

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL073019\
 Data File : VL034051.D
 Acq On : 30 Jul 2019 4:03
 Operator : SY/AP
 Sample : VSTDIC0.5
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Manual Integrations
 APPROVED

MMdadoda
 8/2/2019 9:37:37 AM

Quant Time: Jul 30 05:28:42 2019

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL073019AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Jul 30

QLast Update : Tue Jul 30 05:02:48 2019

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.72	49	1135059	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.24	114	4169162	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.18	117	3066102	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.52	95	2459557	9.77	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.70%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	3.05	85	148846	0.624	ppbv	88
3) Chlorodifluoromethane	2.99	51	71538	0.502	ppbv	98
4) Chloromethane	3.14	50	41478m	0.495	ppbv	
5) Vinyl Chloride	3.27	62	43118m	0.463	ppbv	
6) Bromomethane	3.49	94	26067	0.462	ppbv	95
7) Chloroethane	3.57	64	18725m	0.544	ppbv	
8) Dichlorotetrafluoroethane	3.19	85	117073	0.494	ppbv	96
9) Propene	3.01	41	25826	0.493	ppbv	99
10) Heptane	8.20	43	61024m	0.483	ppbv	
11) Trichlorofluoromethane	3.97	101	128782	0.468	ppbv	88
12) 1,1,2-Trichlorotrifluoroet	4.52	101	93000	0.508	ppbv	95
13) Ethanol	3.64	45	13128m	0.798	ppbv	
14) Bromoethene	3.75	108	35717	0.500	ppbv	93
15) Acetone	3.88	43	91229	0.459	ppbv	100
16) 1,3-Butadiene	3.33	39	31197	0.434	ppbv	100
17) tert-Butyl alcohol	4.34	59	78492m	0.519	ppbv	
18) 1,1-Dichloroethene	4.32	96	37989	0.463	ppbv	82
19) Isopropyl Alcohol	4.00	45	63896	0.479	ppbv #	94
20) Methylene Chloride	4.37	84	37584	0.459	ppbv #	85
21) Allyl Chloride	4.44	41	56320	0.480	ppbv	96
22) trans-1,2-Dichloroethene	4.92	96	42041	0.538	ppbv	87
23) Vinyl Acetate	5.12	43	84087m	0.450	ppbv	
24) 1,1-Dichloroethane	5.05	63	87438	0.523	ppbv	98
25) Ethyl Acetate	5.73	43	129217	0.501	ppbv #	97
26) Hexane	5.73	57	59663m	0.505	ppbv	
27) Carbon Disulfide	4.59	76	91948	0.462	ppbv #	91
28) Methyl tert-Butyl Ether	5.09	73	100001	0.502	ppbv	98
29) Chloroform	5.80	83	110063	0.497	ppbv	87
30) Cyclohexane	7.20	84	57429m	0.594	ppbv	
31) cis-1,2-Dichloroethene	5.59	61	51266m	0.451	ppbv	
32) 1,1,1-Trichloroethane	6.58	97	118768m	0.529	ppbv	
34) 2-Butanone	5.30	43	75717	0.366	ppbv	93
35) Carbon Tetrachloride	7.09	117	149711	0.475	ppbv	95
36) Benzene	6.96	78	110826m	0.366	ppbv	
37) 1,2-Dichloroethane	6.36	62	99387	0.441	ppbv #	96
38) Trichloroethene	7.91	130	47835m	0.347	ppbv	
39) 1,2-Dichloropropane	7.68	63	46245m	0.404	ppbv	
40) 1,4-Dioxane	7.94	88	21486m	0.412	ppbv	
41) Tetrahydrofuran	6.13	42	35374m	0.353	ppbv	
42) Bromodichloromethane	7.87	83	113950	0.378	ppbv	99
43) Methyl Methacrylate	8.10	69	39684m	0.347	ppbv	

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Manual Integrations
 APPROVED

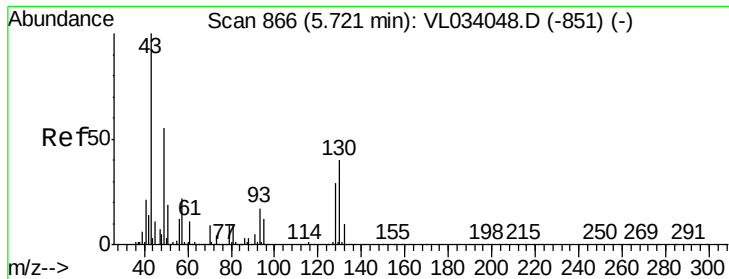
MMdadoda
 8/2/2019 9:37:37 AM

Quant Time: Jul 30 05:28:42 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL073019AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Jul 30
 QLast Update : Tue Jul 30 05:02:48 2019
 Response via : Initial Calibration

