

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL050619\
 Data File : VL033655.D
 Acq On : 6 May 2019 11:39
 Operator : SY/AP
 Sample : VSTDIC002
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Manual Integrations
 APPROVED

MMDadoda
 5/8/2019 12:05:52 PM

Quant Time: May 06 12:25:37 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL050619AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon May 0
 QLast Update : Mon May 06 12:00:34 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	1036504	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2576562	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2607405	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.57	95	2073527	9.96	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.60%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.08	85	542953	3.141 ppbv	99
3) Chlorodifluoromethane	3.01	51	337506	2.701 ppbv	93
4) Chloromethane	3.17	50	171703	2.494 ppbv	99
5) Vinyl Chloride	3.29	62	167577	2.340 ppbv	93
6) Bromomethane	3.52	94	103151	2.424 ppbv	100
7) Chloroethane	3.60	64	57874	2.419 ppbv	99
8) Dichlorotetrafluoroethane	3.22	85	442421	2.538 ppbv	98
9) Propene	3.04	41	123747	2.845 ppbv	97
10) Heptane	8.25	43	306892	2.317 ppbv	98
11) Trichlorofluoromethane	4.00	101	492281	2.559 ppbv	95
12) 1,1,2-Trichlorotrifluoroet	4.55	101	325889	2.467 ppbv	99
13) Ethanol	3.65	45	36849	2.293 ppbv	98
14) Bromoethene	3.79	108	130649	2.441 ppbv	98
15) Acetone	3.90	43	359597	2.756 ppbv	100
16) 1,3-Butadiene	3.36	39	148471	2.556 ppbv	99
17) tert-Butyl alcohol	4.36	59	236886	2.159 ppbv	97
18) 1,1-Dichloroethene	4.35	96	139976	2.441 ppbv	96
19) Isopropyl Alcohol	4.03	45	193218	2.217 ppbv #	96
20) Methylene Chloride	4.41	84	127451	2.497 ppbv	93
21) Allyl Chloride	4.48	41	199071	2.436 ppbv	98
22) trans-1,2-Dichloroethene	4.96	96	144956	2.561 ppbv	99
23) Vinyl Acetate	5.15	43	442043	2.338 ppbv	99
24) 1,1-Dichloroethane	5.09	63	322739	2.282 ppbv	97
25) Ethyl Acetate	5.77	43	535947	2.221 ppbv	99
26) Hexane	5.78	57	232416	2.277 ppbv	96
27) Carbon Disulfide	4.62	76	325559	2.568 ppbv	99
28) Methyl tert-Butyl Ether	5.11	73	407580	2.376 ppbv	100
29) Chloroform	5.85	83	410756	2.200 ppbv	96
30) Cyclohexane	7.25	84	200997	2.322 ppbv	87
31) cis-1,2-Dichloroethene	5.64	61	239438	2.328 ppbv	99
32) 1,1,1-Trichloroethane	6.62	97	416968	2.131 ppbv	98
34) 2-Butanone	5.33	43	358449	2.249 ppbv	100
35) Carbon Tetrachloride	7.13	117	452084	2.186 ppbv	98
36) Benzene	7.00	78	488792	2.191 ppbv	98
37) 1,2-Dichloroethane	6.41	62	314751	2.125 ppbv	99
38) Trichloroethene	7.96	130	199994	2.257 ppbv	93
39) 1,2-Dichloropropane	7.73	63	184311	2.204 ppbv	97
40) 1,4-Dioxane	7.97	88	65200	1.942 ppbv	66
41) Tetrahydrofuran	6.16	42	195508	2.286 ppbv	99
42) Bromodichloromethane	7.91	83	435996	2.172 ppbv	99
43) Methyl Methacrylate	8.13	69	185436	2.204 ppbv	99

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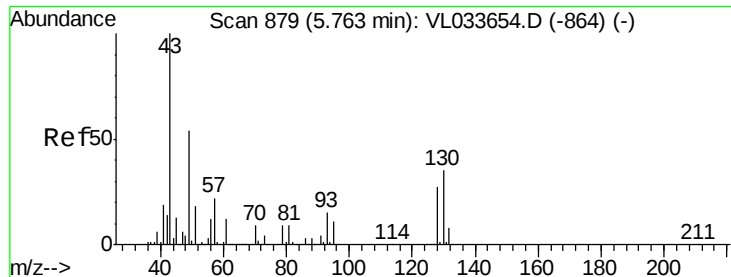
Manual Integrations
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Quant Time: May 06 12:25:37 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL050619AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon May 0
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.98	57	863904	2.228	ppbv	99
45) t-1,3-Dichloropropene	9.41	75	222905	2.053	ppbv	96
46) cis-1,3-Dichloropropene	8.83	75	261261	2.080	ppbv	97
47) 1,1,2-Trichloroethane	9.61	97	211438	2.138	ppbv	96
48) Dibromochloromethane	10.44	129	351348	2.116	ppbv	99
49) Bromoform	13.20	173	309305	2.171	ppbv	99
50) 4-Methyl-2-Pentanone	8.87	43	537311	2.150	ppbv	98
51) 2-Hexanone	10.27	43	420096	2.141	ppbv #	98
52) Tetrachloroethene	11.37	164	181550	2.148	ppbv	96
53) Toluene	9.94	91	545267	2.166	ppbv	99
54) 1,2-Dibromoethane	10.75	107	308367	2.087	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.27	131	255132	2.235	ppbv #	1
57) Chlorobenzene	12.29	112	456750	2.246	ppbv #	97
58) Ethyl Benzene	12.86	91	757846	2.315	ppbv	99
59) m/p-Xylene	13.15	91	1347953m	4.784	ppbv	
60) o-Xylene	13.84	91	677435	2.387	ppbv	98
61) Styrene	13.68	104	454374	2.334	ppbv	98
62) Isopropylbenzene	14.82	105	891623	2.357	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.83	83	482826	2.248	ppbv	99
64) n-propylbenzene	15.72	120	231935	2.358	ppbv	96
65) tert-Butylbenzene	16.90	119	835117	2.359	ppbv	97
66) Benzyl Chloride	17.15	91	358528	2.196	ppbv	100
67) sec-Butylbenzene	17.45	105	1185259	2.388	ppbv	99
69) p-Isopropyltoluene	17.81	119	978842	2.369	ppbv	99
70) n-Butylbenzene	18.71	91	1048430	2.328	ppbv	99
71) 2-Chlorotoluene	15.61	91	676054	2.382	ppbv	99
72) 4-Ethyltoluene	15.99	105	774454	2.384	ppbv	99
73) 1,3,5-Trimethylbenzene	16.15	105	752282	2.364	ppbv	100
74) 1,2,4-Trimethylbenzene	16.92	105	833156	2.360	ppbv	97
75) 1,3-Dichlorobenzene	17.16	146	500603	2.286	ppbv	99
76) 1,4-Dichlorobenzene	17.30	146	478176	2.289	ppbv	100
77) 1,2-Dichlorobenzene	17.98	146	459732	2.254	ppbv	99
78) Hexachloro-1,3-Butadiene	23.53	225	351903m	2.261	ppbv	
79) Naphthalene	22.41	128	764403	2.320	ppbv	97
80) Naphthalene, 2-methyl-	25.11	142	270388	1.934	ppbv	99
81) 1,2,4-Trichlorobenzene	22.13	180	440542m	2.321	ppbv	

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 878

Delta R.T. -0.00 min

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Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 49 Resp: 1036504

Ion Ratio Lower Upper

49 100

128 50.0 24.8 74.4

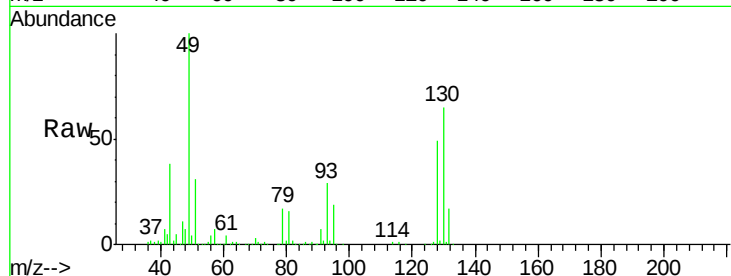
130 64.2 32.1 96.5

Manual Integrations

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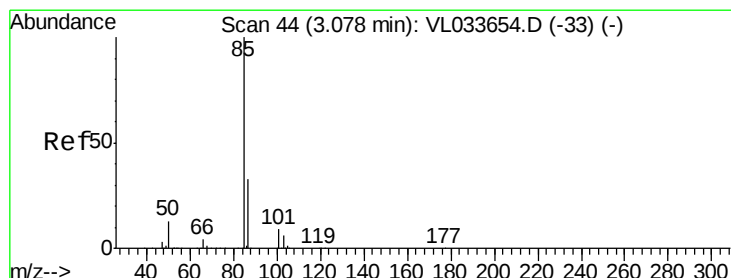
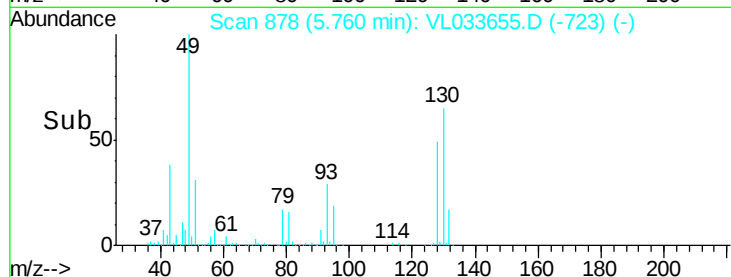
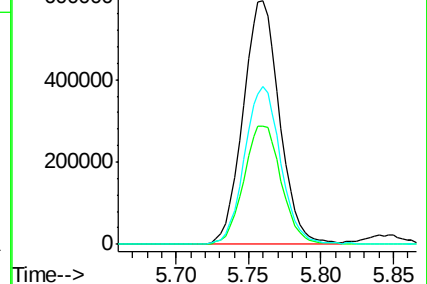
5/8/2019 12:05:52 PM



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 3.141 ppbv

RT: 3.08 min Scan# 44

Delta R.T. 0.00 min

Lab File: VL033655.D

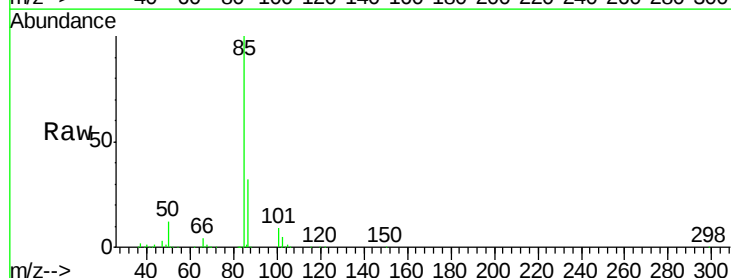
Acq: 6 May 2019 11:39

Tgt Ion: 85 Resp: 542953

Ion Ratio Lower Upper

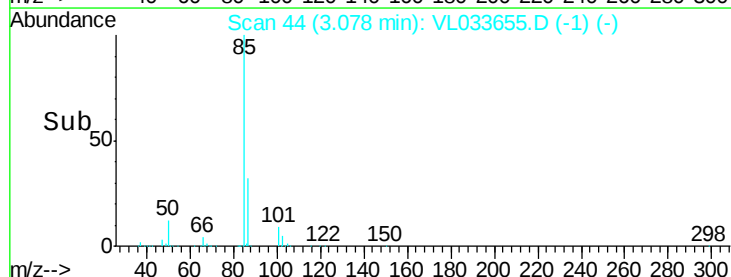
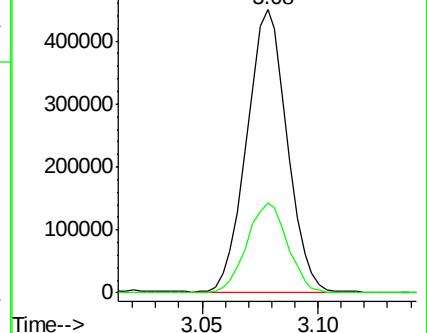
85 100

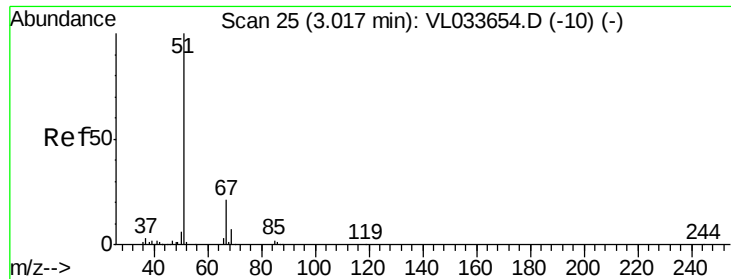
87 31.9 26.0 39.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 2.701 ppbv

RT: 3.01 min Scan# 24

Delta R.T. -0.00 min

Lab File: VL033655.D

Acq: 6 May 2019 11:39

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 51 Resp: 337506

Ion Ratio Lower Upper

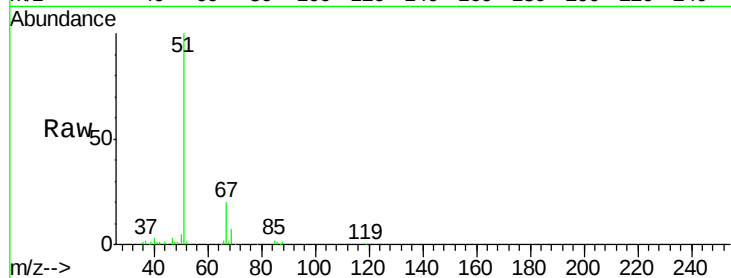
51 100

67 16.6 15.7 23.5

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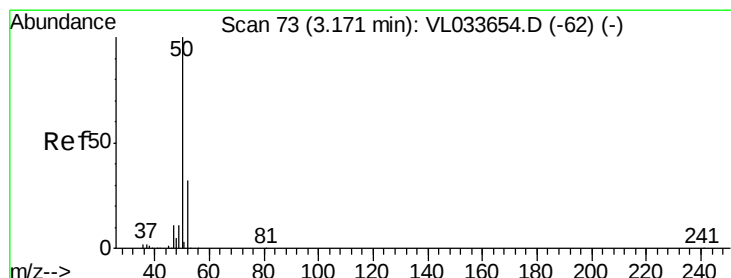
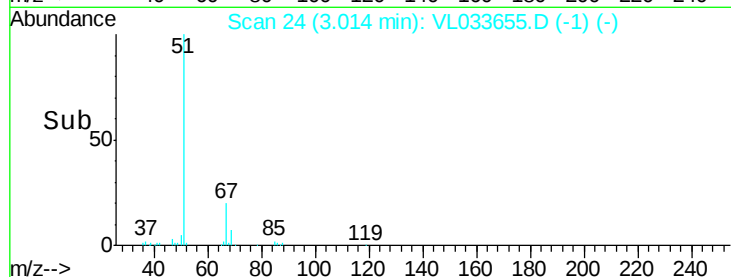
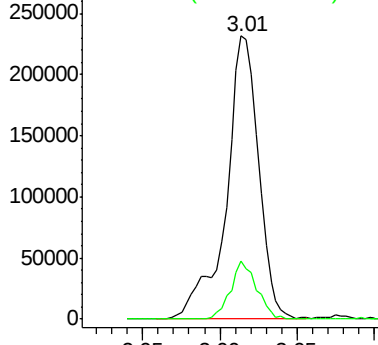
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5/8/2019 12:05:52 PM



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 2.494 ppbv

RT: 3.17 min Scan# 73

Delta R.T. 0.00 min

Lab File: VL033655.D

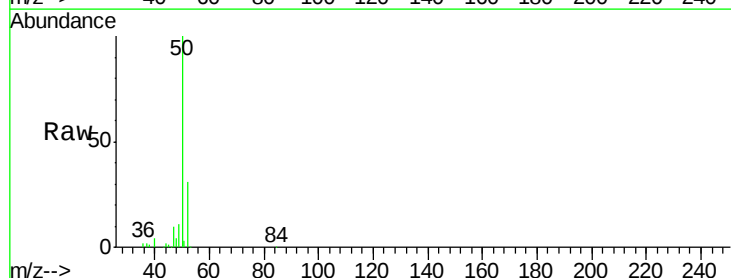
Acq: 6 May 2019 11:39

Tgt Ion: 50 Resp: 171703

Ion Ratio Lower Upper

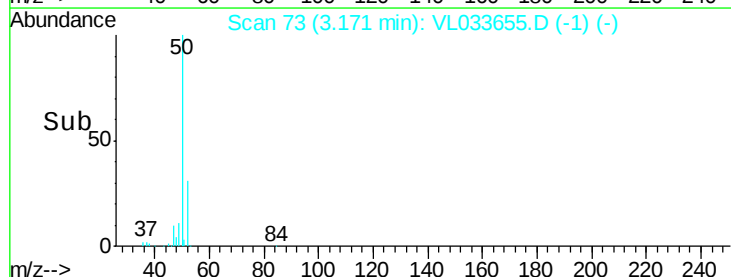
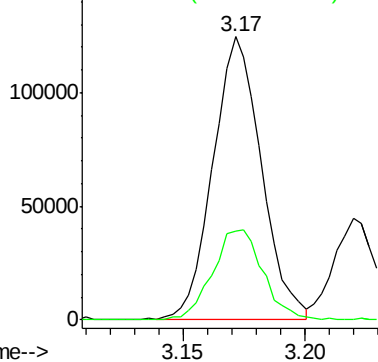
50 100

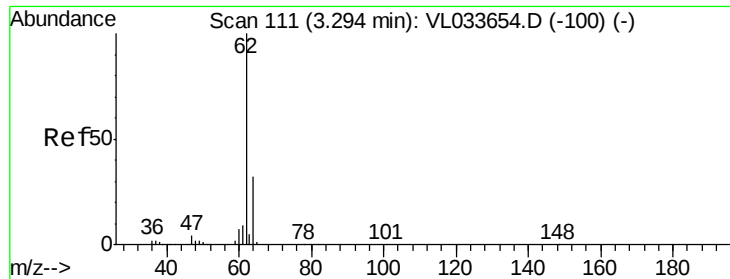
52 31.6 25.8 38.8



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 2.340 ppbv

RT: 3.29 min Scan# 110

Delta R.T. -0.00 min

Lab File: VL033655.D

Acq: 6 May 2019 11:39

Instrument :

MSVOA_L

ClientSampleID :

VSTDIC002

Tot Ion: 62 Resp: 167577

Ion Ratio Lower Upper

62 100

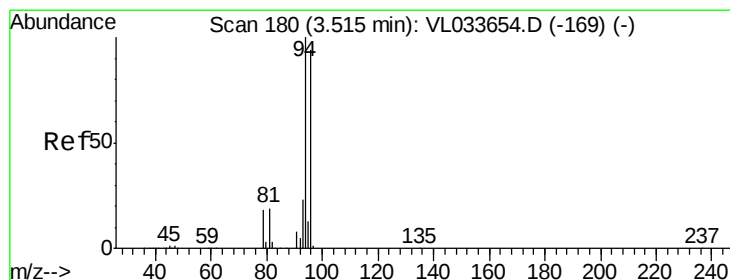
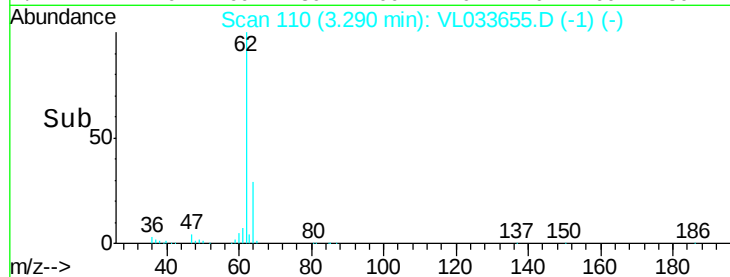
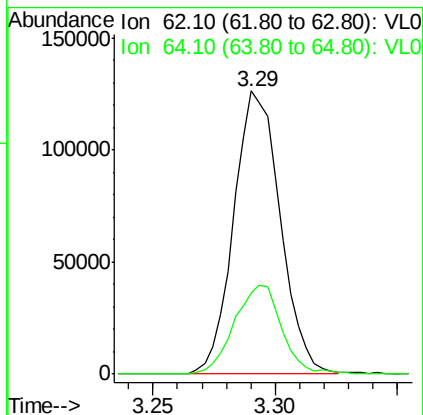
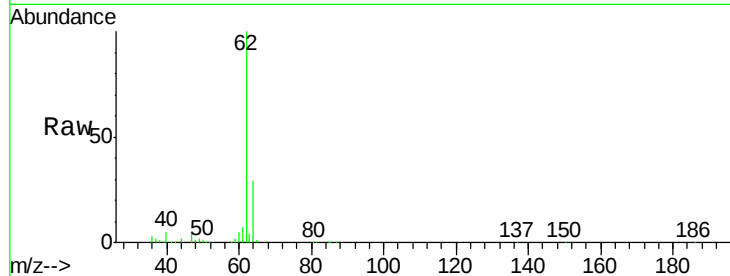
64 28.3 25.6 38.4

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#6

Bromomethane

Concen: 2.424 ppbv

RT: 3.52 min Scan# 180

Delta R.T. 0.00 min

Lab File: VL033655.D

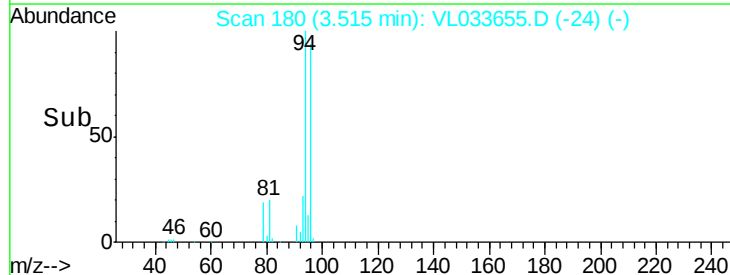
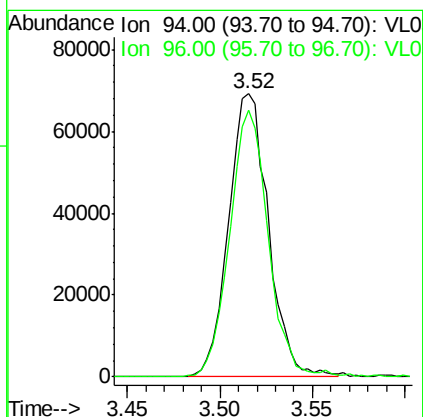
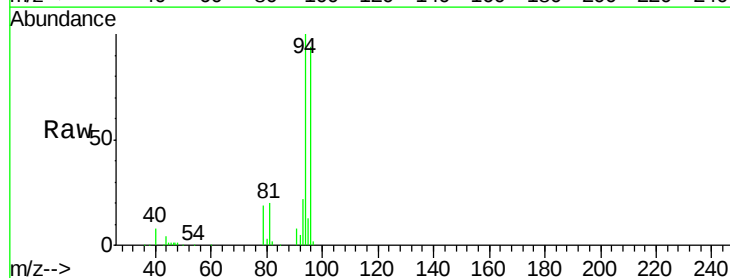
Acq: 6 May 2019 11:39

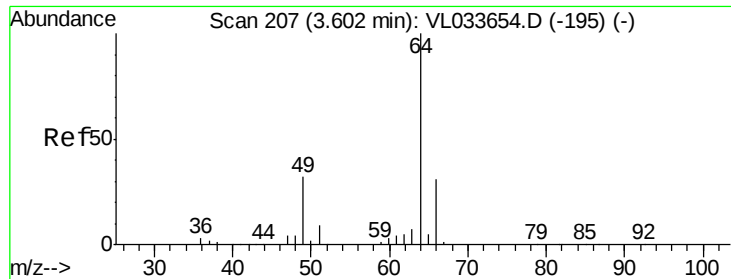
Tgt Ion: 94 Resp: 103151

Ion Ratio Lower Upper

94 100

96 93.5 75.2 112.8





#7

Chloroethane

Concen: 2.419 ppbv

RT: 3.60 min Scan# 207

Delta R.T. 0.00 min

Lab File: VL033655.D

Acq: 6 May 2019 11:39

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 64 Resp: 57874

Ion Ratio Lower Upper

64 100

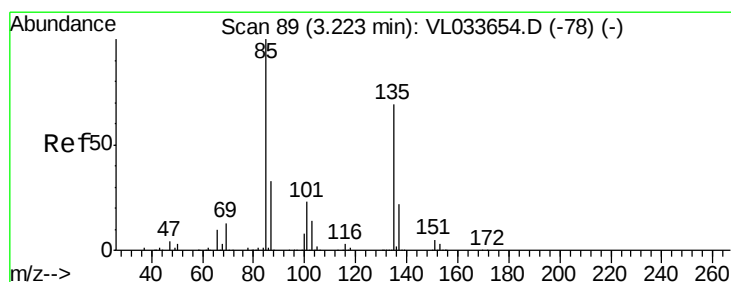
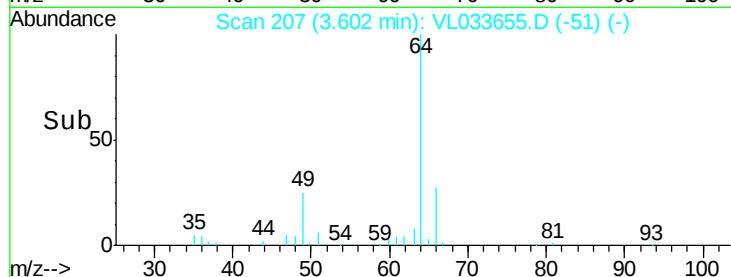
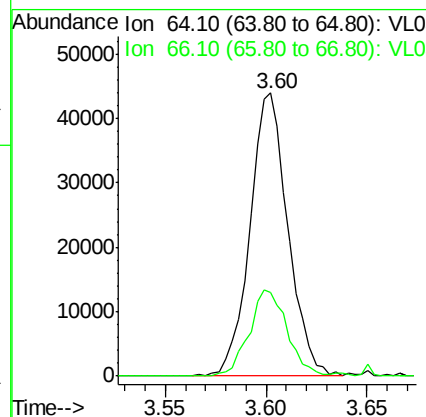
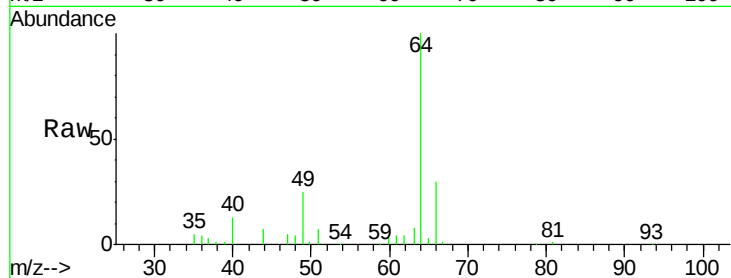
66 31.0 25.1 37.7

Manual Integrations

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5/8/2019 12:05:52 PM



#8

Dichlorotetrafluoroethane

Concen: 2.538 ppbv

RT: 3.22 min Scan# 88

Delta R.T. -0.00 min

Lab File: VL033655.D

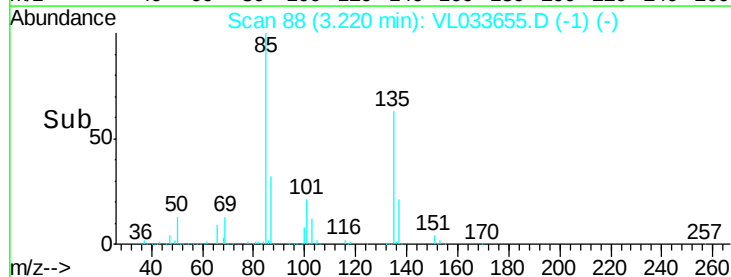
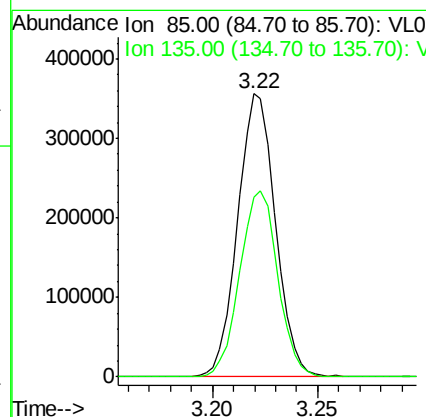
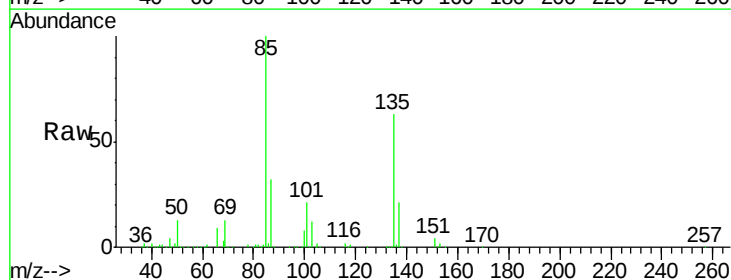
Acq: 6 May 2019 11:39

