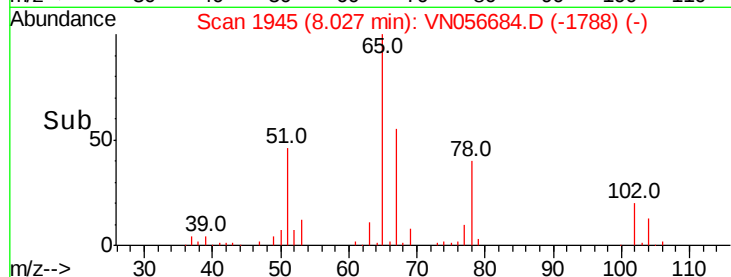
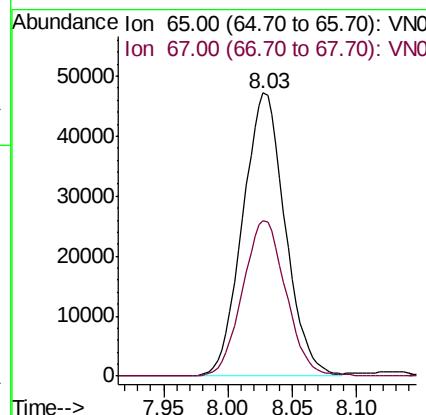
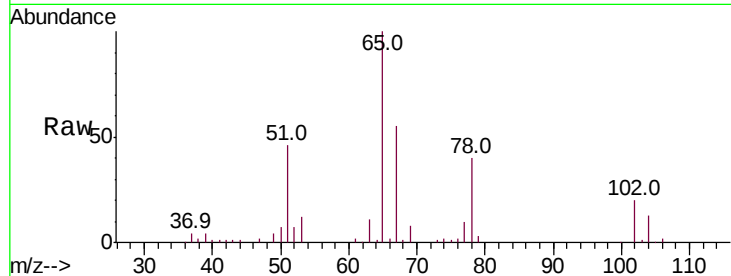
#27
 1,2-Dichloroethane-d4
 Concen: 29.722 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN056684.D
 Acq: 12 Jul 2019 12:29

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tot Ion: 65 Resp: 108296
 Ion Ratio Lower Upper
 65 100
 67 55.7 43.4 65.0

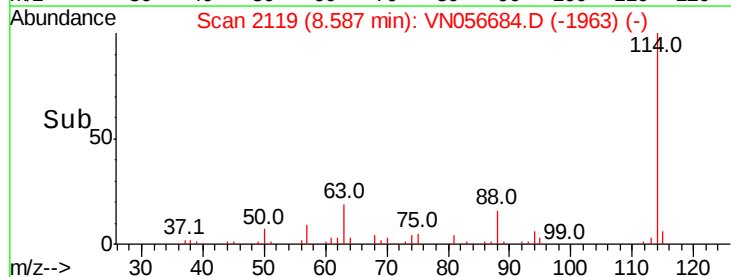
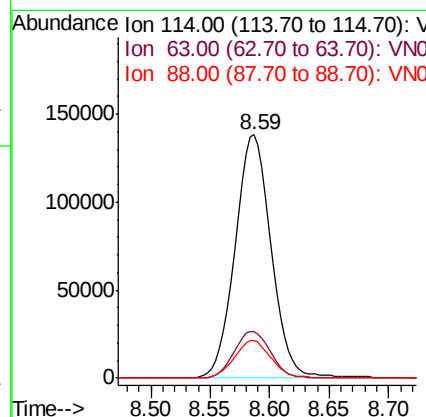
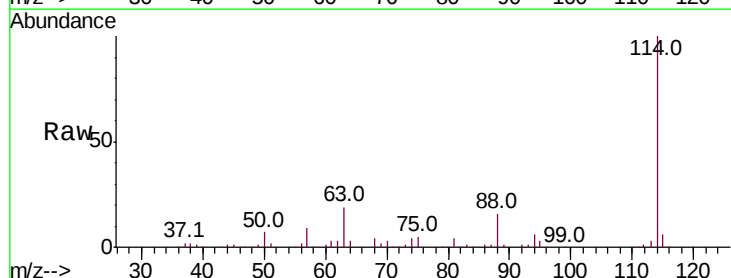
Manual Integrations
 APPROVED

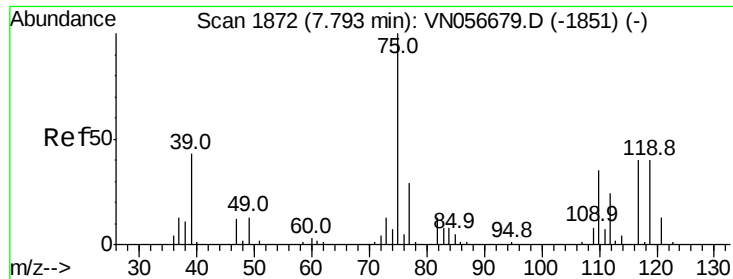
MMDadoda
 7/16/2019 9:59:29 AM



#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN056684.D
 Acq: 12 Jul 2019 12:29

Tgt Ion: 114 Resp: 290266
 Ion Ratio Lower Upper
 114 100
 63 19.5 16.2 24.2
 88 15.8 12.3 18.5





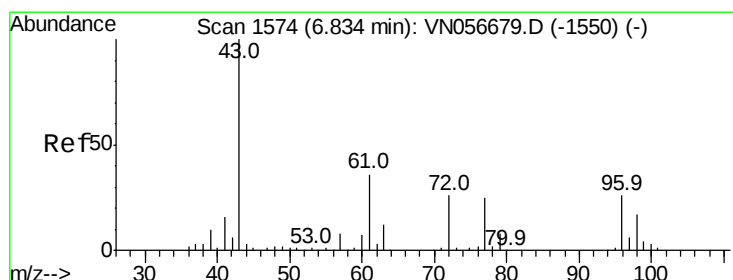
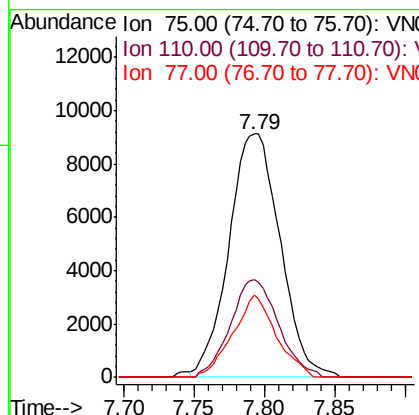
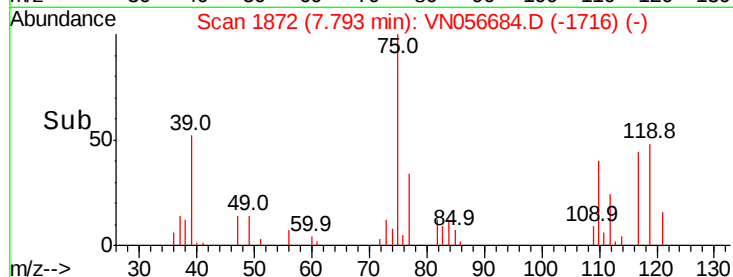
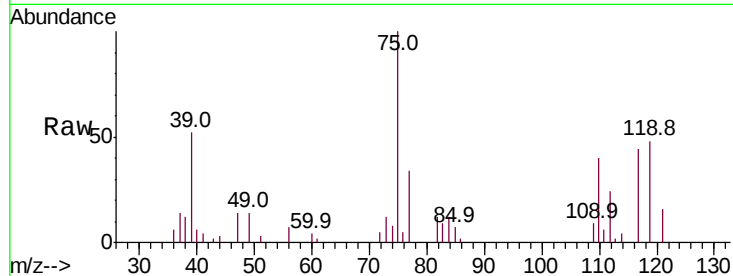
#29
 1,1-Dichloropropene
 Concen: 5.261 ug/l
 RT: 7.79 min Scan# 1872
 Delta R.T. 0.00 min
 Lab File: VN056684.D
 Acq: 12 Jul 2019 12:29

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
75	100		
110	37.6	0.0	72.4
77	28.5	0.0	62.2

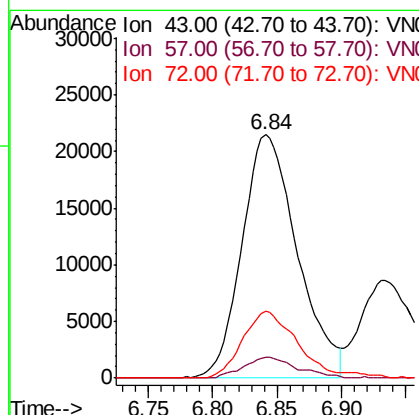
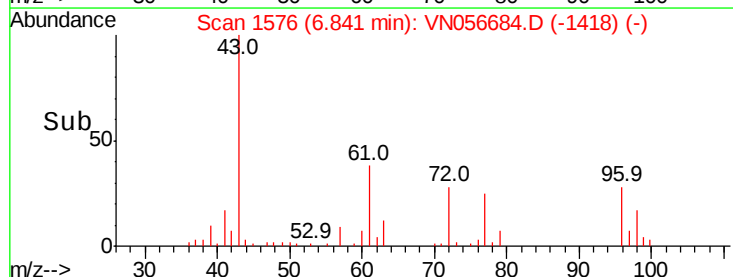
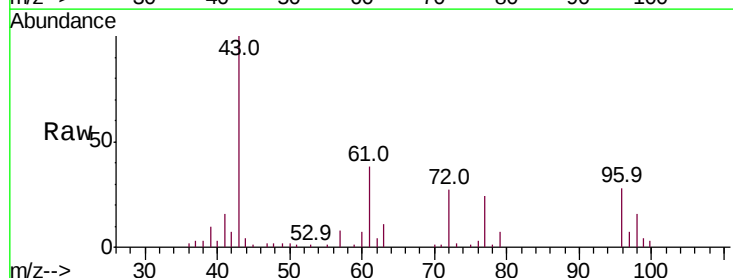
Manual Integrations
 APPROVED

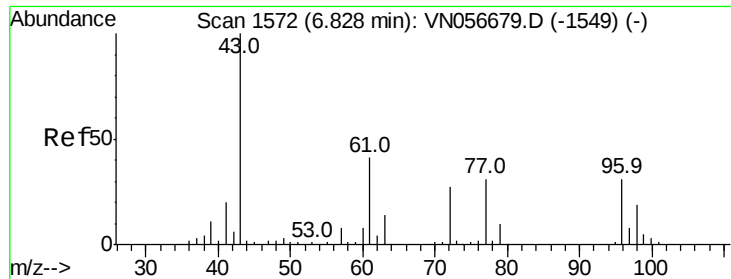
MMDadoda
 7/16/2019 9:59:29 AM



#30
 2-Butanone
 Concen: 25.874 ug/l
 RT: 6.84 min Scan# 1576
 Delta R.T. 0.01 min
 Lab File: VN056684.D
 Acq: 12 Jul 2019 12:29

Tgt Ion	Ratio	Lower	Upper
43	100		
57	7.1	6.6	10.0
72	26.5	21.3	31.9





#31

2,2-Dichloropropane

Concen: 5.052 ug/l

RT: 6.82 min Scan# 1569

Delta R.T. -0.01 min

Lab File: VN056684.D

Acq: 12 Jul 2019 12:29

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion: 77 Resp: 21432

Ion Ratio Lower Upper

77 100

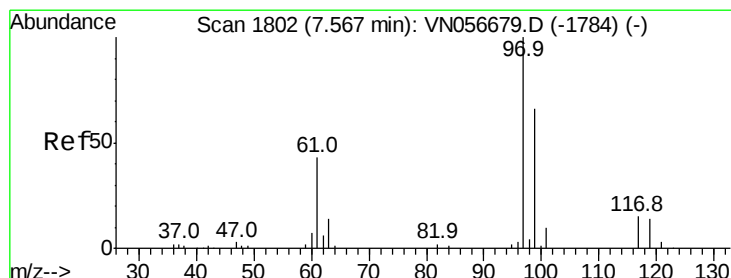
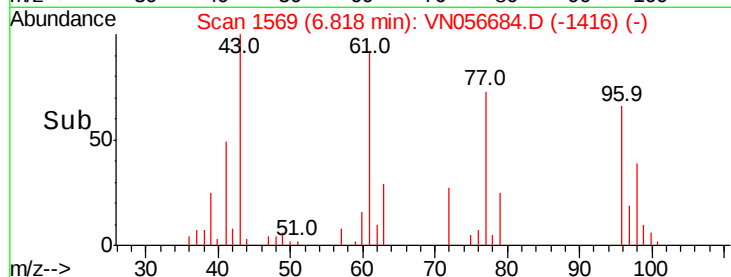
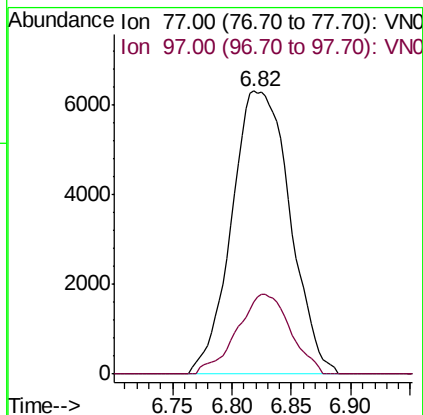
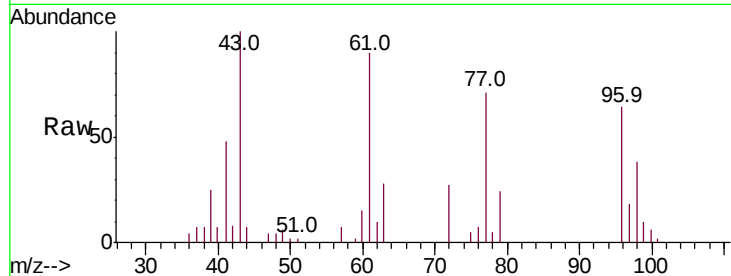
97 25.9 19.7 29.5

Manual Integrations

APPROVED

MMDadoda

7/16/2019 9:59:29 AM



#32

1,1,1-Trichloroethane

Concen: 5.141 ug/l

RT: 7.57 min Scan# 1803

Delta R.T. 0.00 min

Lab File: VN056684.D

Acq: 12 Jul 2019 12:29

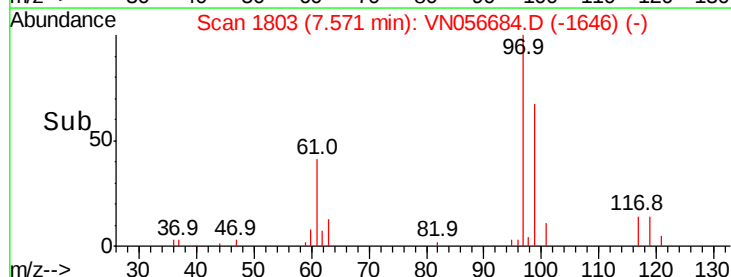
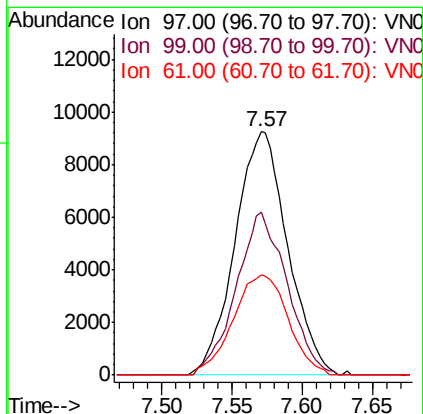
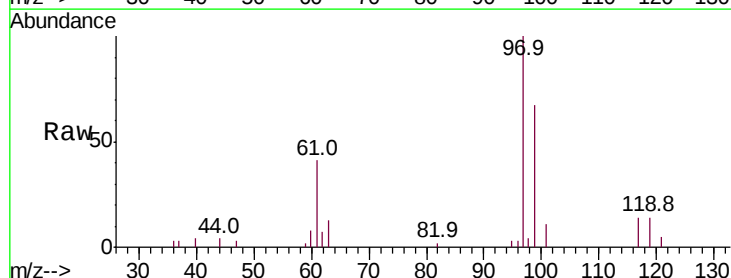
Tgt Ion: 97 Resp: 24088

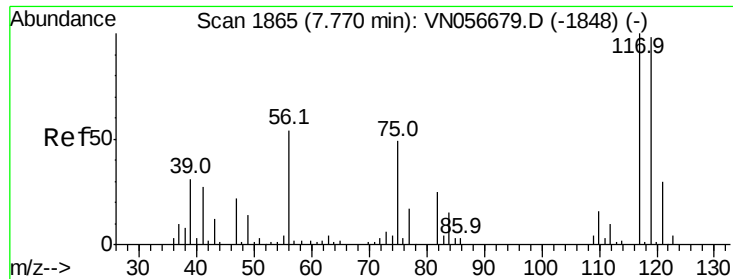
Ion Ratio Lower Upper

97 100

99 64.6 52.0 78.0

61 43.1 34.4 51.6





#33

Carbon Tetrachloride

Concen: 4.990 ug/l

RT: 7.77 min Scan# 1866

Delta R.T. 0.00 min

Lab File: VN056684.D

Acq: 12 Jul 2019 12:29

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion:117 Resp: 19962

Ion Ratio Lower Upper

117 100

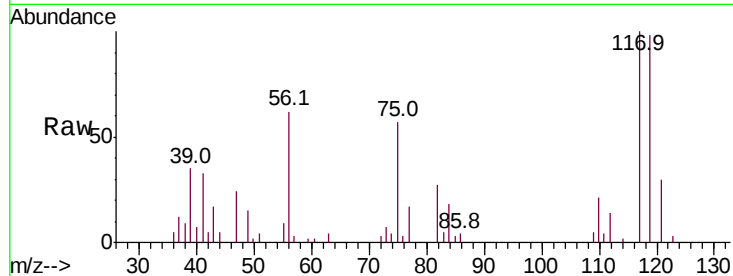
119 97.6 78.7 118.1

121 30.0 24.0 36.0

Manual Integrations
APPROVED

MMDadoda

7/16/2019 9:59:29 AM

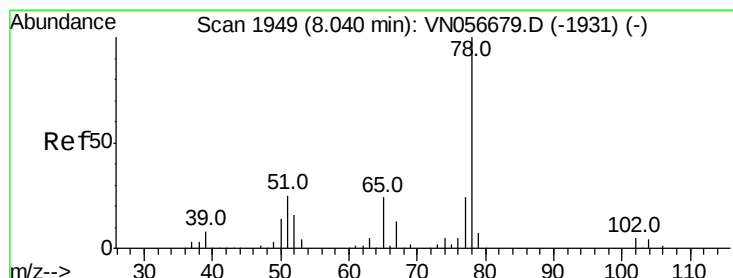
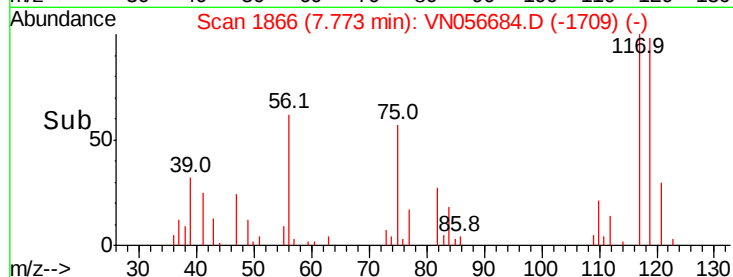
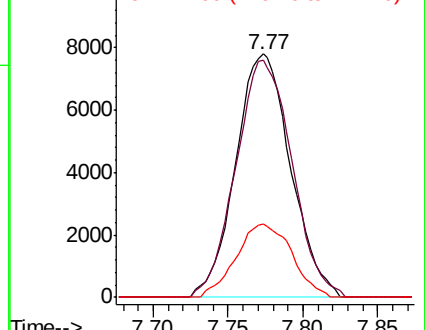


Abundance

Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#34

Benzene

Concen: 5.223 ug/l

RT: 8.04 min Scan# 1949

Delta R.T. 0.00 min

Lab File: VN056684.D

Acq: 12 Jul 2019 12:29

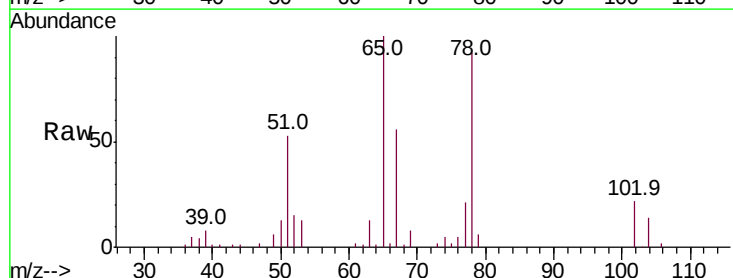
Tgt Ion: 78 Resp: 71719

Ion Ratio Lower Upper

78 100

77 23.1 19.0 28.4

51 56.3 19.7 29.5#

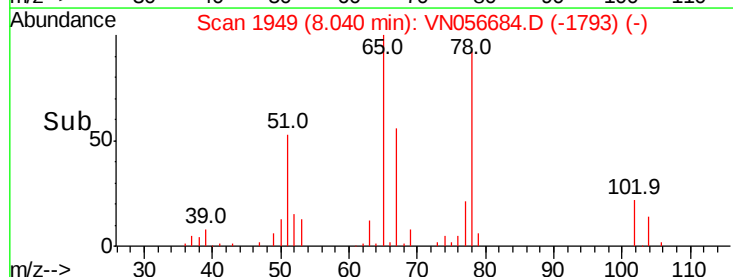
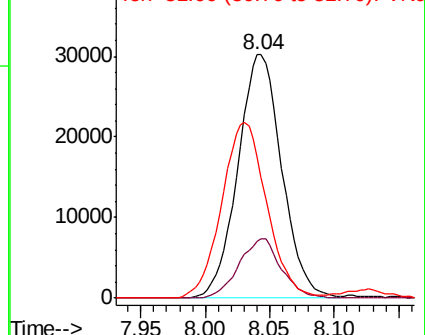