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

44) 2,2,4-Trimethylpentane	7.94	57	188352	0.359	ppbv	95
45) t-1,3-Dichloropropene	9.36	75	45284m	0.306	ppbv	
46) cis-1,3-Dichloropropene	8.78	75	51210	0.297	ppbv	97
47) 1,1,2-Trichloroethane	9.56	97	54338m	0.382	ppbv	
48) Dibromochloromethane	10.40	129	95041	0.332	ppbv	97
49) Bromoform	13.14	173	86616m	0.373	ppbv	
50) 4-Methyl-2-Pentanone	8.83	43	109814m	0.361	ppbv	
51) 2-Hexanone	10.24	43	71394m	0.275	ppbv	
52) Tetrachloroethene	11.32	164	47214m	0.355	ppbv	
53) Toluene	9.90	91	103852m	0.302	ppbv	
54) 1,2-Dibromoethane	10.71	107	79273m	0.380	ppbv	
56) 1,1,1,2-Tetrachloroethane	12.22	131	73351m	0.544	ppbv	
57) Chlorobenzene	12.25	112	126779m	0.528	ppbv	
58) Ethyl Benzene	12.81	91	150764	0.415	ppbv	94
59) m/p-Xylene	13.09	91	300910m	0.915	ppbv	
60) o-Xylene	13.79	91	149651	0.454	ppbv	96
61) Styrene	13.63	104	77698	0.358	ppbv	97
62) Isopropylbenzene	14.77	105	207262	0.435	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.78	83	132553	0.518	ppbv	96
64) n-propylbenzene	15.67	120	52884m	0.429	ppbv	
65) tert-Butylbenzene	16.85	119	190638	0.475	ppbv	96
66) Benzyl Chloride	17.09	91	88629m	0.436	ppbv	
67) sec-Butylbenzene	17.41	105	273921	0.483	ppbv	100
69) p-Isopropyltoluene	17.76	119	219805	0.471	ppbv	96
70) n-Butylbenzene	18.66	91	230651	0.470	ppbv	97
71) 2-Chlorotoluene	15.56	91	132871	0.383	ppbv	100
72) 4-Ethyltoluene	15.95	105	156397	0.391	ppbv #	96
73) 1,3,5-Trimethylbenzene	16.10	105	179042m	0.486	ppbv	
74) 1,2,4-Trimethylbenzene	16.87	105	209655	0.514	ppbv #	92
75) 1,3-Dichlorobenzene	17.11	146	143409	0.551	ppbv	96
76) 1,4-Dichlorobenzene	17.25	146	128626m	0.525	ppbv	
77) 1,2-Dichlorobenzene	17.93	146	124184m	0.516	ppbv	
78) Hexachloro-1,3-Butadiene	23.49	225	125393	0.597	ppbv	96
79) Naphthalene	22.35	128	156558	0.456	ppbv #	90
80) Naphthalene, 2-methyl-	25.07	142	66425	0.534	ppbv	98
81) 1,2,4-Trichlorobenzene	22.07	180	113367m	0.510	ppbv	

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.72 min Scan# 865

Delta R.T. -0.00 min

Lab File: VL034051.D

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MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 49 Resp: 1135059

Ion Ratio Lower Upper

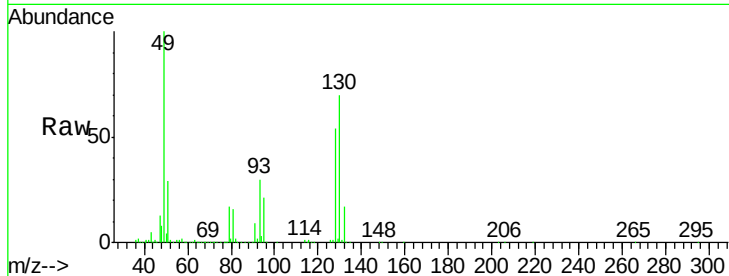
49 100

128 55.2 27.0 81.0

130 69.9 35.0 105.0

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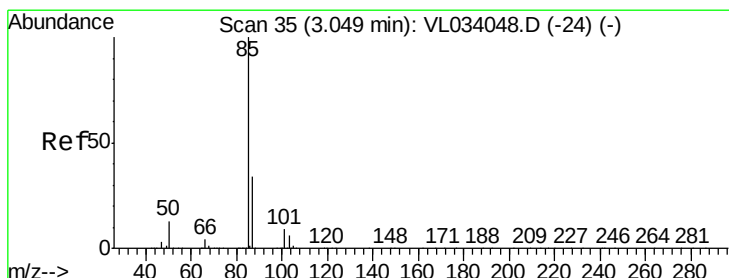
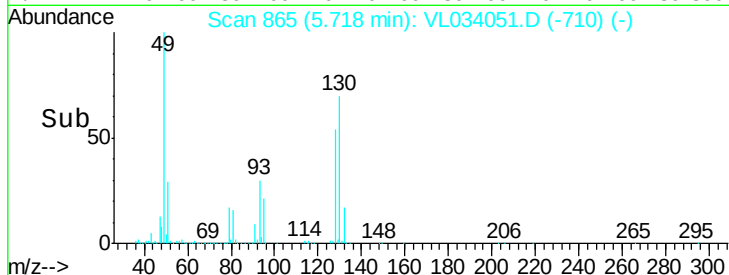
Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0