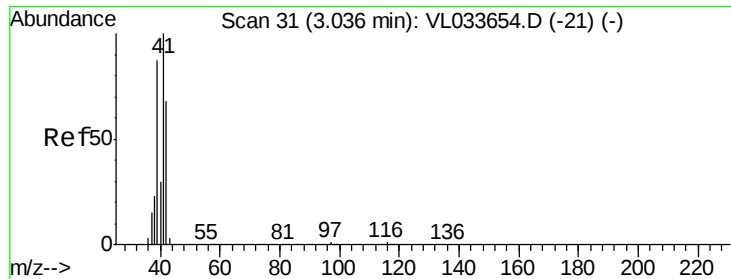
Tgt Ion: 85 Resp: 442421

Ion Ratio Lower Upper

85 100

135 66.6 54.3 81.5





#9

Propene

Concen: 2.845 ppbv

RT: 3.04 min Scan# 32

Delta R.T. 0.00 min

Lab File: VL033655.D

Acq: 6 May 2019 11:39

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 41 Resp: 123747

Ion Ratio Lower Upper

41 100

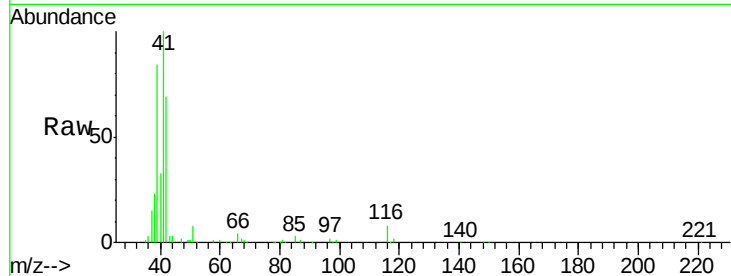
42 72.1 55.6 83.4

Manual Integrations

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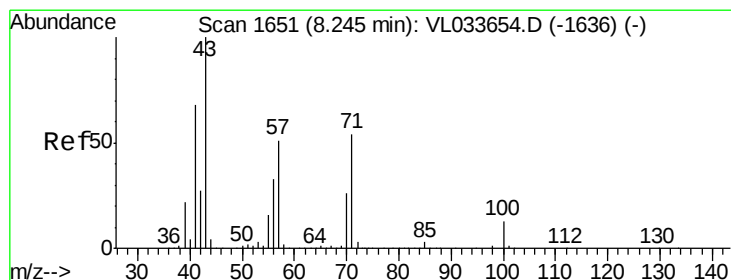
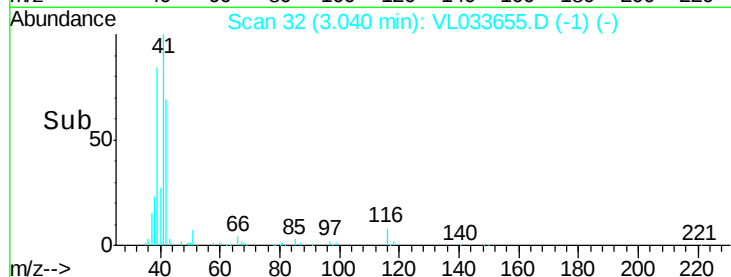
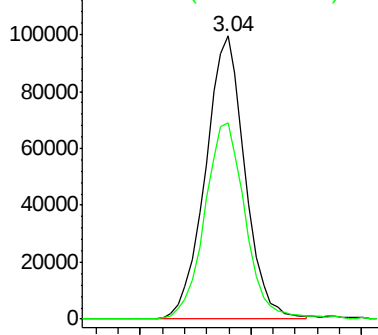
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5/8/2019 12:05:52 PM



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#10

Heptane

Concen: 2.317 ppbv

RT: 8.25 min Scan# 1651

Delta R.T. 0.00 min

Lab File: VL033655.D

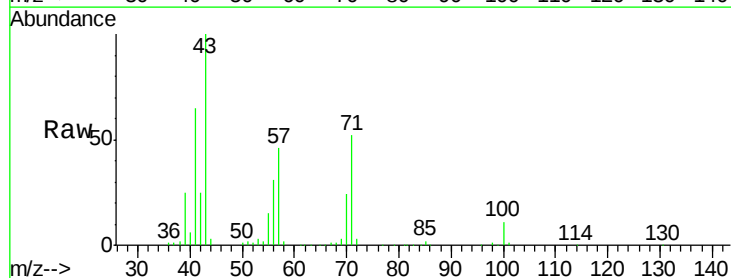
Acq: 6 May 2019 11:39

Tgt Ion: 43 Resp: 306892

Ion Ratio Lower Upper

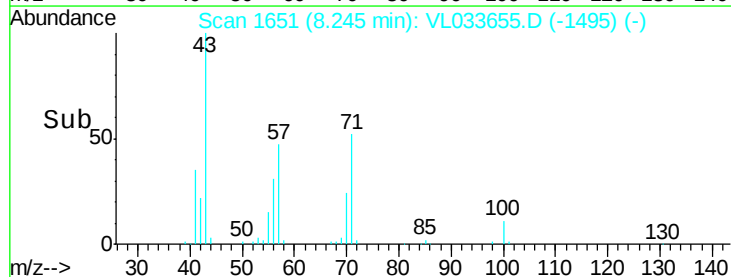
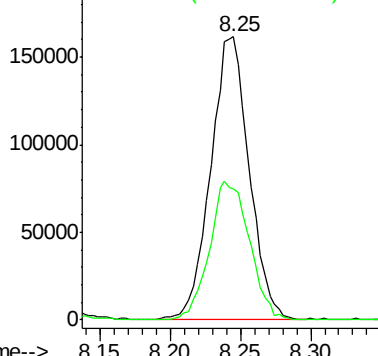
43 100

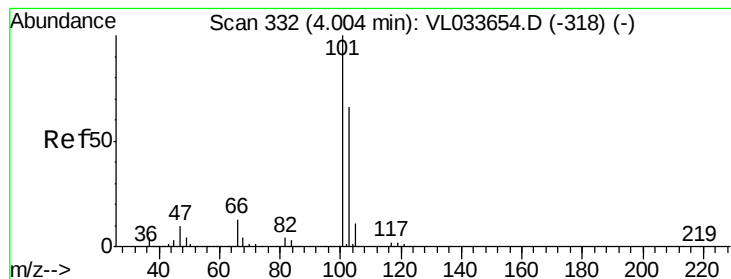
57 51.0 41.8 62.6



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#11

Trichlorofluoromethane

Concen: 2.559 ppbv

RT: 4.00 min Scan# 332

Delta R.T. 0.00 min

Lab File: VL033655.D

Acq: 6 May 2019 11:39

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion:101 Resp: 492281

Ion Ratio Lower Upper

101 100

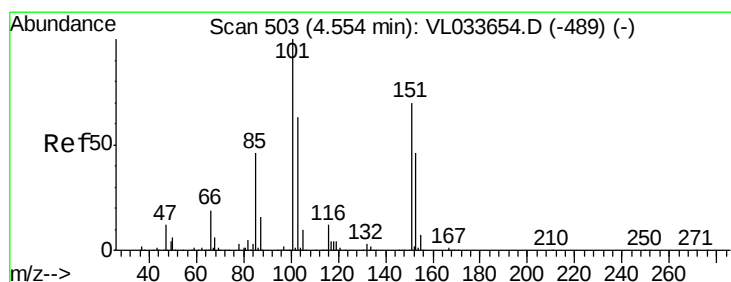
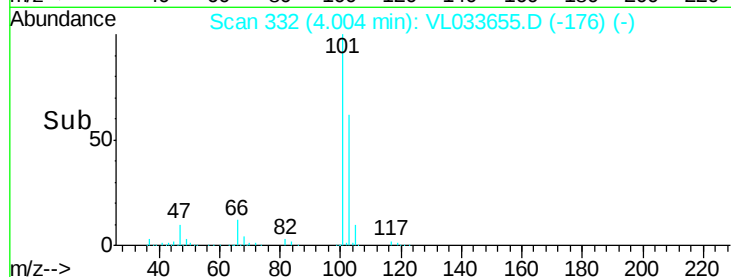
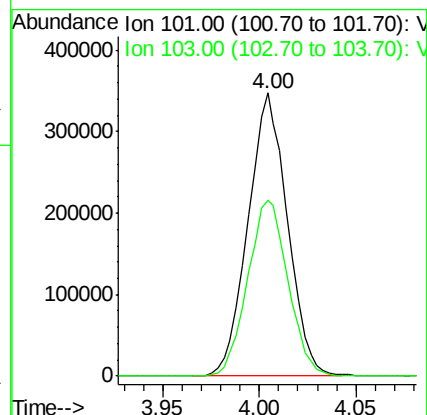
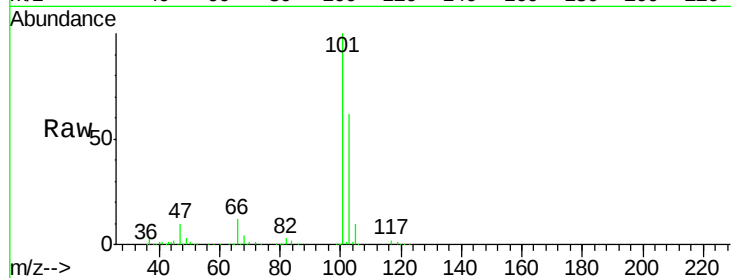
103 62.2 52.7 79.1

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#12

1,1,2-Trichlorotrifluoroethane

Concen: 2.467 ppbv

RT: 4.55 min Scan# 503

Delta R.T. 0.00 min

Lab File: VL033655.D

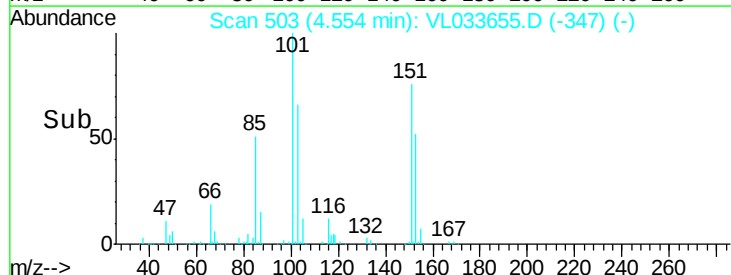
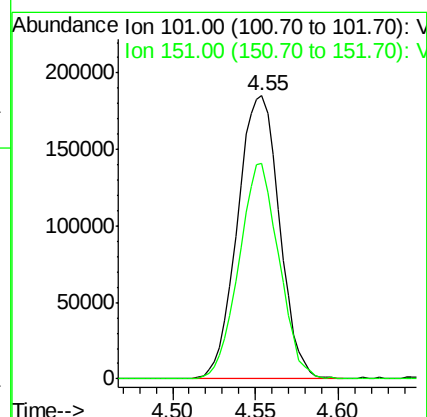
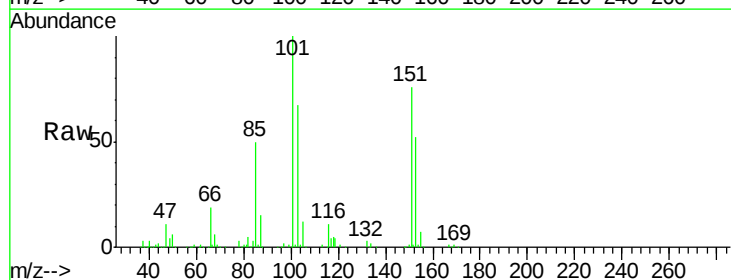
Acq: 6 May 2019 11:39

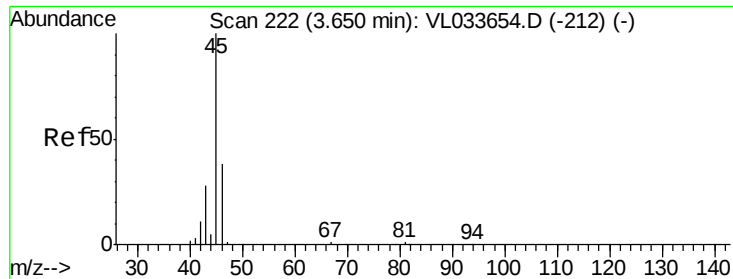
Tgt Ion:101 Resp: 325889

Ion Ratio Lower Upper

101 100

151 72.9 58.0 87.0





#13

Ethanol

Concen: 2.293 ppbv

RT: 3.65 min Scan# 223

Delta R.T. 0.00 min

Lab File: VL033655.D

Acq: 6 May 2019 11:39

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 45 Resp: 36849

Ion Ratio Lower Upper

45 100

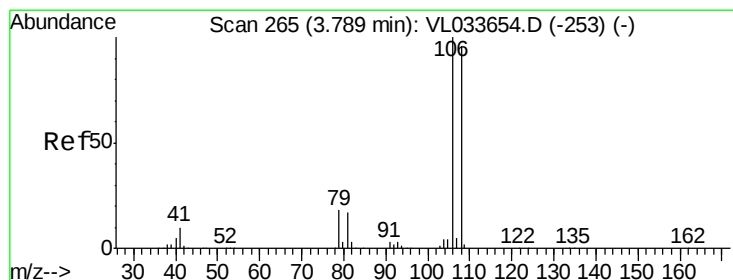
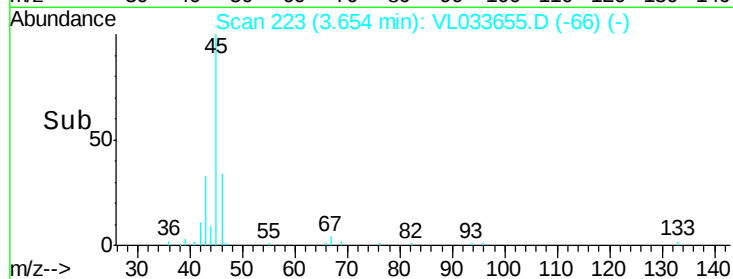
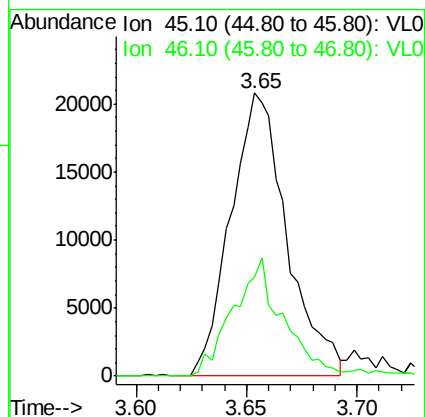
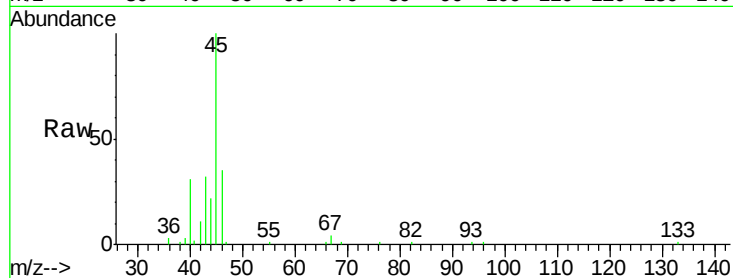
46 38.4 14.9 59.7

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#14

Bromoethene

Concen: 2.441 ppbv

RT: 3.79 min Scan# 265

Delta R.T. 0.00 min

Lab File: VL033655.D

Acq: 6 May 2019 11:39

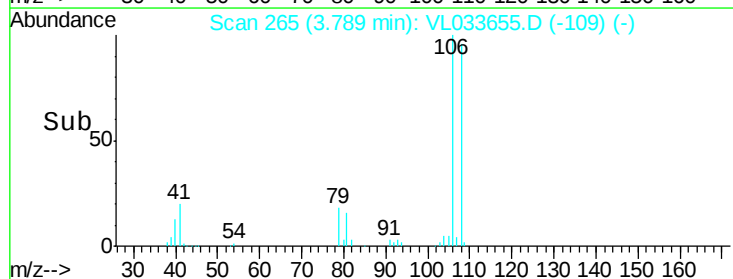
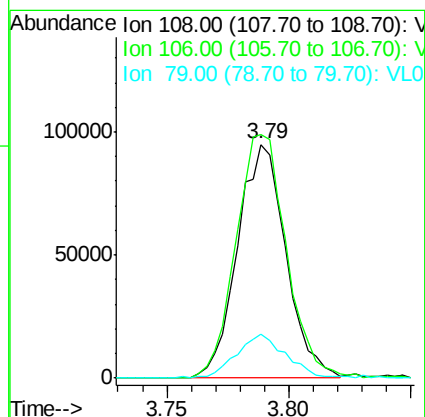
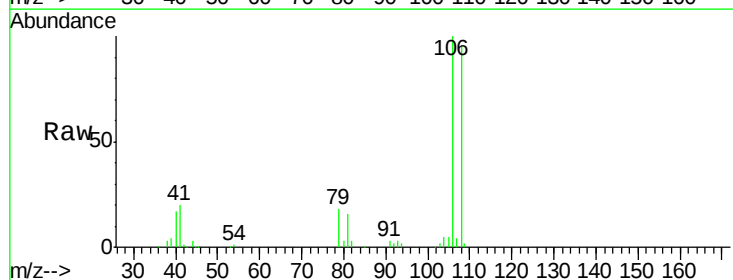
Tgt Ion: 108 Resp: 130649

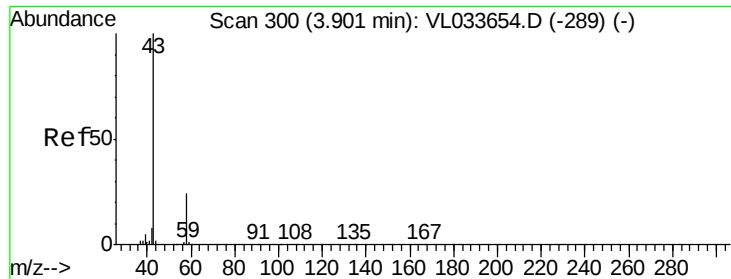
Ion Ratio Lower Upper

108 100

106 109.5 85.8 128.6

79 19.8 15.2 22.8





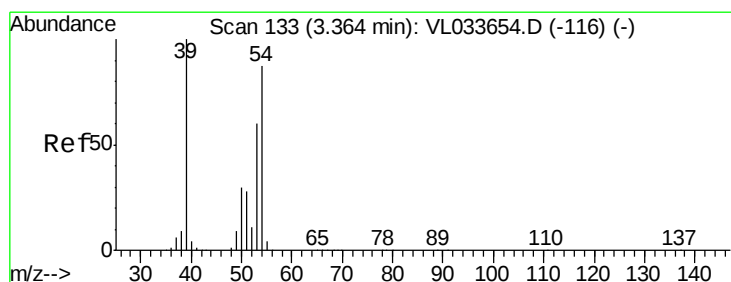
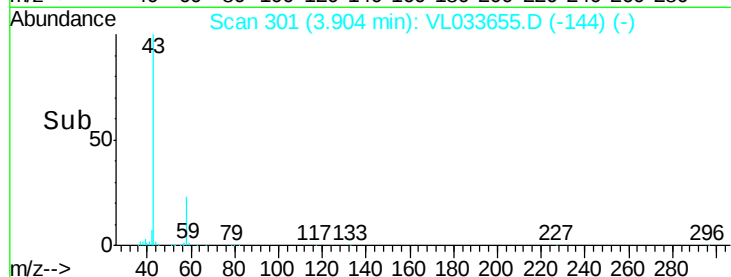
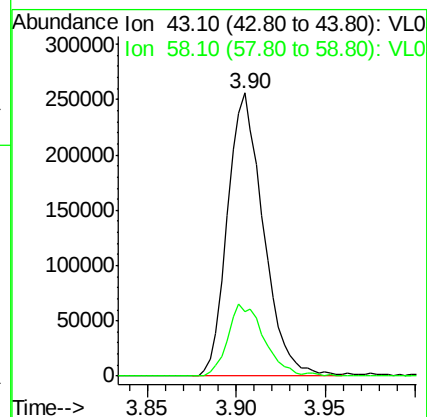
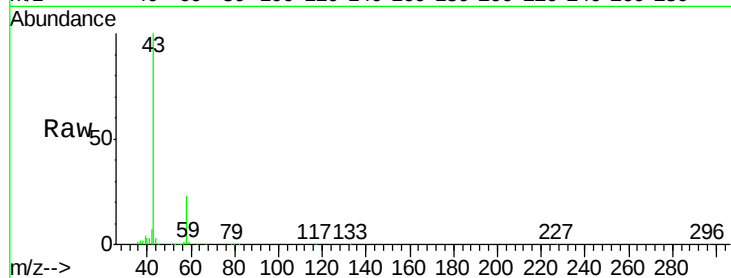
#15
Acetone
Concen: 2.756 ppbv
RT: 3.90 min Scan# 301
Delta R.T. 0.00 min
Lab File: VL033655.D
Acq: 6 May 2019 11:39

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	Ratio	Lower	Upper
43	100		
58	26.0	20.9	31.3

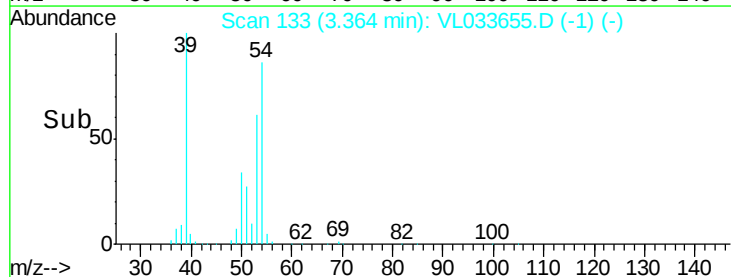
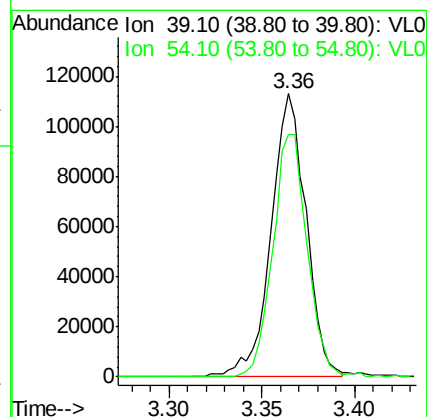
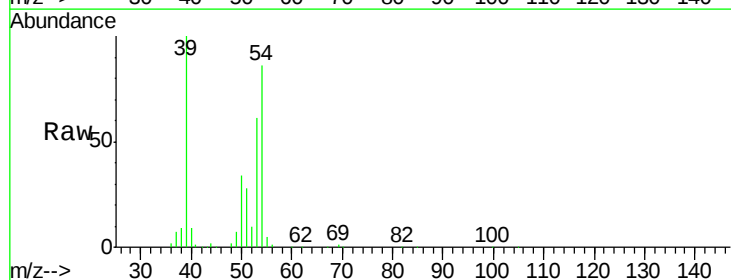
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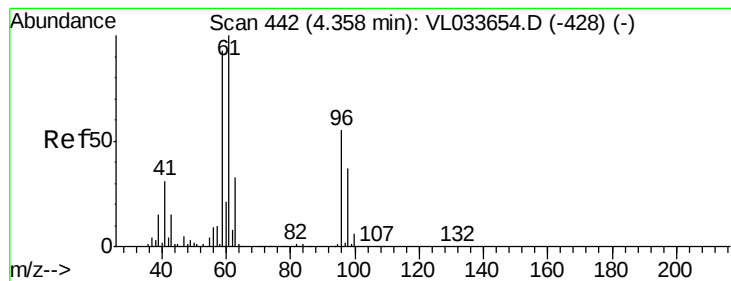
MMDadoda
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#16
1,3-Butadiene
Concen: 2.556 ppbv
RT: 3.36 min Scan# 133
Delta R.T. 0.00 min
Lab File: VL033655.D
Acq: 6 May 2019 11:39

Tgt Ion	Ratio	Lower	Upper
39	100		
54	84.9	67.0	100.4





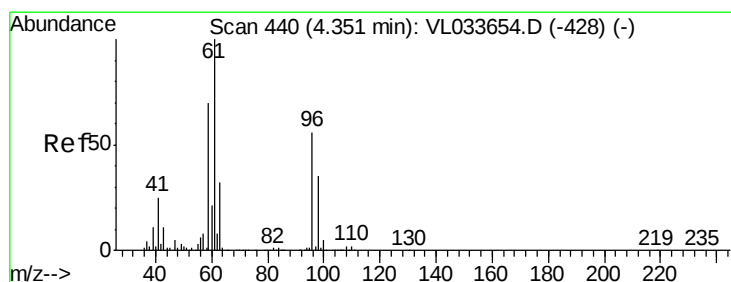
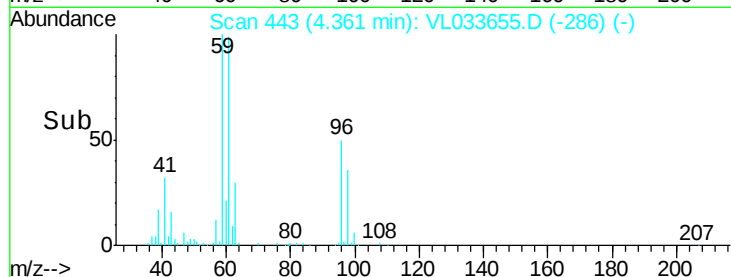
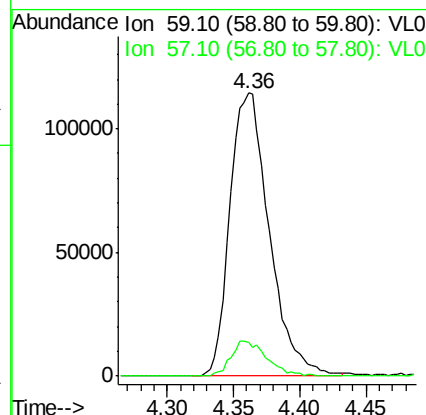
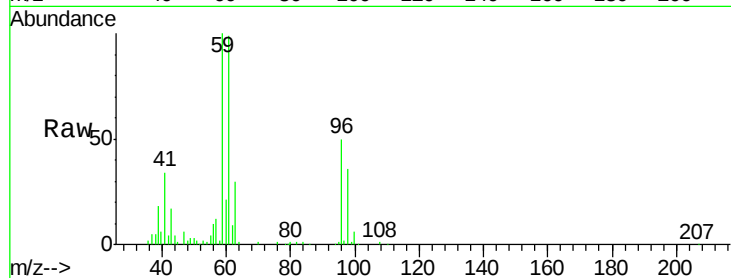
#17
tert-Butyl alcohol
Concen: 2.159 ppbv
RT: 4.36 min Scan# 443
Delta R.T. 0.00 min
Lab File: VL033655.D
Acq: 6 May 2019 11:39

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	59	Resp	236886
Ion Ratio	Lower	Upper	
59	100		
57	11.5	8.4	12.6

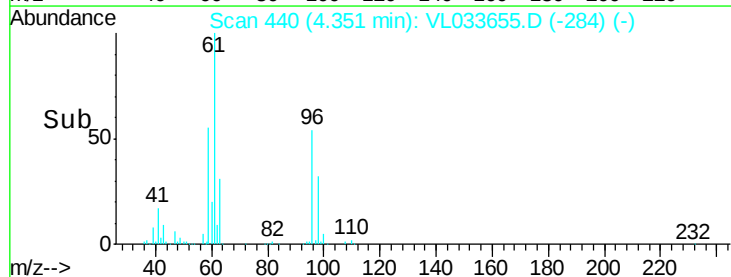
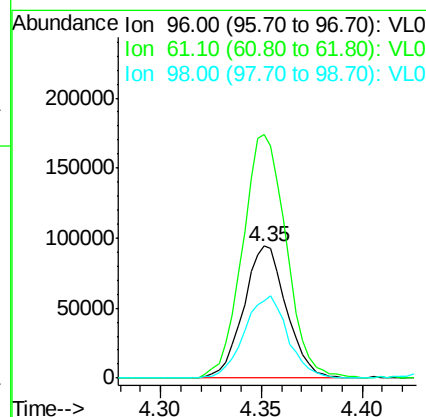
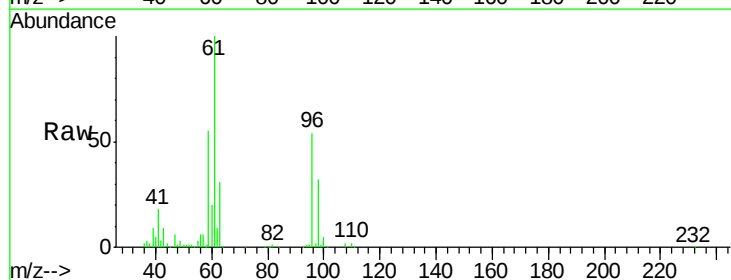
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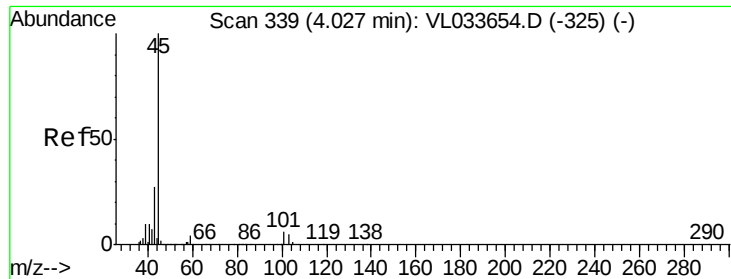
MMDadoda
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#18
1,1-Dichloroethene
Concen: 2.441 ppbv
RT: 4.35 min Scan# 440
Delta R.T. 0.00 min
Lab File: VL033655.D
Acq: 6 May 2019 11:39

Tgt Ion	96	Resp	139976
Ion Ratio	Lower	Upper	
96	100		
61	184.7	143.4	215.0
98	58.5	50.4	75.6