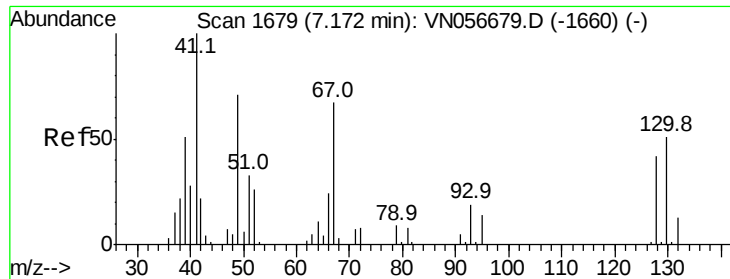
Abundance

Ion 78.10 (77.80 to 78.80): VNO

Ion 77.00 (76.70 to 77.70): VNO

Ion 51.00 (50.70 to 51.70): VNO





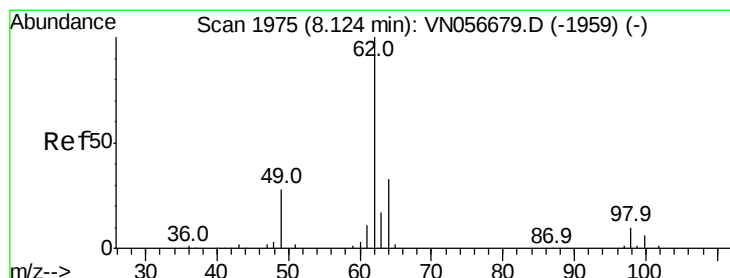
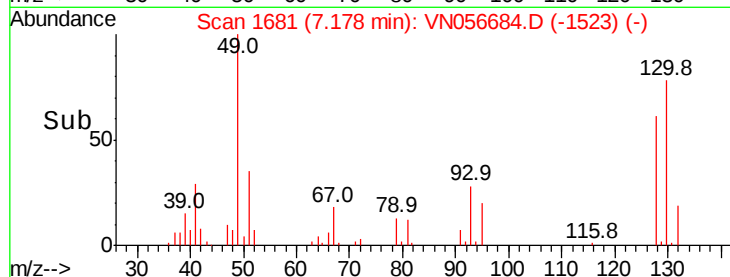
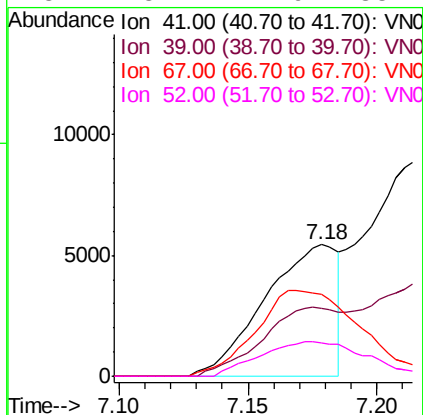
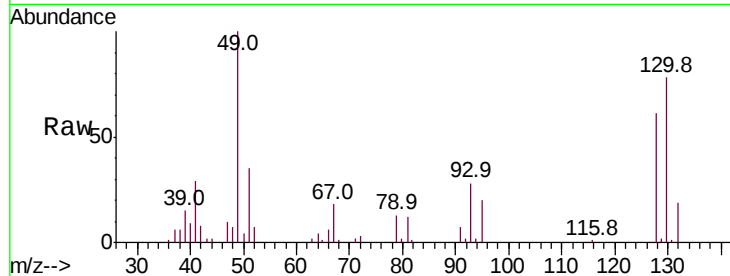
#35
Methacrylonitrile
Concen: 5.242 ug/l
RT: 7.18 min Scan# 1681
Delta R.T. 0.01 min
Lab File: VN056684.D
Acq: 12 Jul 2019 12:29

Instrument :
MSVOA_N
ClientSampled :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
41	100		
39	52.0	25.4	76.2
67	62.1	33.6	100.8
52	25.1	12.9	38.7

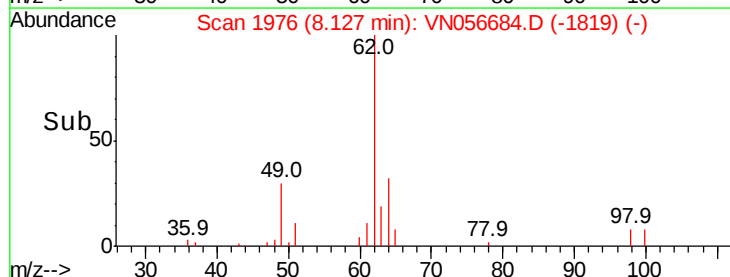
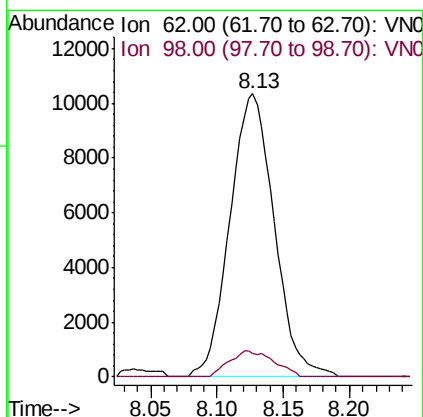
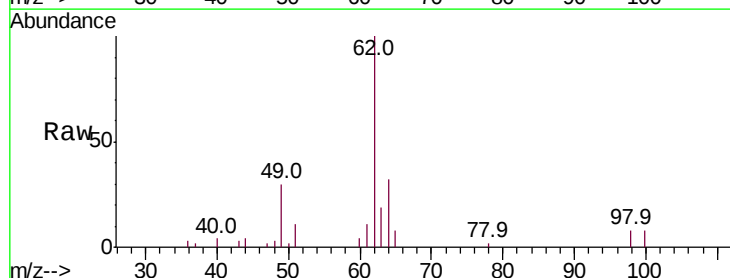
Manual Integrations
APPROVED

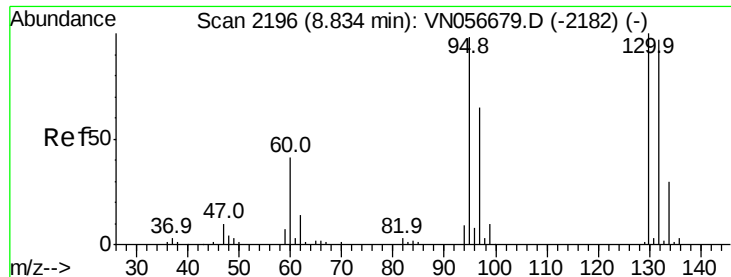
MMDadoda
7/16/2019 9:59:29 AM



#36
1,2-Dichloroethane
Concen: 5.402 ug/l
RT: 8.13 min Scan# 1976
Delta R.T. 0.00 min
Lab File: VN056684.D
Acq: 12 Jul 2019 12:29

Tgt Ion	Ratio	Lower	Upper
62	100		
98	9.3	7.7	11.5





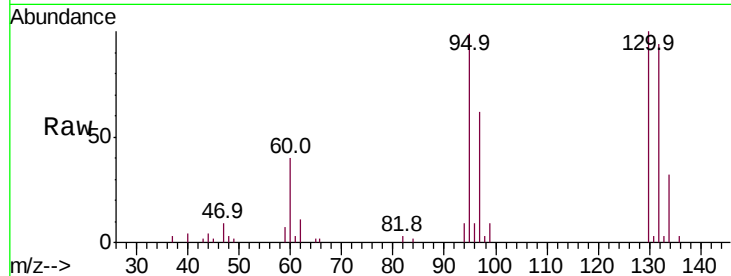
#37
 Trichloroethene
 Concen: 5.490 ug/l
 RT: 8.84 min Scan# 2197
 Delta R.T. 0.00 min
 Lab File: VN056684.D
 Acq: 12 Jul 2019 12:29

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

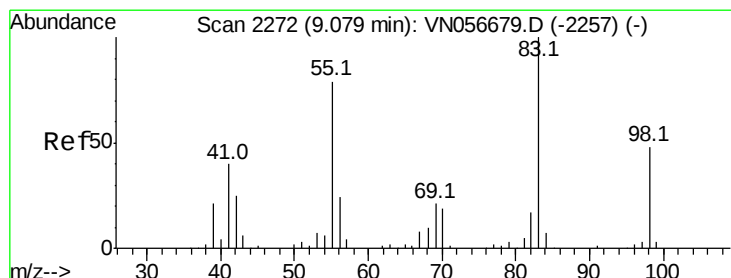
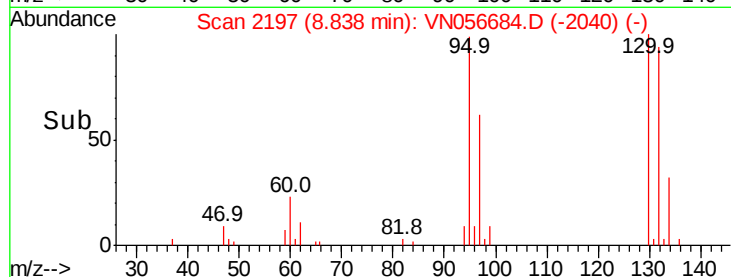
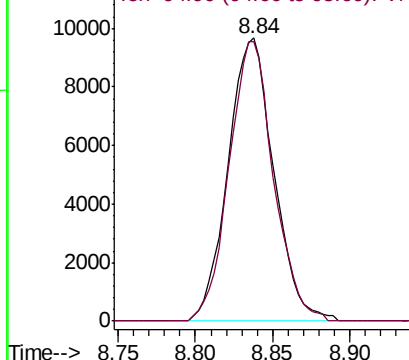
Tot Ion:130 Resp: 19860
 Ion Ratio Lower Upper
 130 100
 95 98.9 78.4 117.6

Manual Integrations
 APPROVED

MMDadoda
 7/16/2019 9:59:29 AM

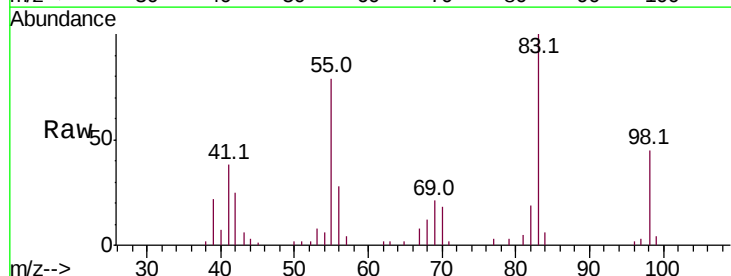


Abundance Ion 129.90 (129.60 to 130.60): V
 Ion 94.90 (94.60 to 95.60): VN

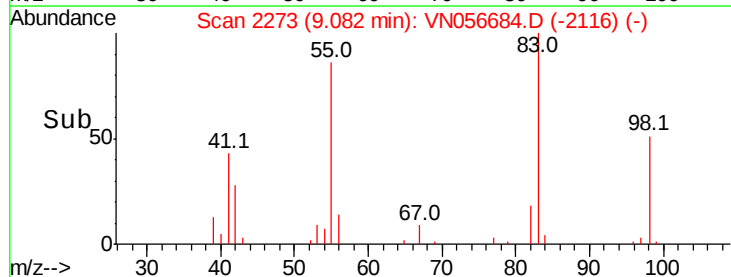
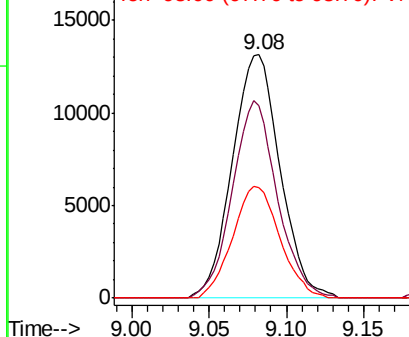


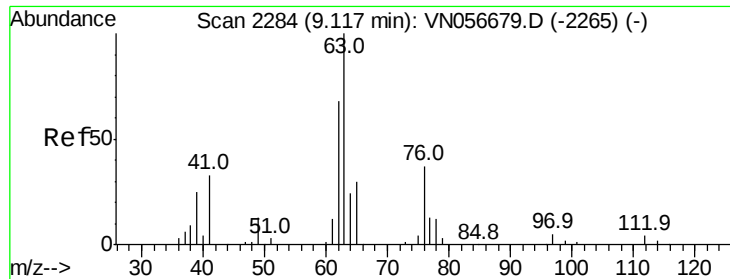
#38
 Methylcyclohexane
 Concen: 5.098 ug/l
 RT: 9.08 min Scan# 2273
 Delta R.T. 0.00 min
 Lab File: VN056684.D
 Acq: 12 Jul 2019 12:29

Tgt Ion: 83 Resp: 28238
 Ion Ratio Lower Upper
 83 100
 55 76.5 38.4 115.2
 98 45.6 23.3 69.9



Abundance Ion 83.00 (82.70 to 83.70): VNO
 Ion 55.00 (54.70 to 55.70): VNO
 Ion 98.00 (97.70 to 98.70): VNO





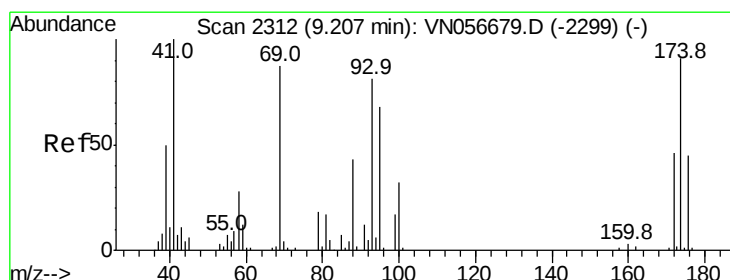
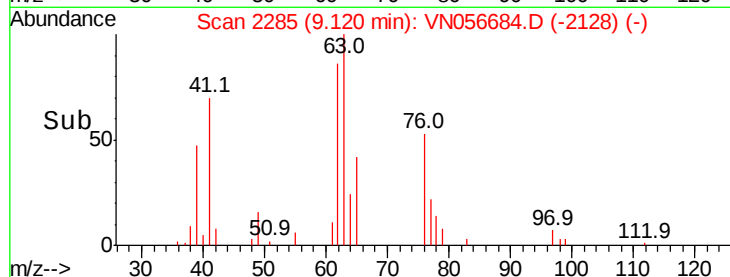
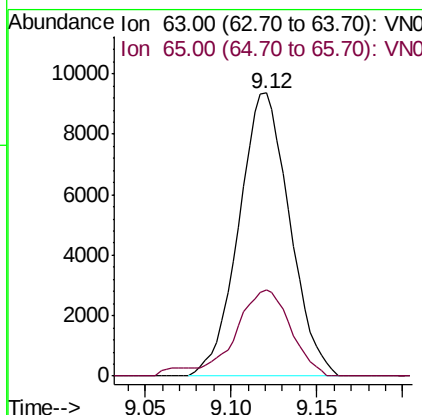
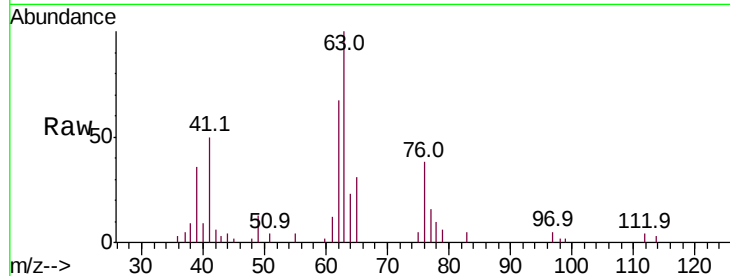
#39
 1,2-Dichloropropane
 Concen: 5.228 ug/l
 RT: 9.12 min Scan# 2285
 Delta R.T. 0.00 min
 Lab File: VN056684.D
 Acq: 12 Jul 2019 12:29

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tot Ion: 63 Resp: 19271
 Ion Ratio Lower Upper
 63 100
 65 30.6 24.6 36.8

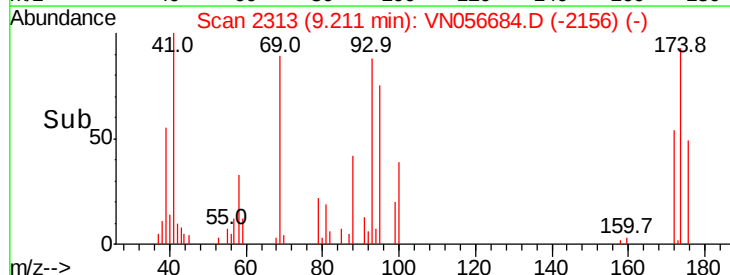
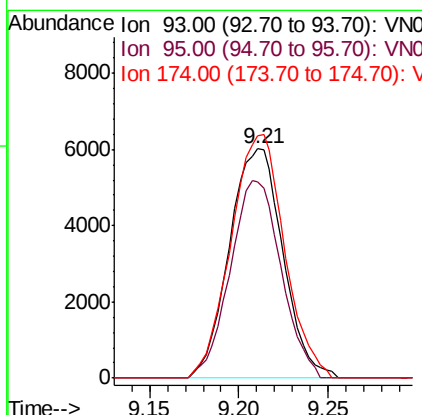
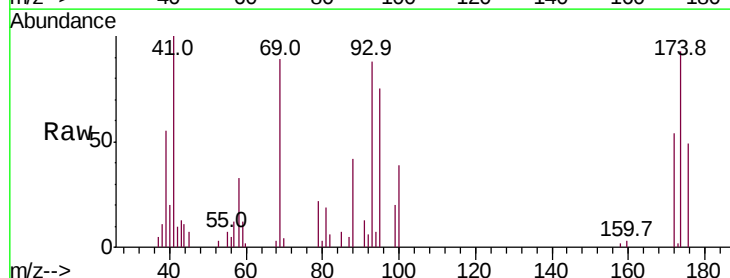
Manual Integrations
 APPROVED

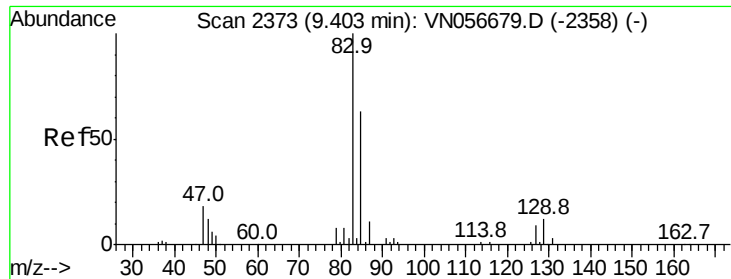
MMDadoda
 7/16/2019 9:59:29 AM



#40
 Dibromomethane
 Concen: 5.503 ug/l
 RT: 9.21 min Scan# 2313
 Delta R.T. 0.00 min
 Lab File: VN056684.D
 Acq: 12 Jul 2019 12:29

Tgt Ion: 93 Resp: 12605
 Ion Ratio Lower Upper
 93 100
 95 82.0 0.0 167.0
 174 106.4 0.0 224.2





#41

Bromodichloromethane

Concen: 4.947 ug/l

RT: 9.40 min Scan# 2372

Delta R.T. -0.00 min

Lab File: VN056684.D

Acq: 12 Jul 2019 12:29

Instrument :

MSVOA_N

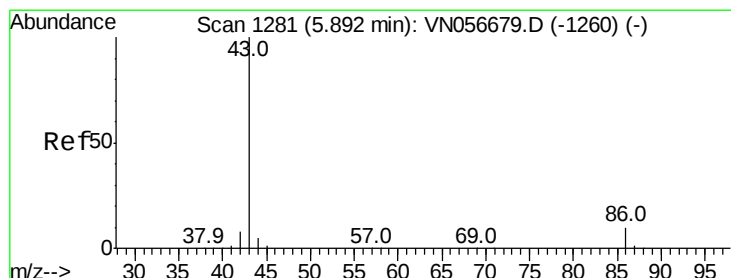
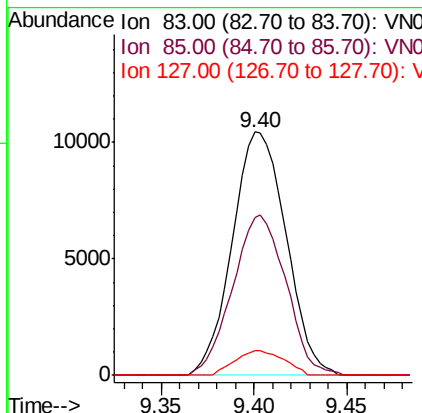
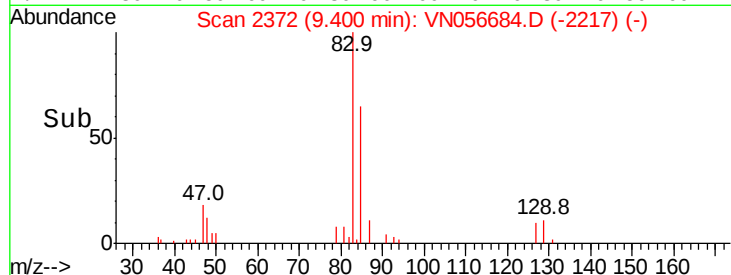
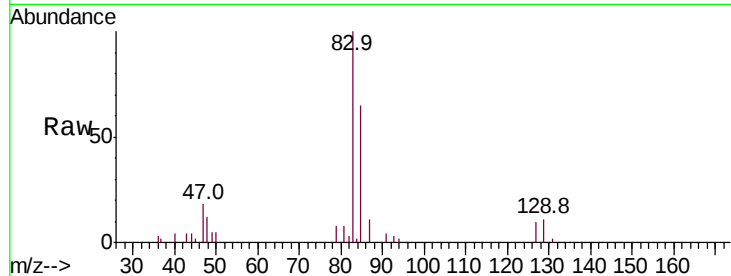
ClientSampleId :

VSTDIC005

Tot Ion:	83	Resp:	21071
Ion Ratio	Lower	Upper	
83	100		
85	65.0	50.1	75.1
127	10.3	7.0	10.4

Manual Integrations
APPROVED

MMDadoda
7/16/2019 9:59:29 AM



#42

Vinyl Acetate

Concen: 23.209 ug/l

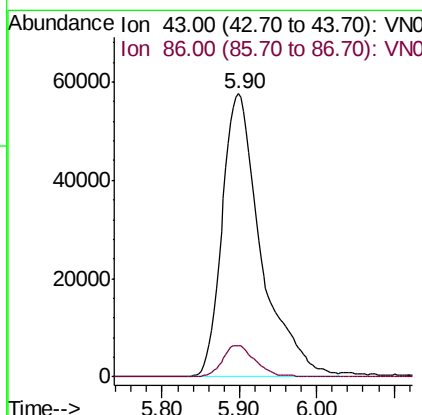
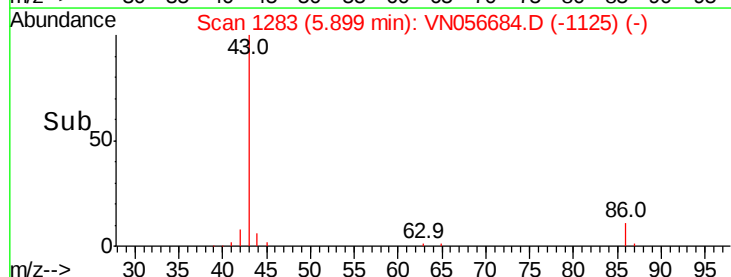
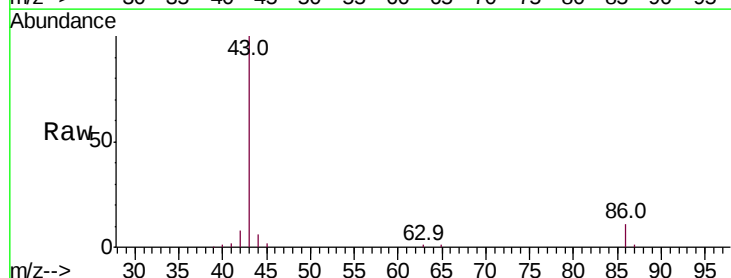
RT: 5.90 min Scan# 1283