5.72

Time-->



#2

Dichlorodifluoromethane

Concen: 0.624 ppbv

RT: 3.05 min Scan# 35

Delta R.T. 0.00 min

Lab File: VL034051.D

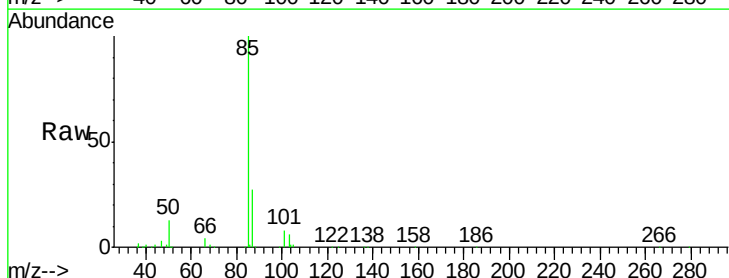
Acq: 30 Jul 2019 4:03

Tgt Ion: 85 Resp: 148846

Ion Ratio Lower Upper

85 100

87 27.0 27.0 40.4

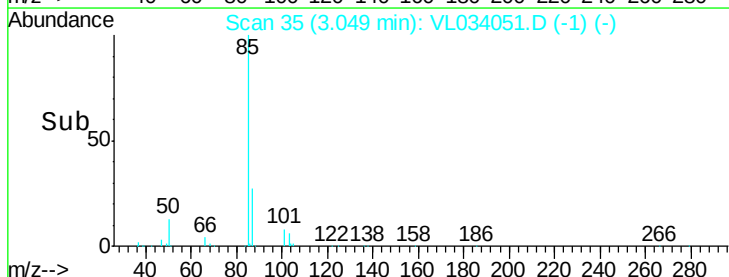


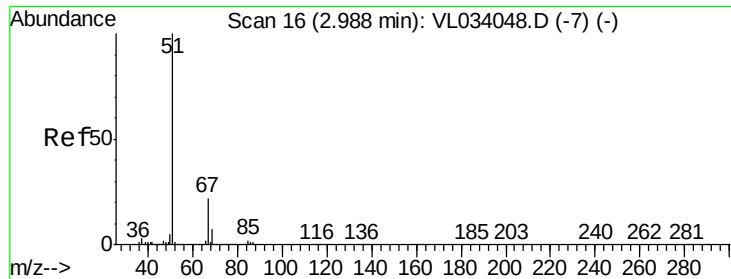
Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

3.05

Time-->





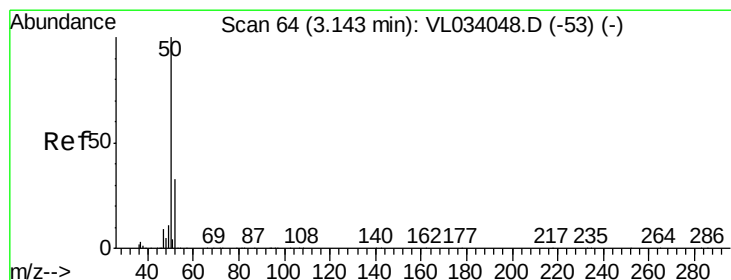
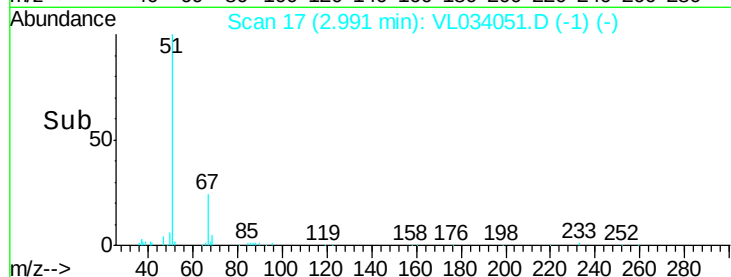
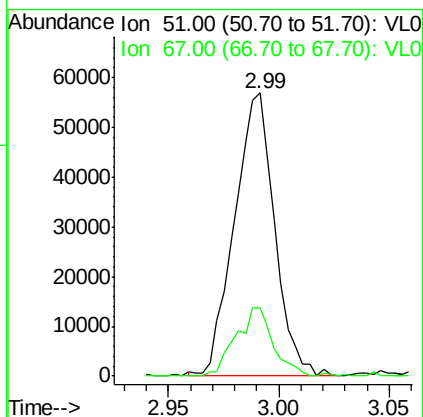
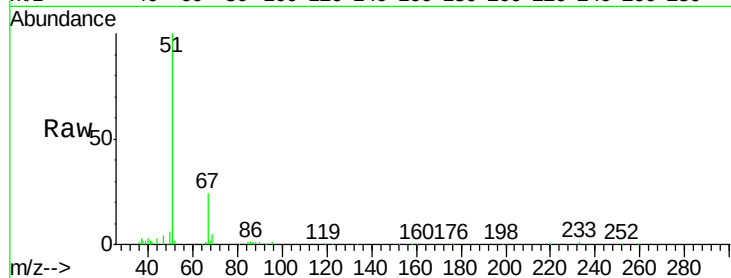
#3
 Chlorodifluoromethane
 Concen: 0.502 ppbv
 RT: 2.99 min Scan# 17
 Delta R.T. 0.00 min
 Lab File: VL034051.D
 Acq: 30 Jul 2019 4:03