#19

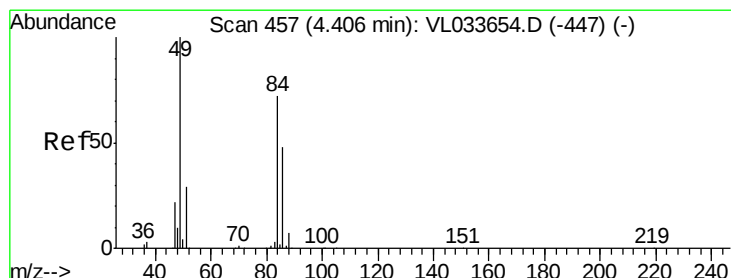
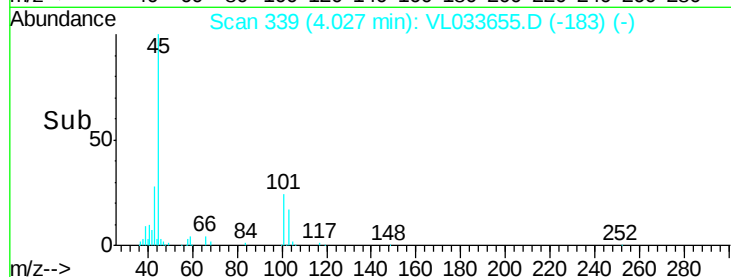
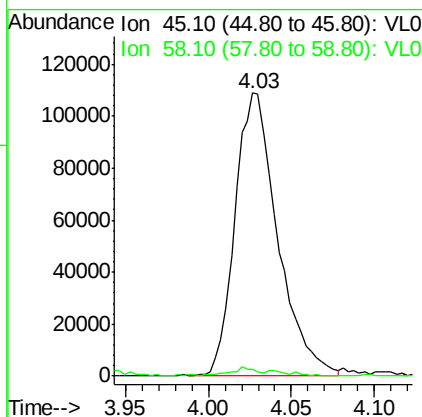
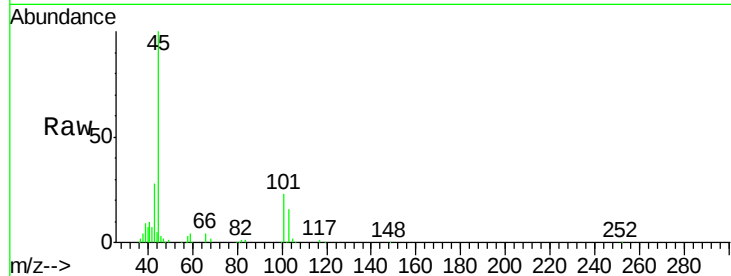
Isopropyl Alcohol
 Concen: 2.217 ppbv
 RT: 4.03 min Scan# 339
 Delta R.T. 0.00 min
 Lab File: VL033655.D
 Acq: 6 May 2019 11:39

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion	Ratio	Lower	Upper
45	100		
58	3.7	1.9	2.9#

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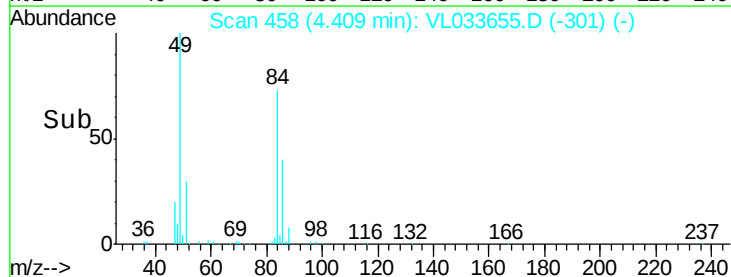
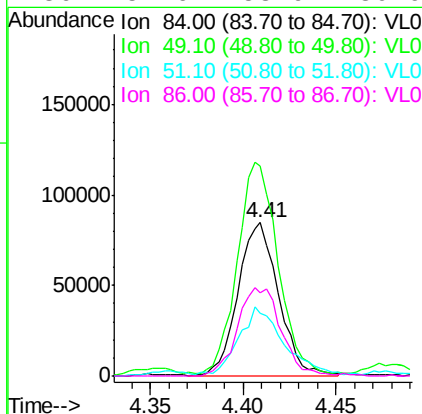
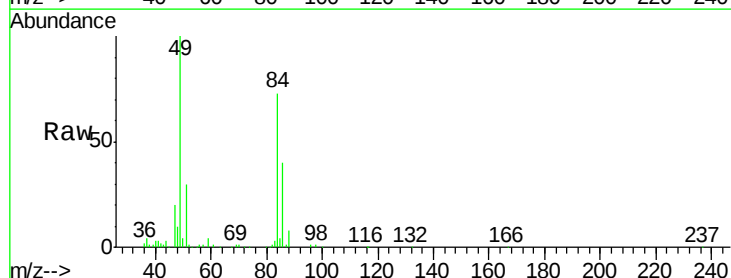
MMDadoda
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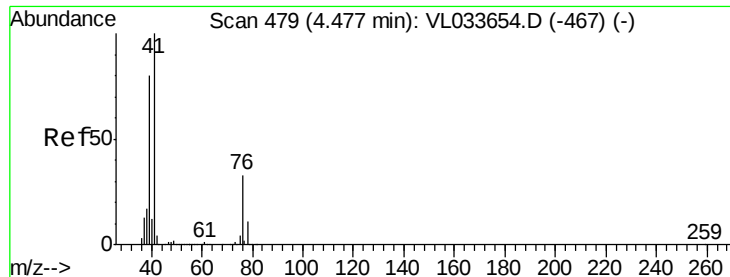


#20

Methylene Chloride
 Concen: 2.497 ppbv
 RT: 4.41 min Scan# 458
 Delta R.T. 0.00 min
 Lab File: VL033655.D
 Acq: 6 May 2019 11:39

Tgt Ion	Ratio	Lower	Upper
84	100		
49	135.3	111.8	167.6
51	39.5	32.3	48.5
86	54.6	53.9	80.9





#21

Allvl Chloride

Concen: 2.436 ppbv

RT: 4.48 min Scan# 479

Delta R.T. 0.00 min

Lab File: VL033655.D

Acq: 6 May 2019 11:39

Instrument :

MSVOA_L

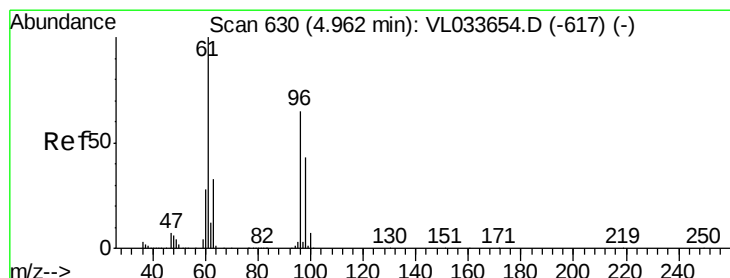
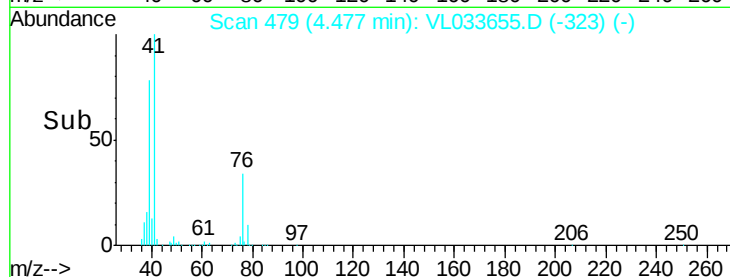
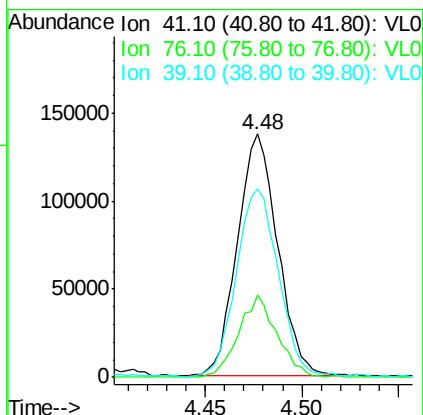
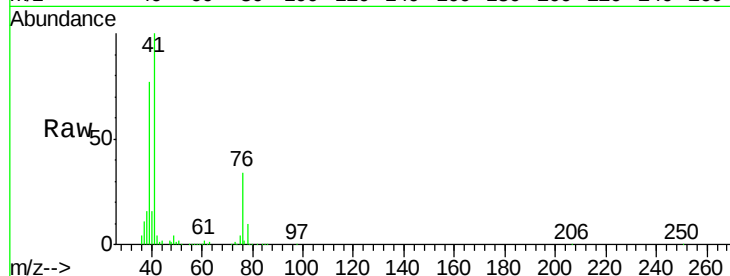
ClientSampleId :

VSTDIC002

Tot Ion:	41	Resp:	199071
Ion Ratio	Lower	Upper	
41	100		
76	32.7	26.0	39.0
39	83.1	64.4	96.6

Manual Integrations
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#22

trans-1,2-Dichloroethene

Concen: 2.561 ppbv

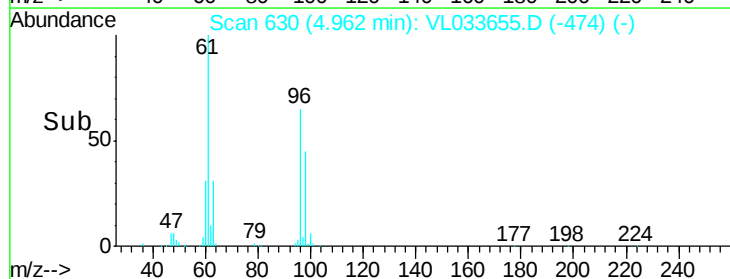
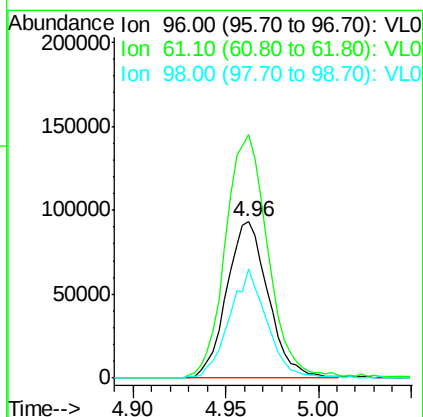
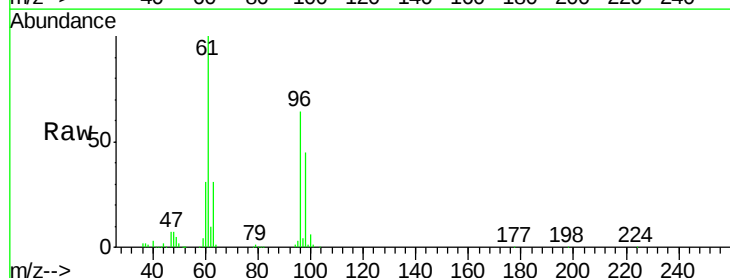
RT: 4.96 min Scan# 630

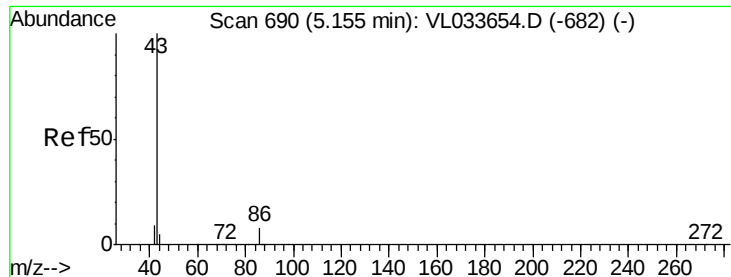
Delta R.T. 0.00 min

Lab File: VL033655.D

Acq: 6 May 2019 11:39

Tgt Ion:	96	Resp:	144956
Ion Ratio	Lower	Upper	
96	100		
61	154.1	123.1	184.7
98	68.9	52.6	79.0





#23

Vinyl Acetate

Concen: 2.338 ppbv

RT: 5.15 min Scan# 689

Delta R.T. -0.00 min

Lab File: VL033655.D

Acq: 6 May 2019 11:39

Instrument :

MSVOA_L

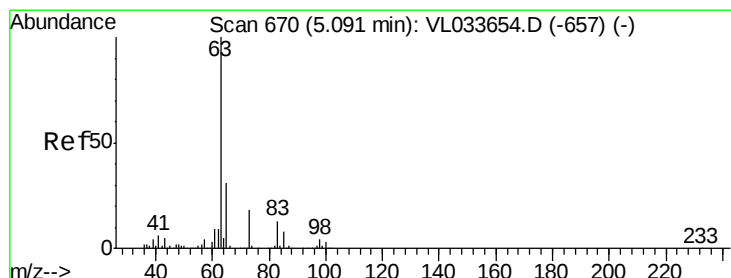
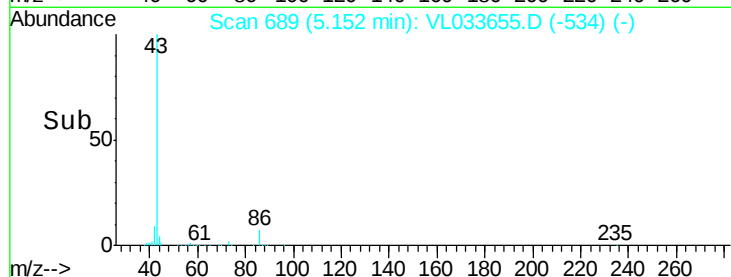
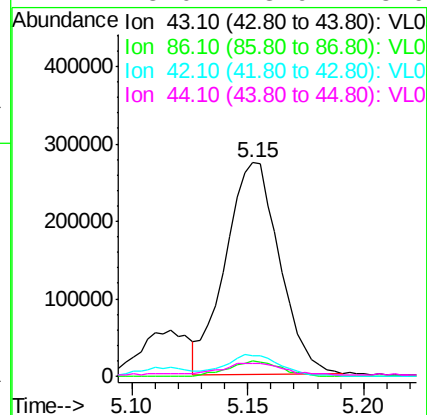
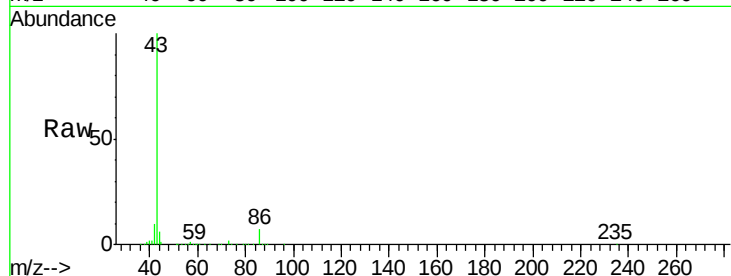
ClientSampleId :

VSTDIC002

Tot Ion:	43	Resp:	442043
Ion	Ratio	Lower	Upper
43	100		
86	7.2	6.0	9.0
42	9.4	8.0	12.0
44	5.0	3.9	5.9

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#24

1,1-Dichloroethane

Concen: 2.282 ppbv

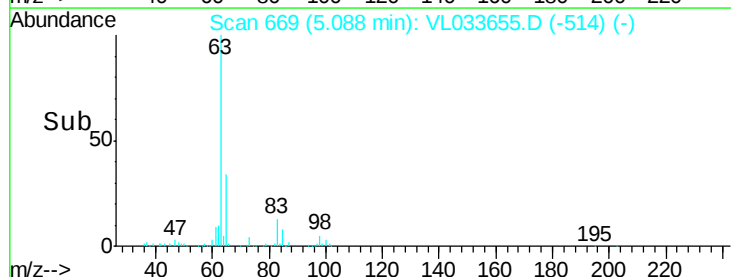
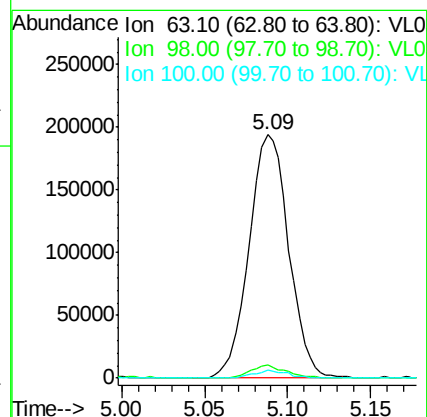
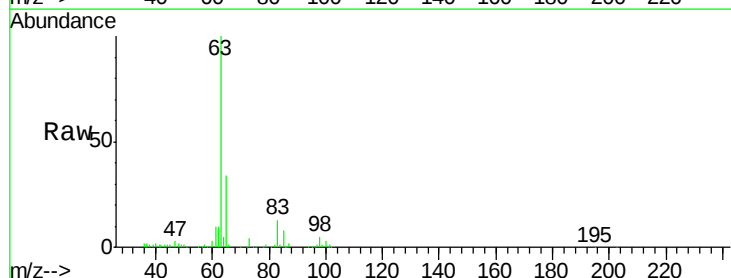
RT: 5.09 min Scan# 669

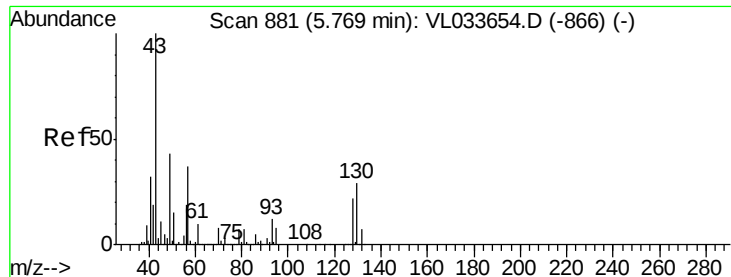
Delta R.T. -0.00 min

Lab File: VL033655.D

Acq: 6 May 2019 11:39

Tgt Ion:	63	Resp:	322739
Ion	Ratio	Lower	Upper
63	100		
98	5.3	2.1	6.2
100	3.5	1.5	4.4





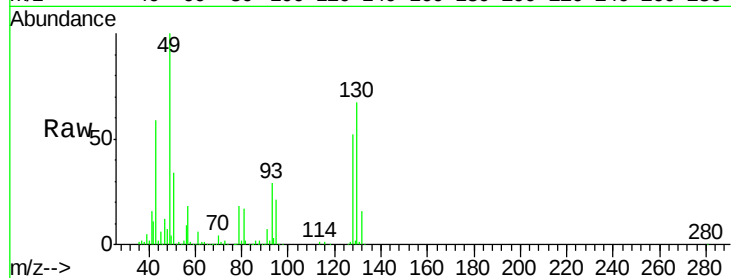
#25
Ethyl Acetate
Concen: 2.221 ppbv
RT: 5.77 min Scan# 880
Delta R.T. -0.00 min
Lab File: VL033655.D
Acq: 6 May 2019 11:39

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

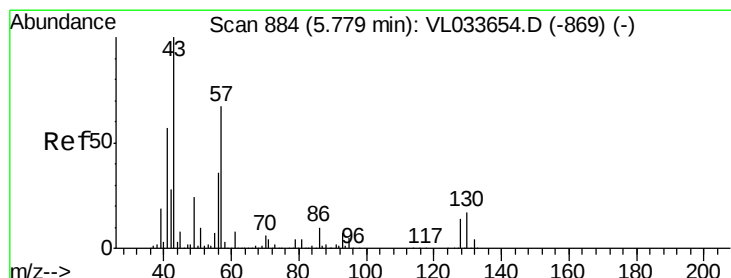
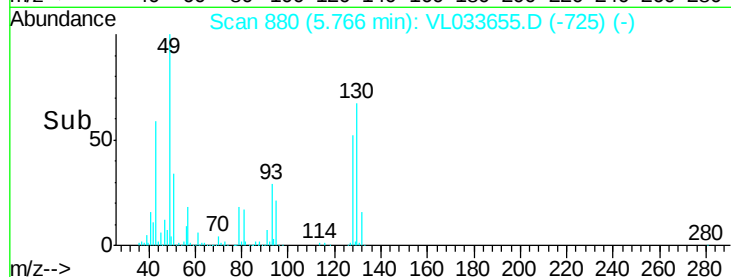
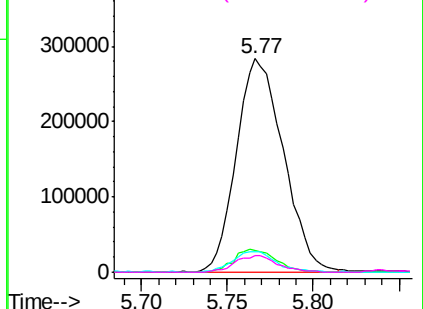
Tot Ion	Ion	Ratio	Resp	Lower	Upper
43	100				
45	9.9	8.0	12.0		
61	9.6	7.5	11.3		
70	7.0	5.8	8.8		

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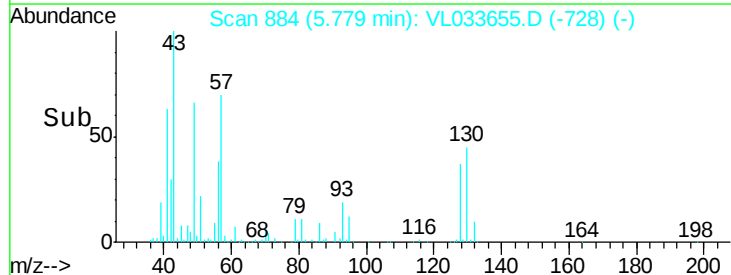
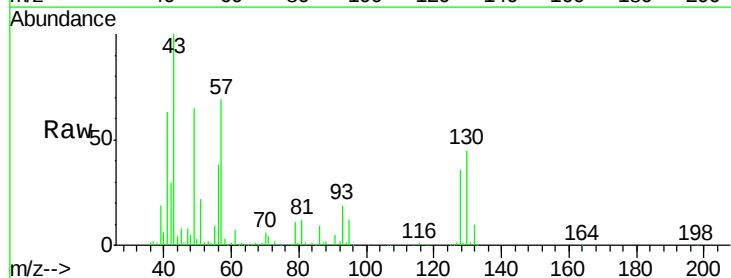
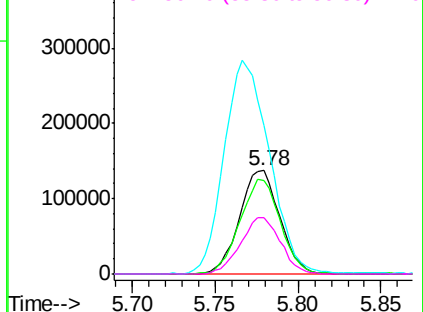
Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 45.10 (44.80 to 45.80): VL0
Ion 61.10 (60.80 to 61.80): VL0
Ion 70.10 (69.80 to 70.80): VL0

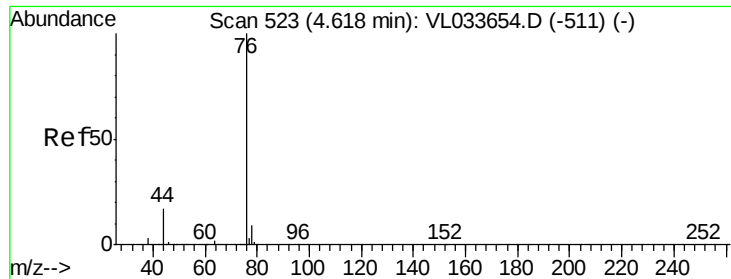


#26
Hexane
Concen: 2.277 ppbv
RT: 5.78 min Scan# 884
Delta R.T. 0.00 min
Lab File: VL033655.D
Acq: 6 May 2019 11:39

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
57	100				
41	91.9	69.7	104.5		
43	233.1	181.9	272.9		
56	54.4	42.5	63.7		

Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0





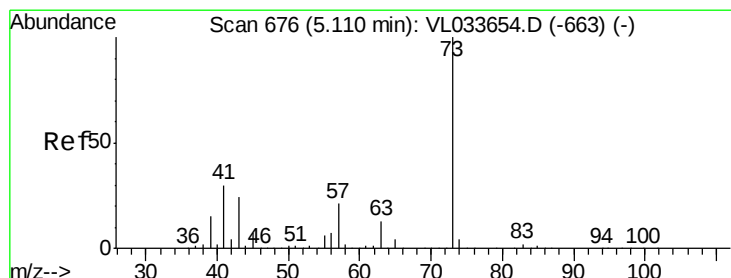
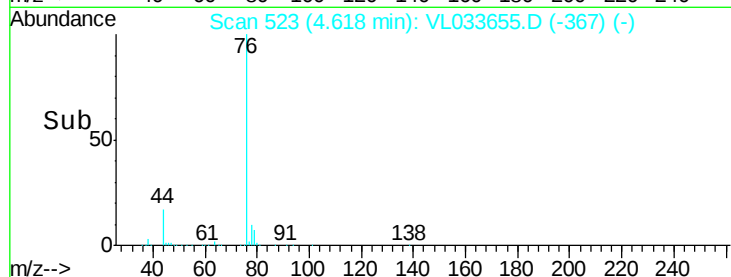
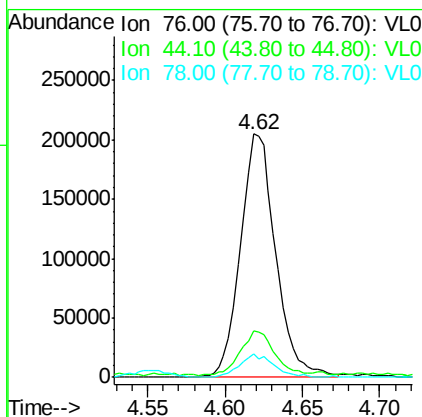
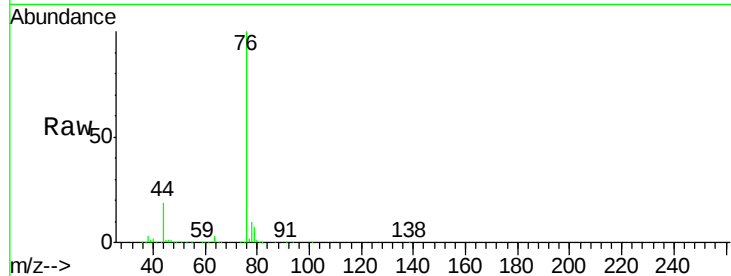
#27
Carbon Disulfide
Concen: 2.568 ppbv
RT: 4.62 min Scan# 523
Delta R.T. 0.00 min
Lab File: VL033655.D
Acq: 6 May 2019 11:39

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	Ratio	Lower	Upper
76	100		
44	18.4	14.4	21.6
78	9.1	7.4	11.2

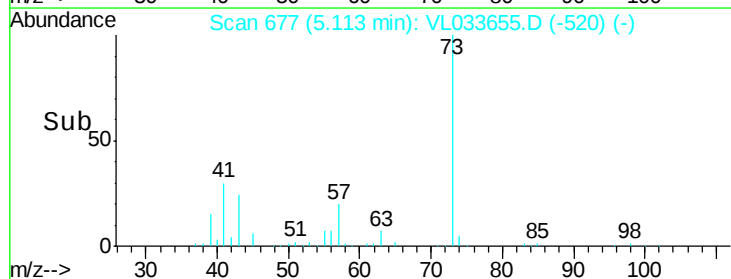
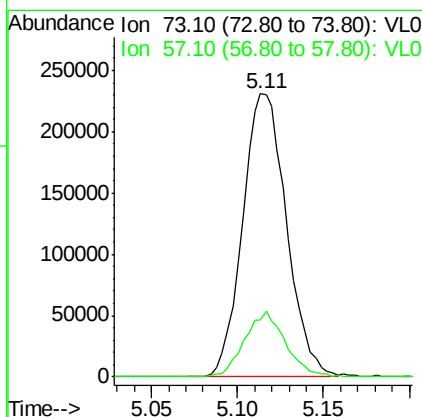
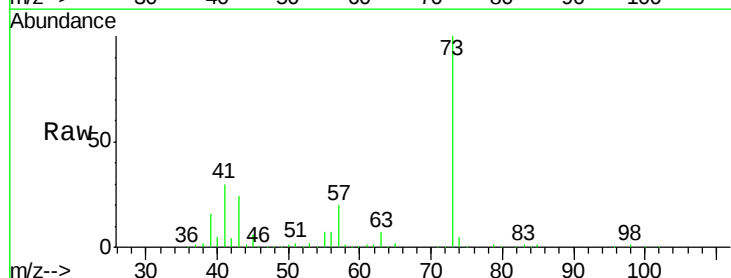
Manual Integrations
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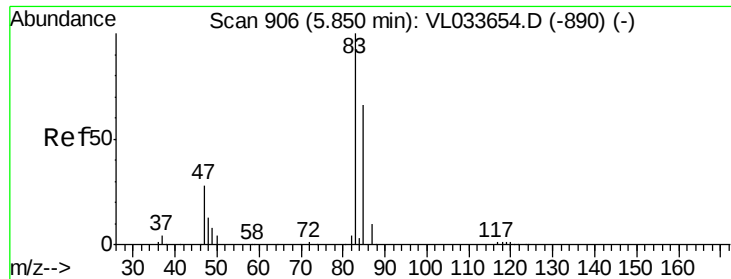
MMDadoda
5/8/2019 12:05:52 PM



#28
Methyl tert-Butyl Ether
Concen: 2.376 ppbv
RT: 5.11 min Scan# 677
Delta R.T. 0.00 min
Lab File: VL033655.D
Acq: 6 May 2019 11:39

Tgt Ion	Ratio	Lower	Upper
73	100		
57	21.7	17.4	26.0





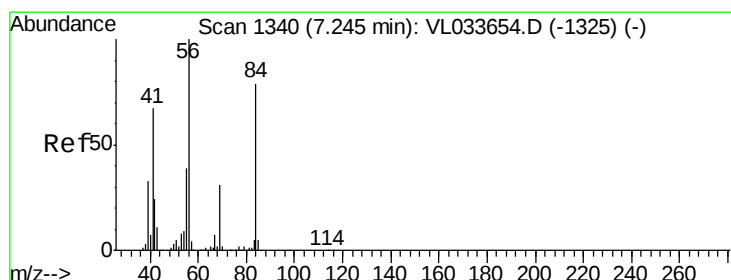
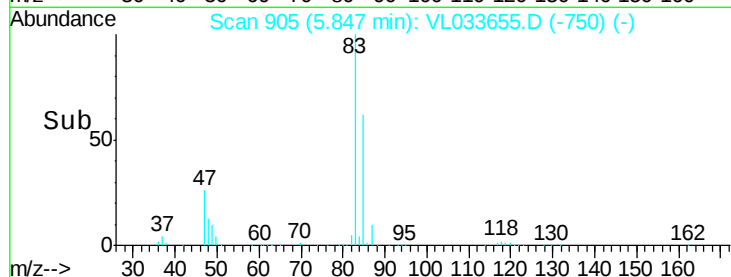
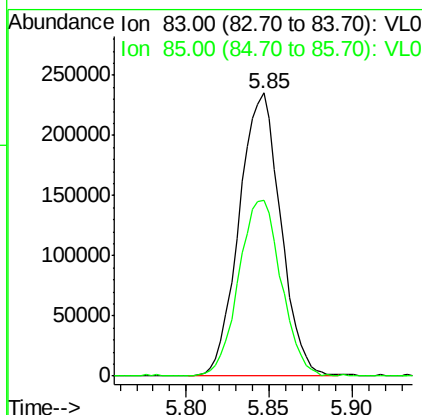
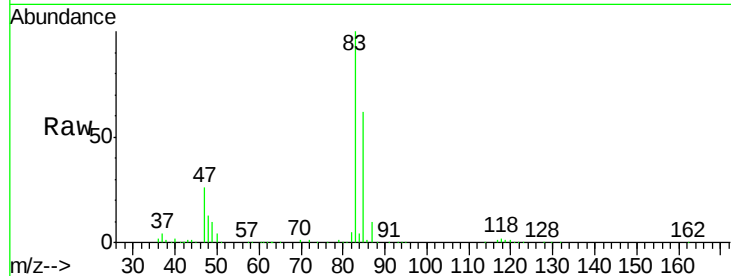
#29
Chloroform
Concen: 2.200 ppbv
RT: 5.85 min Scan# 905
Delta R.T. -0.00 min
Lab File: VL033655.D
Acq: 6 May 2019 11:39