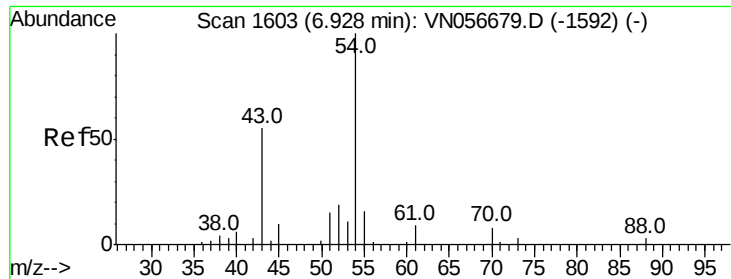
Delta R.T. 0.01 min

Lab File: VN056684.D

Acq: 12 Jul 2019 12:29

Tgt Ion:	43	Resp:	200914
Ion Ratio	Lower	Upper	
43	100		
86	9.4	7.4	11.2





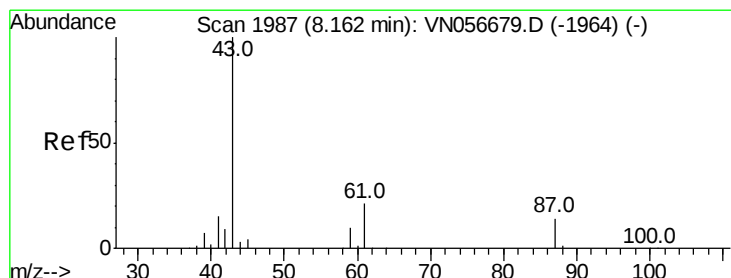
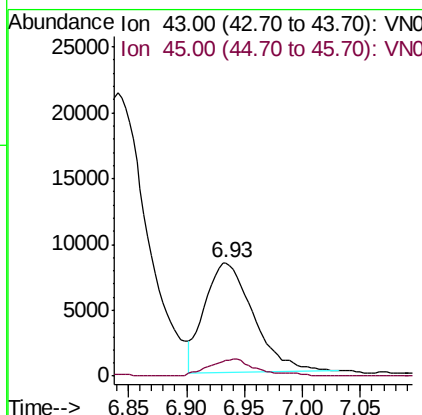
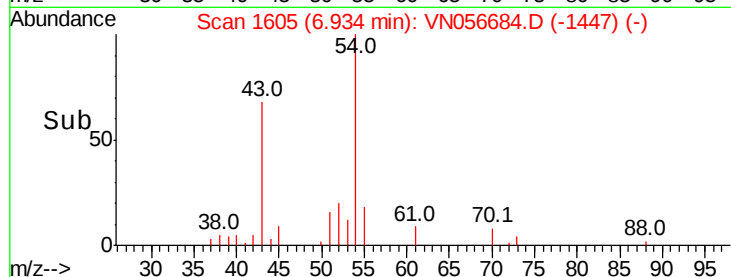
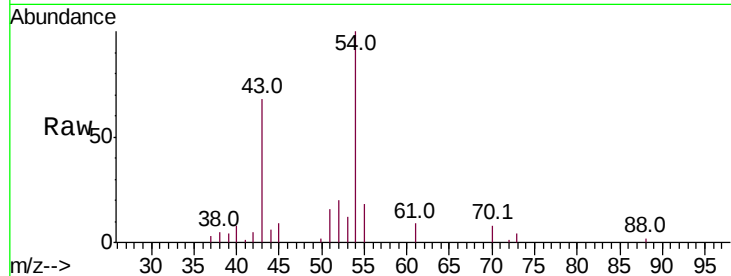
#43
Ethyl Acetate
Concen: 5.238 ug/l
RT: 6.93 min Scan# 1605
Delta R.T. 0.01 min
Lab File: VN056684.D
Acq: 12 Jul 2019 12:29

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion: 43 Resp: 24579
Ion Ratio Lower Upper
43 100
45 14.4 11.2 16.8

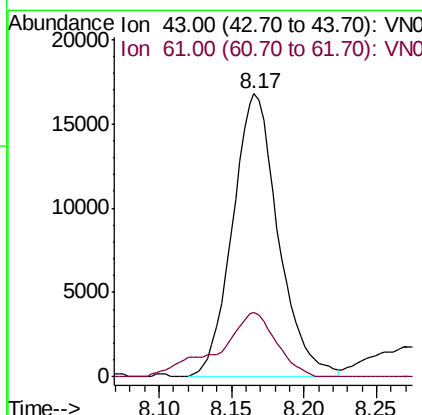
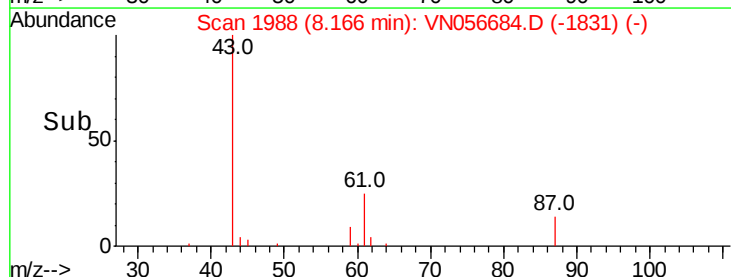
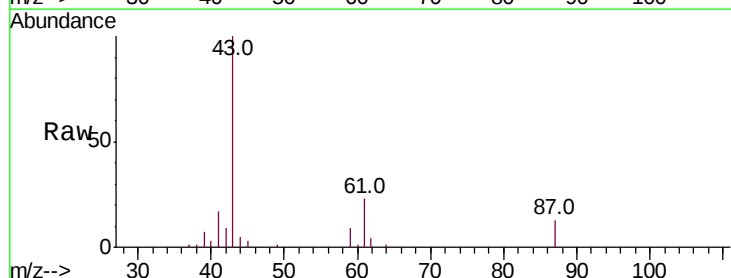
Manual Integrations
APPROVED

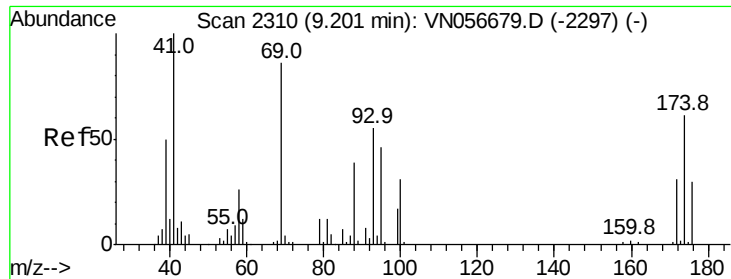
MMDadoda
7/16/2019 9:59:29 AM



#44
Isopropyl Acetate
Concen: 5.045 ug/l
RT: 8.17 min Scan# 1988
Delta R.T. 0.00 min
Lab File: VN056684.D
Acq: 12 Jul 2019 12:29

Tgt Ion: 43 Resp: 36812
Ion Ratio Lower Upper
43 100
61 21.8 22.6 33.8#





#45

1,4-Dioxane

Concen: 99.596 ug/l

RT: 9.20 min Scan# 2311

Delta R.T. 0.00 min

Lab File: VN056684.D

Acq: 12 Jul 2019 12:29

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion: 88 Resp: 7219

Ion Ratio Lower Upper

88 100

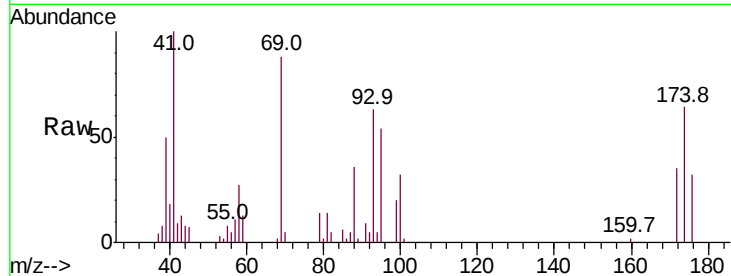
43 33.4 23.0 34.6

58 77.6 54.6 81.8

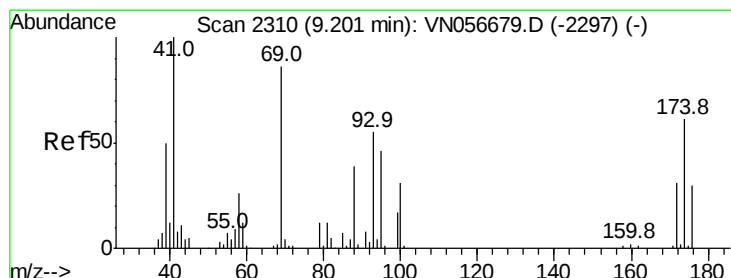
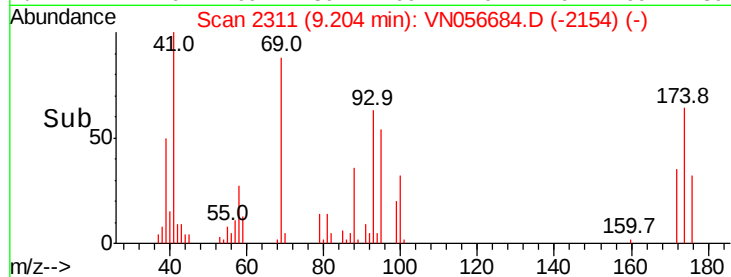
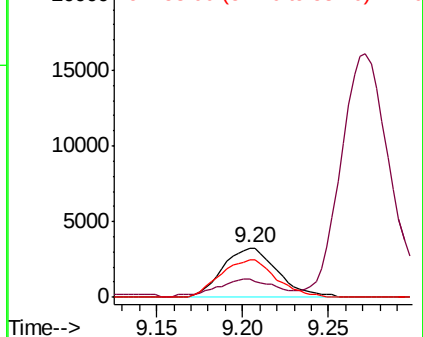
Manual Integrations
APPROVED

MMDadoda

7/16/2019 9:59:29 AM



Abundance Ion 88.00 (87.70 to 88.70): VN0
Ion 43.00 (42.70 to 43.70): VN0
Ion 58.00 (57.70 to 58.70): VN0



#46

Methyl methacrylate

Concen: 4.641 ug/l

RT: 9.20 min Scan# 2310

Delta R.T. 0.00 min

Lab File: VN056684.D

Acq: 12 Jul 2019 12:29

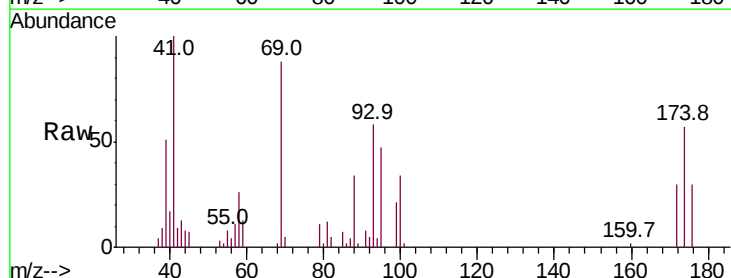
Tgt Ion: 41 Resp: 16667

Ion Ratio Lower Upper

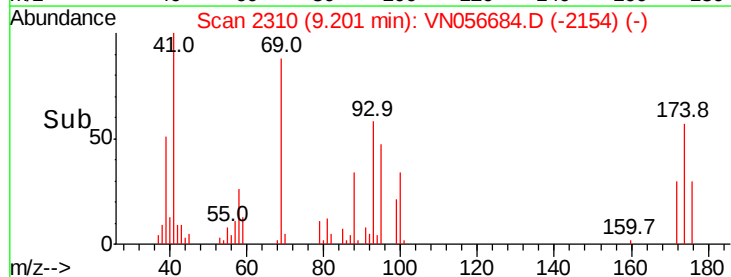
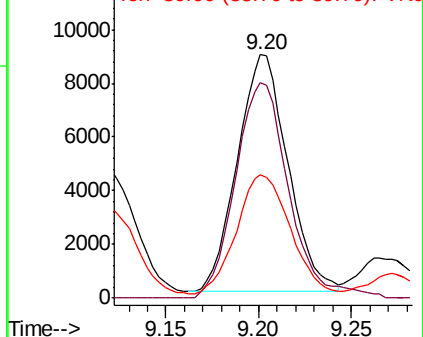
41 100

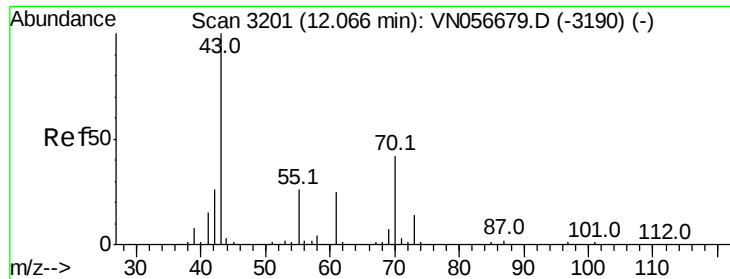
69 90.8 43.0 129.0

39 50.3 25.1 75.4



Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0





#47

n-amvl Acetate

Concen: 4.355 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. 0.00 min

Lab File: VN056684.D

Acq: 12 Jul 2019 12:29

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion: 43 Resp: 26333

Ion Ratio Lower Upper

43 100

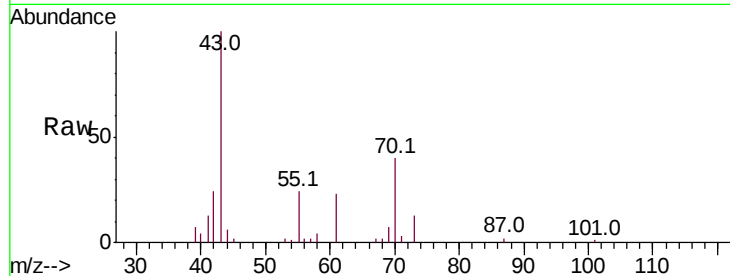
55 25.0 20.7 31.1

Manual Integrations

APPROVED

MMDadoda

7/16/2019 9:59:29 AM



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

12.07

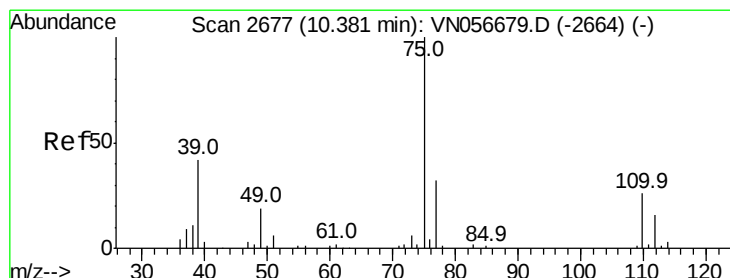
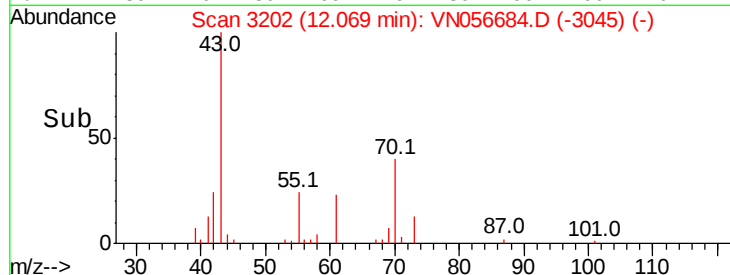
15000

10000

5000

0

Time--> 12.00 12.05 12.10



#48

t-1,3-Dichloropropene

Concen: 4.932 ug/l

RT: 10.38 min Scan# 2677

Delta R.T. 0.00 min

Lab File: VN056684.D

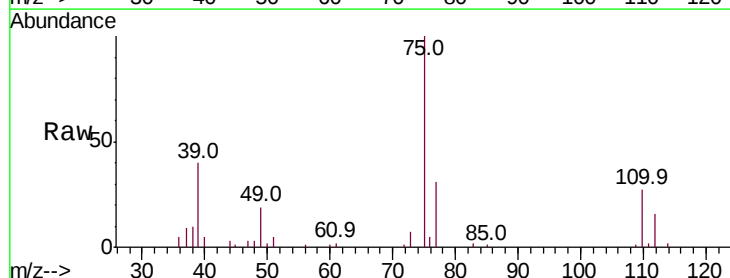
Acq: 12 Jul 2019 12:29

Tgt Ion: 75 Resp: 22562

Ion Ratio Lower Upper

75 100

77 29.8 25.7 38.5



Abundance Ion 75.00 (74.70 to 75.70): VN0

Ion 77.00 (76.70 to 77.70): VN0

10.38

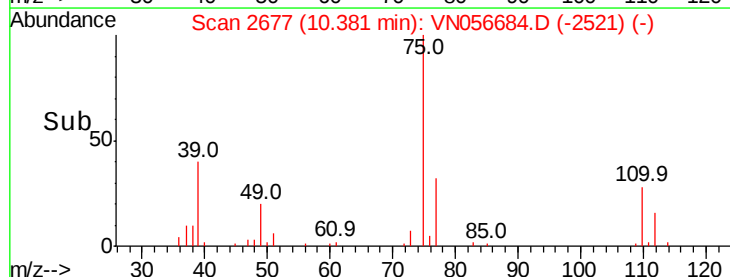
15000

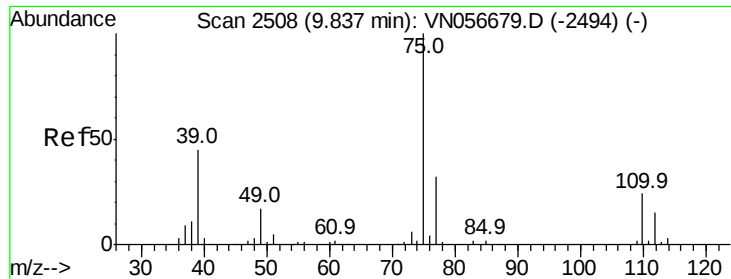
10000

5000

0

Time--> 10.35 10.40 10.45





#49

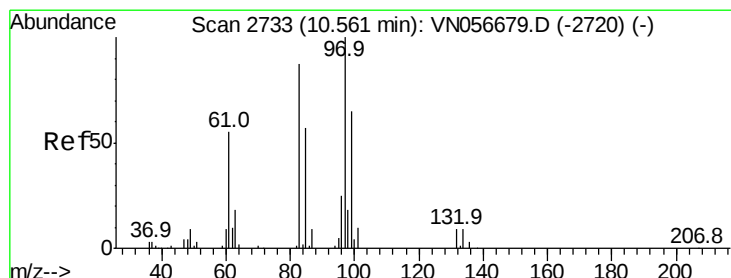
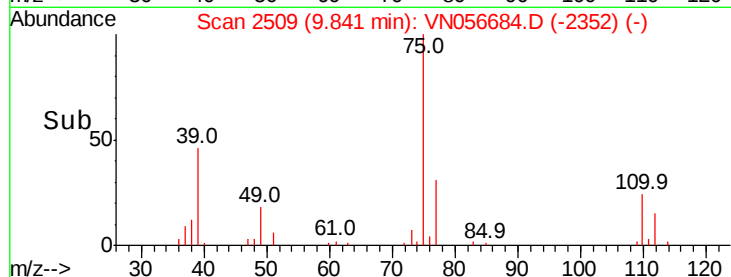
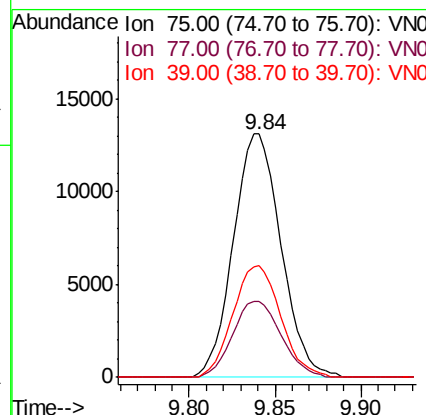
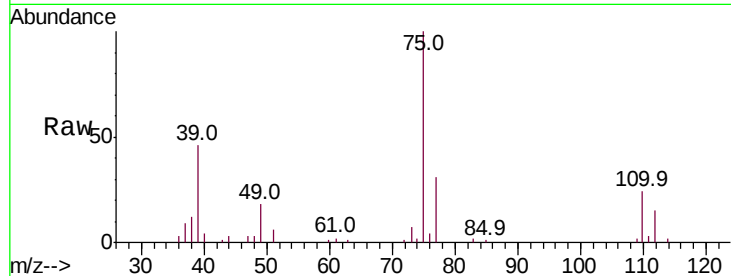
cis-1,3-Dichloropropene
 Concen: 4.794 ug/l
 RT: 9.84 min Scan# 2509
 Delta R.T. 0.00 min
 Lab File: VN056684.D
 Acq: 12 Jul 2019 12:29

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
75	100		
77	31.3	26.0	39.0
39	46.0	36.2	54.4

Manual Integrations
 APPROVED

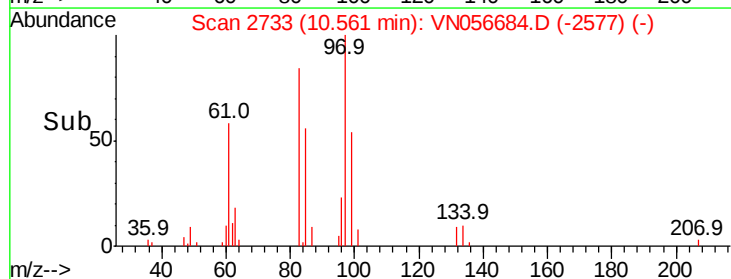
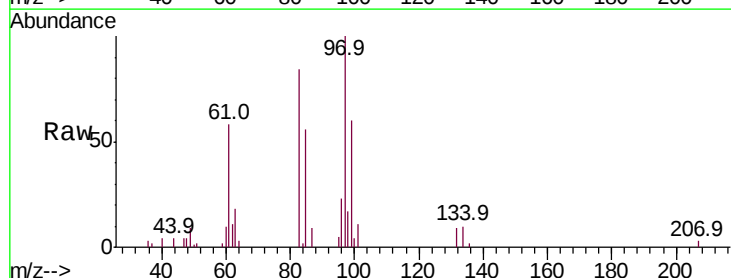
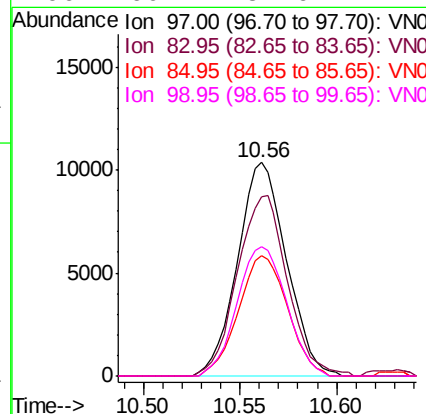
MMDadoda
 7/16/2019 9:59:29 AM

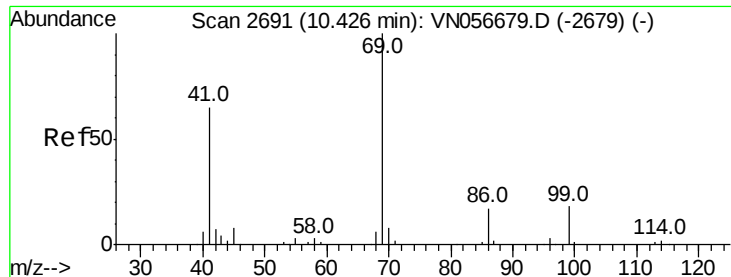


#50

1,1,2-Trichloroethane
 Concen: 5.427 ug/l
 RT: 10.56 min Scan# 2733
 Delta R.T. 0.00 min
 Lab File: VN056684.D
 Acq: 12 Jul 2019 12:29

Tgt Ion	Ratio	Lower	Upper
97	100		
83	84.0	69.2	103.8
85	56.4	45.3	67.9
99	60.4	51.6	77.4





#51

Ethyl methacrylate

Concen: 4.717 ug/l

RT: 10.43 min Scan# 2692

Delta R.T. 0.00 min

Lab File: VN056684.D

Acq: 12 Jul 2019 12:29

Instrument :