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
51	100		
67	22.9	17.4	26.0

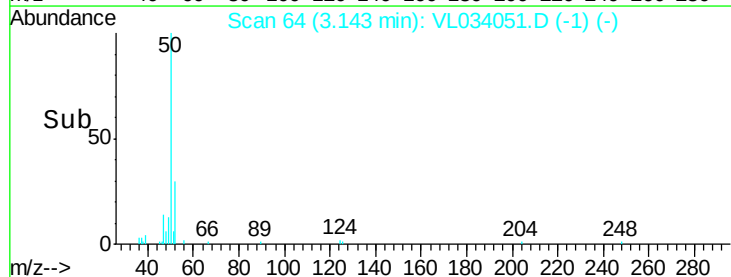
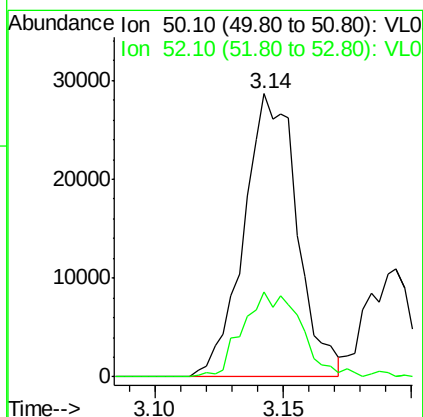
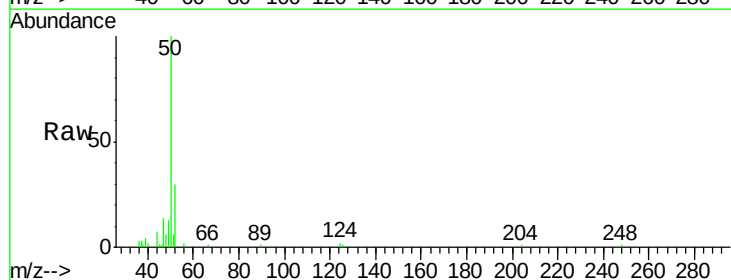
Manual Integrations
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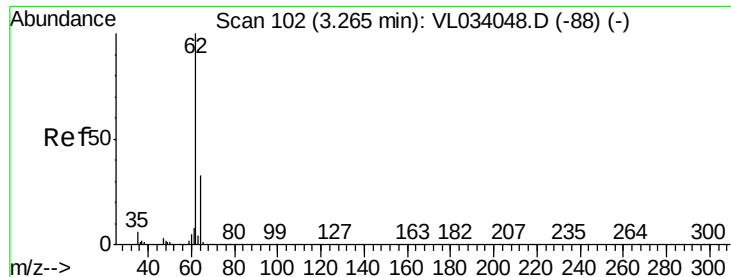
MMDadoda
 8/2/2019 9:37:37 AM



#4
 Chloromethane
 Concen: 0.495 ppbv m
 RT: 3.14 min Scan# 64
 Delta R.T. 0.00 min
 Lab File: VL034051.D
 Acq: 30 Jul 2019 4:03