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion: 83 Resp: 410756
Ion Ratio Lower Upper
83 100
85 62.2 52.6 78.8

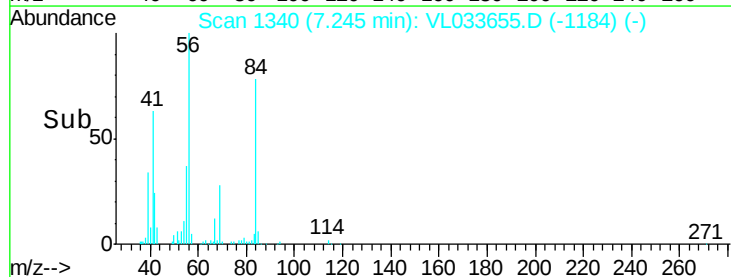
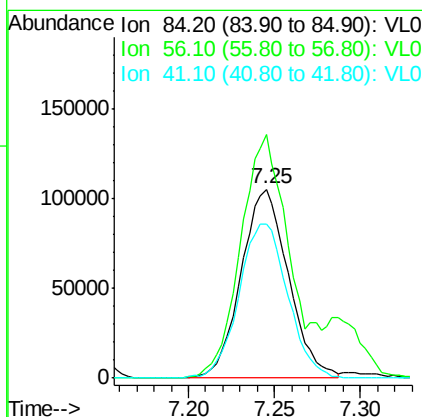
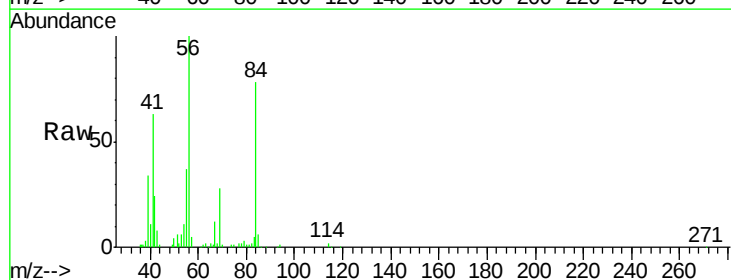
Manual Integrations
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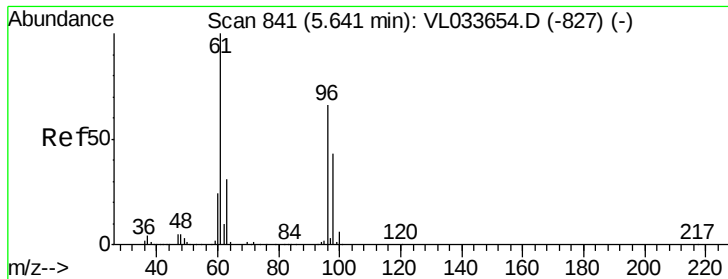
MMDadoda
5/8/2019 12:05:52 PM



#30
Cyclohexane
Concen: 2.322 ppbv
RT: 7.25 min Scan# 1340
Delta R.T. 0.00 min
Lab File: VL033655.D
Acq: 6 May 2019 11:39

Tgt Ion: 84 Resp: 200997
Ion Ratio Lower Upper
84 100
56 157.2 107.0 160.4
41 84.3 66.6 99.8





#31

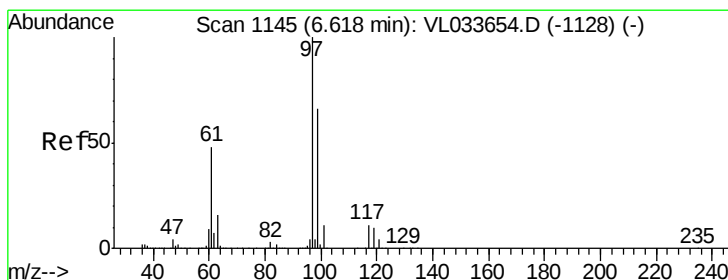
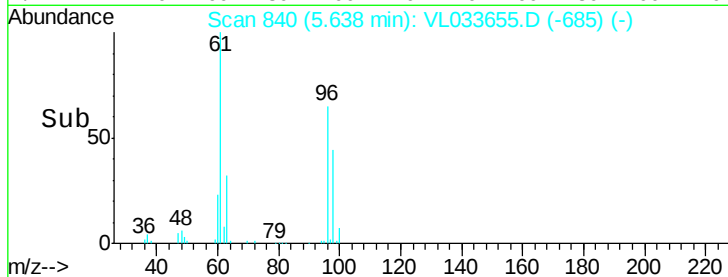
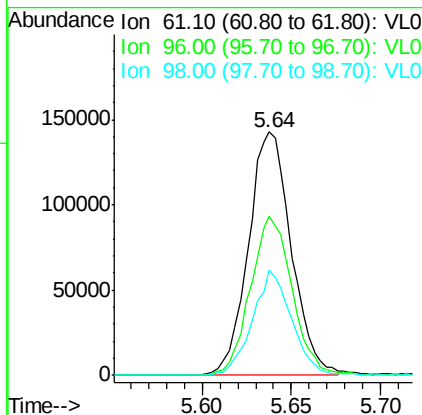
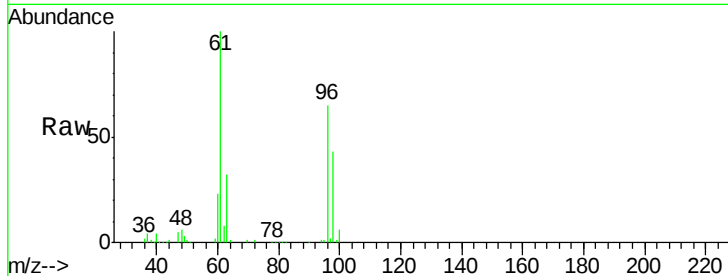
cis-1,2-Dichloroethene
 Concen: 2.328 ppbv
 RT: 5.64 min Scan# 840
 Delta R.T. -0.00 min
 Lab File: VL033655.D
 Acq: 6 May 2019 11:39

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion	Ratio	Resp	Lower	Upper
61	100	239438		
96	65.4	53.2	79.8	
98	43.5	34.2	51.4	

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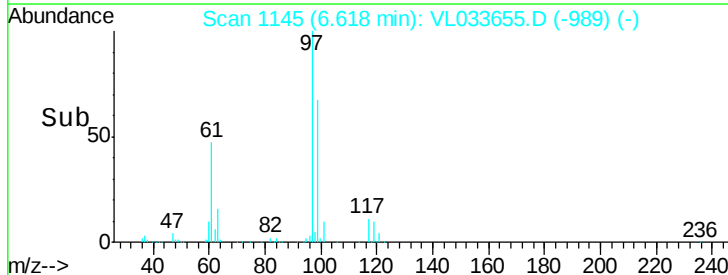
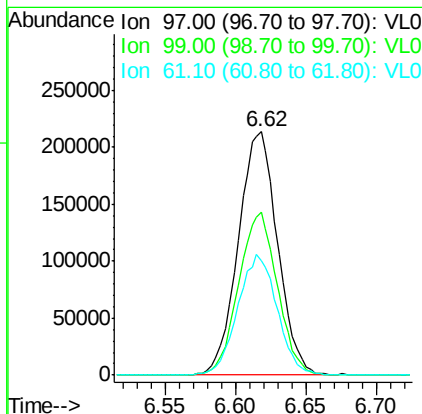
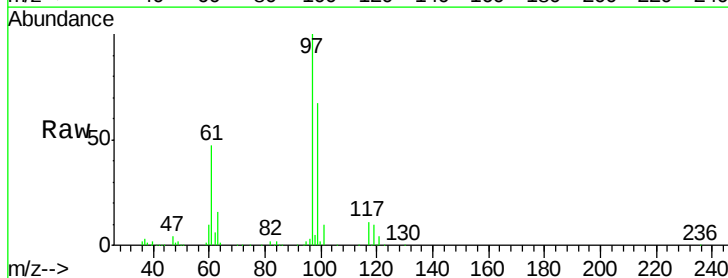
MMDadoda
 5/8/2019 12:05:52 PM

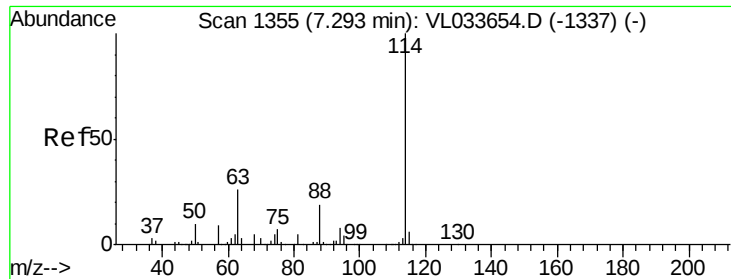


#32

1,1,1-Trichloroethane
 Concen: 2.131 ppbv
 RT: 6.62 min Scan# 1145
 Delta R.T. 0.00 min
 Lab File: VL033655.D
 Acq: 6 May 2019 11:39

Tgt Ion	Ratio	Resp	Lower	Upper
97	100	416968		
99	66.1	51.5	77.3	
61	49.9	38.5	57.7	





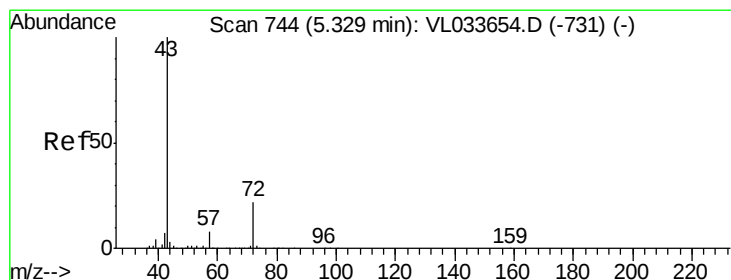
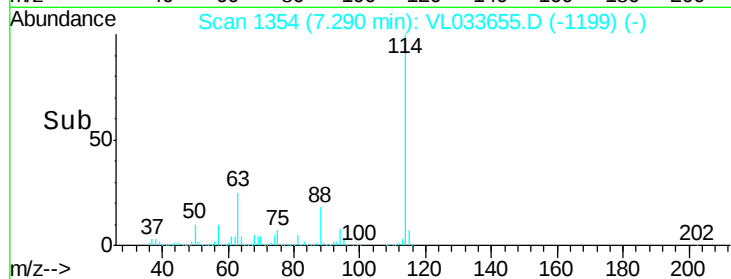
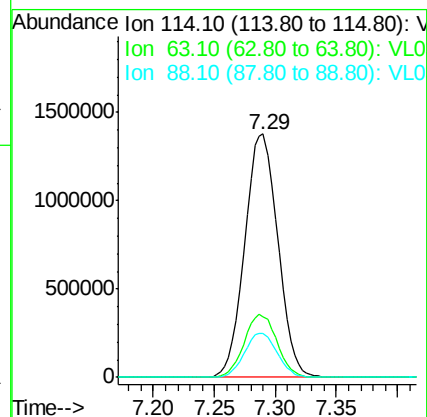
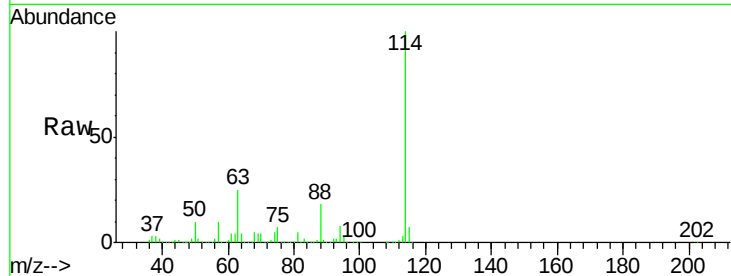
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.29 min Scan# 1354
 Delta R.T. -0.00 min
 Lab File: VL033655.D
 Acq: 6 May 2019 11:39

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion	Ratio	Lower	Upper
114	100		
63	25.8	21.2	31.8
88	18.0	14.4	21.6

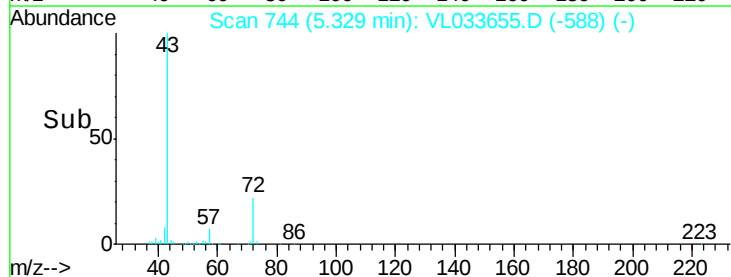
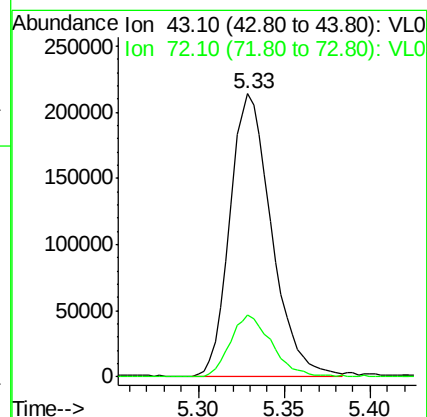
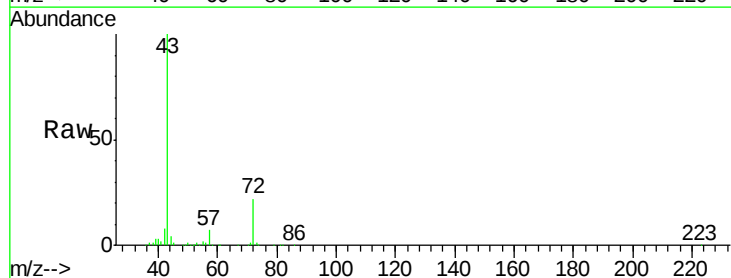
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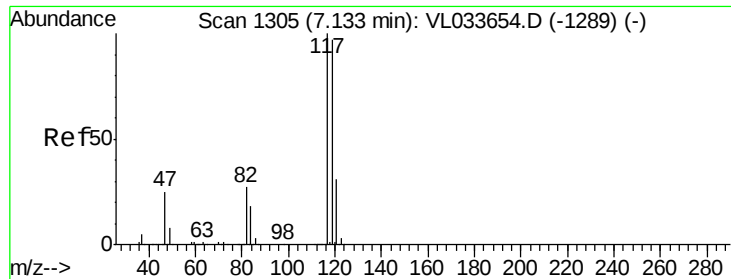
MMDadoda
 5/8/2019 12:05:52 PM



#34
 2-Butanone
 Concen: 2.249 ppbv
 RT: 5.33 min Scan# 744
 Delta R.T. 0.00 min
 Lab File: VL033655.D
 Acq: 6 May 2019 11:39

Tgt Ion	Ratio	Lower	Upper
43	100		
72	21.9	17.4	26.2





#35

Carbon Tetrachloride

Concen: 2.186 ppbv

RT: 7.13 min Scan# 1304

Delta R.T. -0.00 min

Lab File: VL033655.D

Acq: 6 May 2019 11:39

Instrument :

MSVOA_L

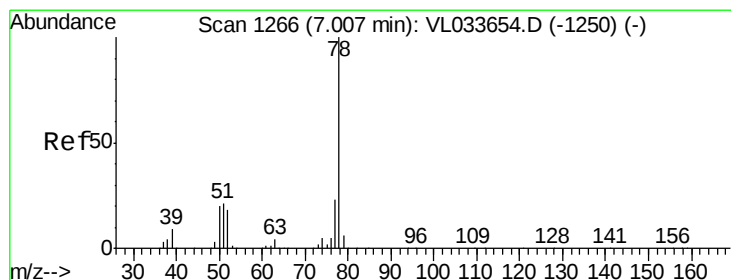
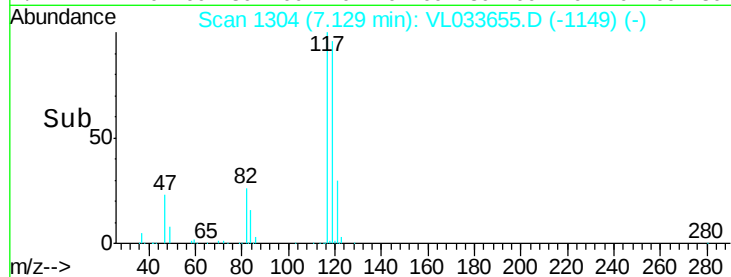
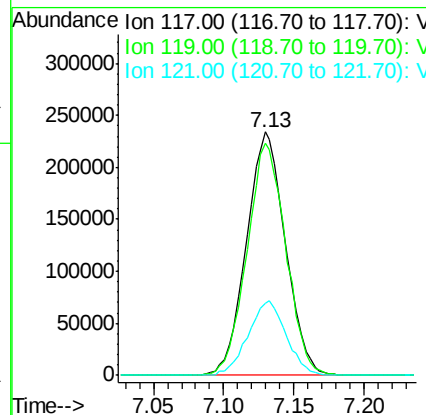
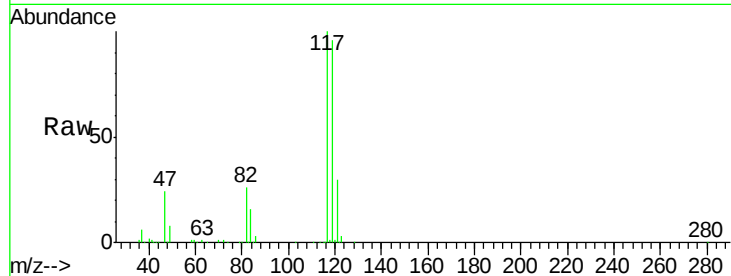
ClientSampleId :

VSTDIC002

Tot Ion:	117	Resp:	452084
Ion Ratio	Lower	Upper	
117	100		
119	95.6	77.9	116.9
121	29.9	25.0	37.6

Manual Integrations
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5/8/2019 12:05:52 PM



#36

Benzene

Concen: 2.191 ppbv

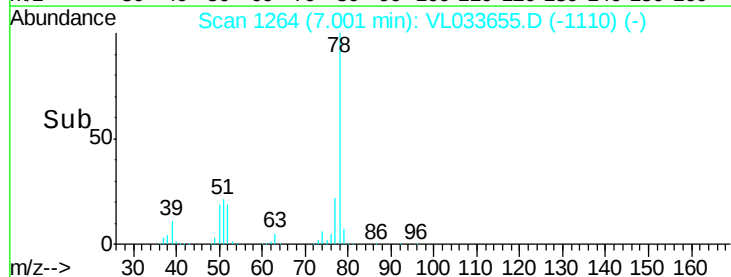
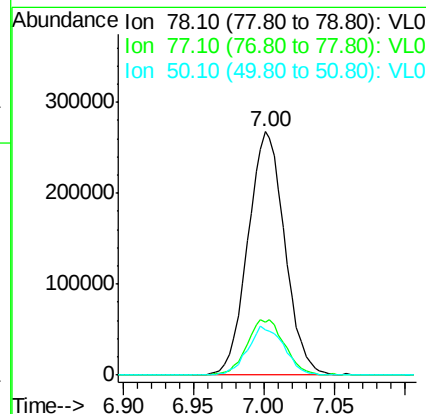
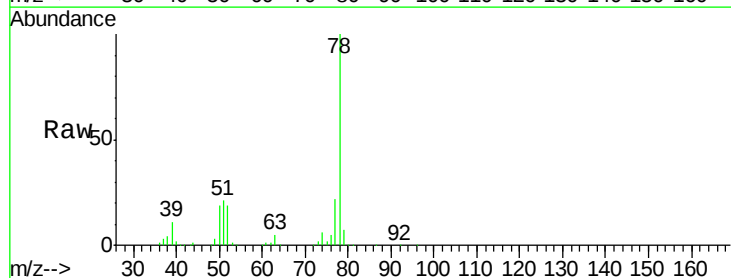
RT: 7.00 min Scan# 1264

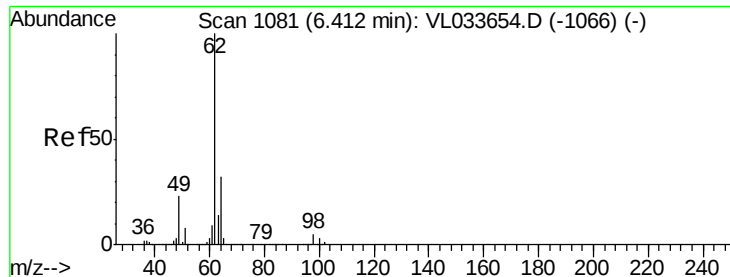
Delta R.T. -0.01 min

Lab File: VL033655.D

Acq: 6 May 2019 11:39

Tgt Ion:	78	Resp:	488792
Ion Ratio	Lower	Upper	
78	100		
77	22.0	18.2	27.2
50	18.5	15.8	23.6





#37

1,2-Dichloroethane

Concen: 2.125 ppbv

RT: 6.41 min Scan# 1080

Delta R.T. -0.00 min

Lab File: VL033655.D

Acq: 6 May 2019 11:39

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 62 Resp: 314751

Ion Ratio Lower Upper

62 100

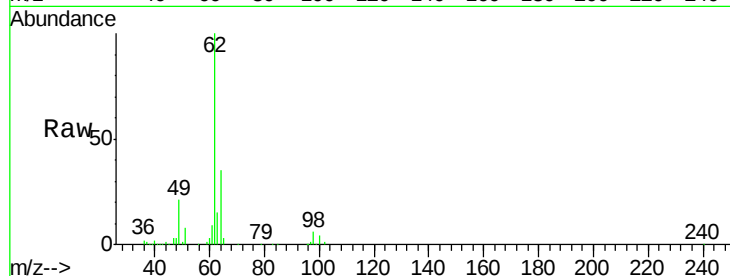
98 5.8 4.5 6.7

Manual Integrations

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5/8/2019 12:05:52 PM



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

200000

150000

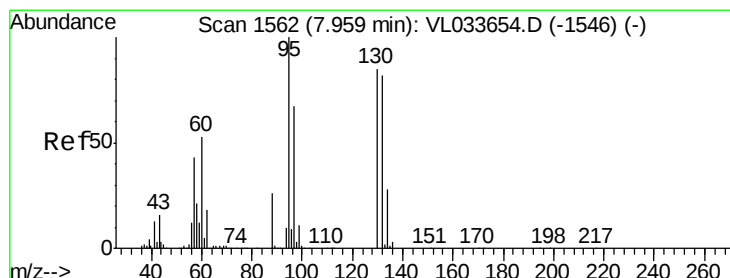
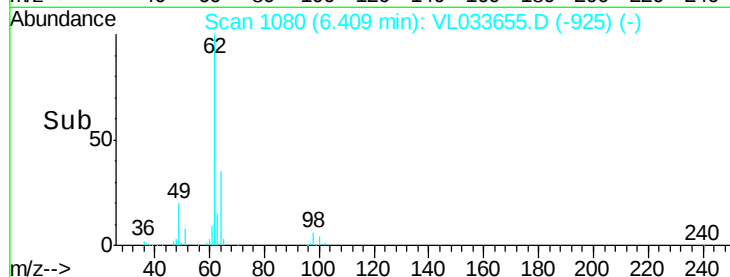
100000

50000

0

6.35 6.40 6.45

Time-->



#38

Trichloroethene

Concen: 2.257 ppbv

RT: 7.96 min Scan# 1562

Delta R.T. 0.00 min

Lab File: VL033655.D

Acq: 6 May 2019 11:39

Tgt Ion: 130 Resp: 199994

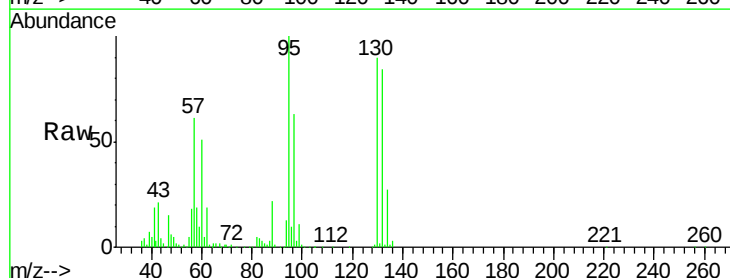
Ion Ratio Lower Upper

130 100

95 108.0 93.4 140.0

132 92.0 76.2 114.4

97 68.4 62.2 93.4



Abundance Ion 130.00 (129.70 to 130.70): V

Ion 95.00 (94.70 to 95.70): VL0

Ion 132.00 (131.70 to 132.70): V

Ion 97.00 (96.70 to 97.70): VL0

150000

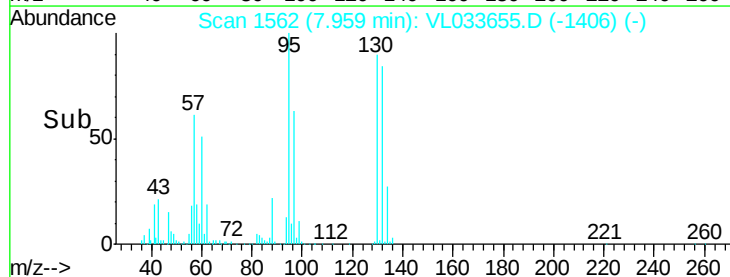
100000

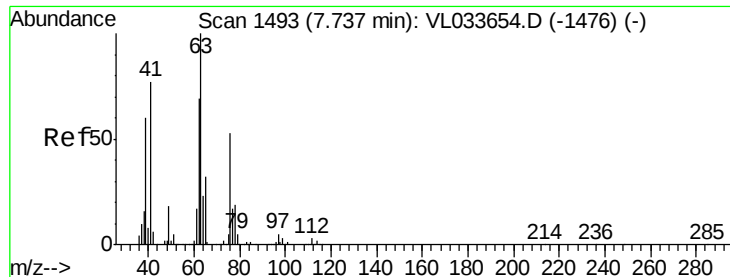
50000

0

7.90 7.95 8.00

Time-->





#39

1,2-Dichloropropane

Concen: 2.204 ppbv

RT: 7.73 min Scan# 1492

Delta R.T. -0.00 min

Lab File: VL033655.D

Acq: 6 May 2019 11:39

Instrument :

MSVOA_L

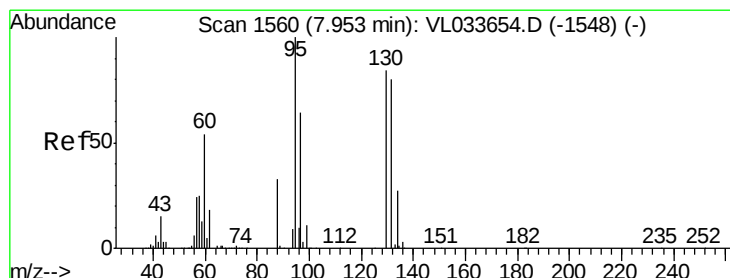
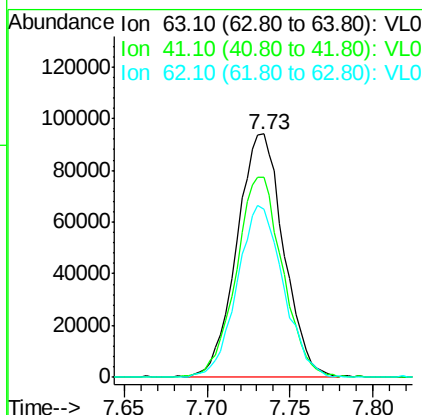
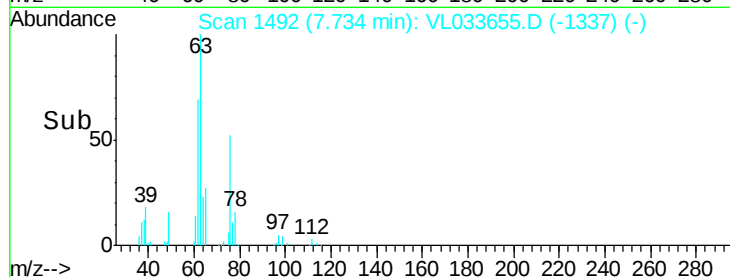
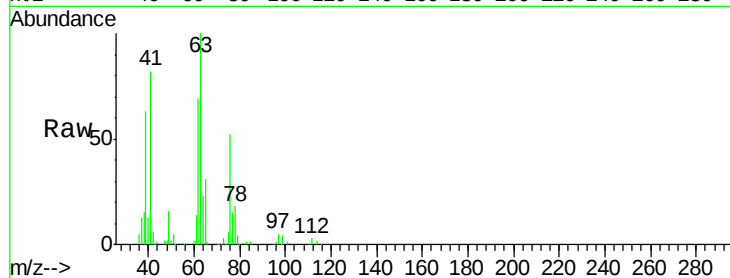
ClientSampleId :

VSTDIC002

Tot Ion:	63	Resp:	184311
Ion Ratio	Lower	Upper	
63	100		
41	82.2	61.6	92.4
62	68.7	55.0	82.6