MSVOA_N

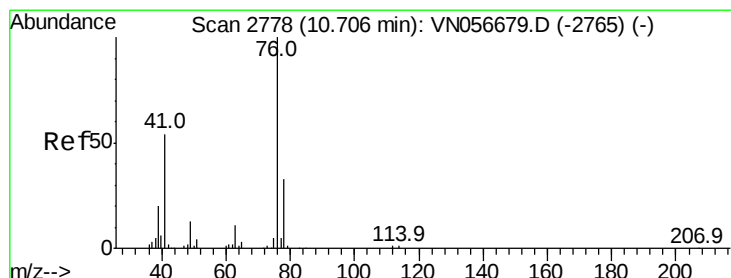
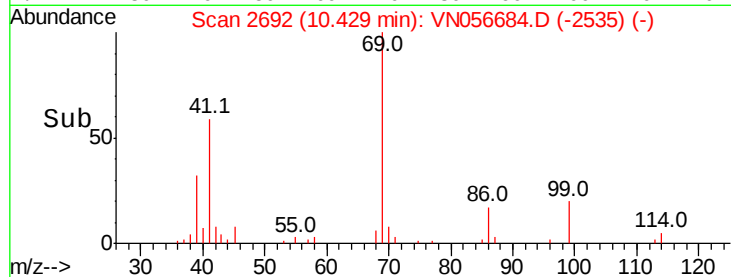
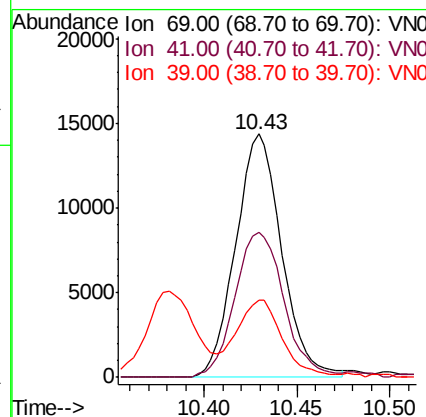
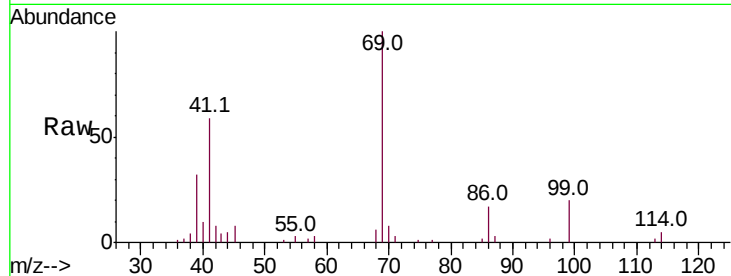
ClientSampleId :

VSTDIC005

Tot Ion:	69	Resp:	24805
Ion Ratio	Lower	Upper	
69	100		
41	59.4	32.8	98.3
39	30.3	15.4	46.2

Manual Integrations
APPROVED

MMDadoda
7/16/2019 9:59:29 AM



#52

1,3-Dichloropropane

Concen: 5.078 ug/l

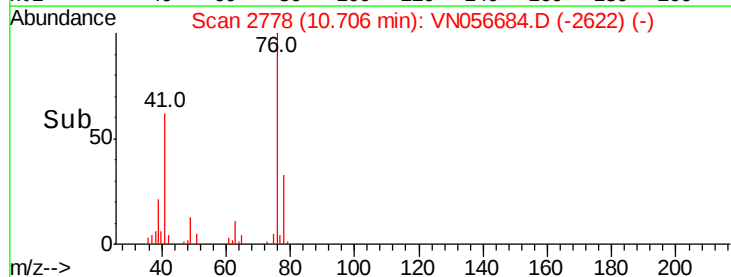
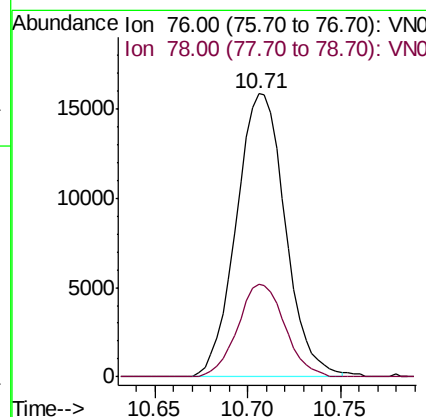
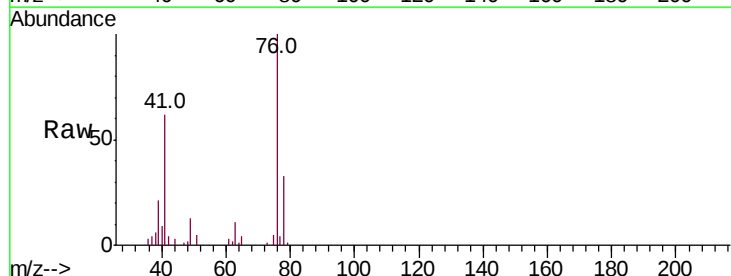
RT: 10.71 min Scan# 2778

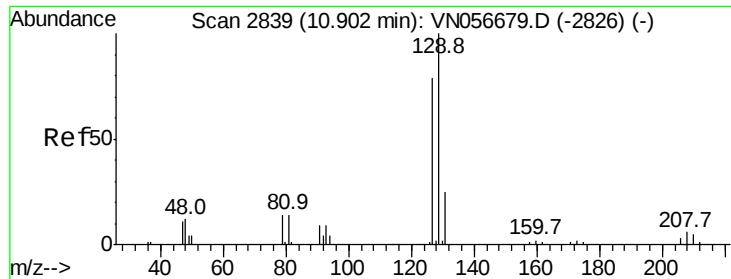
Delta R.T. 0.00 min

Lab File: VN056684.D

Acq: 12 Jul 2019 12:29

Tgt Ion:	76	Resp:	29125
Ion Ratio	Lower	Upper	
76	100		
78	31.6	0.0	63.6





#53

Dibromochloromethane

Concen: 4.837 ug/l

RT: 10.90 min Scan# 2838

Delta R.T. -0.00 min

Lab File: VN056684.D

Acq: 12 Jul 2019 12:29

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion:129 Resp: 16050

Ion Ratio Lower Upper

129 100

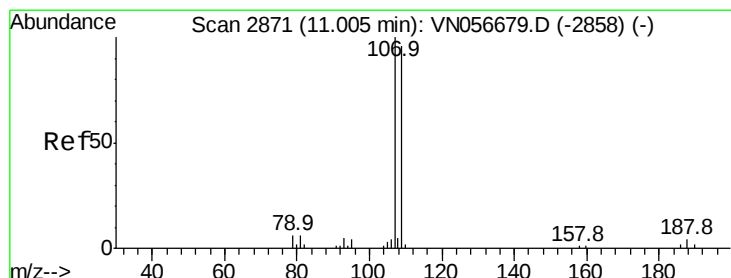
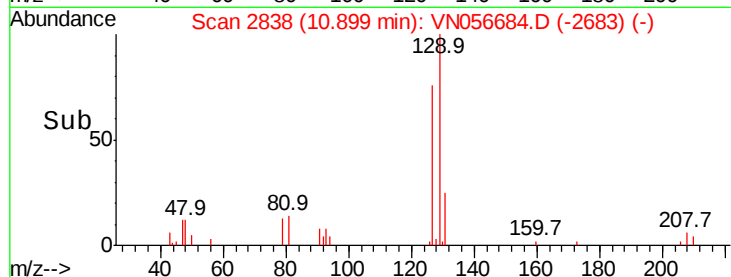
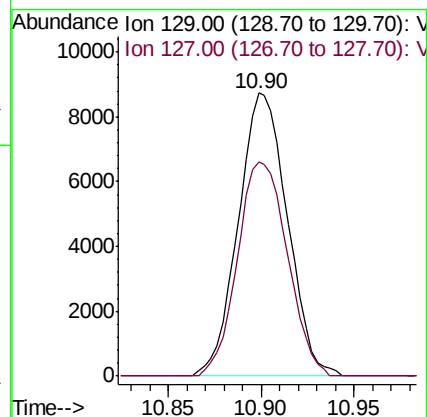
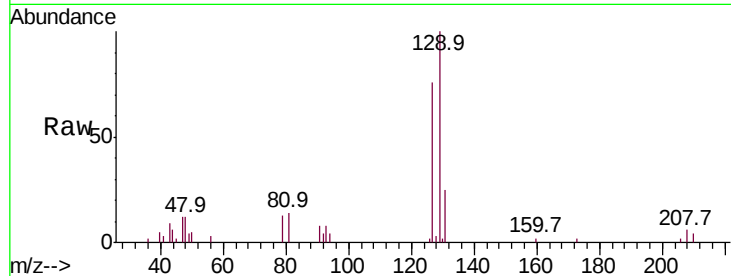
127 76.9 38.7 116.1

Manual Integrations

APPROVED

MMDadoda

7/16/2019 9:59:29 AM



#54

1,2-Dibromoethane

Concen: 5.148 ug/l

RT: 11.00 min Scan# 2871

Delta R.T. 0.00 min

Lab File: VN056684.D

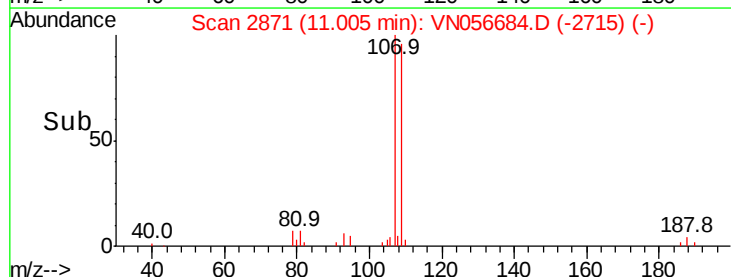
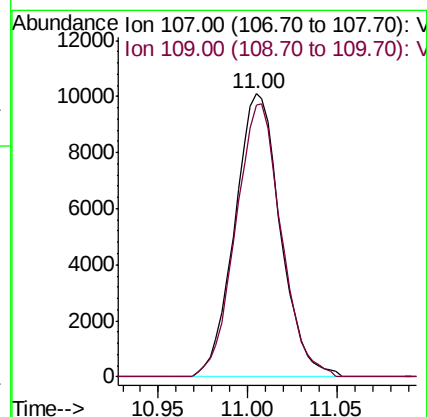
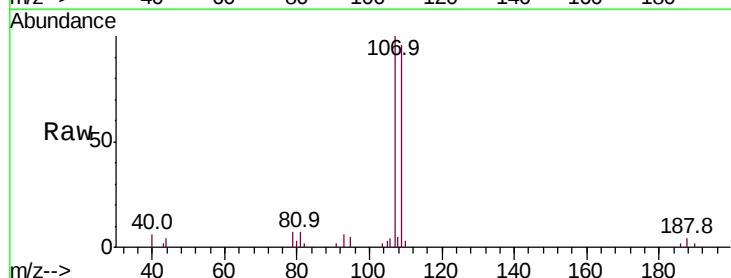
Acq: 12 Jul 2019 12:29

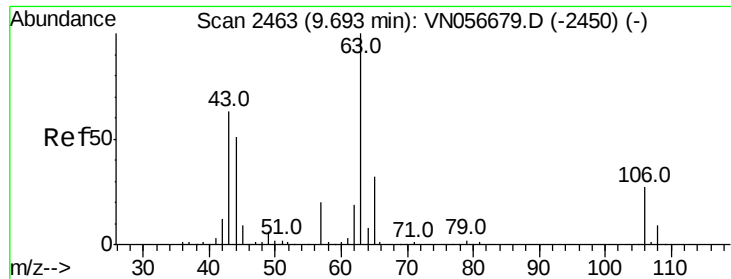
Tgt Ion:107 Resp: 18062

Ion Ratio Lower Upper

107 100

109 95.8 77.9 116.9





#55

2-Chloroethyl vinyl ether

Concen: 22.477 ug/l

RT: 9.70 min Scan# 2464

Delta R.T. 0.00 min

Lab File: VN056684.D

Acq: 12 Jul 2019 12:29

Instrument :

MSVOA_N

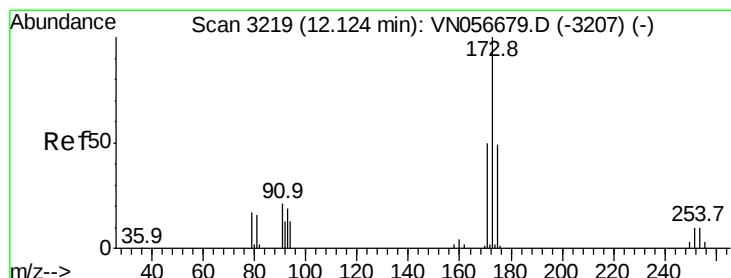
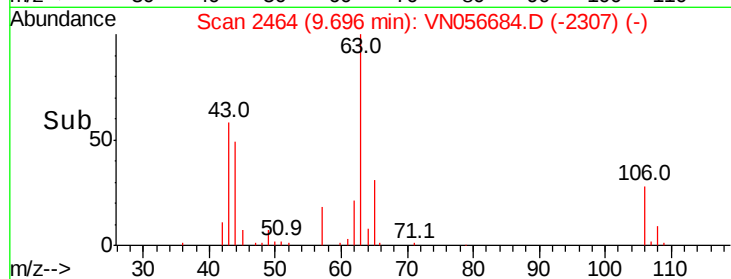
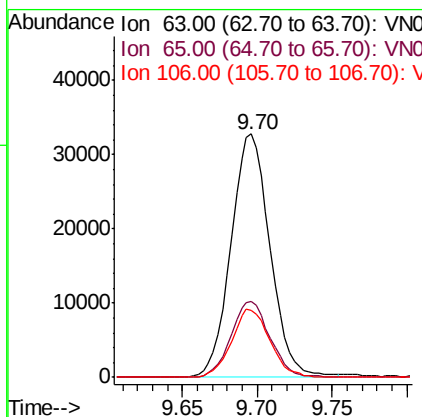
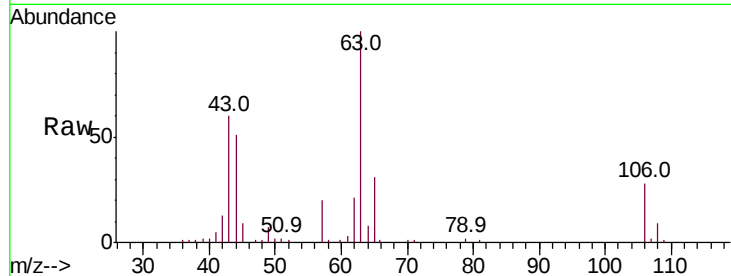
ClientSampleId :

VSTDIC005

Tot Ion:	63	Resp:	59693
Ion	Ratio	Lower	Upper
63	100		
65	31.0	25.2	37.8
106	27.3	21.6	32.4

Manual Integrations
APPROVED

MMDadoda
7/16/2019 9:59:29 AM



#56

Bromoform

Concen: 4.602 ug/l

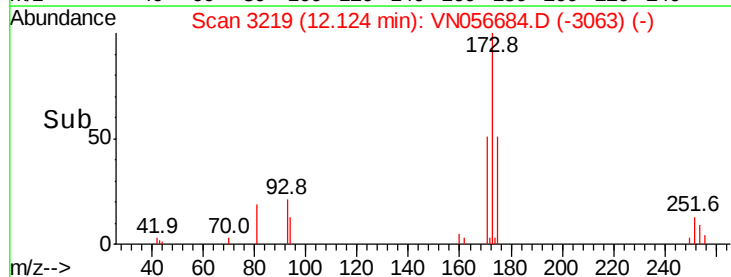
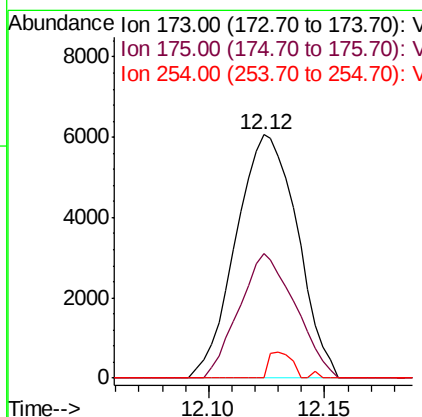
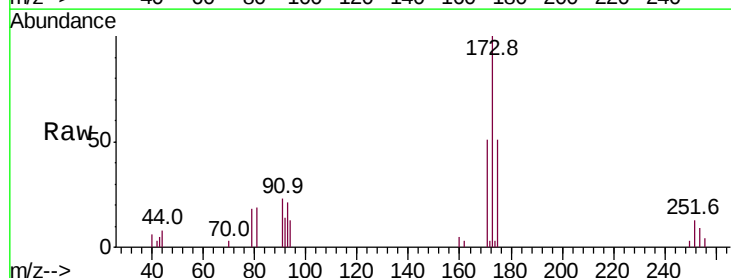
RT: 12.12 min Scan# 3219

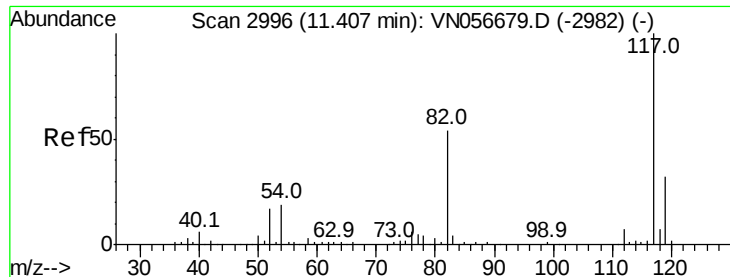
Delta R.T. 0.00 min

Lab File: VN056684.D

Acq: 12 Jul 2019 12:29

Tgt Ion:	173	Resp:	11181
Ion	Ratio	Lower	Upper
173	100		
175	46.9	39.7	59.5
254	4.0	7.8	11.8#





#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN056684.D

Acq: 12 Jul 2019 12:29

Instrument :

MSVOA_N

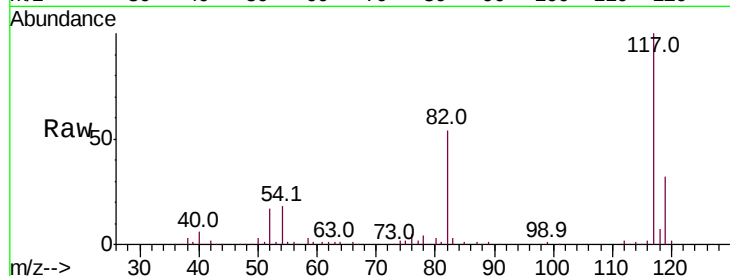
ClientSampleId :

VSTDIC005

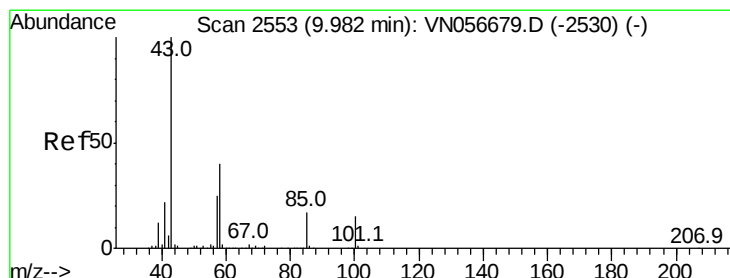
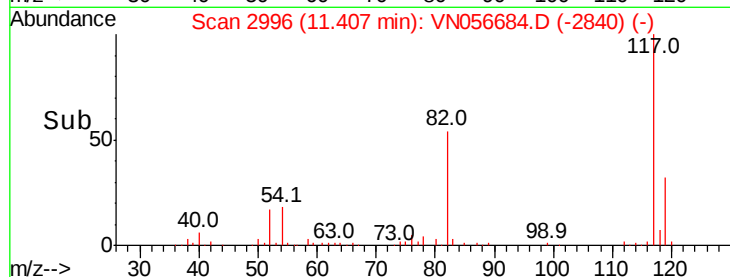
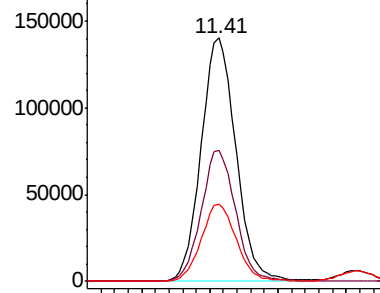
Tot Ion:	117	Resp:	248851
Ion Ratio	Lower	Upper	
117	100		
82	53.4	43.0	64.4
119	31.9	26.0	39.0

Manual Integrations
APPROVED

MMDadoda
7/16/2019 9:59:29 AM



Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): VN
Ion 119.00 (118.70 to 119.70): V



#58

4-Methyl-2-Pentanone

Concen: 26.674 ug/l

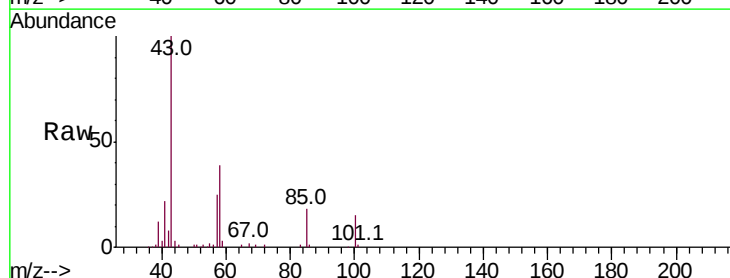
RT: 9.99 min Scan# 2554

Delta R.T. 0.00 min

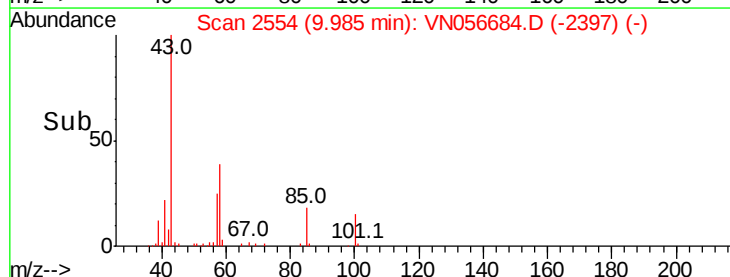
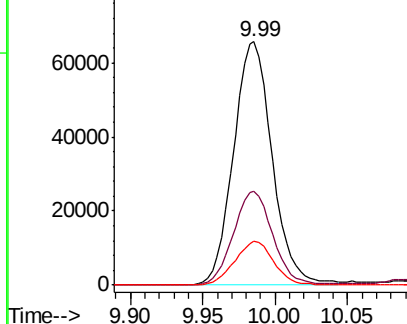
Lab File: VN056684.D

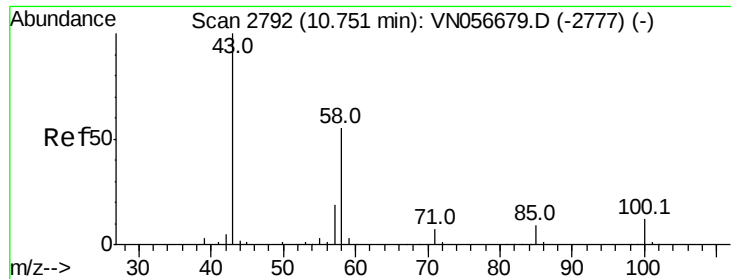
Acq: 12 Jul 2019 12:29

Tgt Ion:	43	Resp:	121182
Ion Ratio	Lower	Upper	
43	100		
58	39.7	31.9	47.9
85	18.2	14.2	21.4



Abundance Ion 43.00 (42.70 to 43.70): VNO
Ion 58.00 (57.70 to 58.70): VNO
Ion 85.00 (84.70 to 85.70): VNO