Tgt Ion	Ratio	Lower	Upper
50	100		
52	30.1	26.7	40.1





#5

Vinyl Chloride

Concen: 0.463 ppbv

RT: 3.27 min Scan# 103

Delta R.T. 0.00 min

Lab File: VL034051.D

Acq: 30 Jul 2019 4:03

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 62 Resp: 43118

Ion Ratio Lower Upper

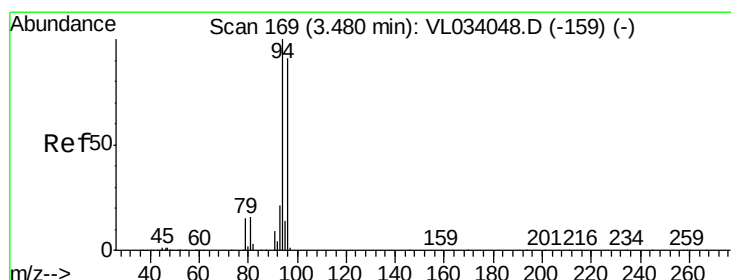
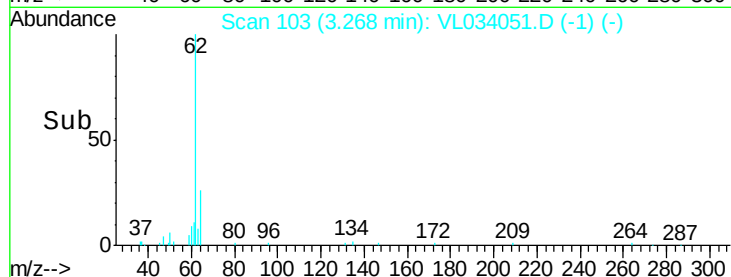
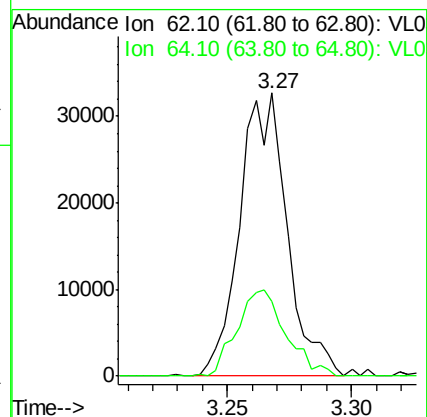
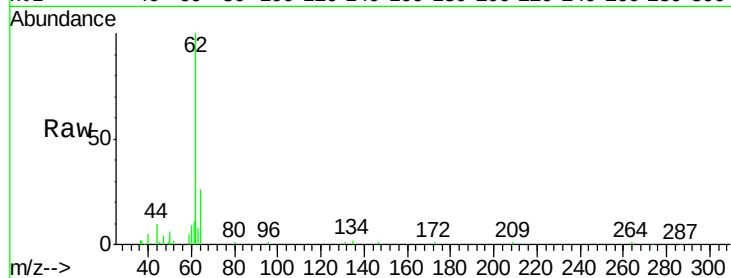
62 100

64 26.3 26.5 39.7#

Manual Integrations
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#6

Bromomethane

Concen: 0.462 ppbv

RT: 3.49 min Scan# 171

Delta R.T. 0.01 min

Lab File: VL034051.D

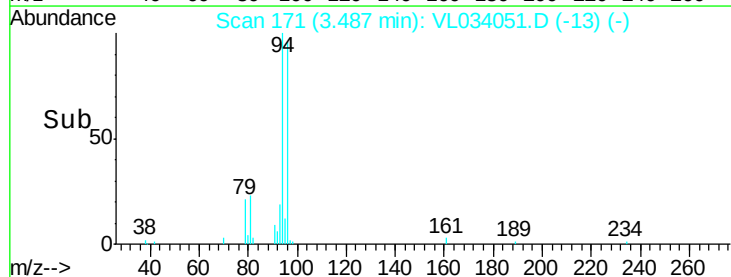
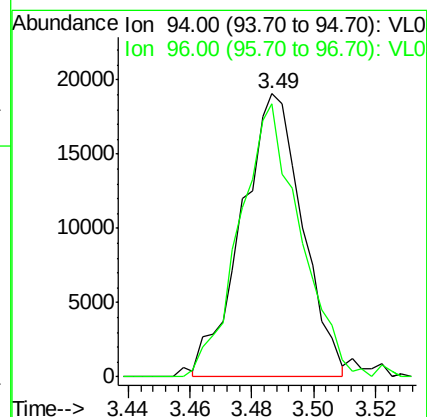
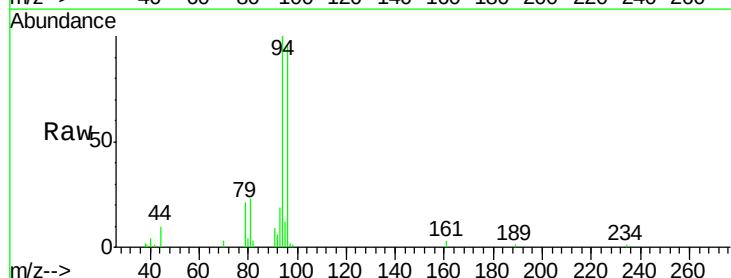
Acq: 30 Jul 2019 4:03