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#40

1,4-Dioxane

Concen: 1.942 ppbv

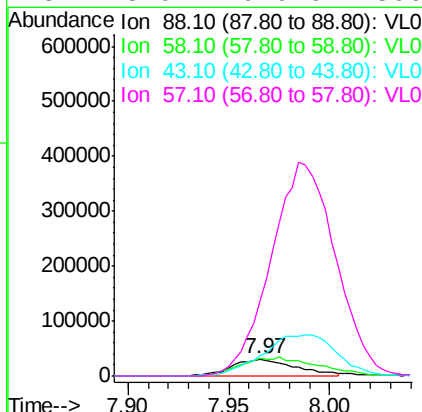
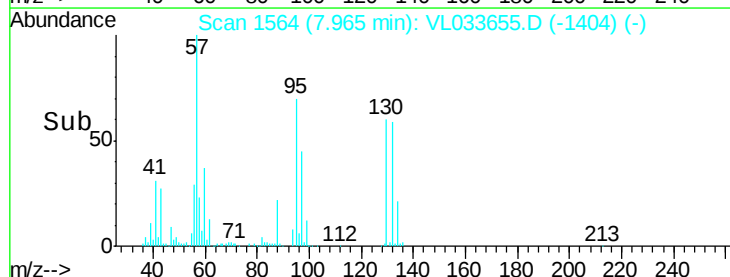
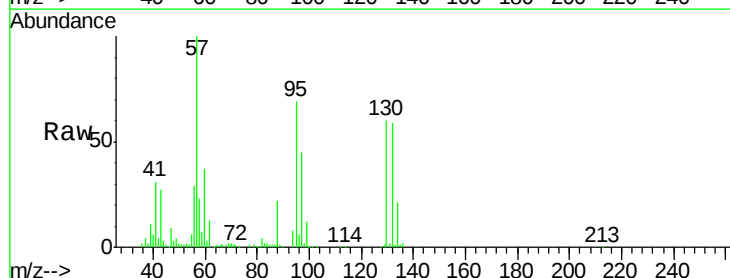
RT: 7.97 min Scan# 1564

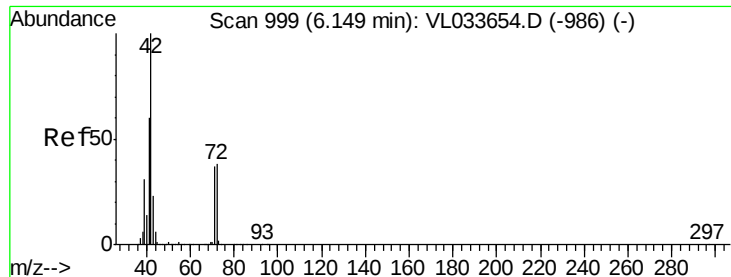
Delta R.T. 0.01 min

Lab File: VL033655.D

Acq: 6 May 2019 11:39

Tgt Ion:	88	Resp:	65200
Ion Ratio	Lower	Upper	
88	100		
58	145.5	102.3	153.5
43	295.9	206.1	309.1
57	1329.2	910.6	1366.0





#41

Tetrahydrofuran

Concen: 2.286 ppbv

RT: 6.16 min Scan# 1001

Delta R.T. 0.01 min

Lab File: VL033655.D

Acq: 6 May 2019 11:39

Instrument :

MSVOA_L

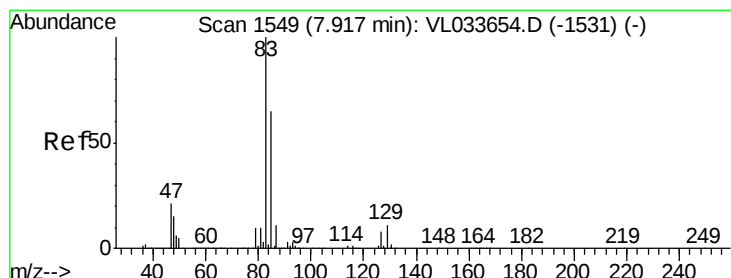
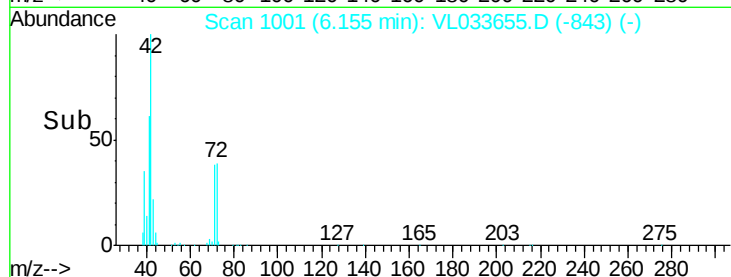
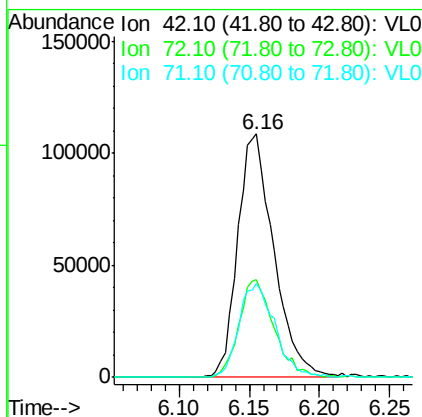
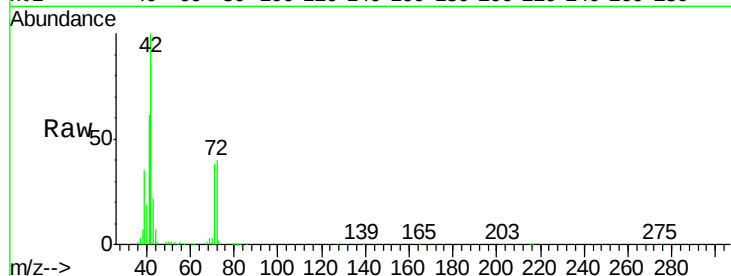
ClientSampleId :

VSTDIC002

Tot Ion:	42	Resp:	195508
Ion	Ratio	Lower	Upper
42	100		
72	39.1	31.6	47.4
71	38.6	30.6	45.8

Manual Integrations
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#42

Bromodichloromethane

Concen: 2.172 ppbv

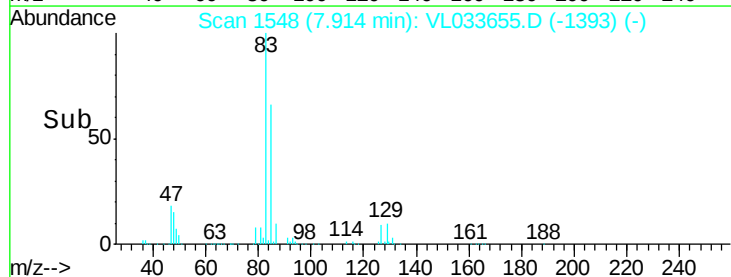
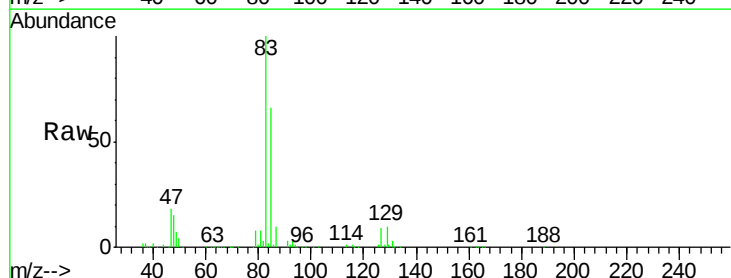
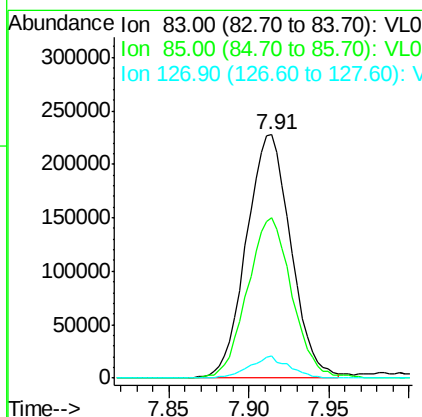
RT: 7.91 min Scan# 1548

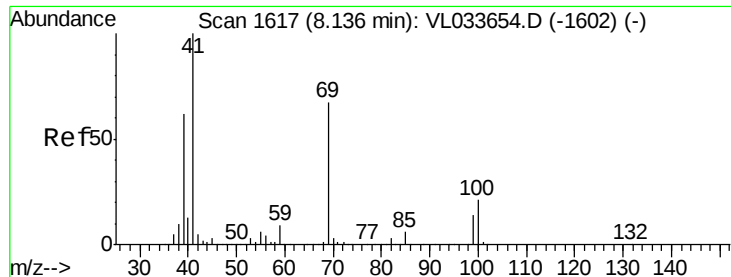
Delta R.T. -0.00 min

Lab File: VL033655.D

Acq: 6 May 2019 11:39

Tgt Ion:	83	Resp:	435996
Ion	Ratio	Lower	Upper
83	100		
85	65.8	52.4	78.6
127	9.1	6.6	9.8





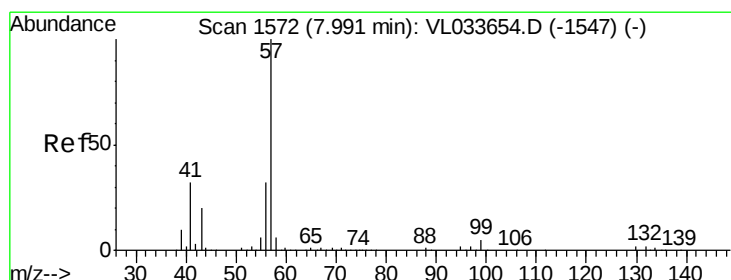
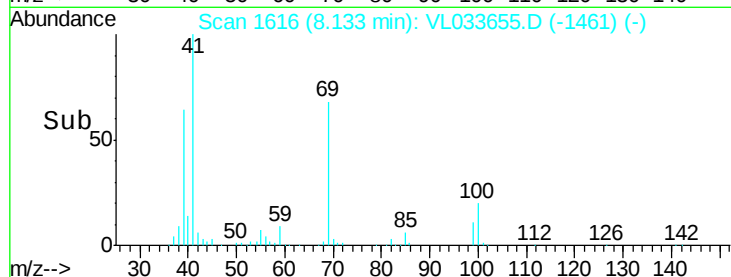
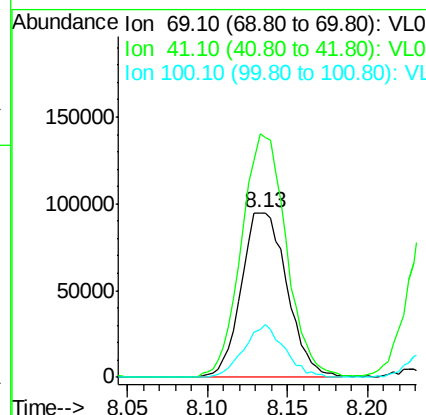
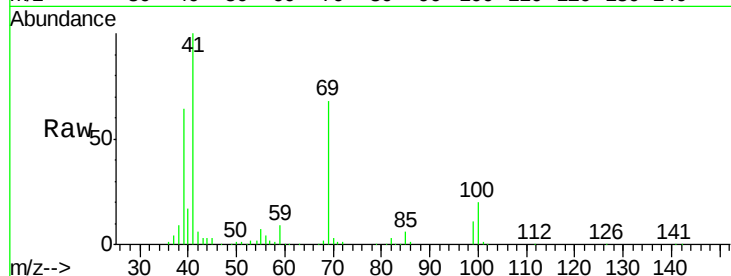
#43
Methvl Methacrylate
Concen: 2.204 ppbv
RT: 8.13 min Scan# 1616
Delta R.T. -0.00 min
Lab File: VL033655.D
Acq: 6 May 2019 11:39

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	Ion	Ratio	Resp	Lower	Upper
69	100		185436		
41	145.1	116.5	174.7		
100	28.5	24.6	37.0		

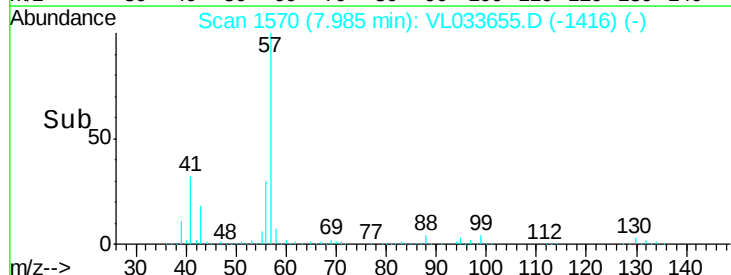
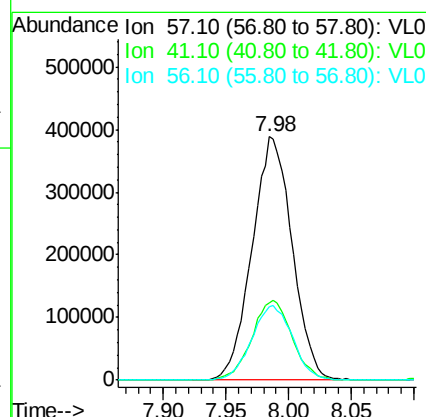
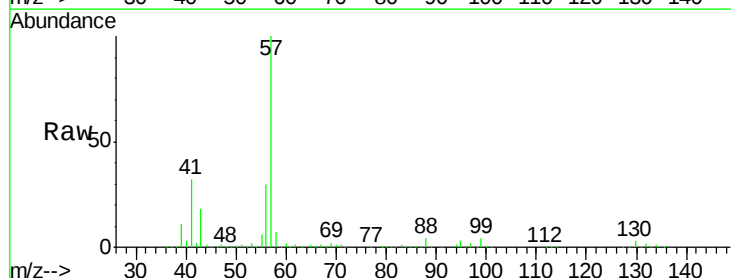
Manual Integrations
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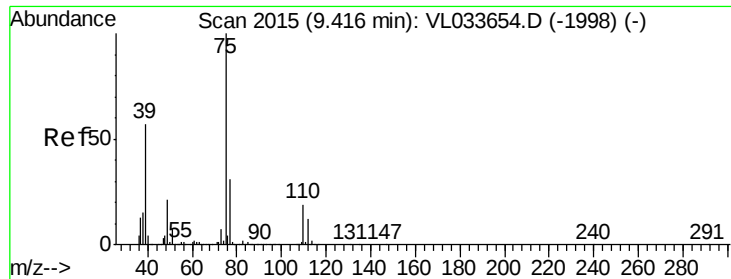
MMDadoda
5/8/2019 12:05:52 PM



#44
2,2,4-Trimethylpentane
Concen: 2.228 ppbv
RT: 7.98 min Scan# 1570
Delta R.T. -0.01 min
Lab File: VL033655.D
Acq: 6 May 2019 11:39

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
57	100		863904		
41	32.8	25.7	38.5		
56	31.2	25.0	37.6		





#45

t-1,3-Dichloropropene

Concen: 2.053 ppbv

RT: 9.41 min Scan# 2014

Delta R.T. -0.00 min

Lab File: VL033655.D

Acq: 6 May 2019 11:39

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 75 Resp: 222905

Ion Ratio Lower Upper

75 100

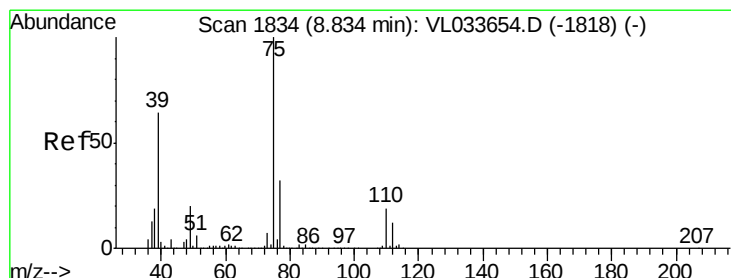
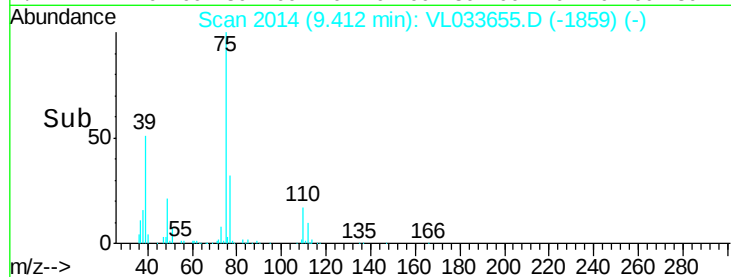
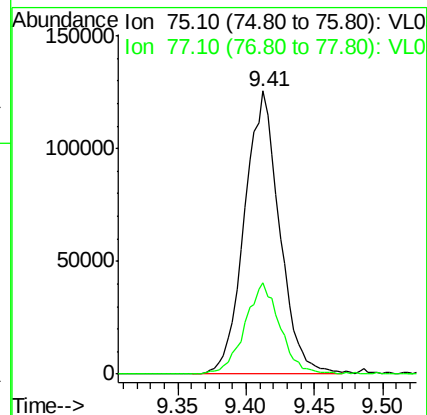
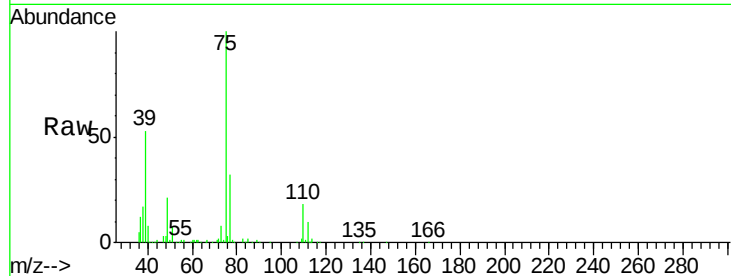
77 32.9 24.7 37.1

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5/8/2019 12:05:52 PM



#46

cis-1,3-Dichloropropene

Concen: 2.080 ppbv

RT: 8.83 min Scan# 1833

Delta R.T. -0.00 min

Lab File: VL033655.D

Acq: 6 May 2019 11:39

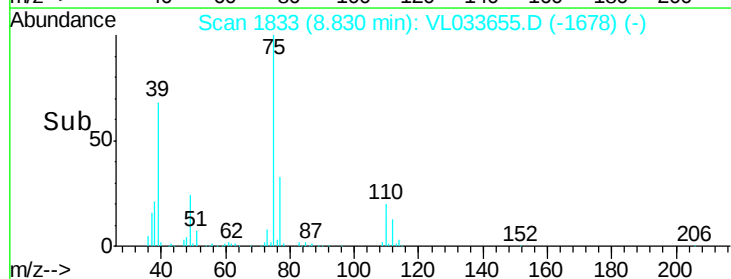
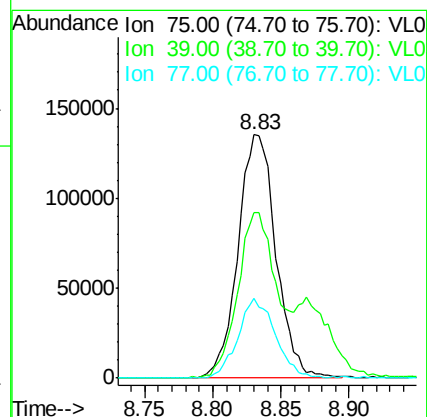
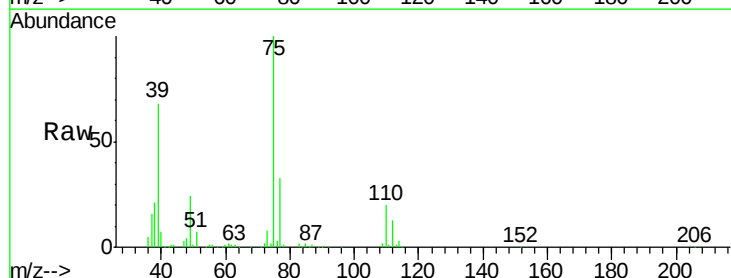
Tgt Ion: 75 Resp: 261261

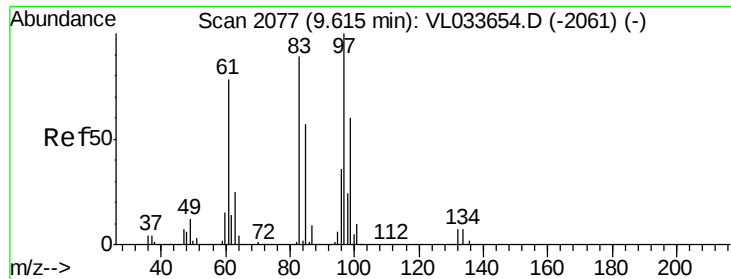
Ion Ratio Lower Upper

75 100

39 67.6 51.5 77.3

77 33.0 25.4 38.0





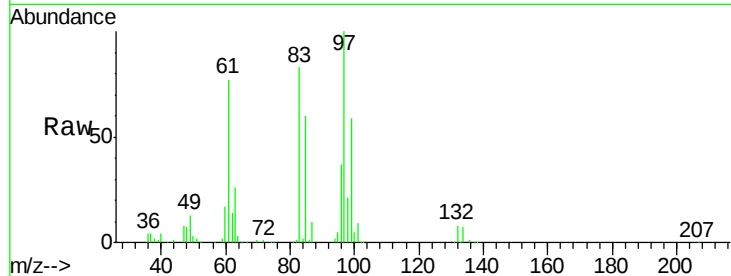
#47
 1,1,2-Trichloroethane
 Concen: 2.138 ppbv
 RT: 9.61 min Scan# 2075
 Delta R.T. -0.01 min
 Lab File: VL033655.D
 Acq: 6 May 2019 11:39

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

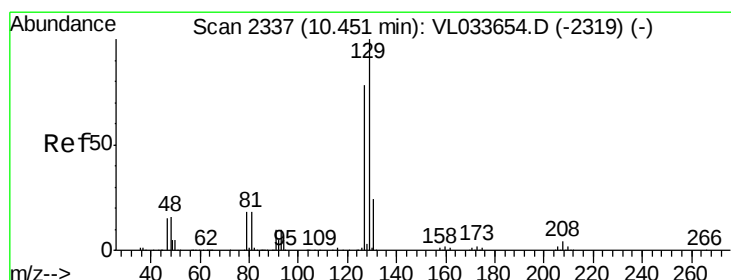
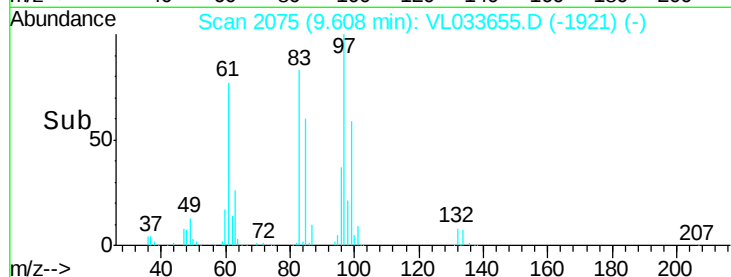
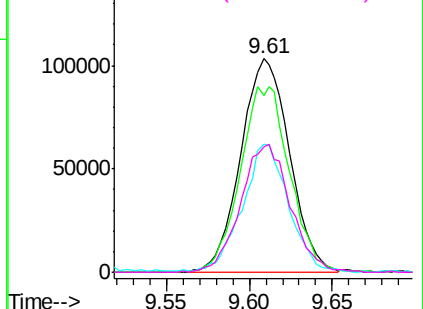
Tot Ion:	97	Resp:	211438
Ion	Ratio	Lower	Upper
97	100		
83	82.4	70.9	106.3
85	59.6	45.8	68.6
99	58.4	48.2	72.4

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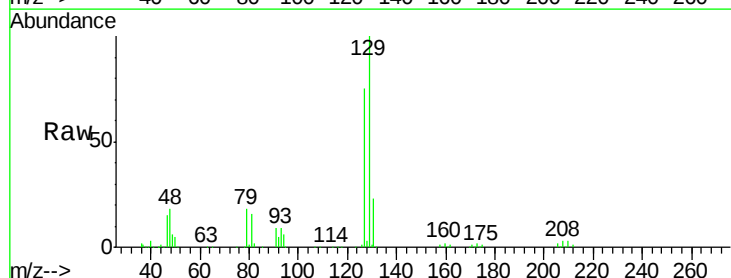


Abundance Ion 97.00 (96.70 to 97.70): VL0
 Ion 83.00 (82.70 to 83.70): VL0
 Ion 85.00 (84.70 to 85.70): VL0
 Ion 99.00 (98.70 to 99.70): VL0

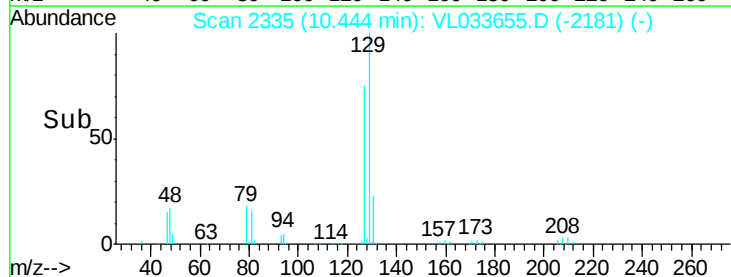
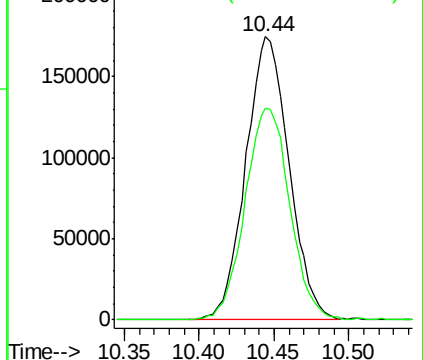


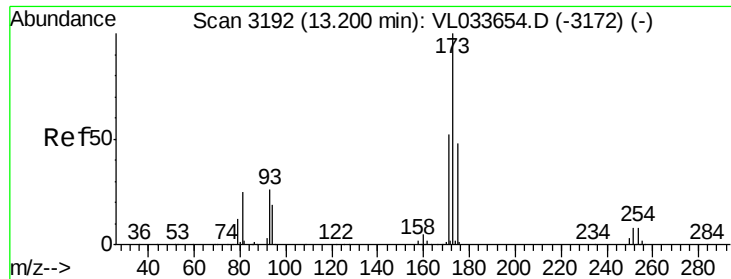
#48
 Dibromochloromethane
 Concen: 2.116 ppbv
 RT: 10.44 min Scan# 2335
 Delta R.T. -0.01 min
 Lab File: VL033655.D
 Acq: 6 May 2019 11:39

Tgt Ion:	129	Resp:	351348
Ion	Ratio	Lower	Upper
129	100		
127	77.5	39.1	117.2



Abundance Ion 129.00 (128.70 to 129.70): V
 Ion 127.00 (126.70 to 127.70): V





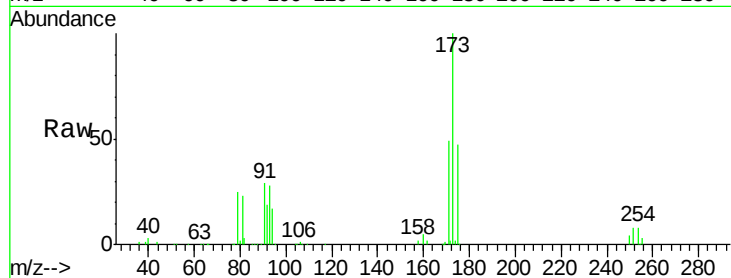
#49
Bromoform
Concen: 2.171 ppbv
RT: 13.20 min Scan# 3191
Delta R.T. -0.00 min
Lab File: VL033655.D
Acq: 6 May 2019 11:39

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	Ratio	Lower	Upper
173	100		
175	49.5	39.3	58.9
171	51.1	41.5	62.3

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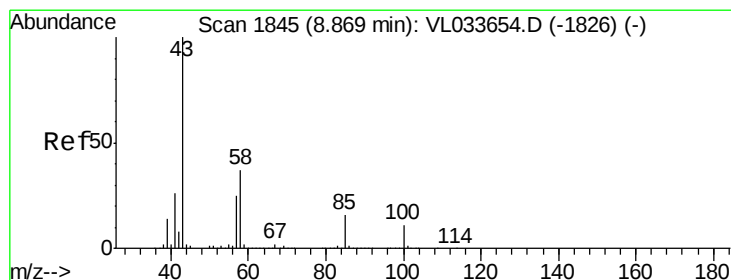
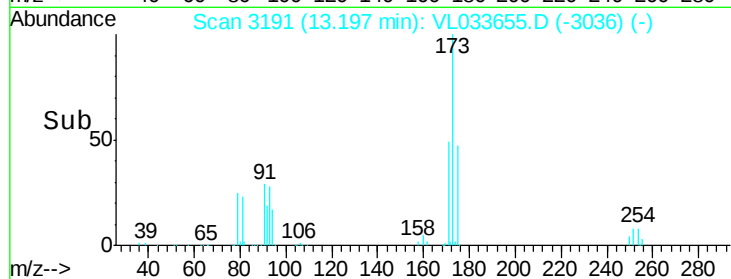
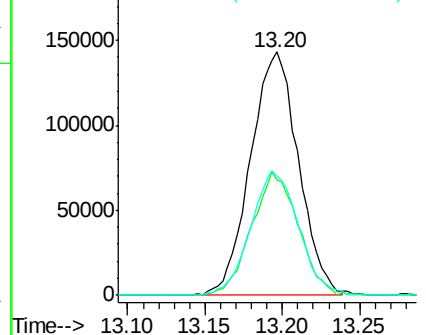