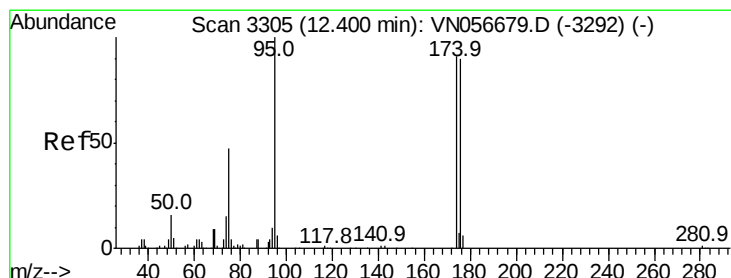
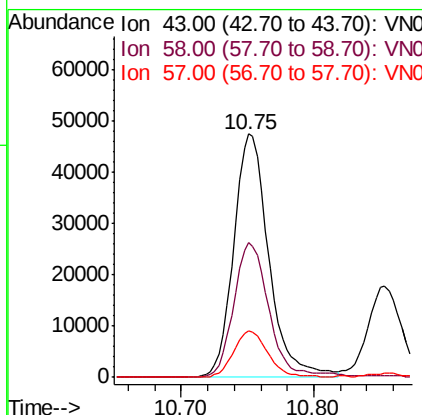
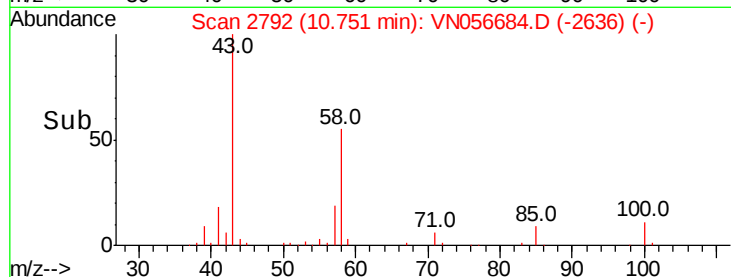
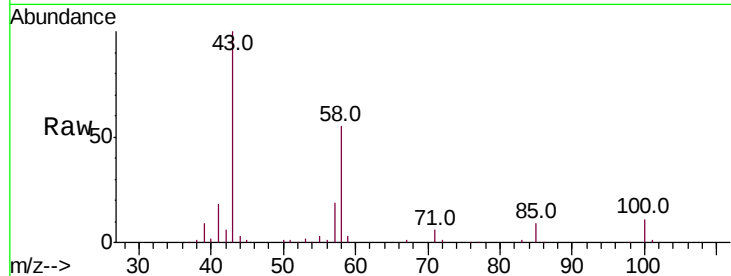
#59
2-Hexanone
Concen: 25.593 ug/l
RT: 10.75 min Scan# 2792
Delta R.T. 0.00 min
Lab File: VN056684.D
Acq: 12 Jul 2019 12:29

Instrument :
MSVOA_N
ClientSampled :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
43	100		
58	54.6	44.4	66.6
57	18.8	15.2	22.8

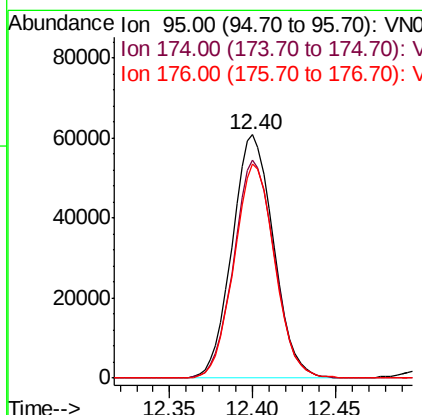
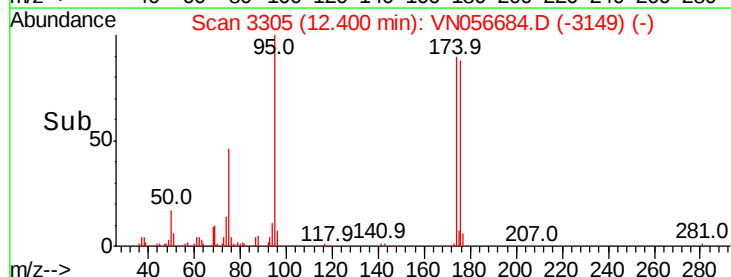
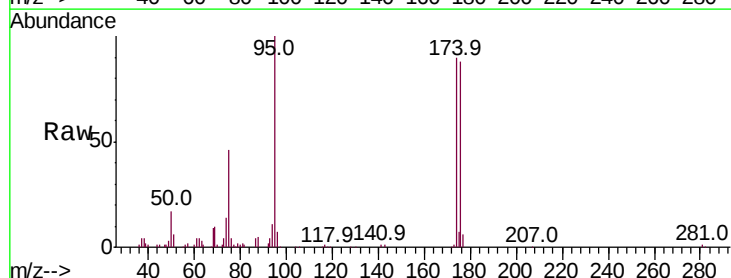
Manual Integrations
APPROVED

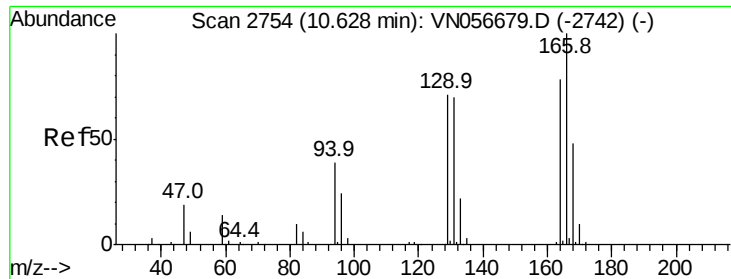
MMDadoda
7/16/2019 9:59:29 AM



#60
4-Bromofluorobenzene
Concen: 27.580 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.00 min
Lab File: VN056684.D
Acq: 12 Jul 2019 12:29

Tgt Ion	Ratio	Lower	Upper
95	100		
174	88.4	72.6	108.8
176	86.3	71.0	106.6





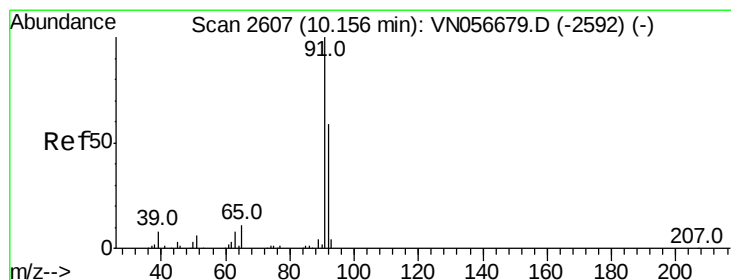
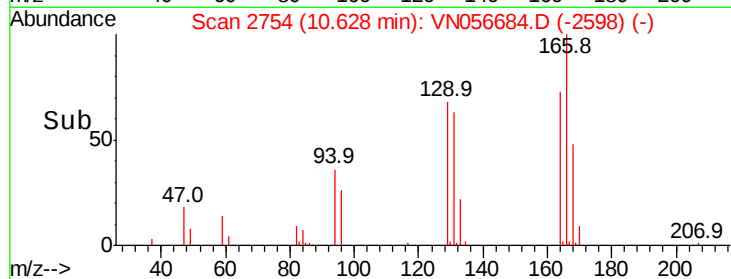
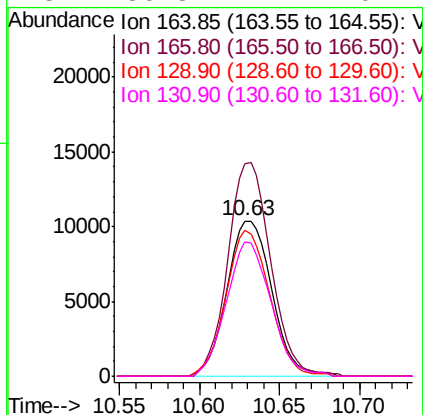
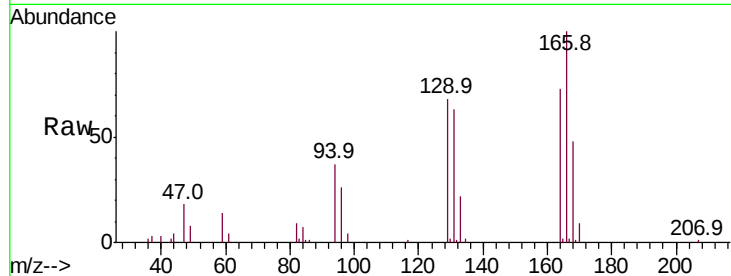
#61
Tetrachloroethene
Concen: 6.121 ug/l
RT: 10.63 min Scan# 2754
Delta R.T. 0.00 min
Lab File: VN056684.D
Acq: 12 Jul 2019 12:29

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
164	100		
166	137.0	102.3	153.5
129	93.8	72.6	108.8
131	86.3	71.4	107.2

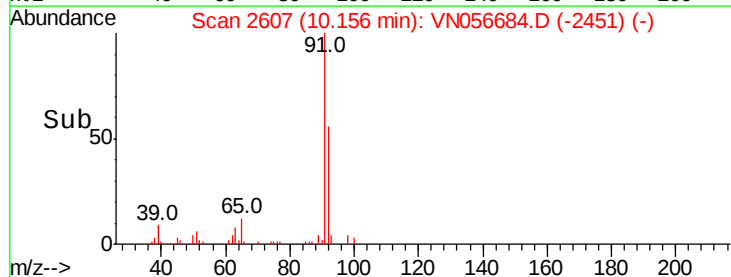
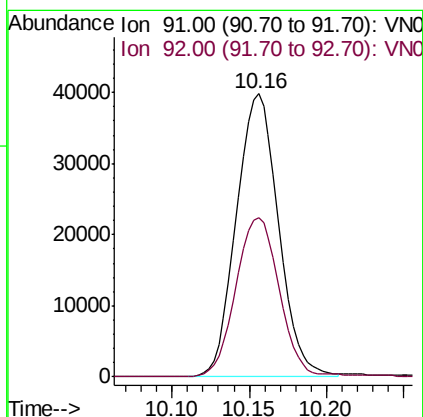
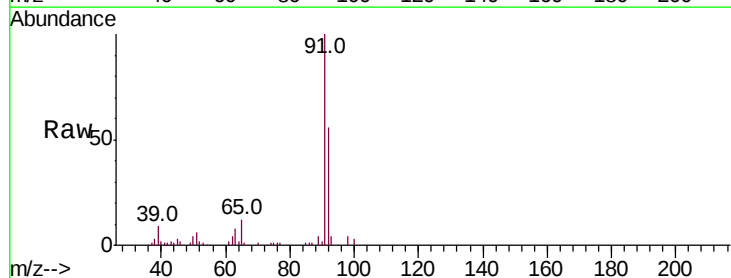
Manual Integrations
APPROVED

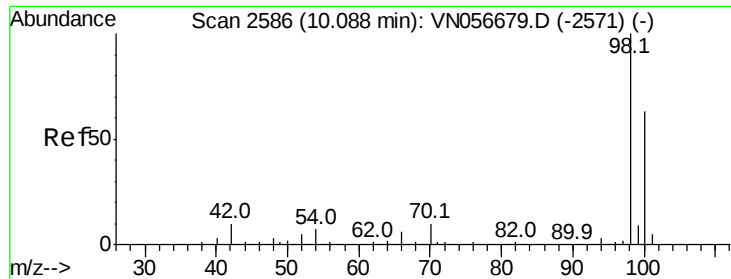
MMDadoda
7/16/2019 9:59:29 AM



#62
Toluene
Concen: 5.339 ug/l
RT: 10.16 min Scan# 2607
Delta R.T. 0.00 min
Lab File: VN056684.D
Acq: 12 Jul 2019 12:29

Tgt Ion	Ratio	Lower	Upper
91	100		
92	57.5	46.7	70.1





#63

Toluene-d8

Concen: 30.249 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. 0.00 min

Lab File: VN056684.D

Acq: 12 Jul 2019 12:29

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion: 98 Resp: 349066

Ion Ratio Lower Upper

98 100

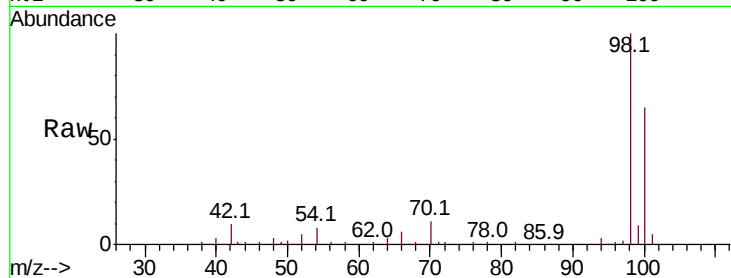
100 64.6 51.1 76.7

Manual Integrations

APPROVED

MMDadoda

7/16/2019 9:59:29 AM



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

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

10.09

200000

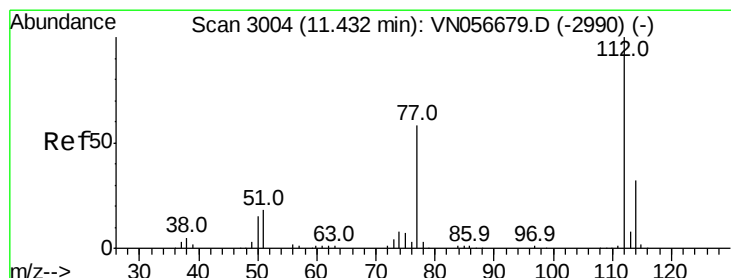
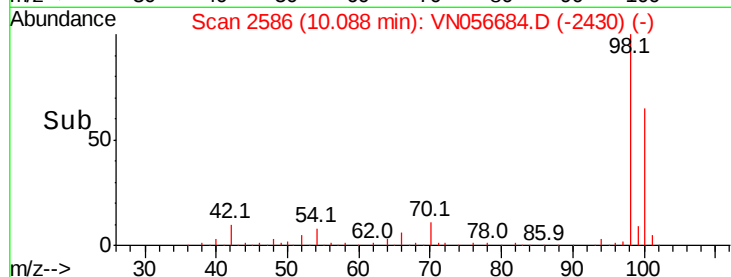
150000

100000

50000

0

Time-->



#64

Chlorobenzene

Concen: 5.378 ug/l

RT: 11.43 min Scan# 3004

Delta R.T. 0.00 min

Lab File: VN056684.D

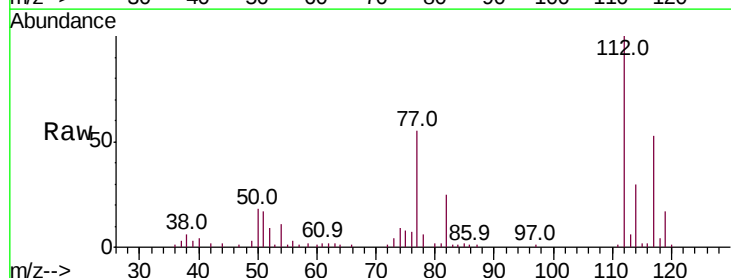
Acq: 12 Jul 2019 12:29

Tgt Ion: 112 Resp: 45928

Ion Ratio Lower Upper

112 100

114 30.4 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) (-)

11.43

30000

25000

20000

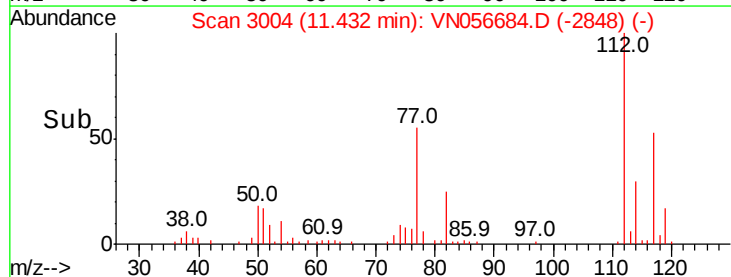
15000

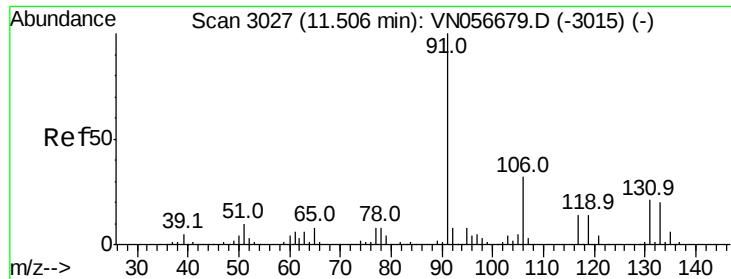
10000

5000

0

Time-->





#65

1,1,1,2-Tetrachloroethane

Concen: 5.228 ug/l

RT: 11.51 min Scan# 3027

Delta R.T. 0.00 min

Lab File: VN056684.D

Acq: 12 Jul 2019 12:29

Instrument :

MSVOA_N

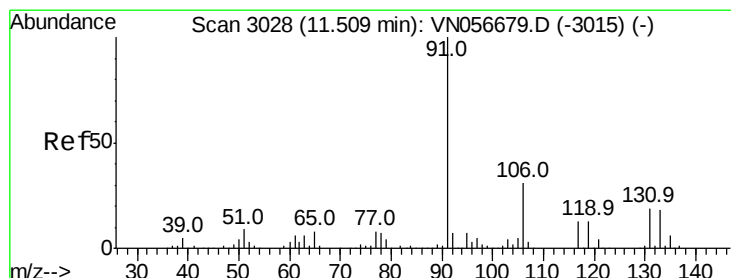
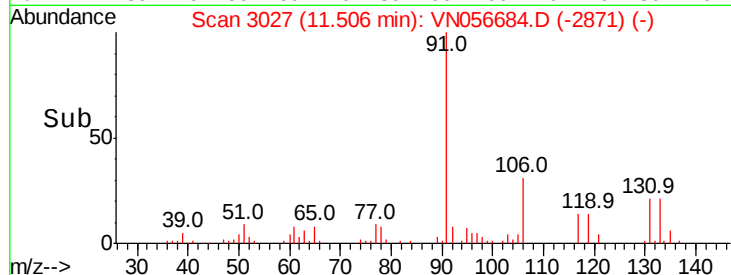
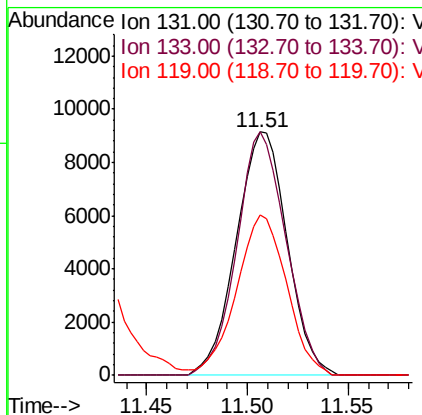
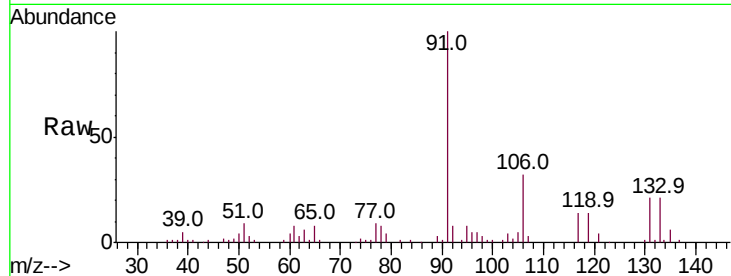
ClientSampleId :

VSTDIC005

Tot Ion:	131	Resp:	16199
Ion Ratio	Lower	Upper	
131	100		
133	96.0	0.0	191.4
119	64.9	0.0	133.4

Manual Integrations
APPROVED

MMDadoda
7/16/2019 9:59:29 AM



#66

Ethyl Benzene

Concen: 5.060 ug/l

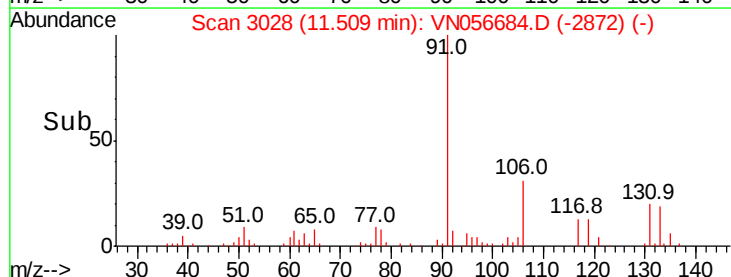
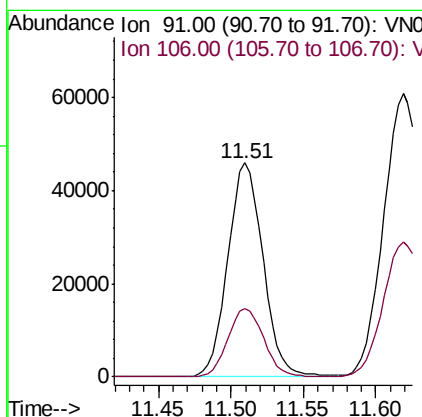
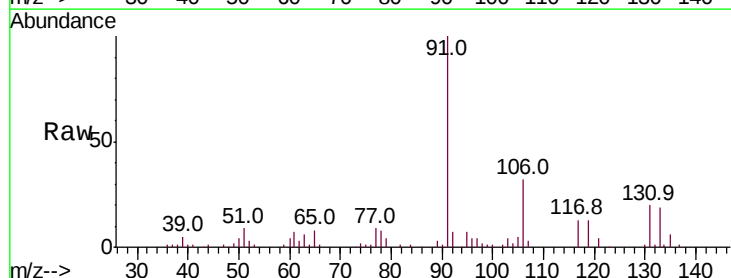
RT: 11.51 min Scan# 3028

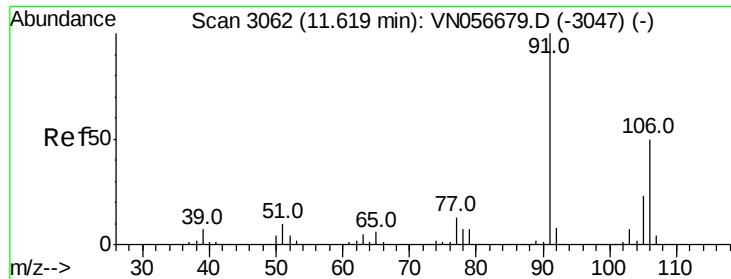
Delta R.T. 0.00 min

Lab File: VN056684.D

Acq: 12 Jul 2019 12:29

Tgt Ion:	91	Resp:	77762
Ion Ratio	Lower	Upper	
91	100		
106	31.9	25.1	37.7





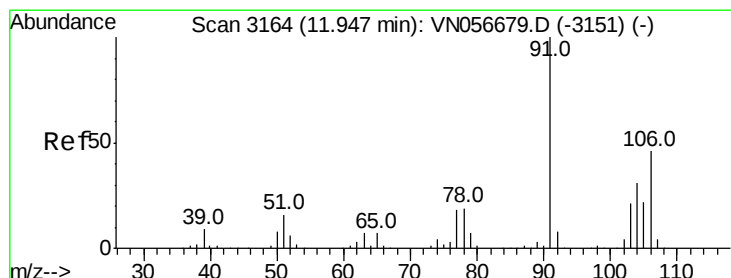
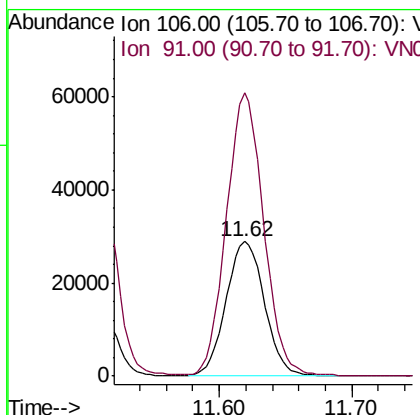
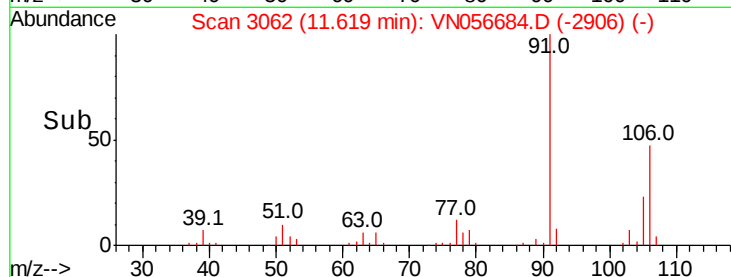
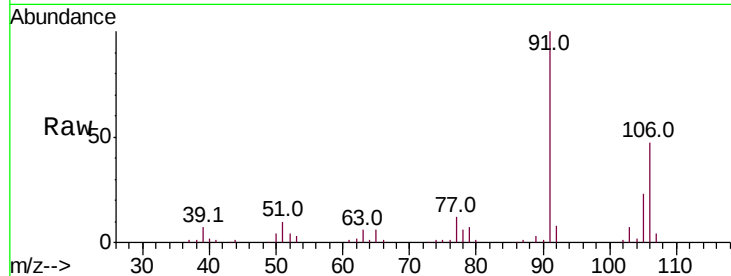
#67
m/p-Xylenes
Concen: 10.235 ug/l
RT: 11.62 min Scan# 3062
Delta R.T. 0.00 min
Lab File: VN056684.D
Acq: 12 Jul 2019 12:29