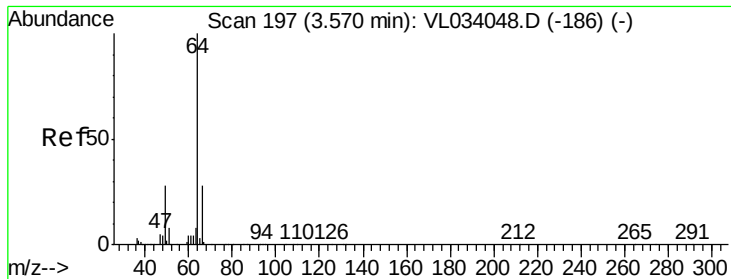
Tgt Ion: 94 Resp: 26067

Ion Ratio Lower Upper

94 100

96 95.5 72.6 108.8





#7

Chloroethane

Concen: 0.544 ppbv m

RT: 3.57 min Scan# 198

Delta R.T. 0.00 min

Lab File: VL034051.D

Acq: 30 Jul 2019 4:03

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 64 Resp: 18725

Ion Ratio Lower Upper

64 100

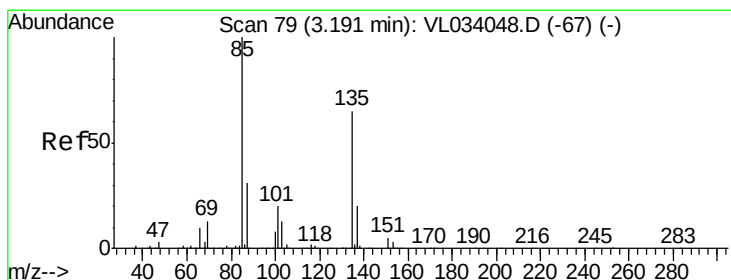
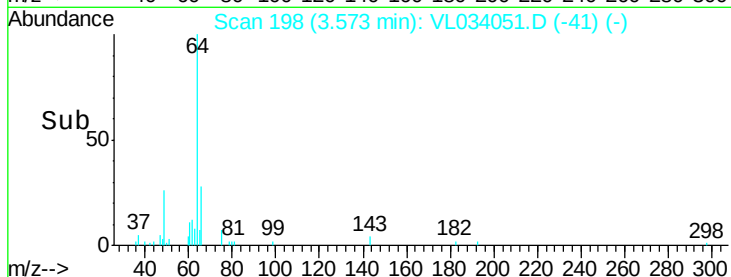
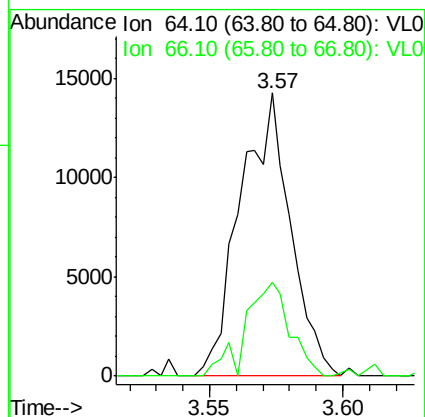
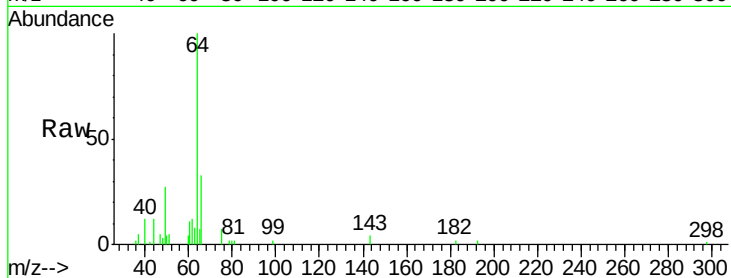
66 33.3 22.0 33.0#

Manual Integrations

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#8

Dichlorotetrafluoroethane

Concen: 0.494 ppbv

RT: 3.19 min Scan# 79

Delta R.T. -0.00 min

Lab File: VL034051.D

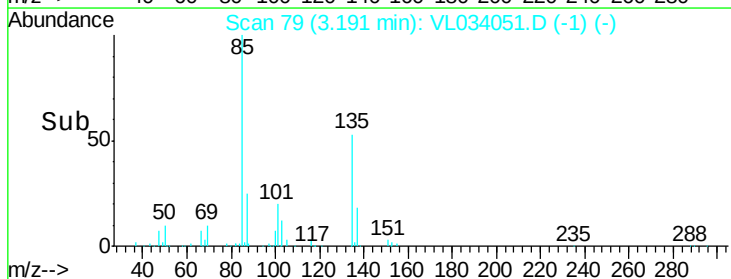
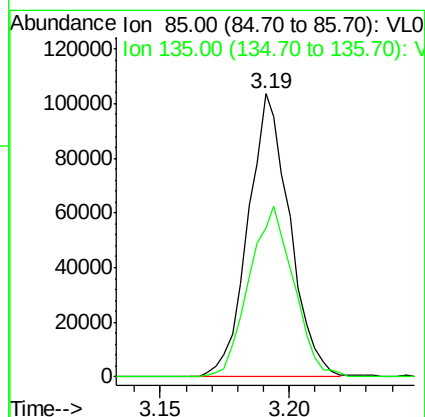
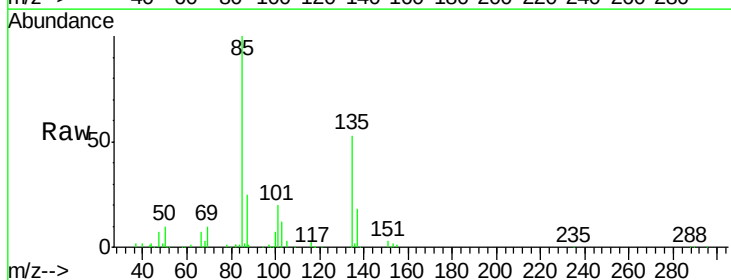
Acq: 30 Jul 2019 4:03