Abundance

Ion 172.90 (172.60 to 173.60): V

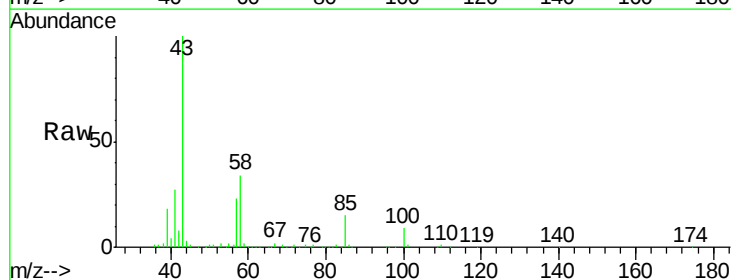
Ion 174.90 (174.60 to 175.60): V

Ion 170.90 (170.60 to 171.60): V



#50
4-Methyl-2-Pentanone
Concen: 2.150 ppbv
RT: 8.87 min Scan# 1845
Delta R.T. 0.00 min
Lab File: VL033655.D
Acq: 6 May 2019 11:39

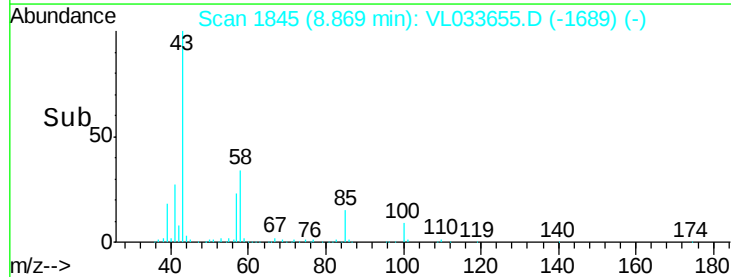
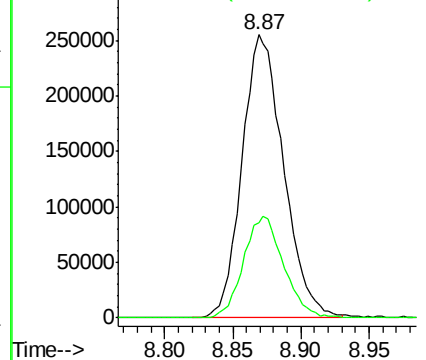
Tgt Ion	Ratio	Lower	Upper
43	100		
58	34.8	28.8	43.2

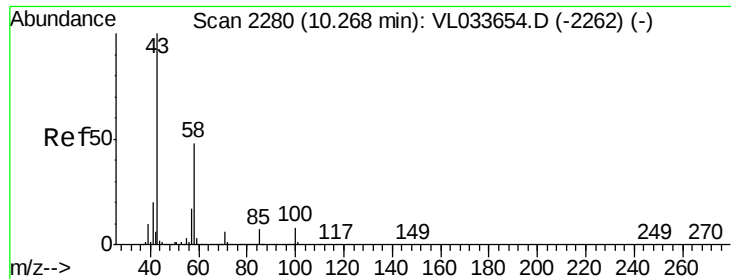


Abundance

Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





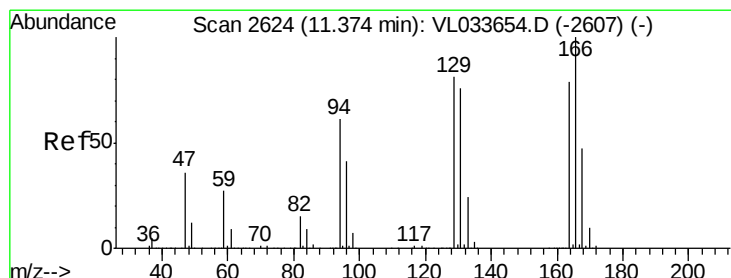
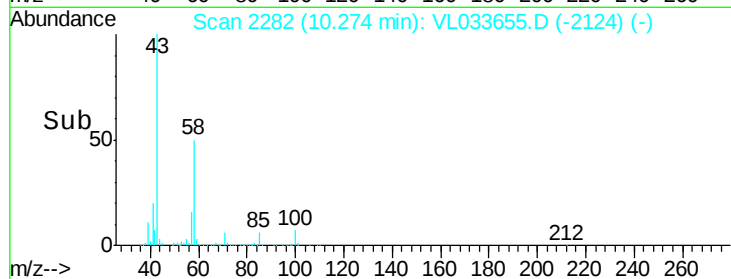
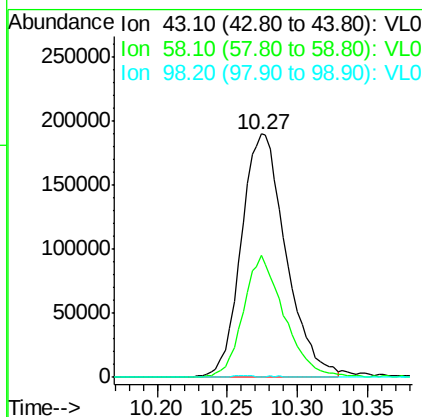
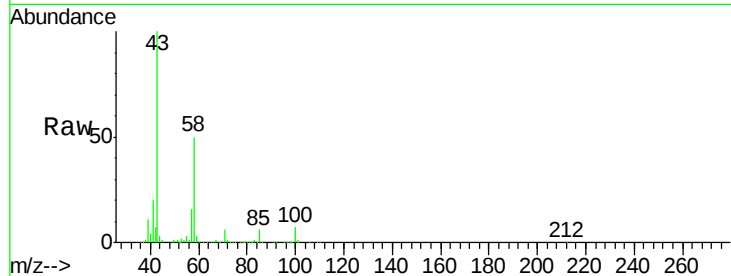
#51
2-Hexanone
Concen: 2.141 ppbv
RT: 10.27 min Scan# 2282
Delta R.T. 0.01 min
Lab File: VL033655.D
Acq: 6 May 2019 11:39

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	Ratio	Lower	Upper
43	100		
58	46.5	38.2	57.4
98	0.7	0.2	0.4

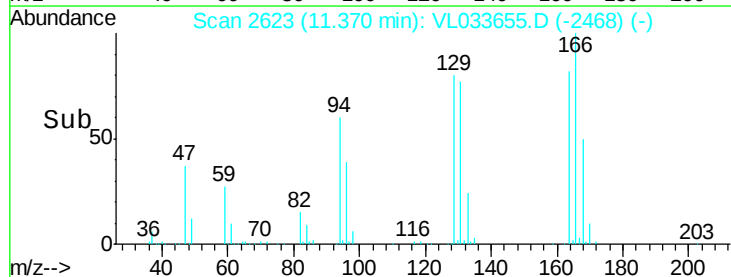
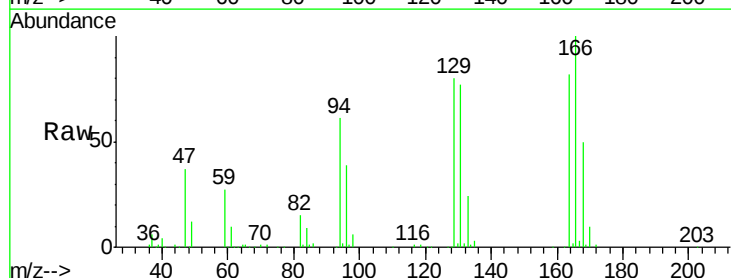
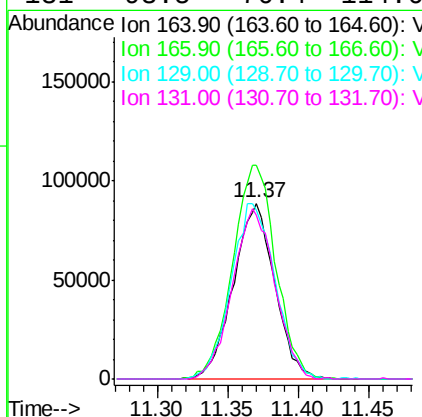
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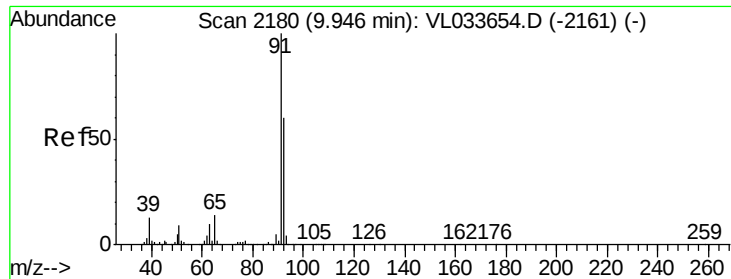
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#52
Tetrachloroethene
Concen: 2.148 ppbv
RT: 11.37 min Scan# 2623
Delta R.T. -0.00 min
Lab File: VL033655.D
Acq: 6 May 2019 11:39

Tgt Ion	Ratio	Lower	Upper
164	100		
166	121.4	100.6	151.0
129	96.3	81.0	121.6
131	93.5	76.4	114.6





#53

Toluene

Concen: 2.166 ppbv

RT: 9.94 min Scan# 2179

Delta R.T. -0.00 min

Lab File: VL033655.D

Acq: 6 May 2019 11:39

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 91 Resp: 545267

Ion Ratio Lower Upper

91 100

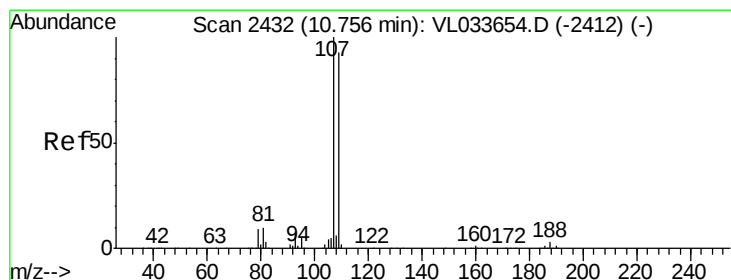
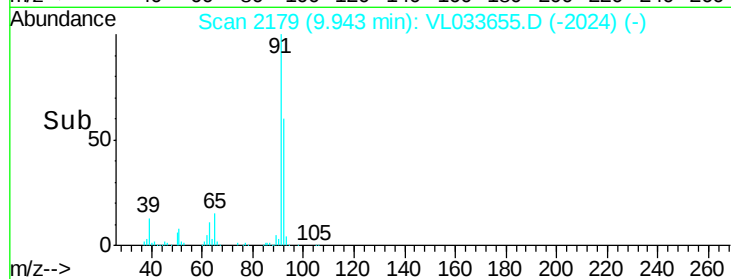
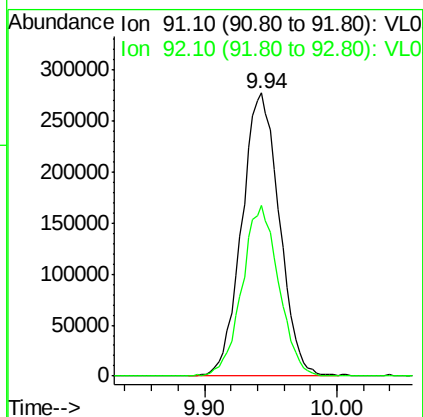
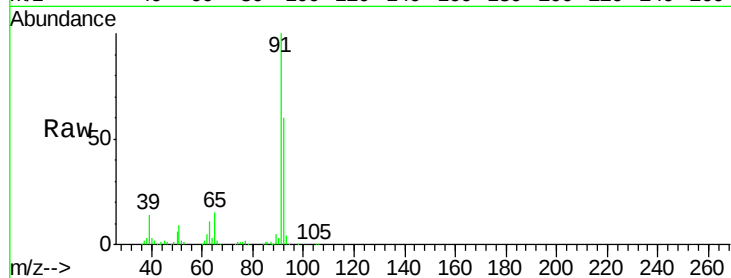
92 58.9 47.8 71.6

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5/8/2019 12:05:52 PM



#54

1,2-Dibromoethane

Concen: 2.087 ppbv

RT: 10.75 min Scan# 2431

Delta R.T. -0.00 min

Lab File: VL033655.D

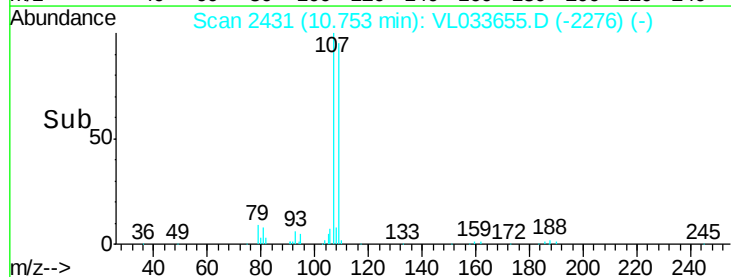
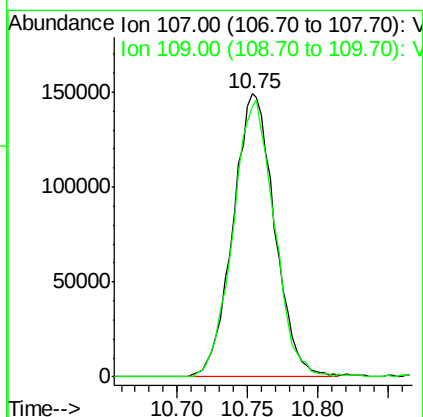
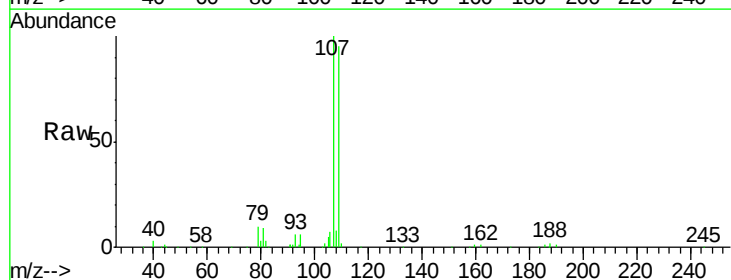
Acq: 6 May 2019 11:39

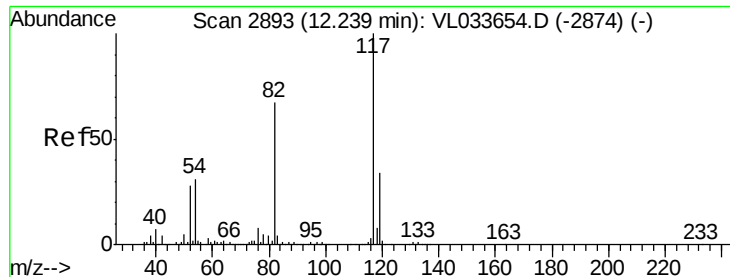
Tgt Ion: 107 Resp: 308367

Ion Ratio Lower Upper

107 100

109 95.2 74.6 111.8





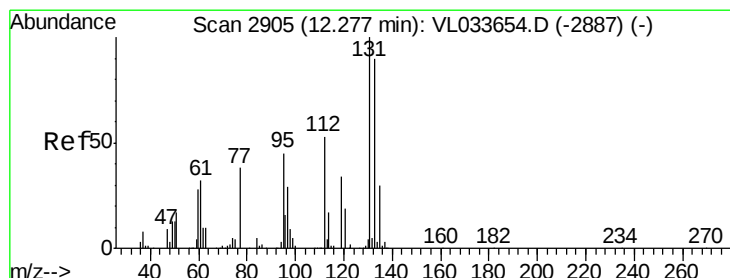
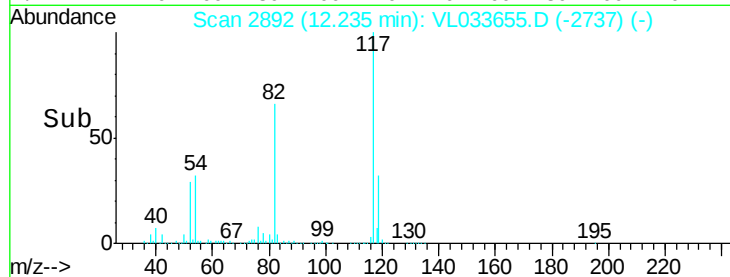
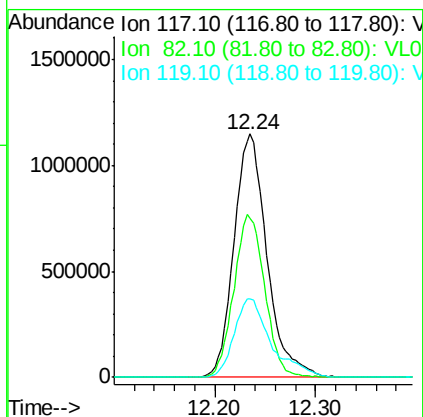
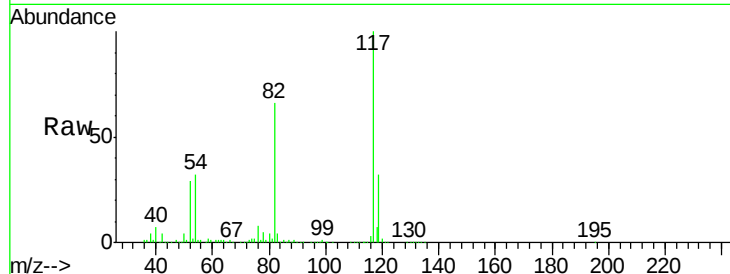
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.24 min Scan# 2892
Delta R.T. -0.00 min
Lab File: VL033655.D
Acq: 6 May 2019 11:39

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	Ratio	Lower	Upper
117	100		
82	62.9	49.7	74.5
119	36.4	23.3	34.9

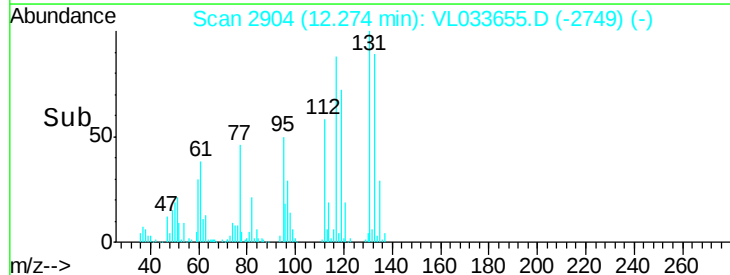
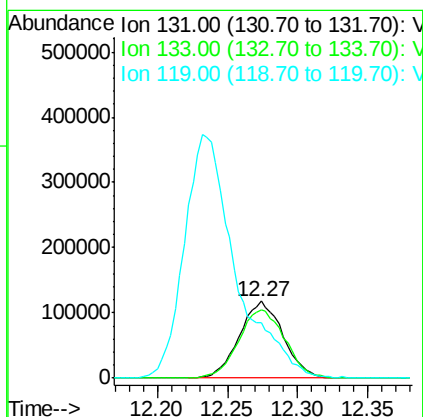
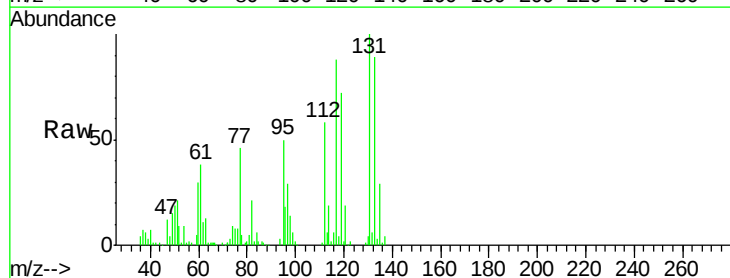
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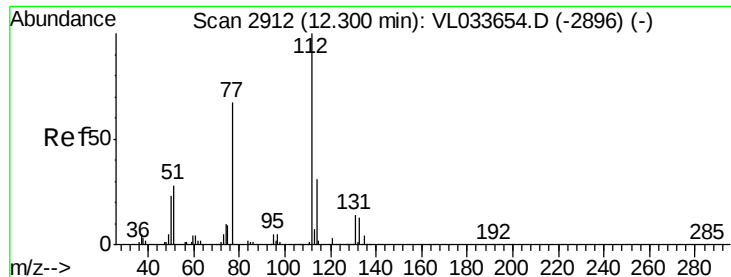
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#56
1,1,1,2-Tetrachloroethane
Concen: 2.235 ppbv
RT: 12.27 min Scan# 2904
Delta R.T. -0.00 min
Lab File: VL033655.D
Acq: 6 May 2019 11:39

Tgt Ion	Ratio	Lower	Upper
131	100		
133	93.9	76.1	114.1
119	371.9	49.4	74.0





#57

Chlorobenzene

Concen: 2.246 ppbv

RT: 12.29 min Scan# 2910

Delta R.T. -0.01 min

Lab File: VL033655.D

Acq: 6 May 2019 11:39

Instrument :

MSVOA_L

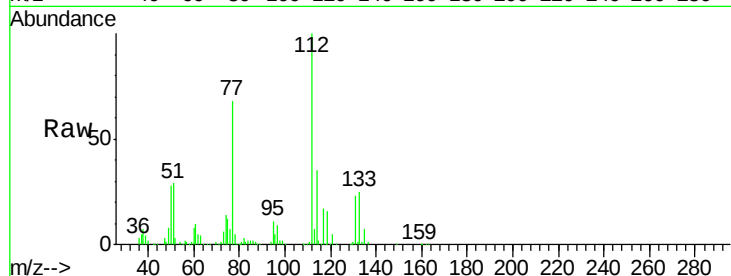
ClientSampleId :

VSTDIC002

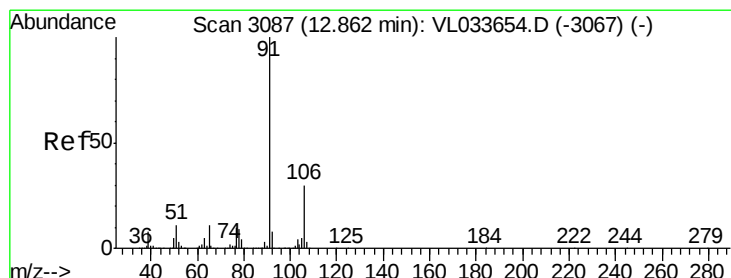
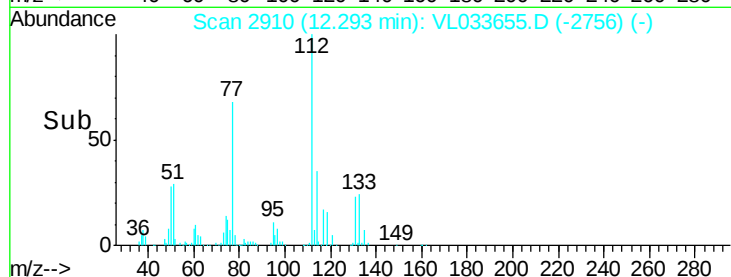
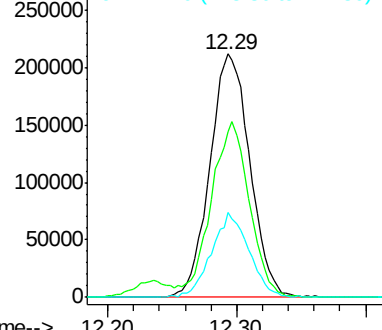
Tot Ion:	112	Resp:	456750
Ion Ratio	Lower	Upper	
112	100		
77	67.4	54.4	81.6
114	35.1	28.2	34.4#

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Abundance Ion 112.10 (111.80 to 112.80): V
Ion 77.10 (76.80 to 77.80): VL0
Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 2.315 ppbv

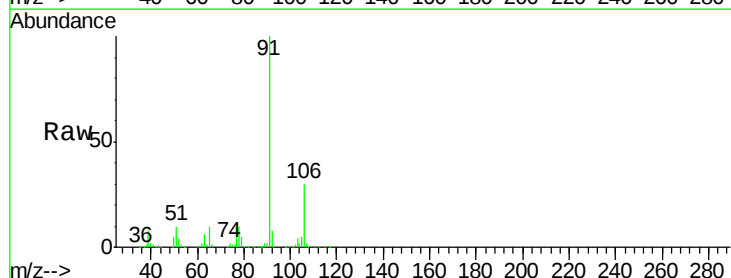
RT: 12.86 min Scan# 3086

Delta R.T. -0.00 min

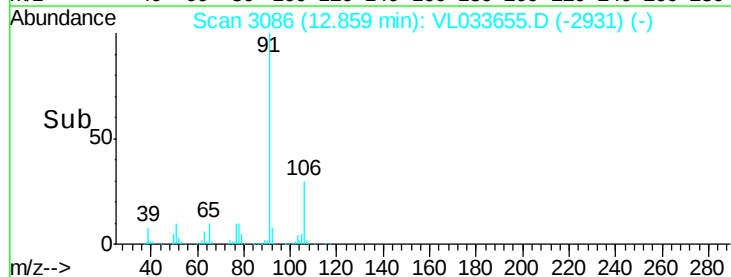
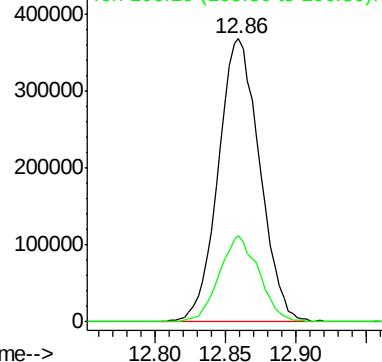
Lab File: VL033655.D

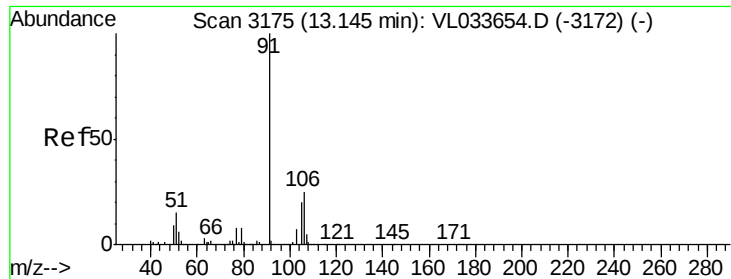
Acq: 6 May 2019 11:39

Tgt Ion:	91	Resp:	757846
Ion Ratio	Lower	Upper	
91	100		
106	30.3	23.7	35.5



Abundance Ion 91.10 (90.80 to 91.80): VL0
Ion 106.10 (105.80 to 106.80): V





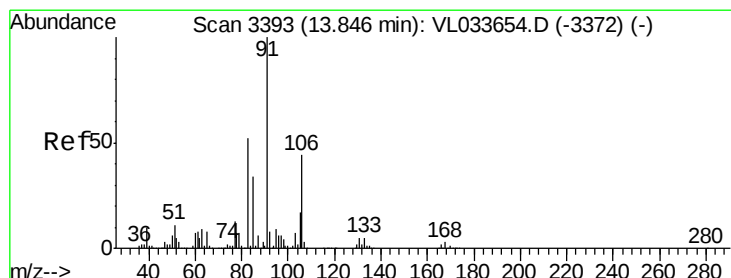
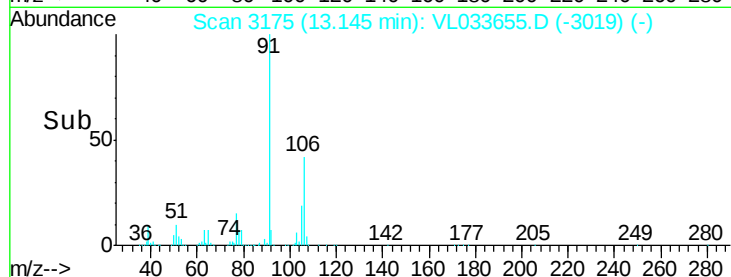
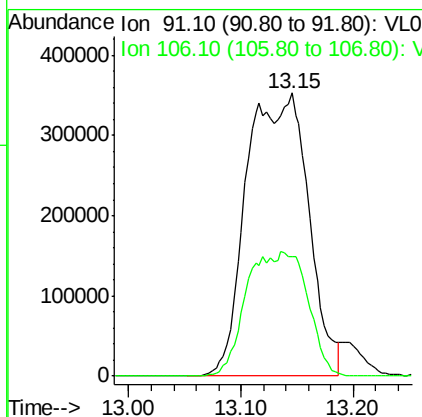
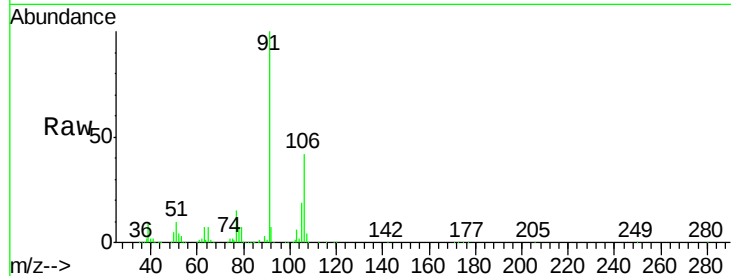
#59
m/p-Xylene
Concen: 4.784 ppbv m
RT: 13.15 min Scan# 3175
Delta R.T. 0.00 min
Lab File: VL033655.D
Acq: 6 May 2019 11:39

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion: 91 Resp: 1347953
Ion Ratio Lower Upper
91 100
106 43.6 35.9 53.9