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion:106 Resp: 58389
Ion Ratio Lower Upper
106 100
91 203.9 161.8 242.8

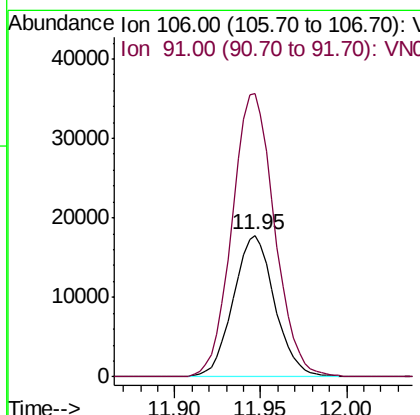
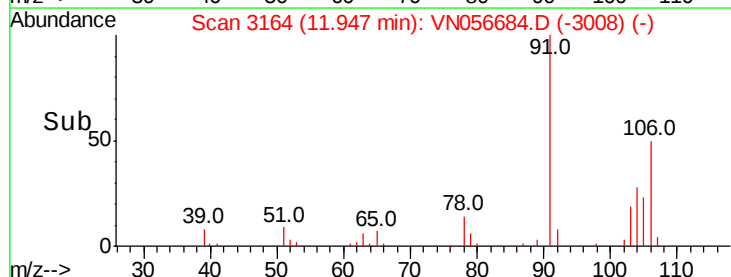
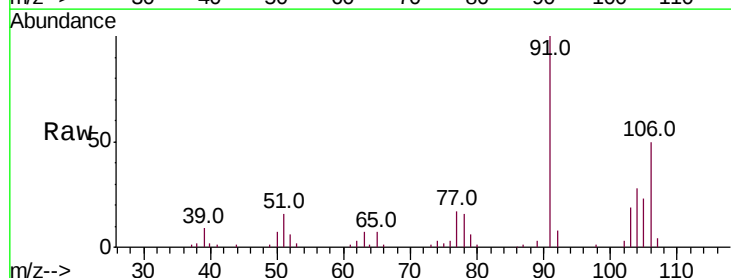
Manual Integrations
APPROVED

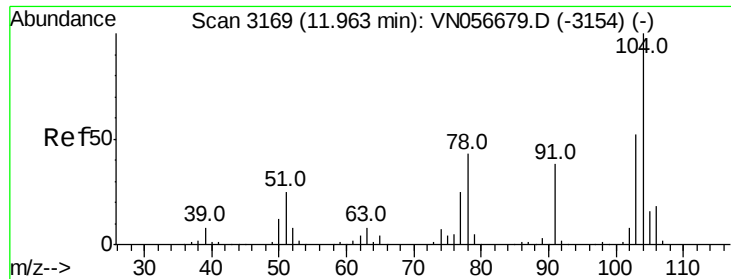
MMDadoda
7/16/2019 9:59:29 AM



#68
o-Xylene
Concen: 5.352 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. 0.00 min
Lab File: VN056684.D
Acq: 12 Jul 2019 12:29

Tgt Ion:106 Resp: 29959
Ion Ratio Lower Upper
106 100
91 205.1 108.1 324.2





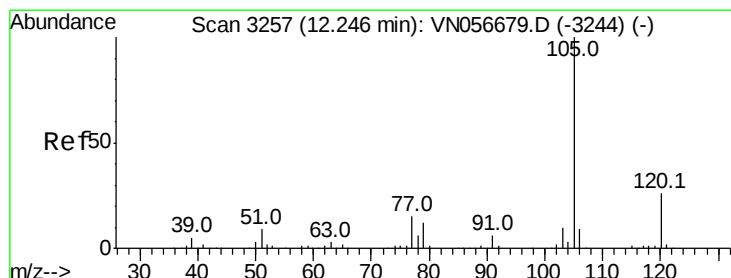
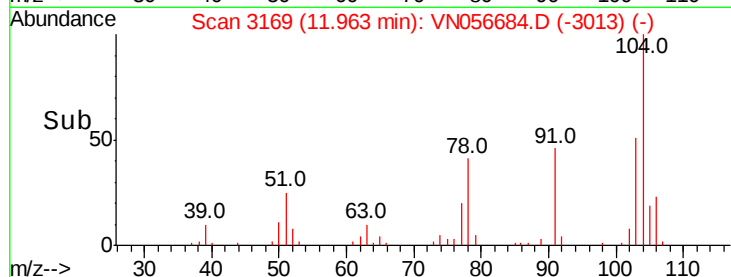
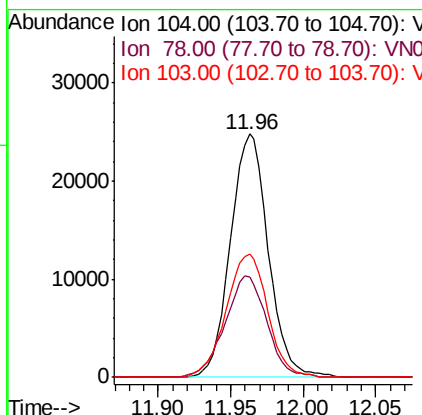
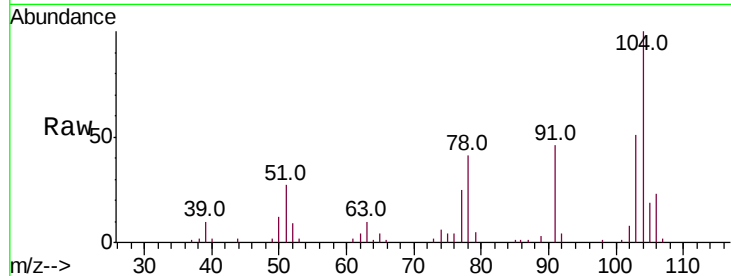
#69
Stvrene
Concen: 4.834 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. 0.00 min
Lab File: VN056684.D
Acq: 12 Jul 2019 12:29

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
104	100		
78	46.0	38.7	58.1
103	55.5	45.0	67.4

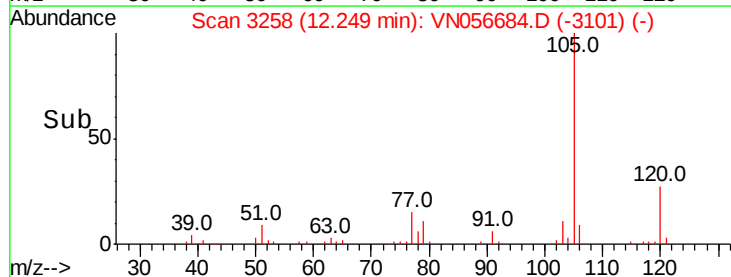
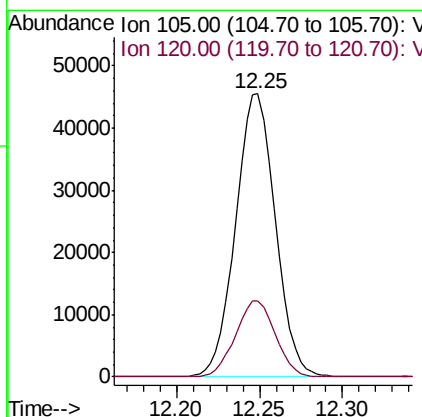
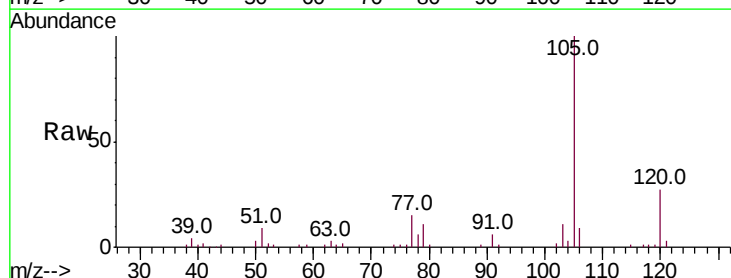
Manual Integrations
APPROVED

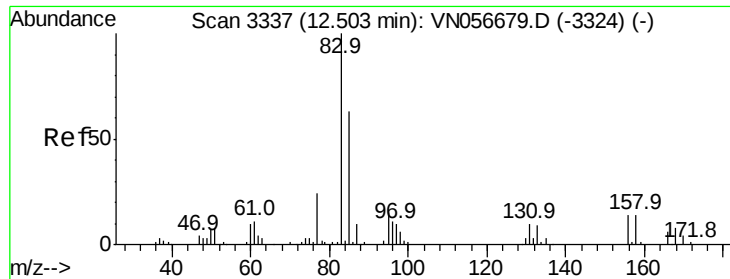
MMDadoda
7/16/2019 9:59:29 AM



#70
Isopropylbenzene
Concen: 5.174 ug/l
RT: 12.25 min Scan# 3258
Delta R.T. 0.00 min
Lab File: VN056684.D
Acq: 12 Jul 2019 12:29

Tgt Ion	Ratio	Lower	Upper
105	100		
120	26.9	18.6	34.5





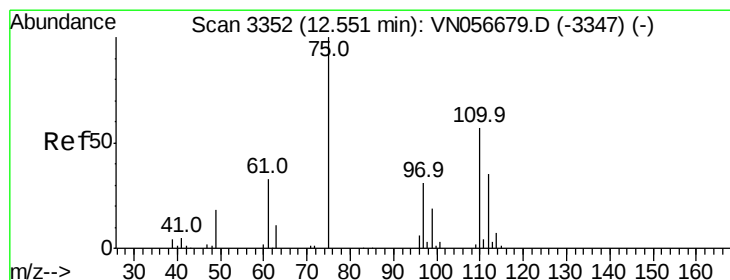
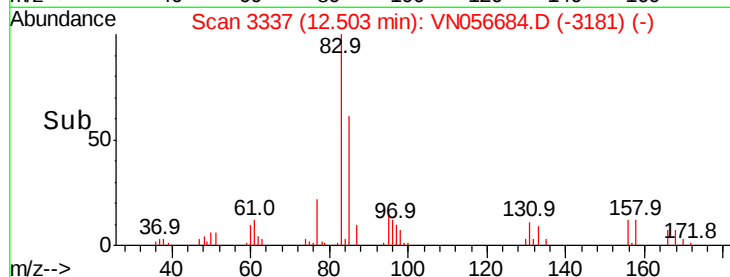
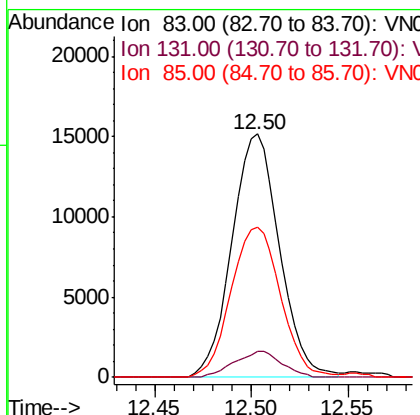
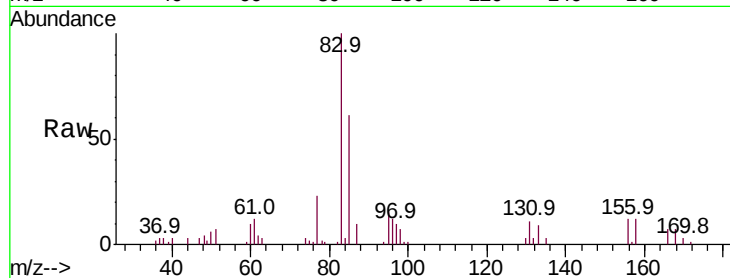
#71
 1,1,2,2-Tetrachloroethane
 Concen: 5.377 ug/l
 RT: 12.50 min Scan# 3337
 Delta R.T. 0.00 min
 Lab File: VN056684.D
 Acq: 12 Jul 2019 12:29

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tot Ion	83	Resp	25920
Ion Ratio	100	Lower	Upper
83	10.7	5.1	15.3
131	64.1	31.9	95.7

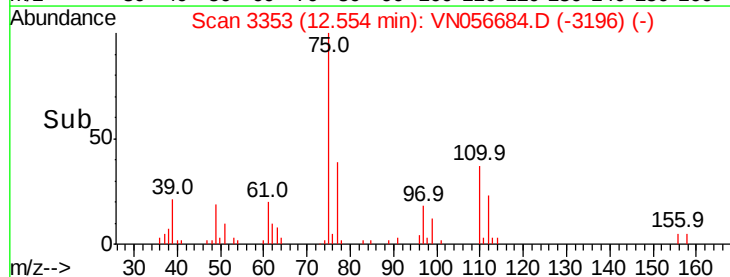
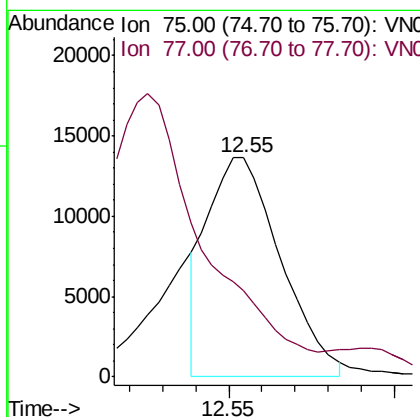
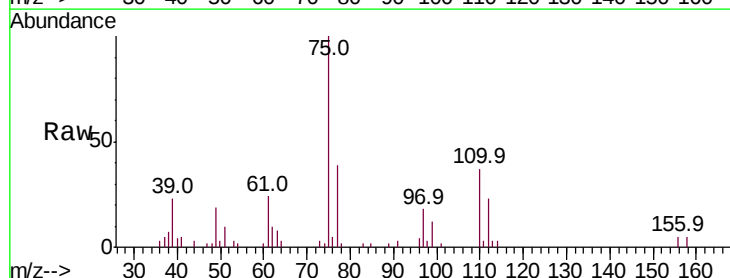
Manual Integrations
 APPROVED

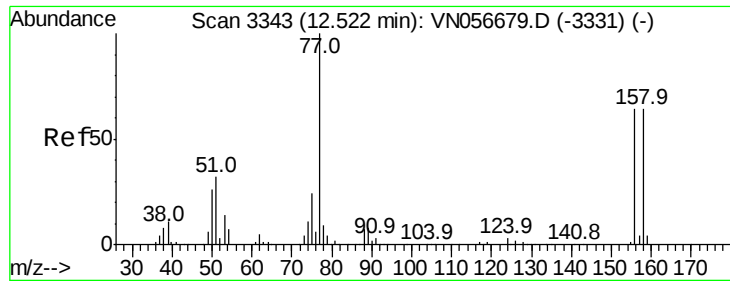
MMDadoda
 7/16/2019 9:59:29 AM



#72
 1,2,3-Trichloropropane
 Concen: 5.209 ug/l m
 RT: 12.55 min Scan# 3353
 Delta R.T. 0.00 min
 Lab File: VN056684.D
 Acq: 12 Jul 2019 12:29

Tgt Ion	75	Resp	21067
Ion Ratio	100	Lower	Upper
75	183.2	0.0	352.2





#73

Bromobenzene

Concen: 5.100 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. 0.00 min

Lab File: VN056684.D

Acq: 12 Jul 2019 12:29

Instrument :

MSVOA_N

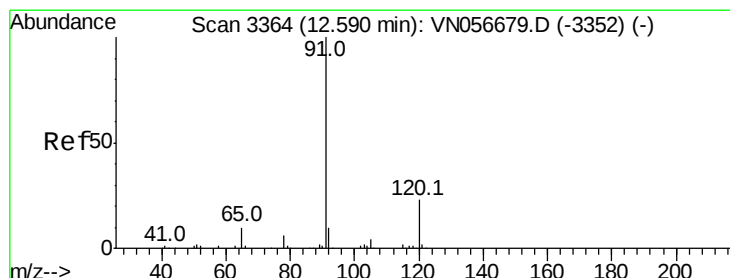
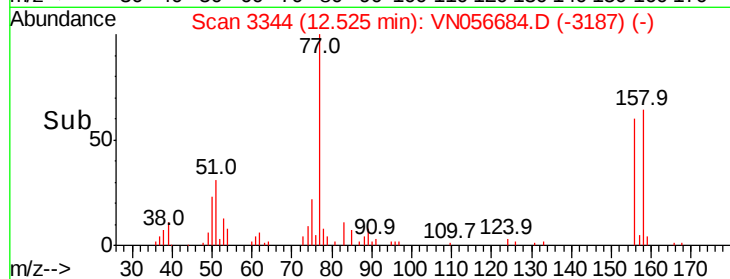
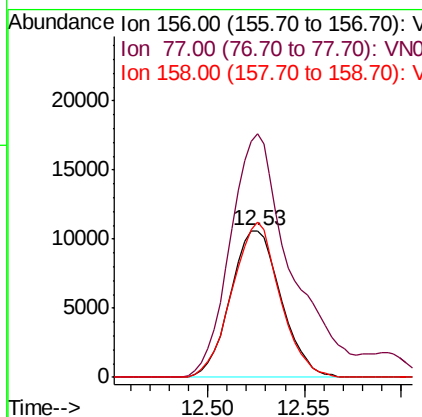
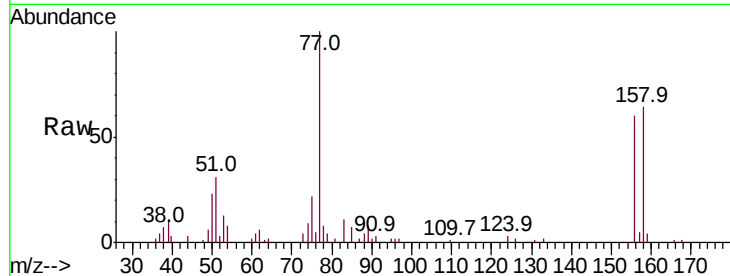
ClientSampleId :

VSTDIC005

Tot Ion:	156	Resp:	19305
Ion Ratio	Lower	Upper	
156	100		
77	200.0	0.0	381.8
158	99.9	0.0	195.8

Manual Integrations
APPROVED

MMDadoda
7/16/2019 9:59:29 AM



#74

n-propylbenzene

Concen: 4.783 ug/l

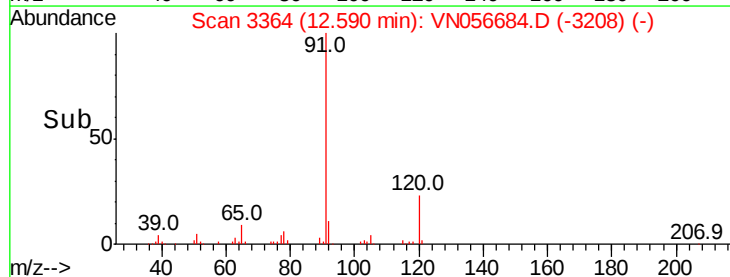
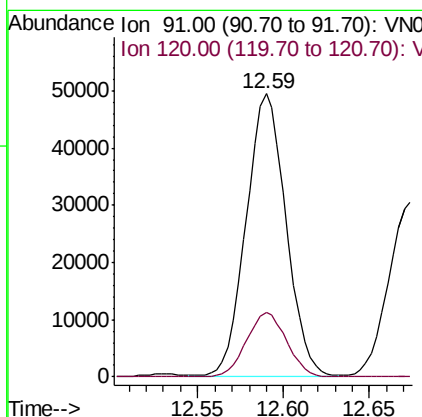
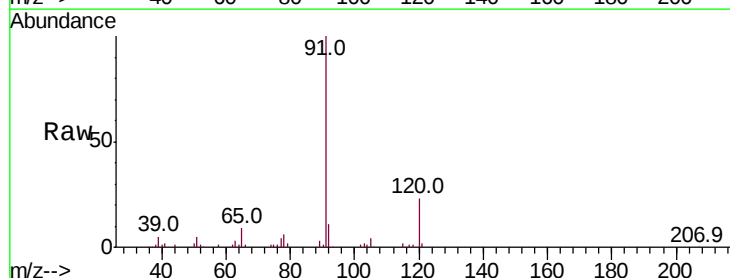
RT: 12.59 min Scan# 3364

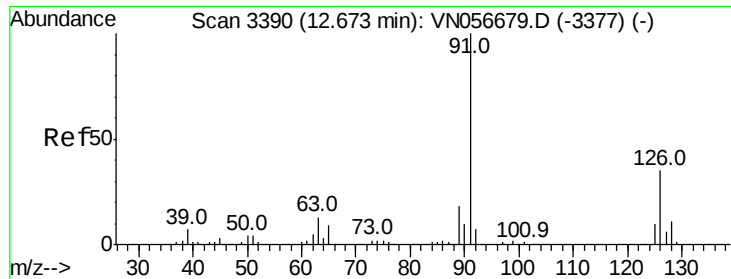
Delta R.T. 0.00 min

Lab File: VN056684.D

Acq: 12 Jul 2019 12:29

Tgt Ion:	91	Resp:	79955
Ion Ratio	Lower	Upper	
91	100		
120	22.8	0.0	45.6





#75

2-Chlorotoluene

Concen: 5.164 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. 0.00 min

Lab File: VN056684.D

Acq: 12 Jul 2019 12:29

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion: 91 Resp: 51470

Ion Ratio Lower Upper

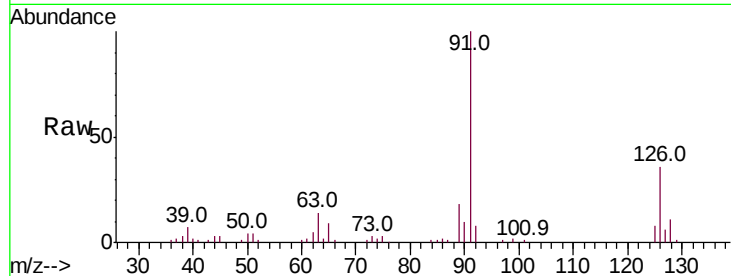
91 100

126 34.9 0.0 69.8

Manual Integrations
APPROVED

MMDadoda

7/16/2019 9:59:29 AM



Abundance Ion 91.00 (90.70 to 91.70): VN056679.D (-3377) (-)

Ion 126.00 (125.70 to 126.70): VN056679.D (-3377) (-)

50000

40000

30000

20000

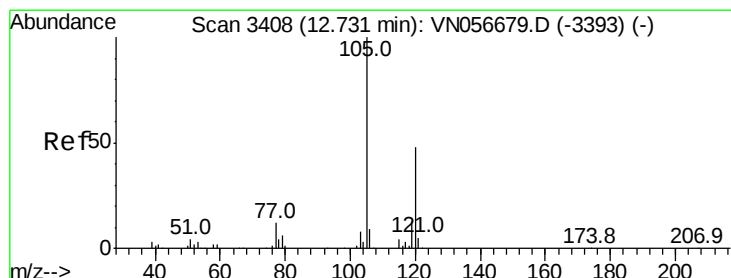
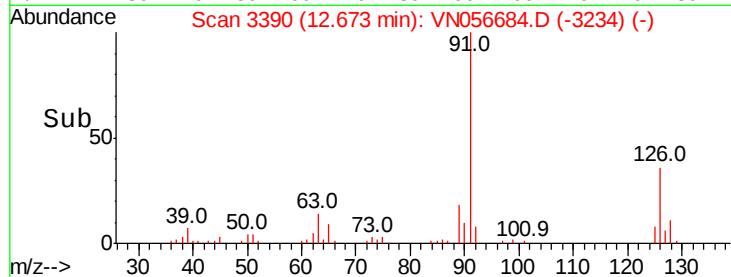
10000