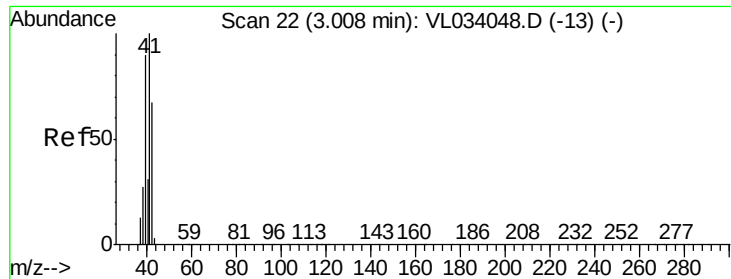
Tgt Ion: 85 Resp: 117073

Ion Ratio Lower Upper

85 100

135 64.3 54.1 81.1





#9

Propene

Concen: 0.493 ppbv

RT: 3.01 min Scan# 23

Delta R.T. 0.00 min

Lab File: VL034051.D

Acq: 30 Jul 2019 4:03

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 41 Resp: 25826

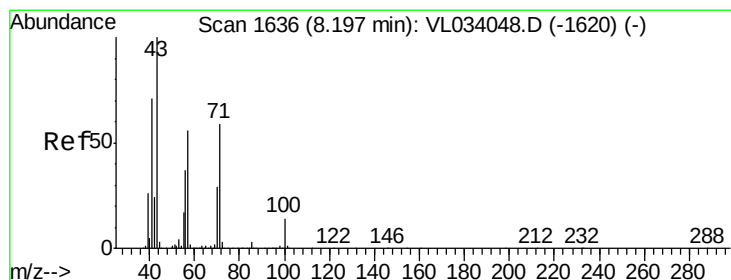
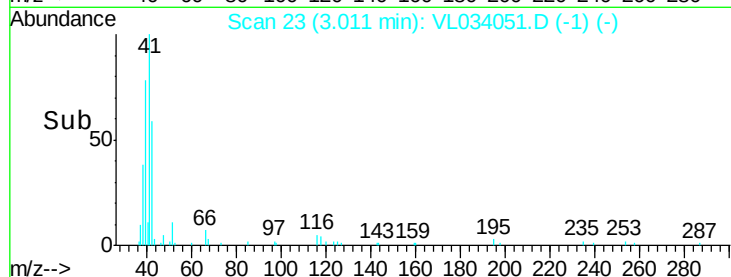
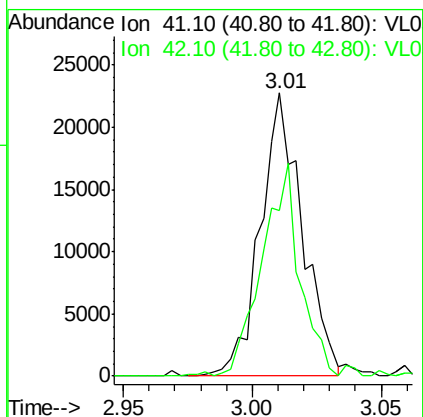
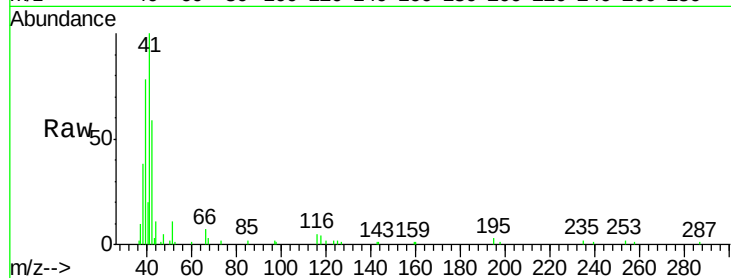
Ion Ratio Lower Upper

41 100

42 69.9 55.4 83.2

Manual Integrations
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#10

Heptane

Concen: 0.483 ppbv m

RT: 8.20 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VL034051.D

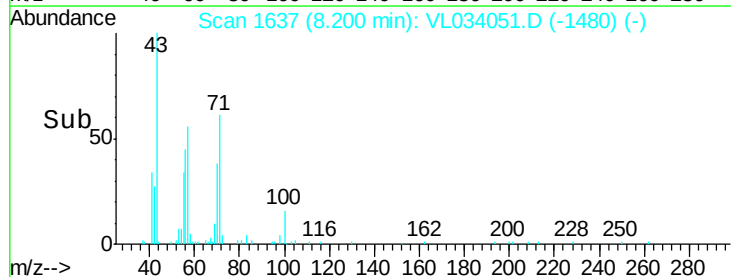
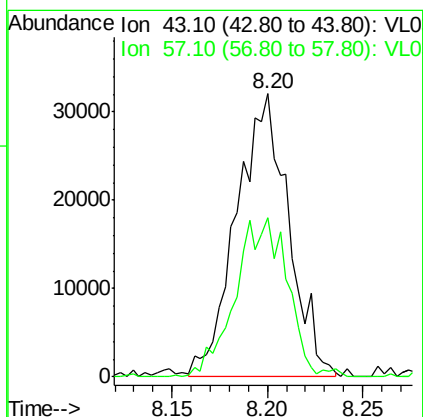
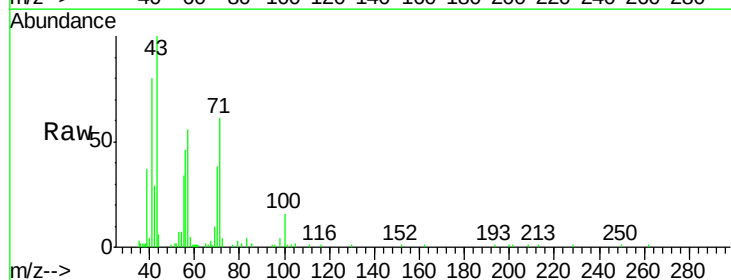
Acq: 30 Jul 2019 4:03