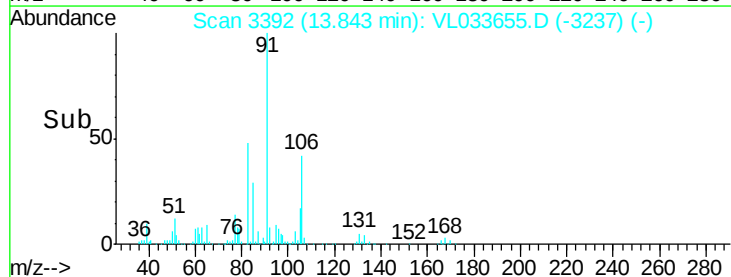
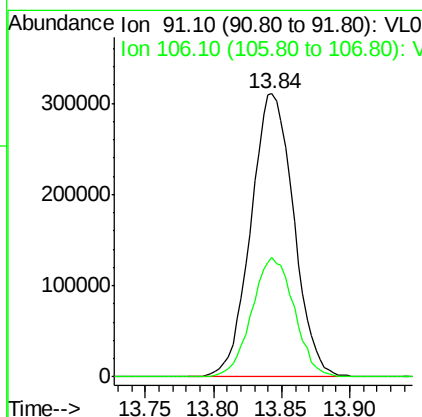
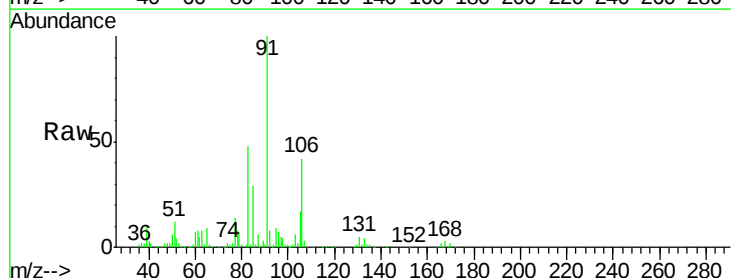
Manual Integrations
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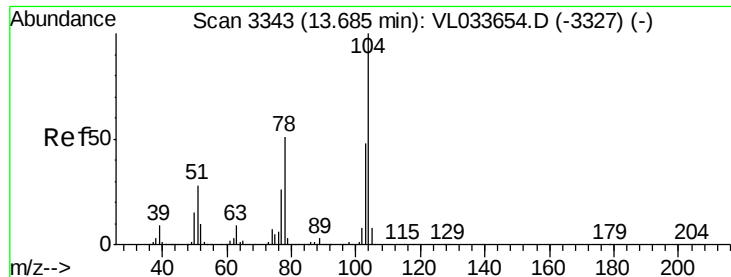
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#60
o-Xylene
Concen: 2.387 ppbv
RT: 13.84 min Scan# 3392
Delta R.T. -0.00 min
Lab File: VL033655.D
Acq: 6 May 2019 11:39

Tgt Ion: 91 Resp: 677435
Ion Ratio Lower Upper
91 100
106 41.8 21.7 65.1





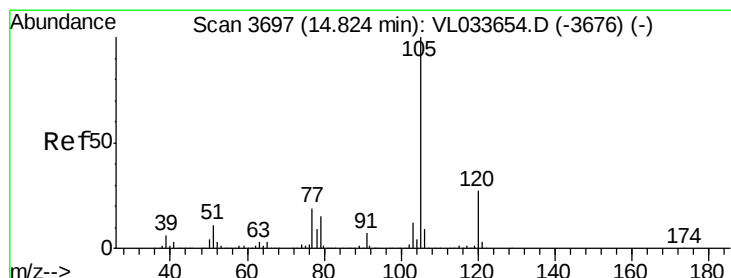
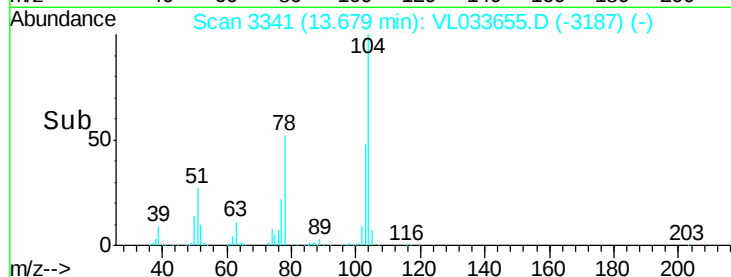
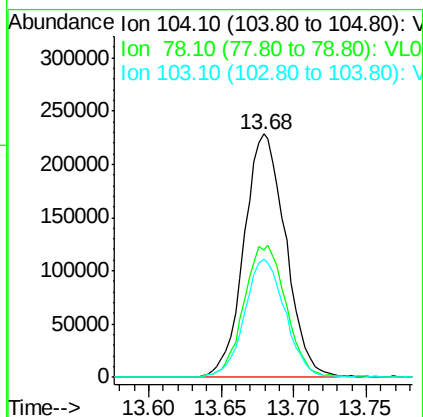
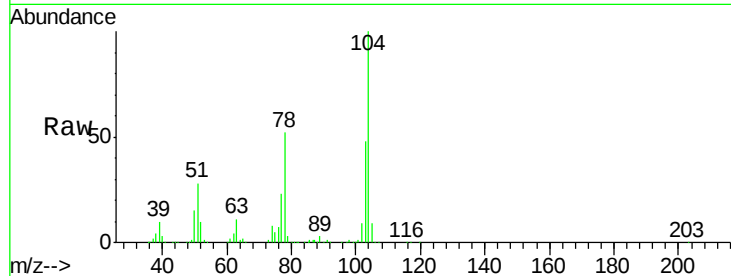
#61
Stvrene
Concen: 2.334 ppbv
RT: 13.68 min Scan# 3341
Delta R.T. -0.01 min
Lab File: VL033655.D
Acq: 6 May 2019 11:39

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	Ratio	Resp	Lower	Upper
104	100	454374		
78	55.6	43.0	64.6	
103	48.0	38.1	57.1	

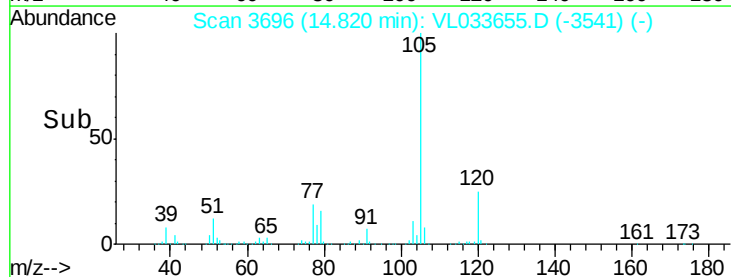
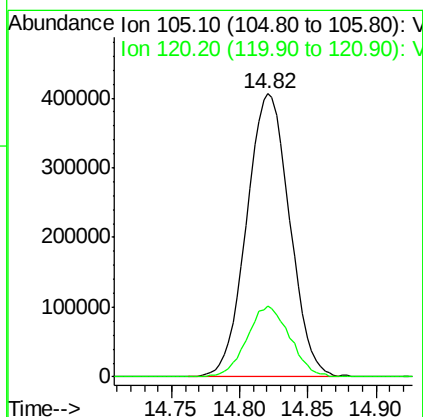
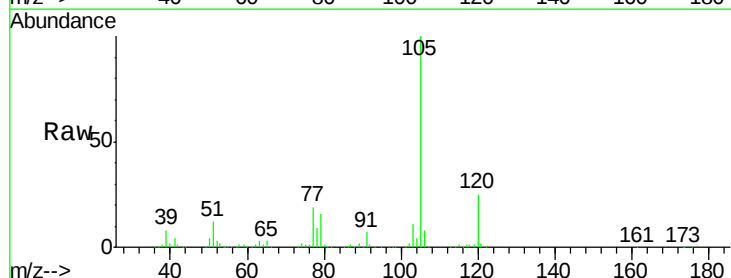
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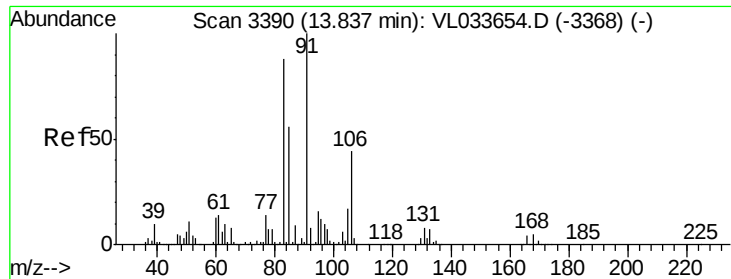
MMDadoda
5/8/2019 12:05:52 PM



#62
Isopropylbenzene
Concen: 2.357 ppbv
RT: 14.82 min Scan# 3696
Delta R.T. -0.00 min
Lab File: VL033655.D
Acq: 6 May 2019 11:39

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	891623		
120	24.9	20.5	30.7	





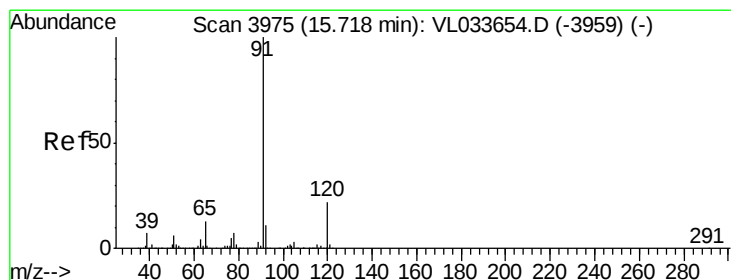
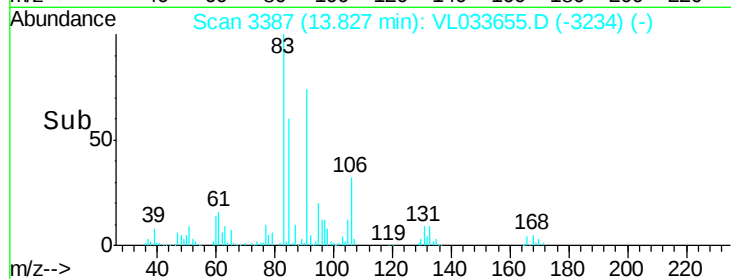
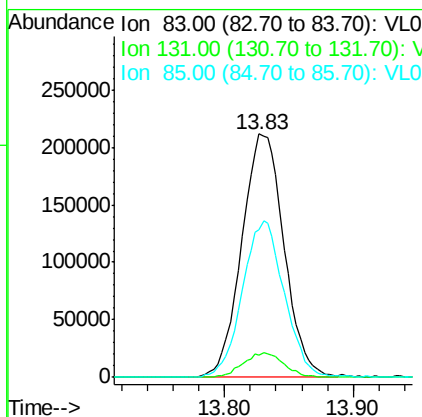
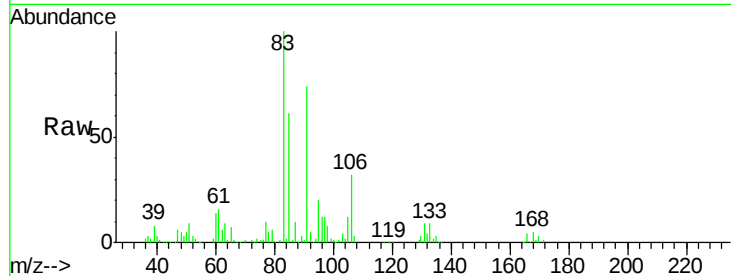
#63
 1,1,2,2-Tetrachloroethane
 Concen: 2.248 ppbv
 RT: 13.83 min Scan# 3387
 Delta R.T. -0.01 min
 Lab File: VL033655.D
 Acq: 6 May 2019 11:39

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion	Ratio	Resp	Lower	Upper
83	100	482826		
131	9.8	4.8	14.3	
85	64.0	32.5	97.5	

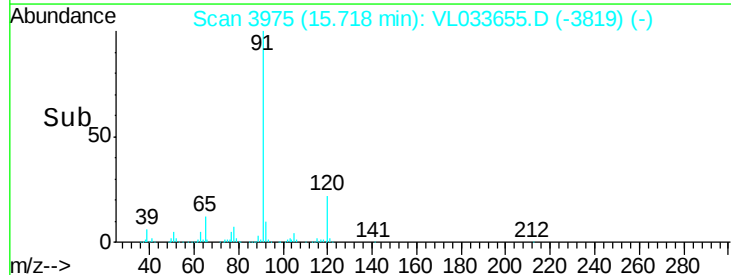
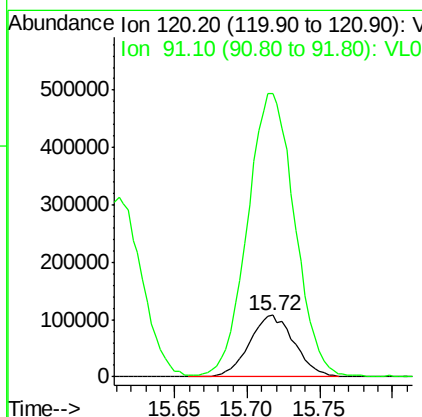
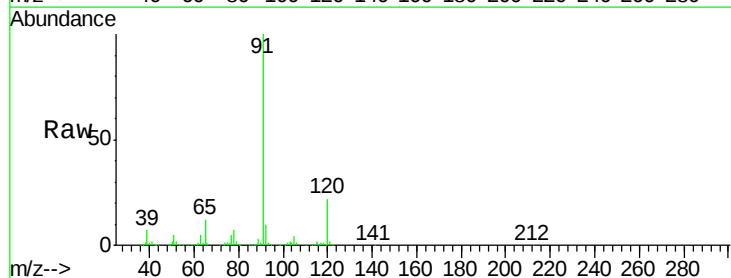
Manual Integrations
 APPROVED

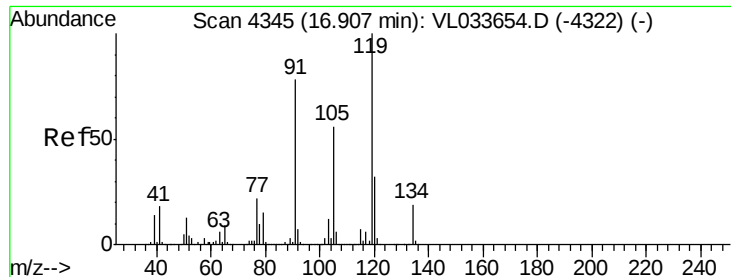
MMDadoda
 5/8/2019 12:05:52 PM



#64
 n-propylbenzene
 Concen: 2.358 ppbv
 RT: 15.72 min Scan# 3975
 Delta R.T. 0.00 min
 Lab File: VL033655.D
 Acq: 6 May 2019 11:39

Tgt Ion	Ratio	Resp	Lower	Upper
120	100	231935		
91	485.3	379.4	569.2	





#65

tert-Butylbenzene

Concen: 2.359 ppbv

RT: 16.90 min Scan# 4344

Delta R.T. -0.00 min

Lab File: VL033655.D

Acq: 6 May 2019 11:39

Instrument :

MSVOA_L

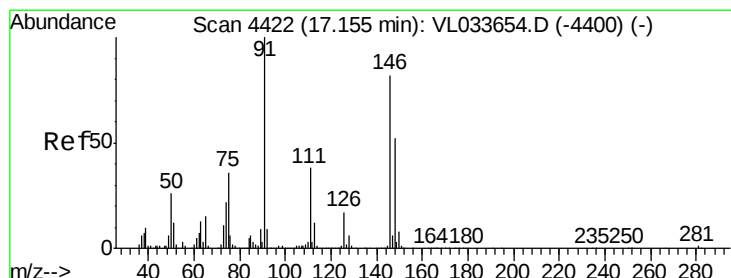
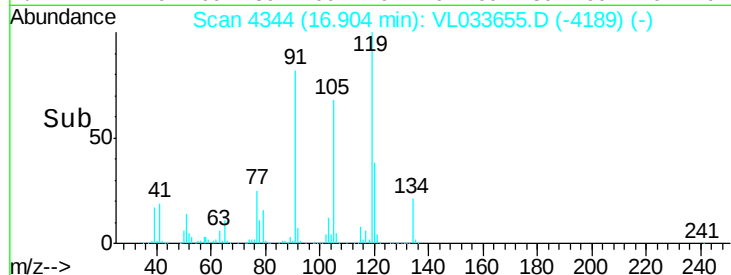
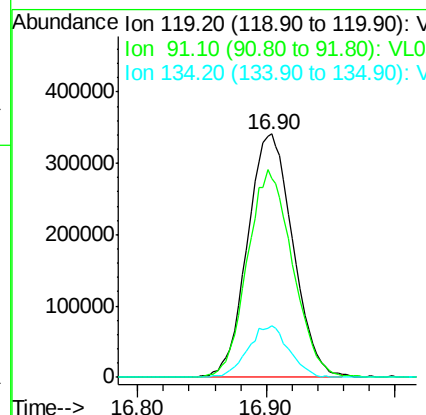
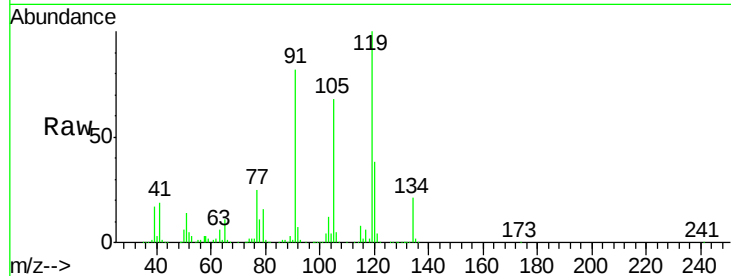
ClientSampleId :

VSTDIC002

Tot Ion:	119	Resp:	835117
Ion Ratio	Lower	Upper	
119	100		
91	85.3	65.9	98.9
134	19.1	15.5	23.3

Manual Integrations
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#66

Benzyl Chloride

Concen: 2.196 ppbv

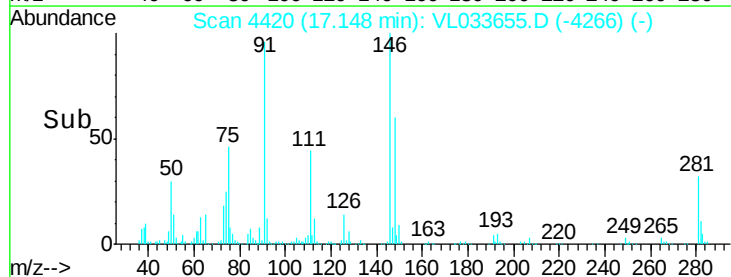
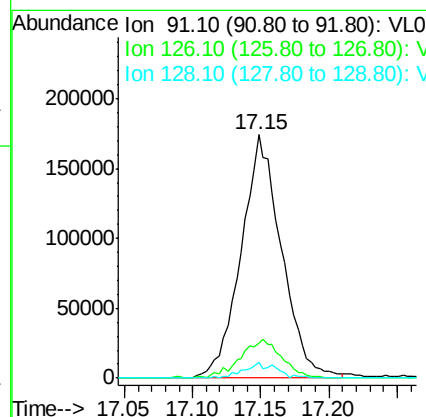
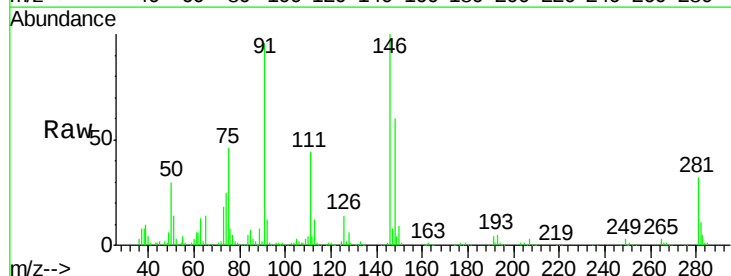
RT: 17.15 min Scan# 4420

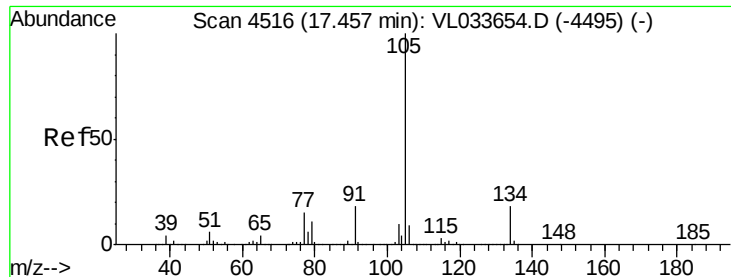
Delta R.T. -0.01 min

Lab File: VL033655.D

Acq: 6 May 2019 11:39

Tgt Ion:	91	Resp:	358528
Ion Ratio	Lower	Upper	
91	100		
126	16.6	13.4	20.2
128	5.4	4.4	6.6





#67

sec-Butylbenzene

Concen: 2.388 ppbv

RT: 17.45 min Scan# 4515

Delta R.T. -0.00 min

Lab File: VL033655.D

Acq: 6 May 2019 11:39

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 105 Resp: 1185259

Ion Ratio Lower Upper

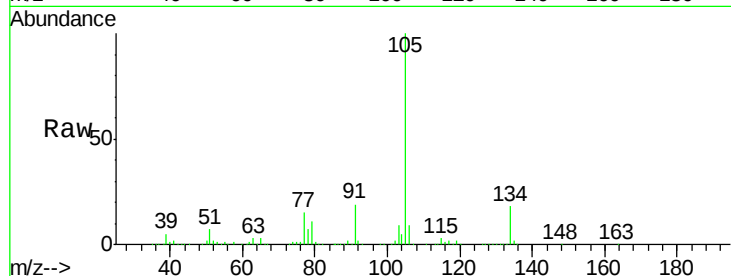
105 100

134 17.8 14.6 22.0

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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V

17.45

500000

400000

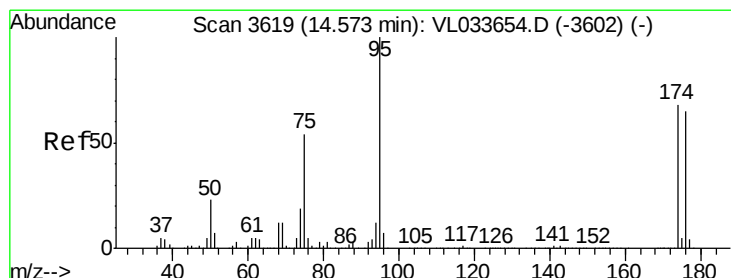
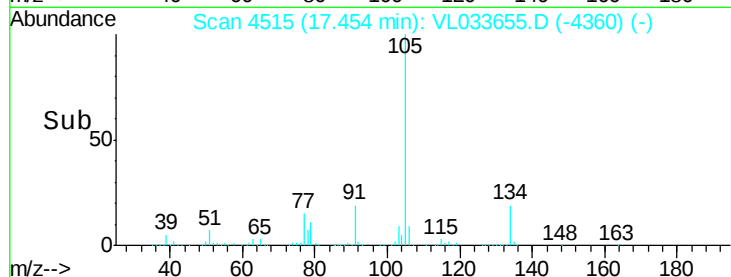
300000

200000

100000

0

Time-->



#68

1-Bromo-4-Fluorobenzene

Concen: 9.960 ppbv

RT: 14.57 min Scan# 3618

Delta R.T. -0.00 min

Lab File: VL033655.D

Acq: 6 May 2019 11:39

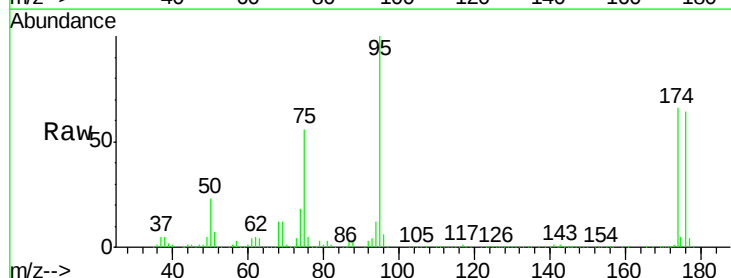
Tgt Ion: 95 Resp: 2073527

Ion Ratio Lower Upper

95 100

174 66.5 54.0 81.0

175 4.8 3.8 5.8



Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

14.57

1200000

1000000

800000

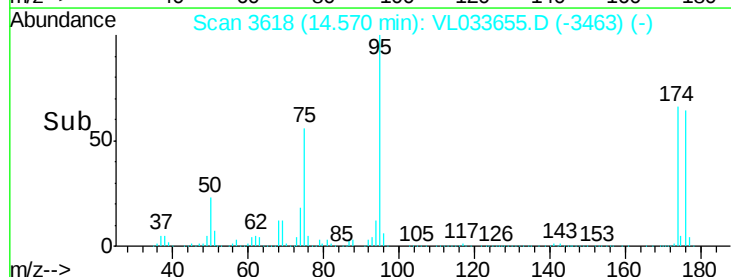
600000

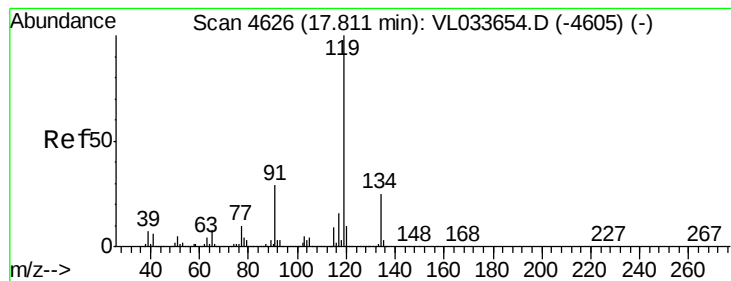
400000

200000

0

Time-->





#69

p-Isopropyltoluene

Concen: 2.369 ppbv

RT: 17.81 min Scan# 4625

Delta R.T. -0.00 min

Lab File: VL033655.D

Acq: 6 May 2019 11:39

Instrument :

MSVOA_L

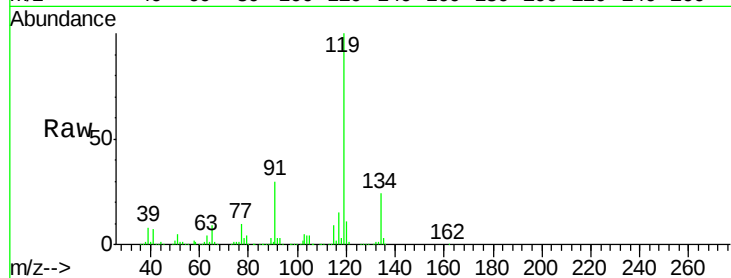
ClientSampleId :

VSTDIC002

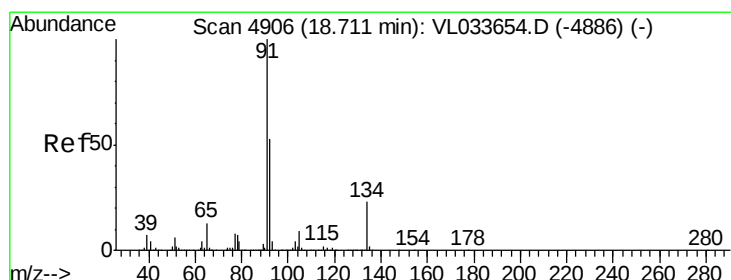
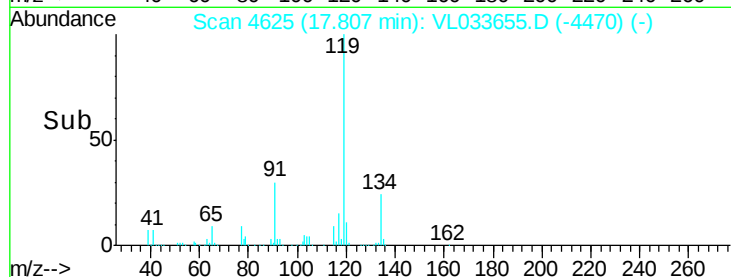
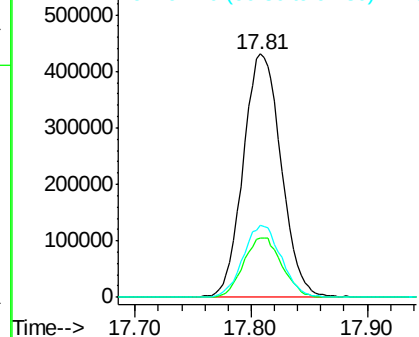
Tot Ion:	119	Resp:	978842
Ion Ratio	Lower	Upper	
119	100		
134	24.8	20.2	30.2
91	29.9	23.3	34.9

Manual Integrations
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5/8/2019 12:05:52 PM



Abundance Ion 119.10 (118.80 to 119.80): V
Ion 134.20 (133.90 to 134.90): V
Ion 91.10 (90.80 to 91.80): V



#70

n-Butylbenzene

Concen: 2.328 ppbv

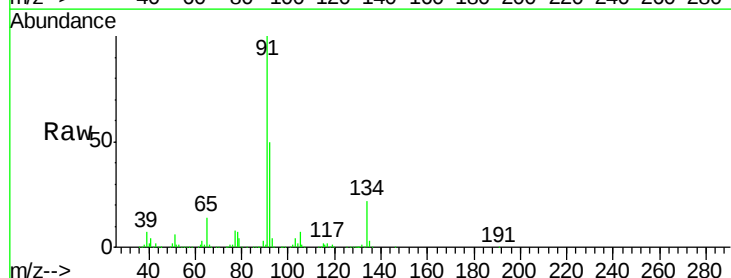
RT: 18.71 min Scan# 4906

Delta R.T. 0.00 min

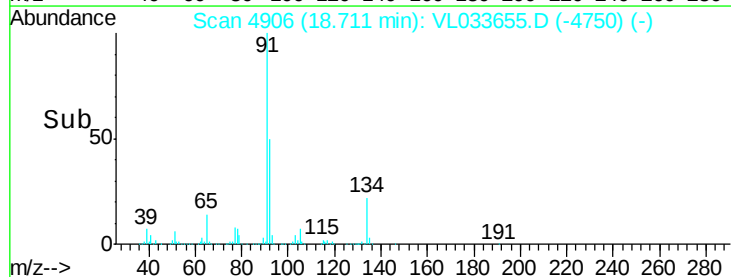
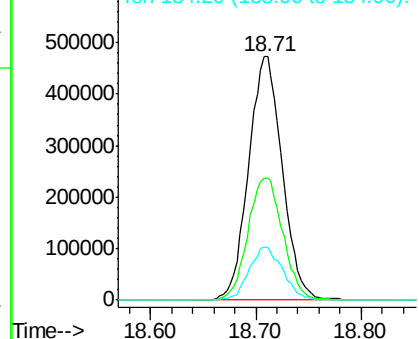
Lab File: VL033655.D