0

12.60 12.65 12.70

12.67

Time-->



#76

1,3,5-Trimethylbenzene

Concen: 5.081 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN056684.D

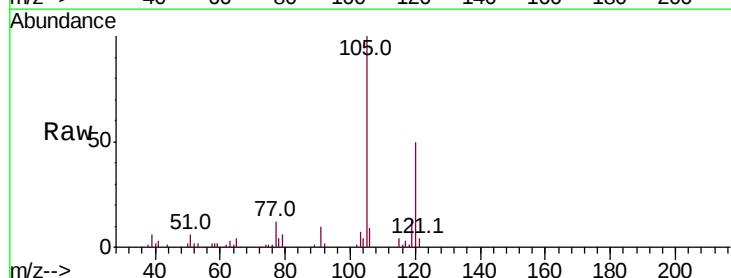
Acq: 12 Jul 2019 12:29

Tgt Ion:105 Resp: 63466

Ion Ratio Lower Upper

105 100

120 50.3 0.0 97.6



Abundance Ion 105.00 (104.70 to 105.70): VN056679.D (-3393) (-)

Ion 120.00 (119.70 to 120.70): VN056679.D (-3393) (-)

40000

30000

20000

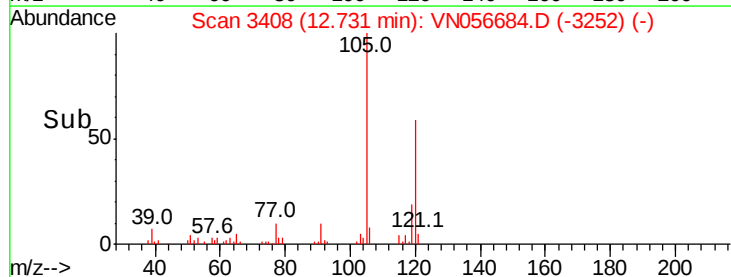
10000

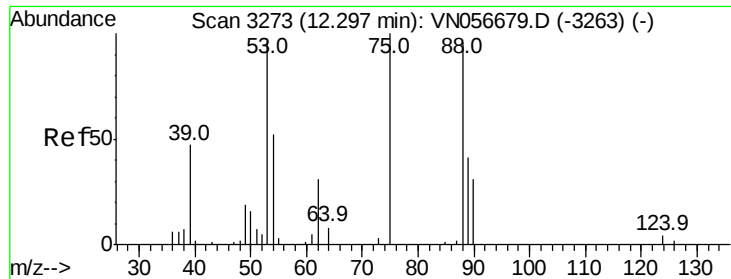
0

12.70 12.75

12.73

Time-->





#77

t-1,4-Dichloro-2-butene

Concen: 3.911 ug/l

RT: 12.30 min Scan# 3273

Delta R.T. 0.00 min

Lab File: VN056684.D

Acq: 12 Jul 2019 12:29

Instrument :

MSVOA_N

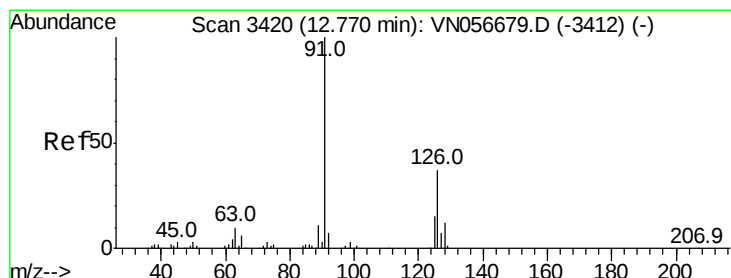
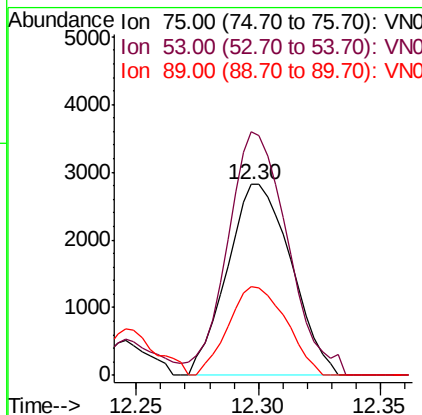
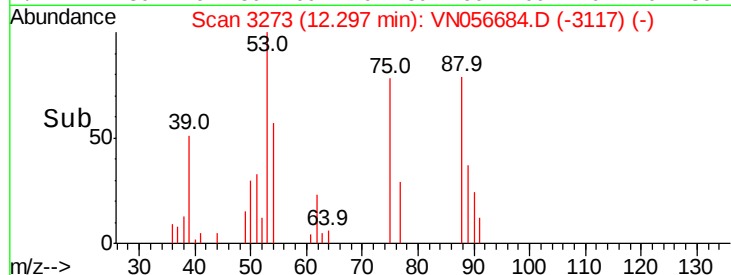
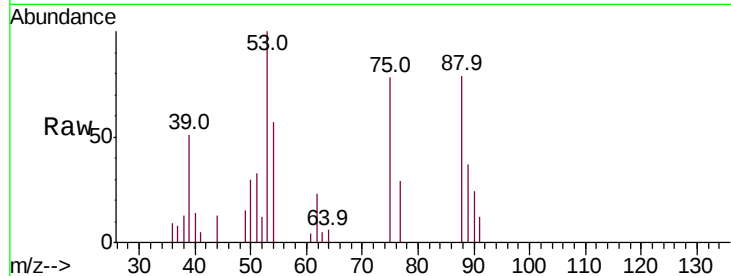
ClientSampleId :

VSTDIC005

Tot Ion:	75	Resp:	5144
Ion	Ratio	Lower	Upper
75	100		
53	120.8	48.6	145.8
89	46.6	21.3	64.0

Manual Integrations
APPROVED

MMDadoda
7/16/2019 9:59:29 AM



#78

4-Chlorotoluene

Concen: 4.733 ug/l

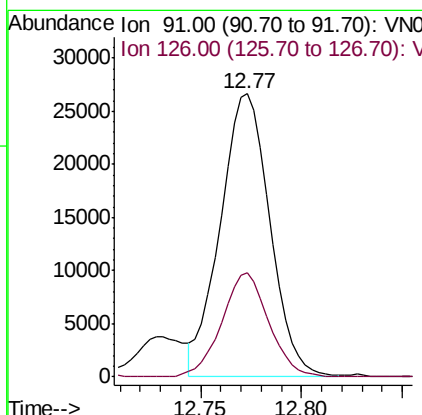
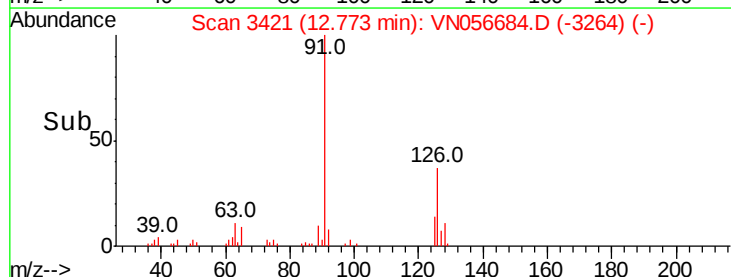
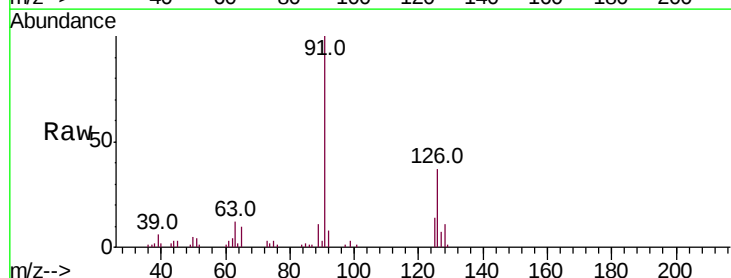
RT: 12.77 min Scan# 3421

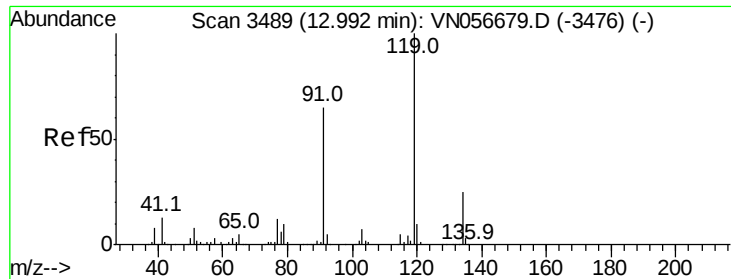
Delta R.T. 0.00 min

Lab File: VN056684.D

Acq: 12 Jul 2019 12:29

Tgt Ion:	91	Resp:	45783
Ion	Ratio	Lower	Upper
91	100		
126	34.8	0.0	69.4





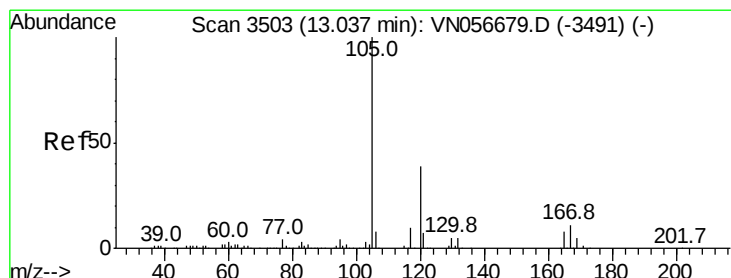
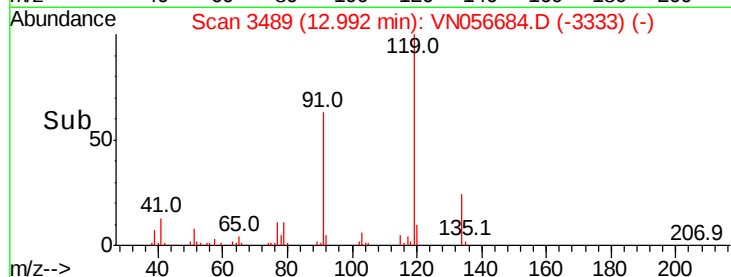
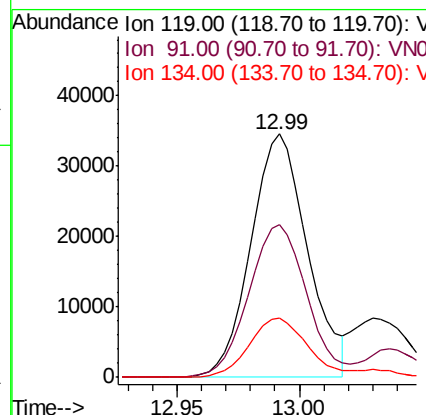
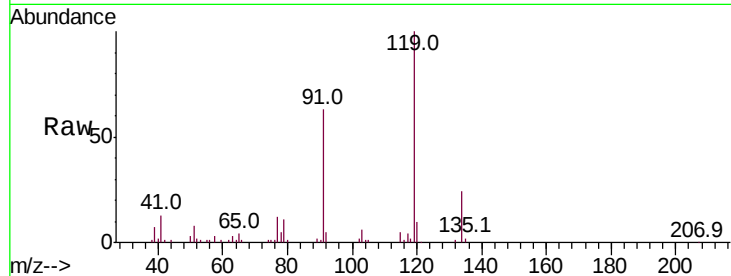
#79
tert-butylbenzene
Concen: 5.222 ug/l
RT: 12.99 min Scan# 3489
Delta R.T. 0.00 min
Lab File: VN056684.D
Acq: 12 Jul 2019 12:29

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Resp	Lower	Upper
119	100	55536		
91	64.5		0.0	125.4
134	25.0		0.0	48.4

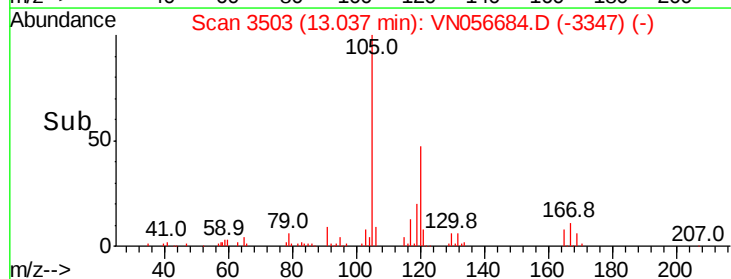
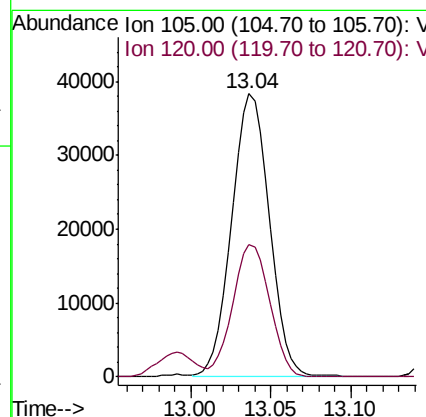
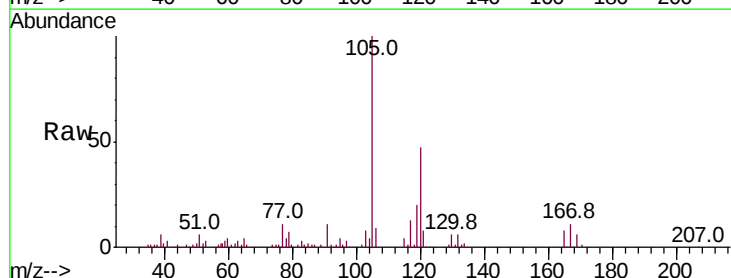
Manual Integrations
APPROVED

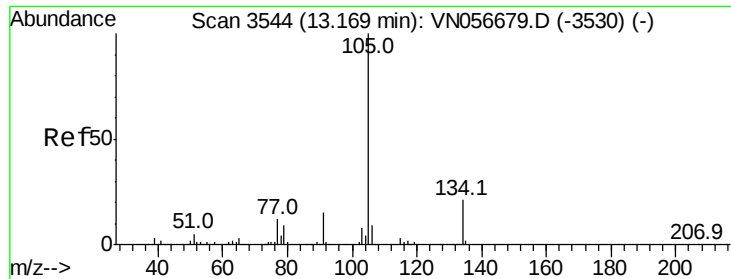
MMDadoda
7/16/2019 9:59:29 AM



#80
1,2,4-Trimethylbenzene
Concen: 4.998 ug/l
RT: 13.04 min Scan# 3503
Delta R.T. 0.00 min
Lab File: VN056684.D
Acq: 12 Jul 2019 12:29

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	61682		
120	45.7		0.0	91.2





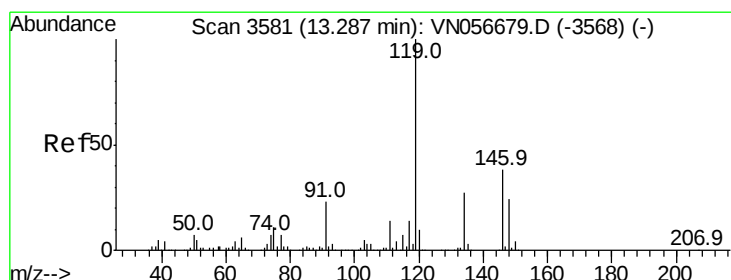
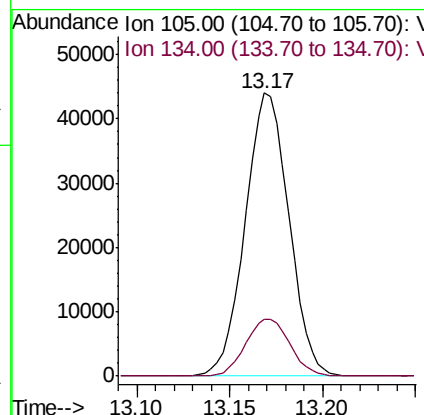
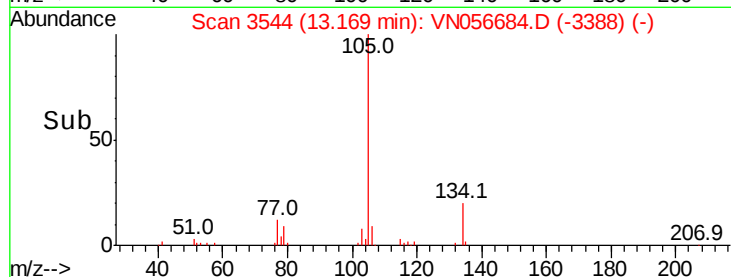
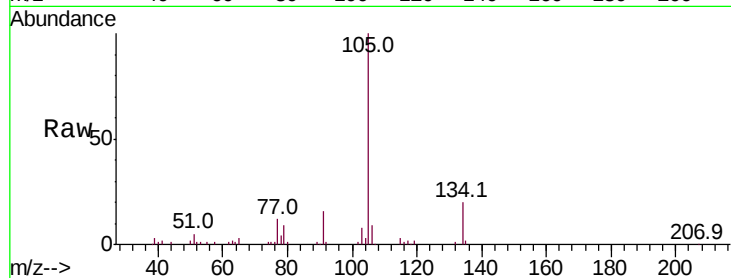
#81
 sec-Butylbenzene
 Concen: 5.096 ug/l
 RT: 13.17 min Scan# 3544
 Delta R.T. 0.00 min
 Lab File: VN056684.D
 Acq: 12 Jul 2019 12:29

Instrument :
 MSVOA_N
 ClientSampleID :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
105	100		
134	20.2	0.0	40.8

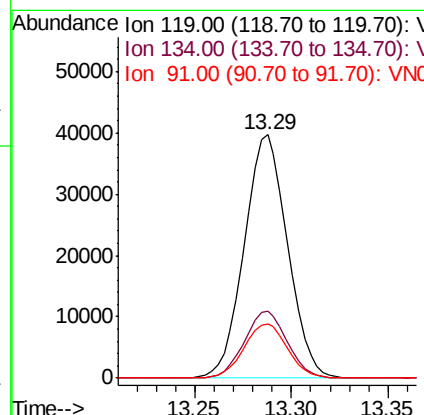
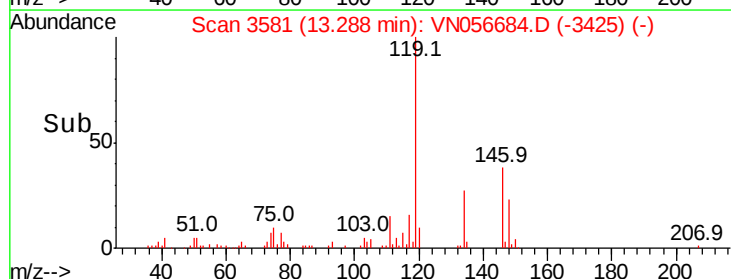
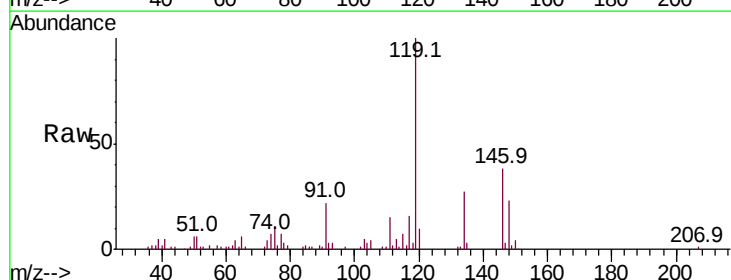
Manual Integrations
 APPROVED

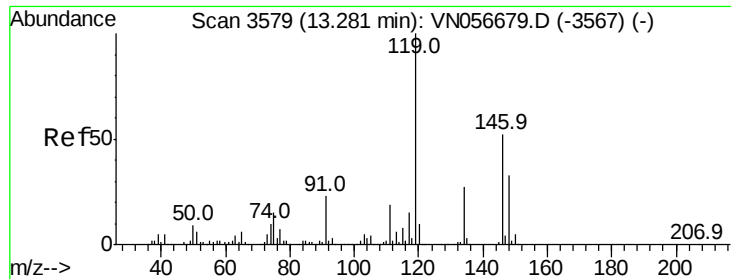
MMDadoda
 7/16/2019 9:59:29 AM



#82
 p-Isopropyltoluene
 Concen: 4.833 ug/l
 RT: 13.29 min Scan# 3581
 Delta R.T. 0.00 min
 Lab File: VN056684.D
 Acq: 12 Jul 2019 12:29

Tgt Ion	Ratio	Lower	Upper
119	100		
134	27.2	0.0	52.8
91	22.4	0.0	45.4





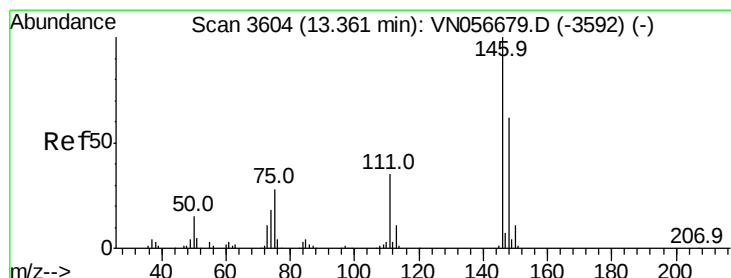
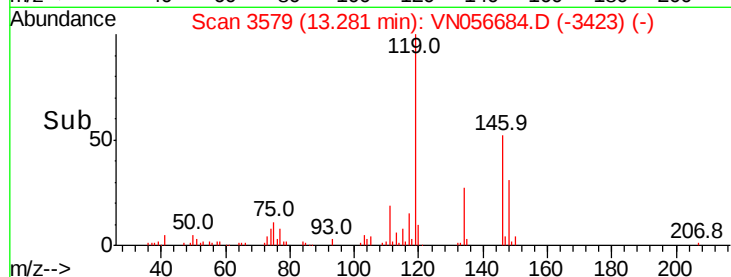
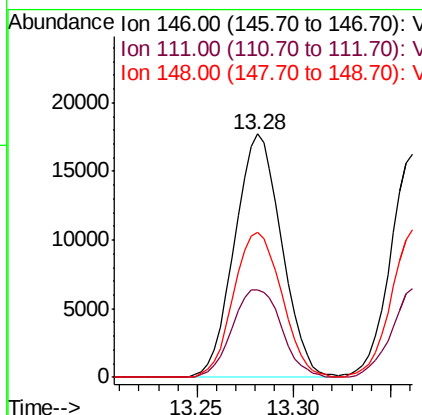
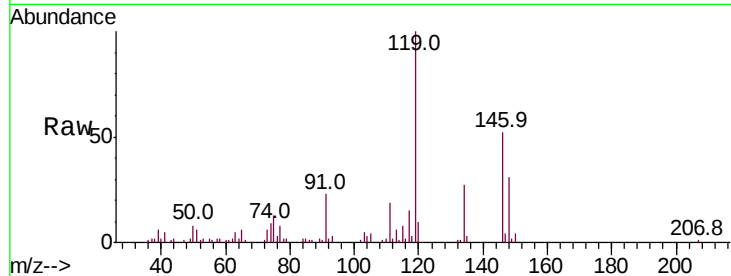
#83
1,3-Dichlorobenzene
Concen: 4.751 ug/l
RT: 13.28 min Scan# 3579
Delta R.T. 0.00 min
Lab File: VN056684.D
Acq: 12 Jul 2019 12:29

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
146	100		
111	37.6	18.7	56.1
148	61.0	31.8	95.4

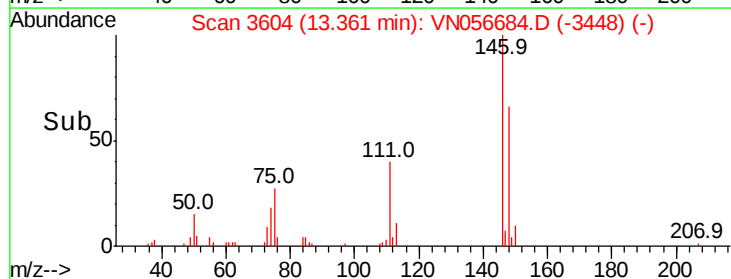
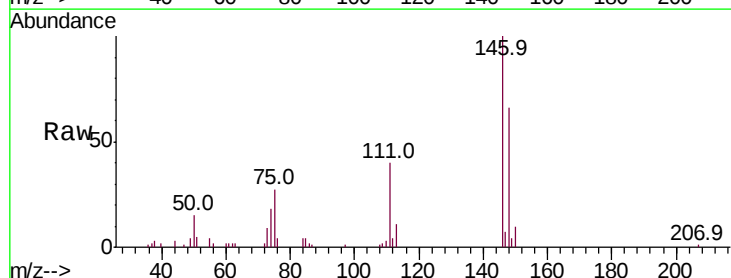
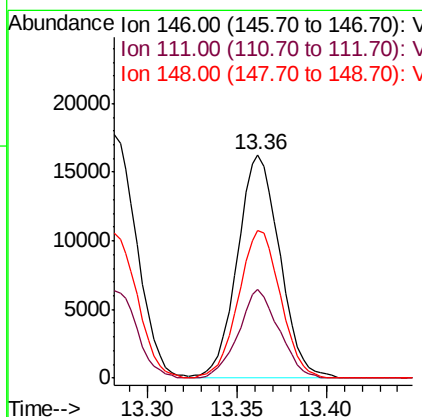
Manual Integrations
APPROVED

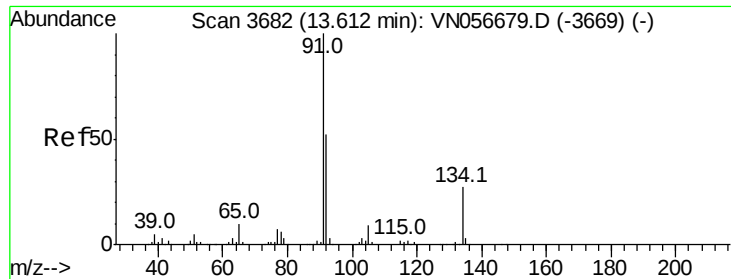
MMDadoda
7/16/2019 9:59:29 AM



#84
1,4-Dichlorobenzene
Concen: 4.436 ug/l
RT: 13.36 min Scan# 3604
Delta R.T. 0.00 min
Lab File: VN056684.D
Acq: 12 Jul 2019 12:29

Tgt Ion	Ratio	Lower	Upper
146	100		
111	37.9	17.8	53.4
148	65.8	31.9	95.5





#85

n-Butylbenzene

Concen: 4.292 ug/l

RT: 13.61 min Scan# 3682

Delta R.T. 0.00 min

Lab File: VN056684.D

Acq: 12 Jul 2019 12:29

Instrument :

MSVOA_N

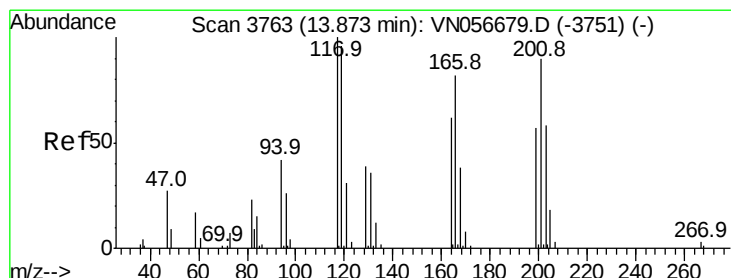
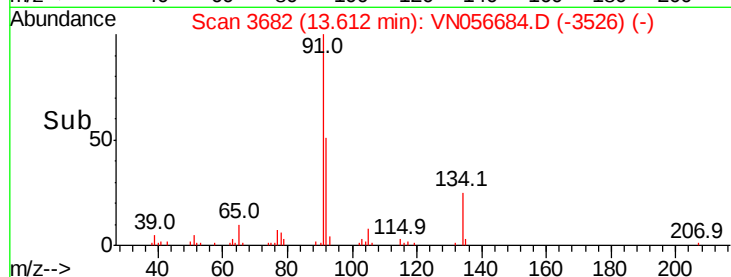
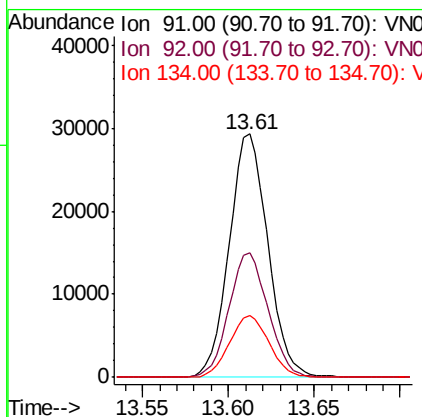
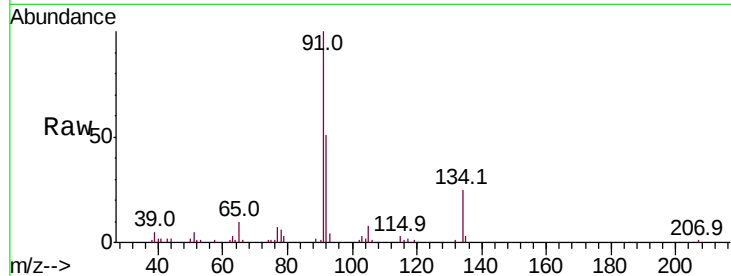
ClientSampleId :

VSTDIC005

Tot Ion:	91	Resp:	45819
Ion	Ratio	Lower	Upper
91	100		
92	51.7	0.0	104.0
134	25.8	0.0	53.2

Manual Integrations
APPROVED

MMDadoda
7/16/2019 9:59:29 AM



#86

Hexachloroethane

Concen: 4.541 ug/l

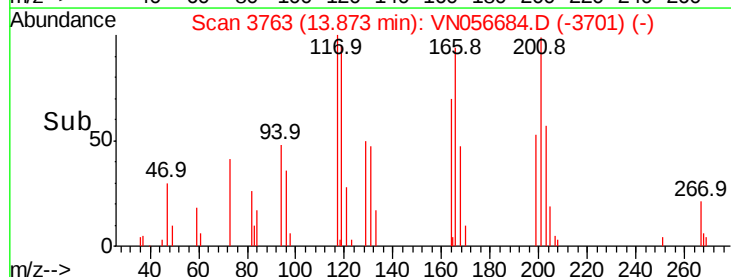
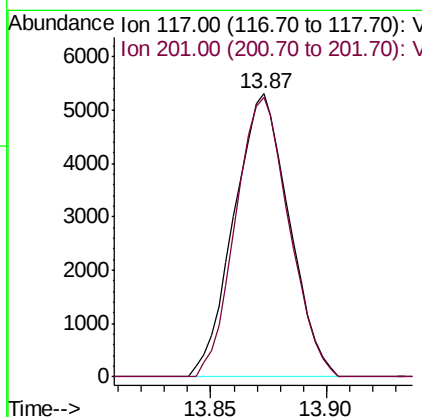
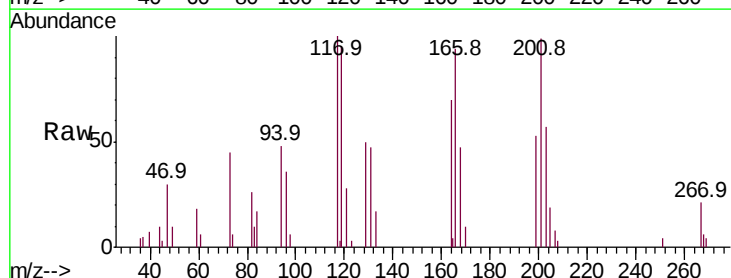
RT: 13.87 min Scan# 3763

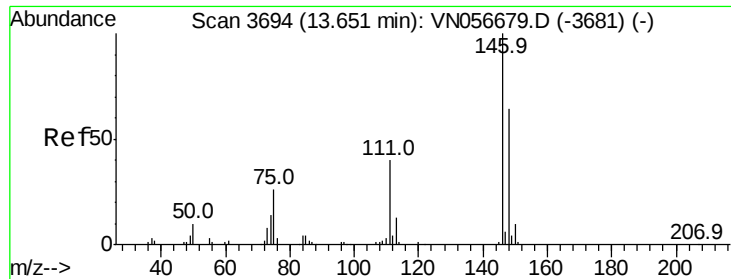
Delta R.T. 0.00 min

Lab File: VN056684.D

Acq: 12 Jul 2019 12:29

Tgt Ion:	117	Resp:	8809
Ion	Ratio	Lower	Upper
117	100		
201	95.0	45.6	136.7





#87

1,2-Dichlorobenzene

Concen: 5.009 ug/l

RT: 13.65 min Scan# 3694

Delta R.T. 0.00 min

Lab File: VN056684.D

Acq: 12 Jul 2019 12:29

Instrument :

MSVOA_N

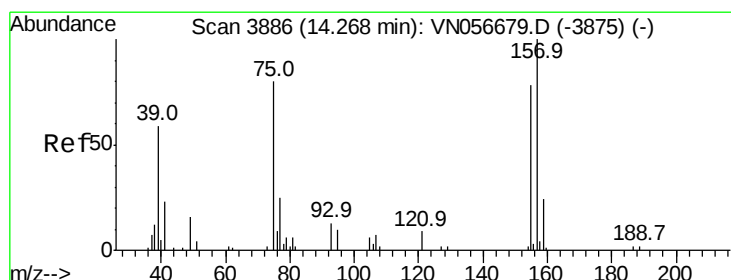
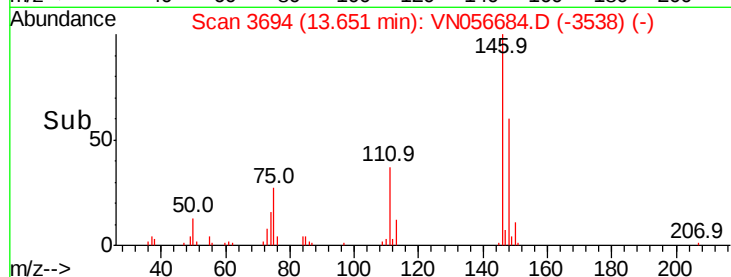
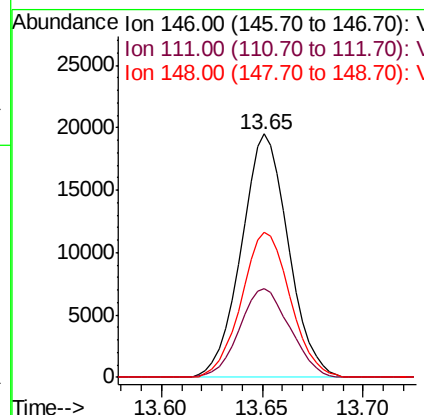
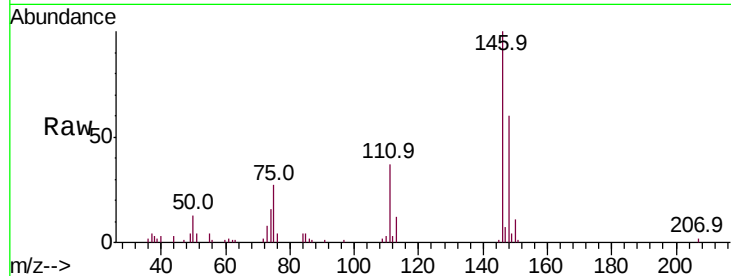
ClientSampleId :

VSTDIC005

Tot Ion:	146	Resp:	31843
Ion Ratio	Lower	Upper	
146	100		
111	38.9	19.7	59.0
148	61.8	32.7	98.1

Manual Integrations
APPROVED

MMDadoda
7/16/2019 9:59:29 AM



#88

1,2-Dibromo-3-Chloropropane

Concen: 4.243 ug/l

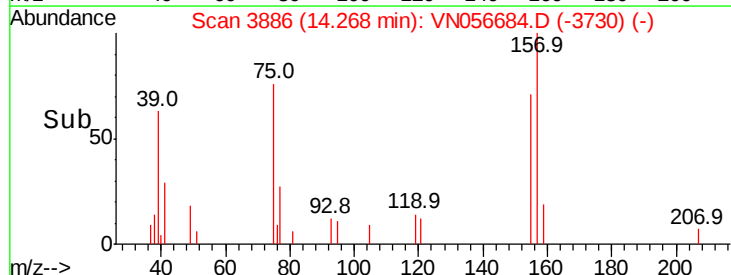
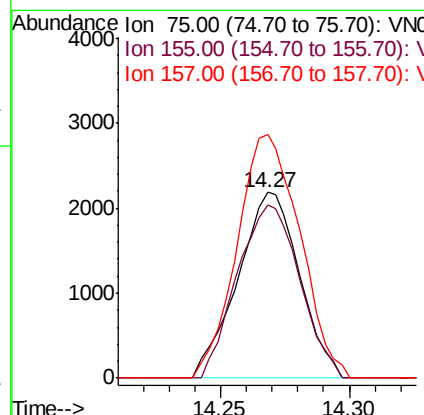
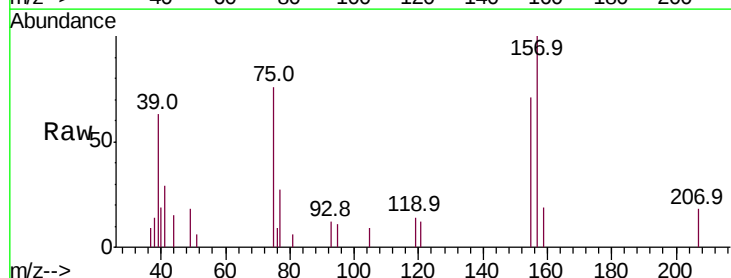
RT: 14.27 min Scan# 3886

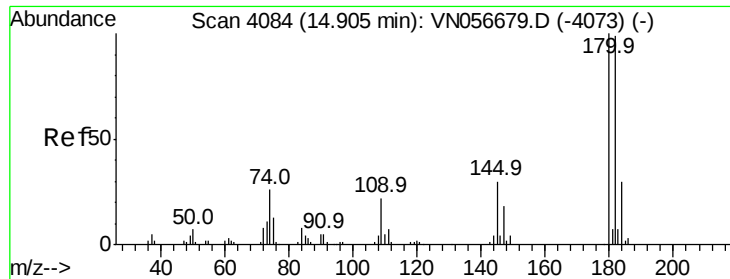
Delta R.T. 0.00 min

Lab File: VN056684.D

Acq: 12 Jul 2019 12:29

Tgt Ion:	75	Resp:	3644
Ion Ratio	Lower	Upper	
75	100		
155	94.4	78.6	117.8
157	133.6	99.3	148.9





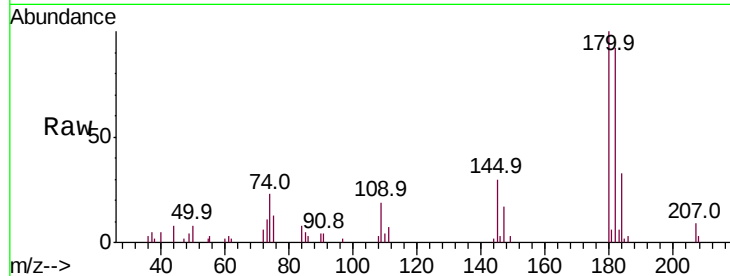
#89
1,2,4-Trichlorobenzene
Concen: 4.037 ug/l
RT: 14.91 min Scan# 4085
Delta R.T. 0.00 min
Lab File: VN056684.D
Acq: 12 Jul 2019 12:29

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.8	78.2	117.4
145	28.6	23.2	34.8

Manual Integrations
APPROVED

MMDadoda
7/16/2019 9:59:29 AM

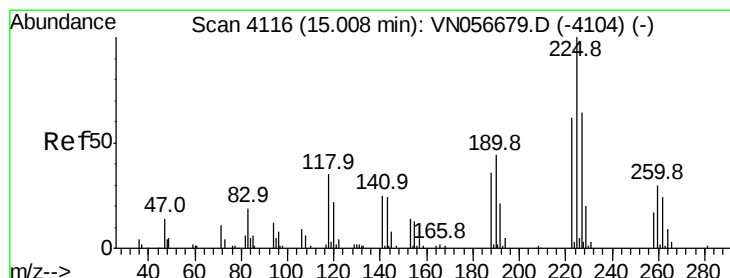
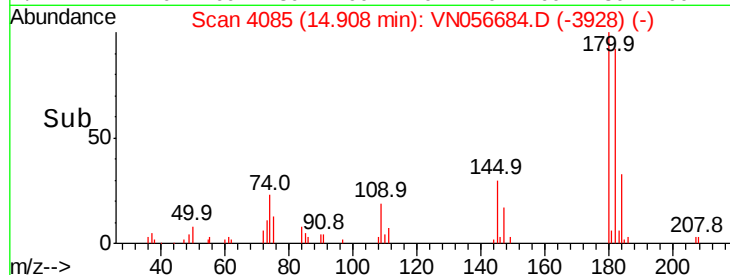
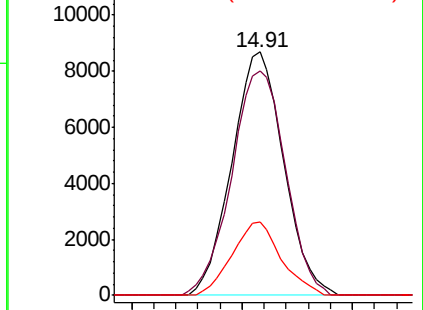


Abundance

Ion 180.00 (179.70 to 180.70): V

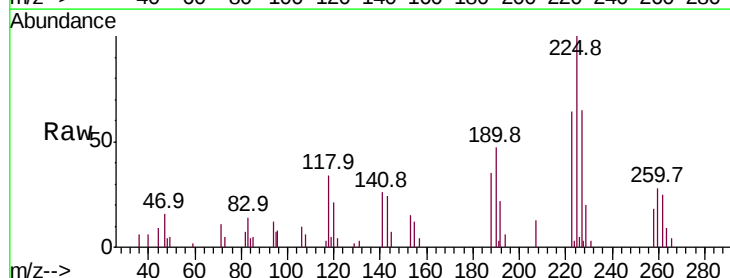
Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V



#90
Hexachlorobutadiene
Concen: 5.687 ug/l
RT: 15.01 min Scan# 4116
Delta R.T. 0.00 min
Lab File: VN056684.D
Acq: 12 Jul 2019 12:29

Tgt Ion	Ratio	Lower	Upper
225	100		
223	59.8	0.0	124.6
227	59.6	0.0	128.6

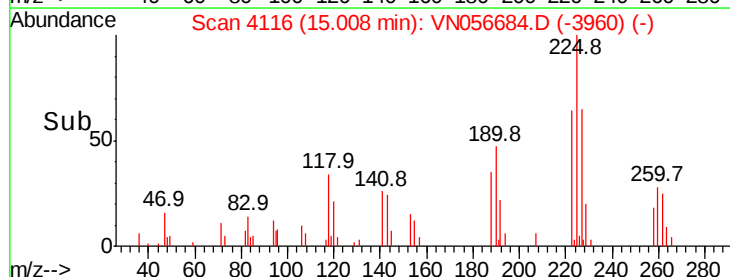
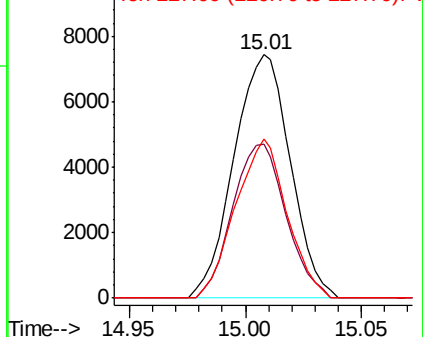


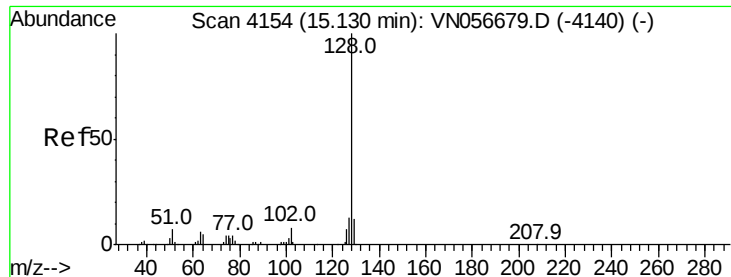
Abundance

Ion 225.00 (224.70 to 225.70): V

Ion 223.00 (222.70 to 223.70): V

Ion 227.00 (226.70 to 227.70): V





#91

Naphthalene

Concen: 3.546 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN056684.D

Acq: 12 Jul 2019 12:29

Instrument :

MSVOA_N

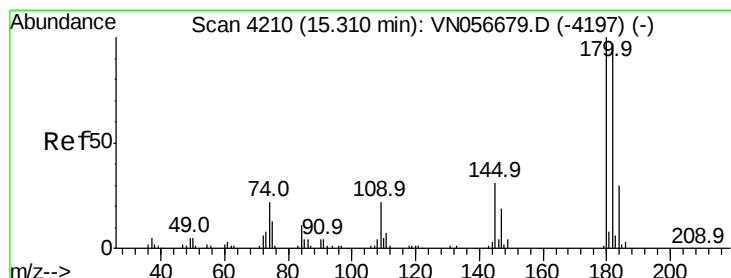
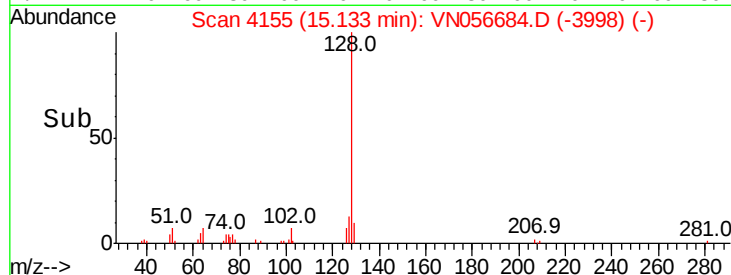
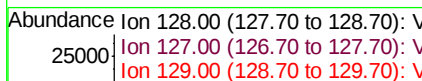
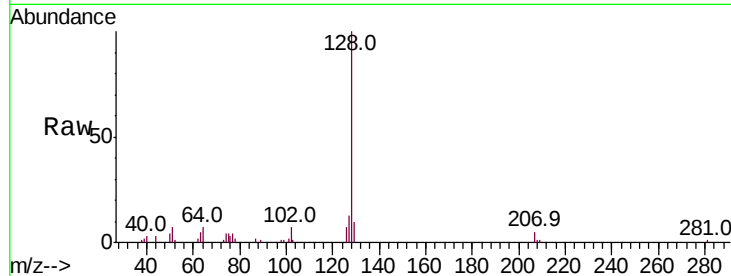
ClientSampleId :

VSTDIC005

Tot Ion:128	Resp:	34219
Ion Ratio	Lower	Upper
128	100	
127	12.6	10.4 15.6
129	10.6	8.8 13.2

Manual Integrations
APPROVED

MMDadoda
7/16/2019 9:59:29 AM



#92

1,2,3-Trichlorobenzene

Concen: 4.640 ug/l

RT: 15.31 min Scan# 4210

Delta R.T. 0.00 min

Lab File: VN056684.D

Acq: 12 Jul 2019 12:29

Tgt Ion:180	Resp:	17023
Ion Ratio	Lower	Upper
180	100	
182	95.2	0.0 192.4
145	30.0	0.0 60.4