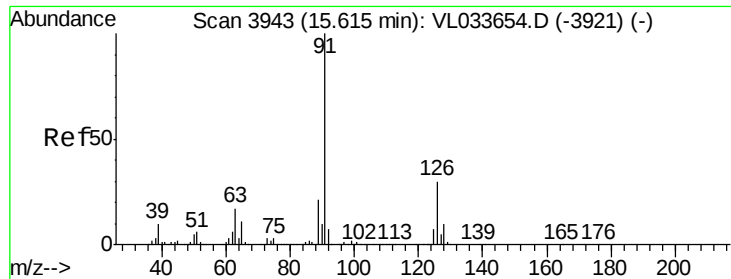
Acq: 6 May 2019 11:39

Tgt Ion:	91	Resp:	1048430
Ion Ratio	Lower	Upper	
91	100		
92	52.1	42.5	63.7
134	21.7	18.0	27.0



Abundance Ion 91.10 (90.80 to 91.80): VL0
Ion 92.10 (91.80 to 92.80): VL0
Ion 134.20 (133.90 to 134.90): V





#71

2-Chlorotoluene

Concen: 2.382 ppbv

RT: 15.61 min Scan# 3942

Delta R.T. -0.00 min

Lab File: VL033655.D

Acq: 6 May 2019 11:39

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 91 Resp: 676054

Ion Ratio Lower Upper

91 100

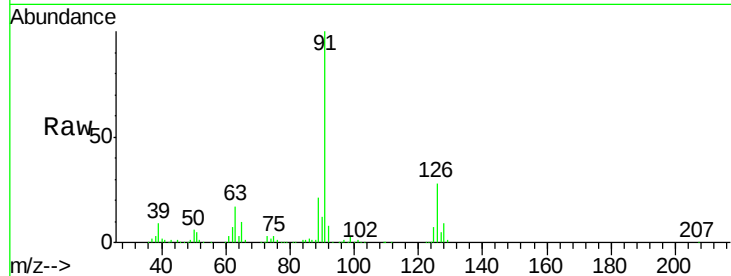
126 29.1 12.0 47.8

Manual Integrations

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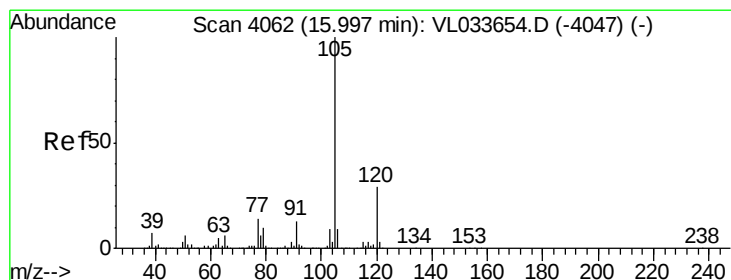
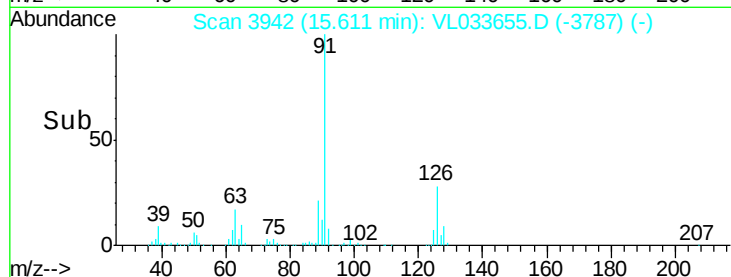
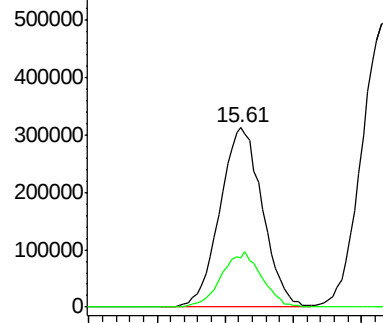
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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V



#72

4-Ethyltoluene

Concen: 2.384 ppbv

RT: 15.99 min Scan# 4061

Delta R.T. -0.00 min

Lab File: VL033655.D

Acq: 6 May 2019 11:39

Tgt Ion:105 Resp: 774454

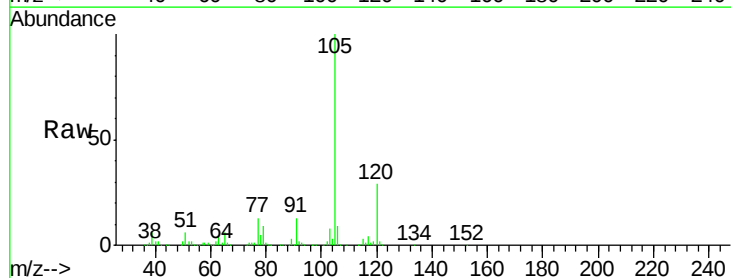
Ion Ratio Lower Upper

105 100

120 29.0 23.0 34.6

91 13.5 10.6 15.8

77 14.2 11.1 16.7

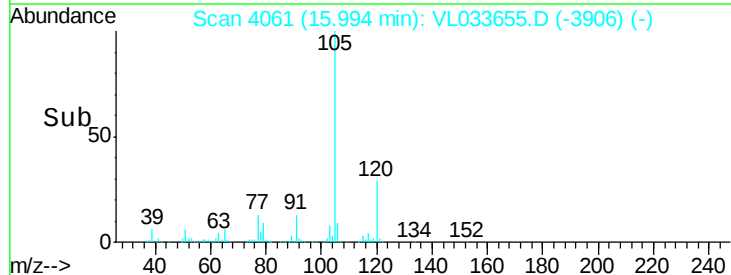
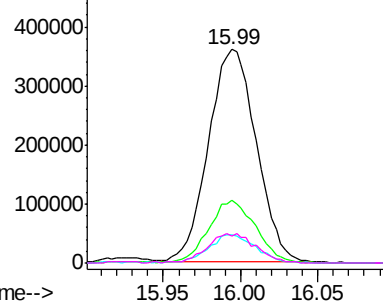


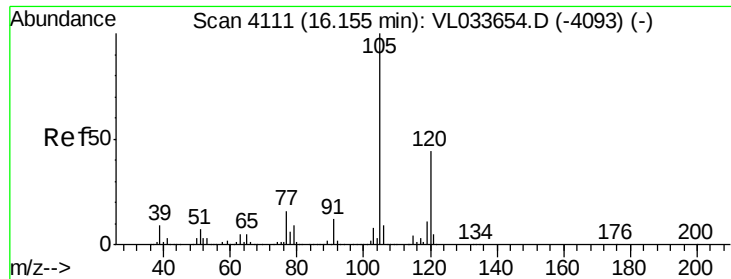
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0





#73

1,3,5-Trimethylbenzene

Concen: 2.364 ppbv

RT: 16.15 min Scan# 4110

Delta R.T. -0.00 min

Lab File: VL033655.D

Acq: 6 May 2019 11:39

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion:105 Resp: 752282

Ion Ratio Lower Upper

105 100

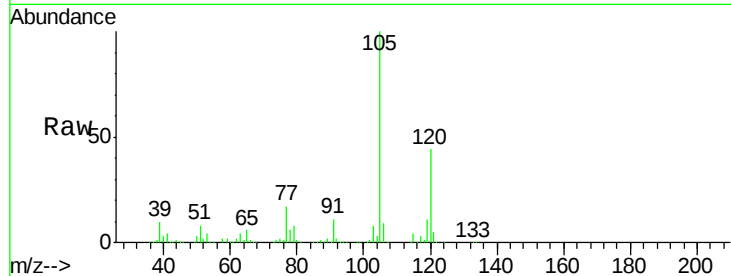
120 44.4 35.5 53.3

Manual Integrations

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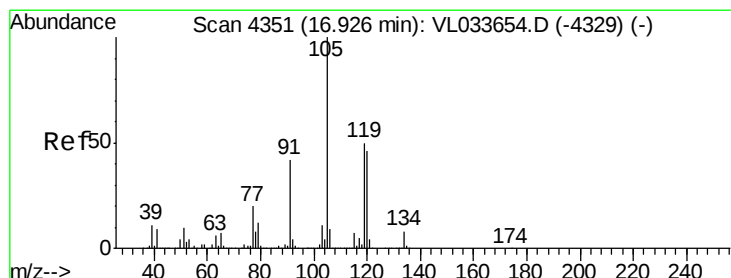
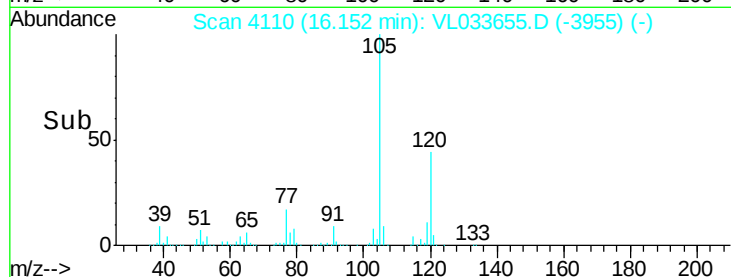
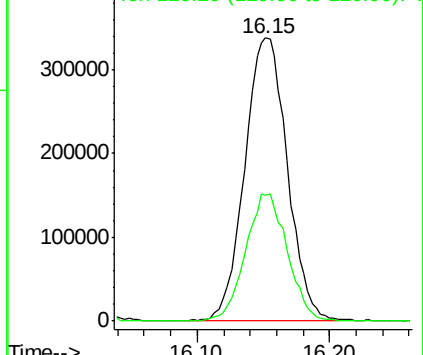
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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 2.360 ppbv

RT: 16.92 min Scan# 4349

Delta R.T. -0.01 min

Lab File: VL033655.D

Acq: 6 May 2019 11:39

Tgt Ion:105 Resp: 833156

Ion Ratio Lower Upper

105 100

120 47.2 36.5 54.7

91 44.6 33.7 50.5

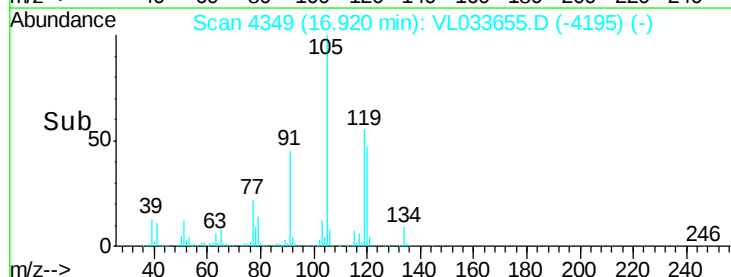
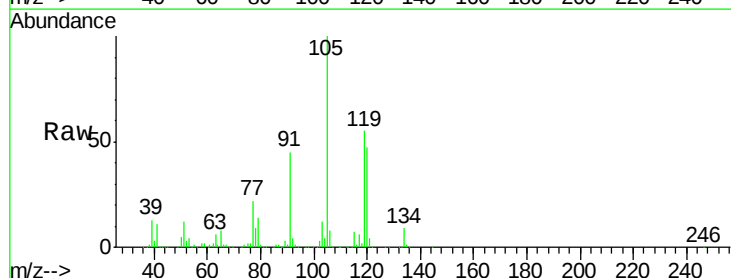
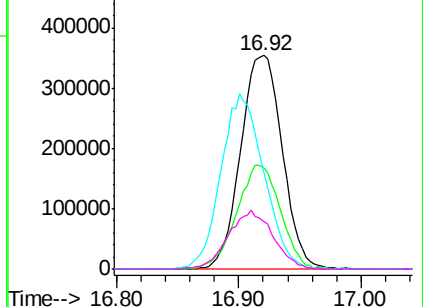
77 22.0 16.3 24.5

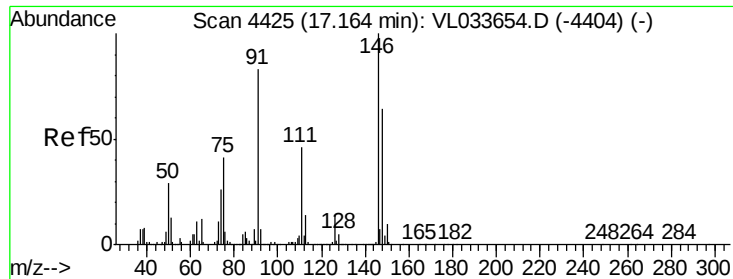
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0





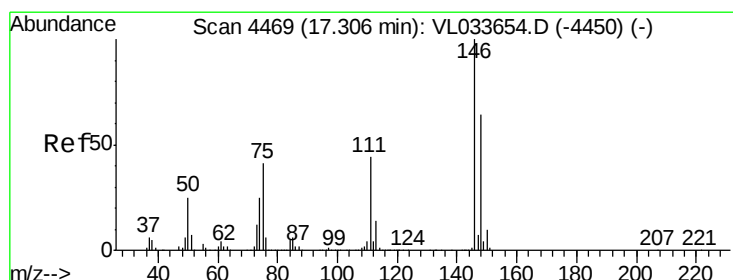
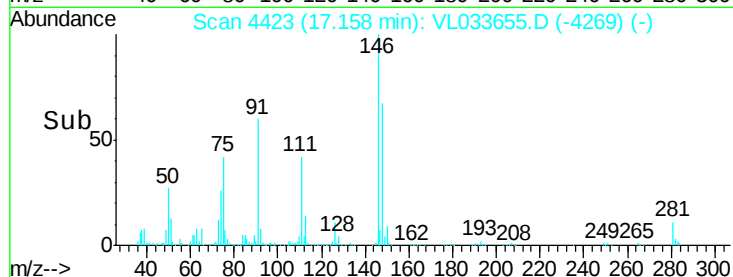
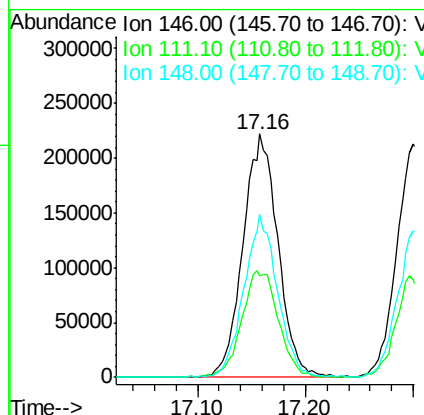
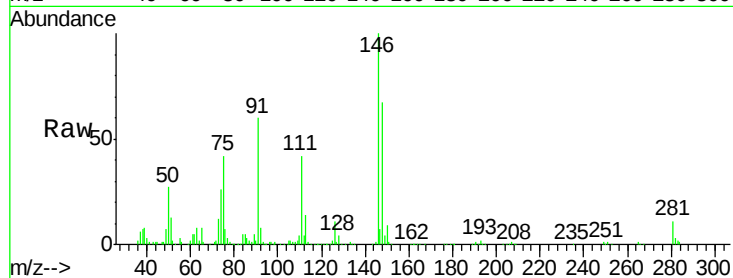
#75
 1,3-Dichlorobenzene
 Concen: 2.286 ppbv
 RT: 17.16 min Scan# 4423
 Delta R.T. -0.01 min
 Lab File: VL033655.D
 Acq: 6 May 2019 11:39

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion	Ratio	Lower	Upper
146	100		
111	46.2	22.6	67.7
148	64.2	31.8	95.4

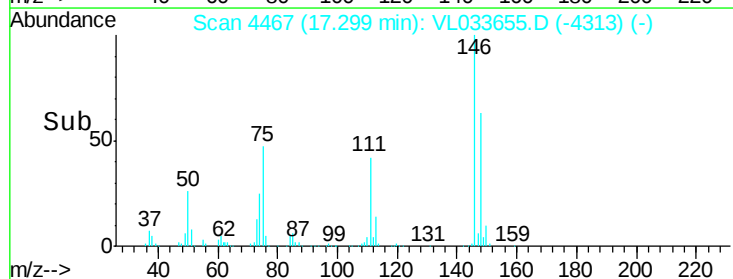
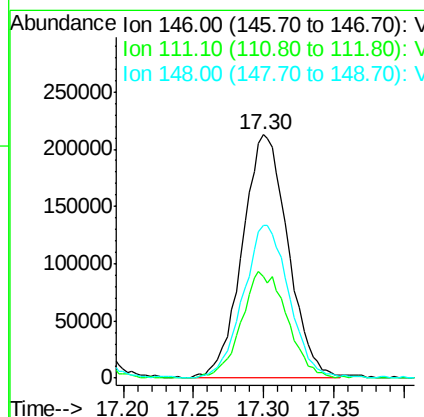
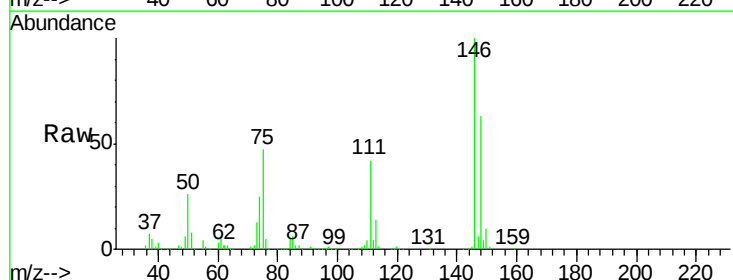
Manual Integrations
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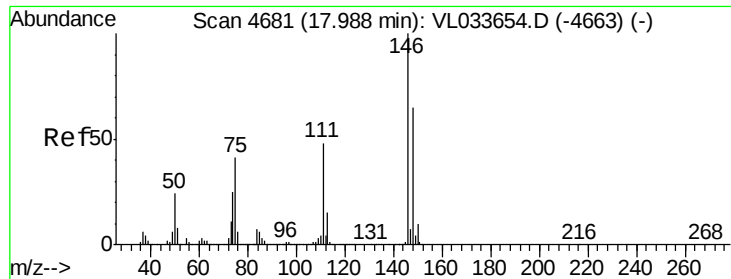
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#76
 1,4-Dichlorobenzene
 Concen: 2.289 ppbv
 RT: 17.30 min Scan# 4467
 Delta R.T. -0.01 min
 Lab File: VL033655.D
 Acq: 6 May 2019 11:39

Tgt Ion	Ratio	Lower	Upper
146	100		
111	44.2	21.9	65.7
148	64.1	32.0	96.0





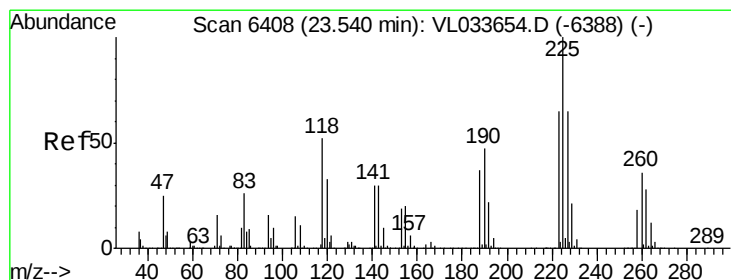
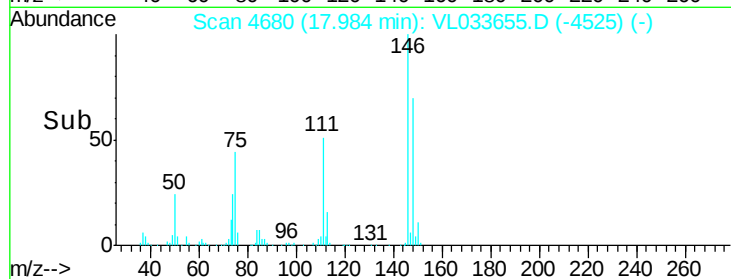
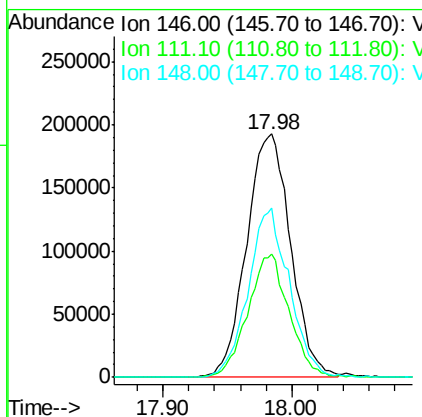
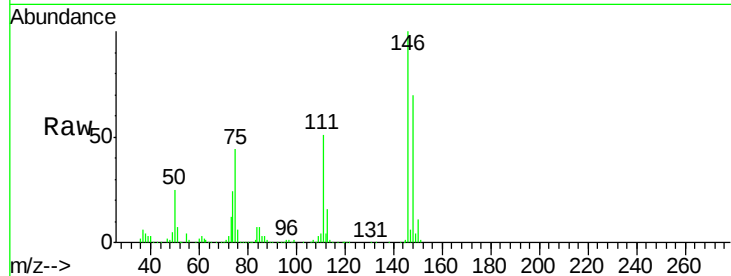
#77
 1,2-Dichlorobenzene
 Concen: 2.254 ppbv
 RT: 17.98 min Scan# 4680
 Delta R.T. -0.00 min
 Lab File: VL033655.D
 Acq: 6 May 2019 11:39

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion	Ratio	Lower	Upper
146	100		
111	47.6	23.4	70.0
148	65.0	31.9	95.9

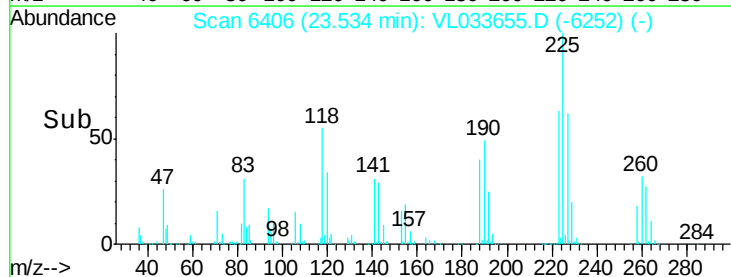
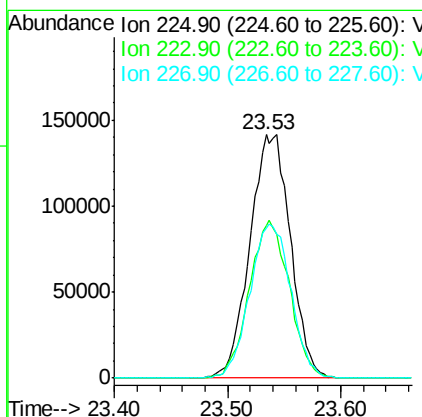
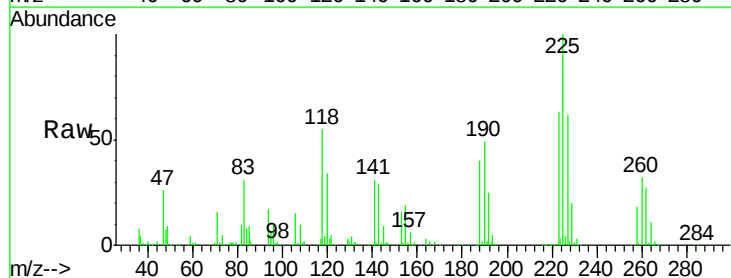
Manual Integrations
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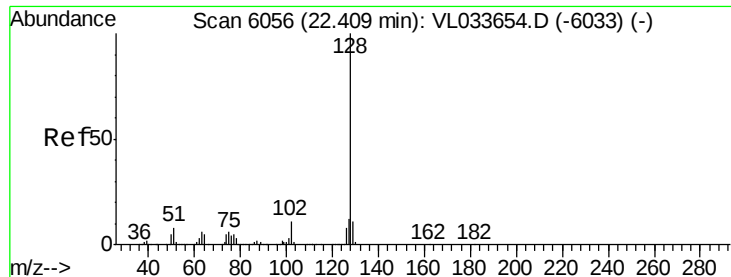
MMDadoda
 5/8/2019 12:05:52 PM



#78
 Hexachloro-1,3-Butadiene
 Concen: 2.261 ppbv
 RT: 23.53 min Scan# 6406
 Delta R.T. -0.01 min
 Lab File: VL033655.D
 Acq: 6 May 2019 11:39

Tgt Ion	Ratio	Lower	Upper
225	100		
223	64.0	50.7	76.1
227	63.9	51.4	77.2





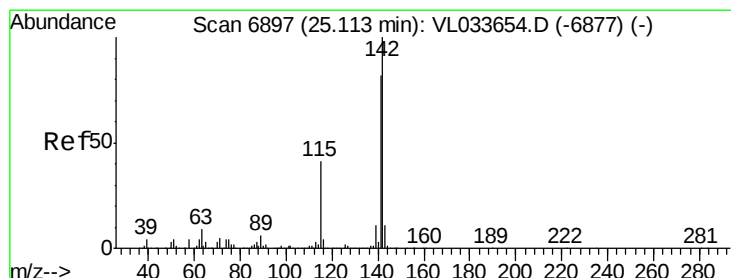
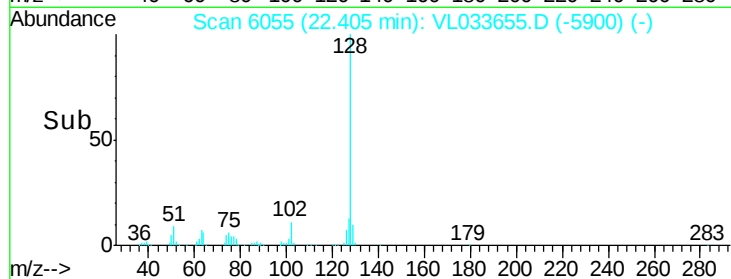
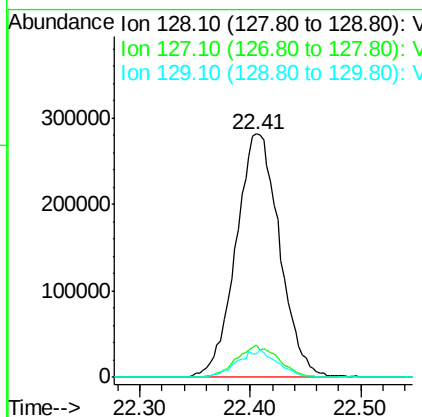
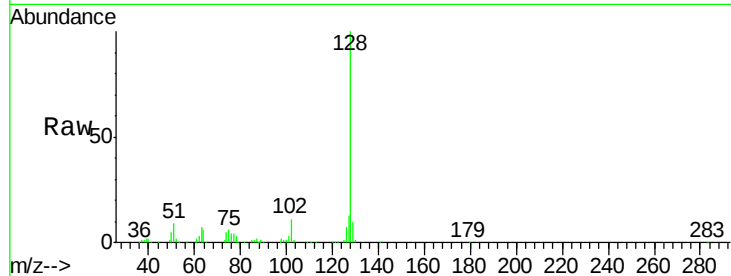
#79
Naphthalene
Concen: 2.320 ppbv
RT: 22.41 min Scan# 6055
Delta R.T. -0.00 min
Lab File: VL033655.D
Acq: 6 May 2019 11:39

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	Ratio	Resp	Lower	Upper
128	100	764403		
127	13.5		9.8	14.8
129	9.7		8.8	13.2

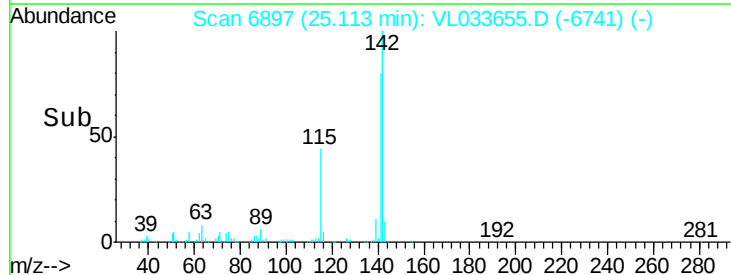
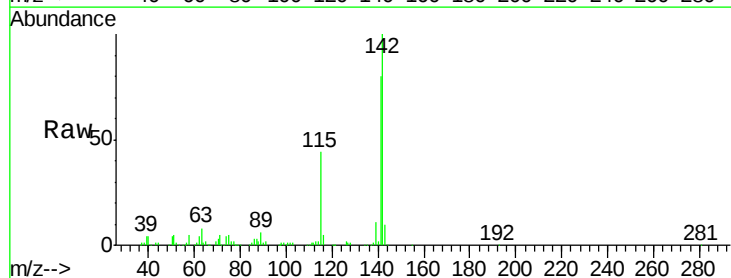
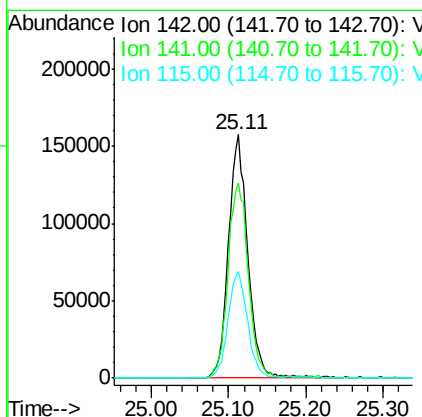
Manual Integrations
APPROVED

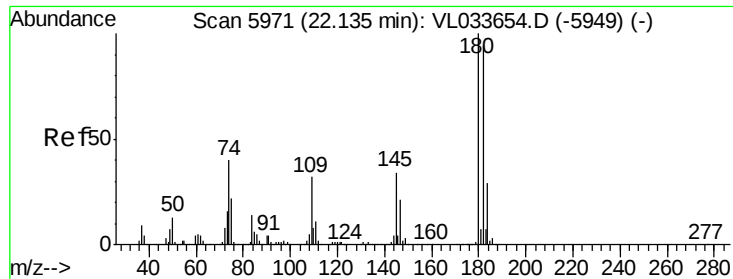
MMDadoda
5/8/2019 12:05:52 PM



#80
Naphthalene, 2-methyl-
Concen: 1.934 ppbv
RT: 25.11 min Scan# 6897
Delta R.T. 0.00 min
Lab File: VL033655.D
Acq: 6 May 2019 11:39

Tgt Ion	Ratio	Resp	Lower	Upper
142	100	270388		
141	84.8		67.8	101.8
115	44.4		34.2	51.4





#81
 1,2,4-Trichlorobenzene
 Concen: 2.321 ppbv m
 RT: 22.13 min Scan# 5968
 Delta R.T. -0.01 min
 Lab File: VL033655.D
 Acq: 6 May 2019 11:39

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion	Ratio	Lower	Upper
180	100		
182	94.7	77.4	116.0
184	30.0	24.6	36.8

Manual Integrations
 APPROVED

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