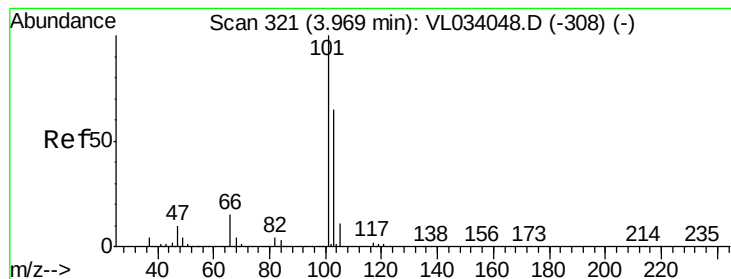
Tgt Ion: 43 Resp: 61024

Ion Ratio Lower Upper

43 100

57 56.2 44.8 67.2





#11

Trichlorofluoromethane

Concen: 0.468 ppbv

RT: 3.97 min Scan# 322

Delta R.T. 0.00 min

Lab File: VL034051.D

Acq: 30 Jul 2019 4:03

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion:101 Resp: 128782

Ion Ratio Lower Upper

101 100

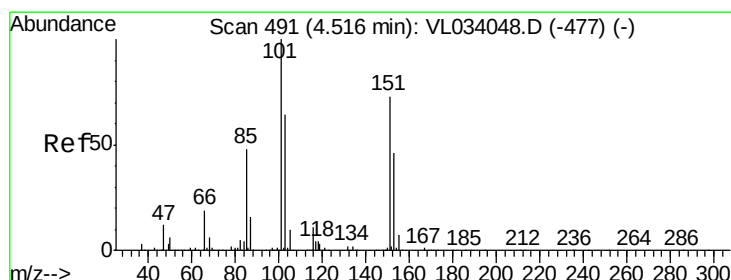
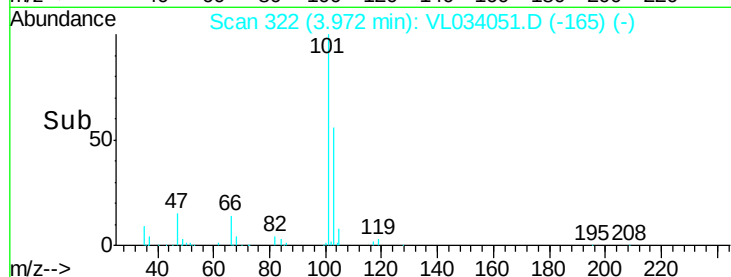
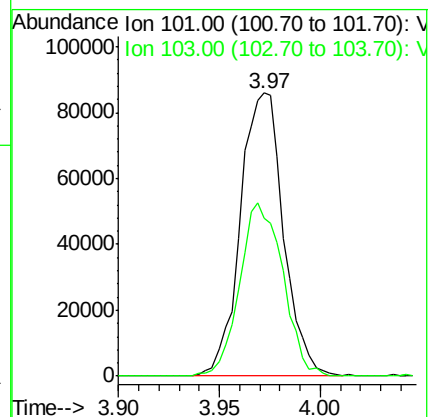
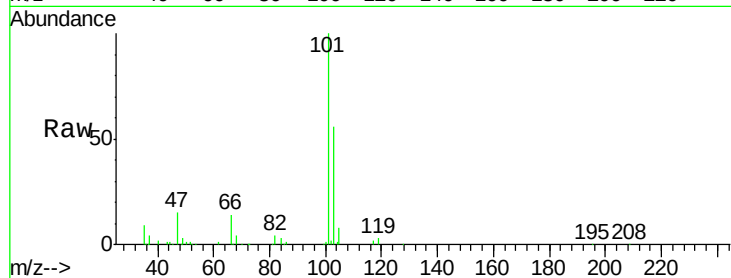
103 55.7 52.3 78.5

Manual Integrations

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#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.508 ppbv

RT: 4.52 min Scan# 492

Delta R.T. 0.00 min

Lab File: VL034051.D

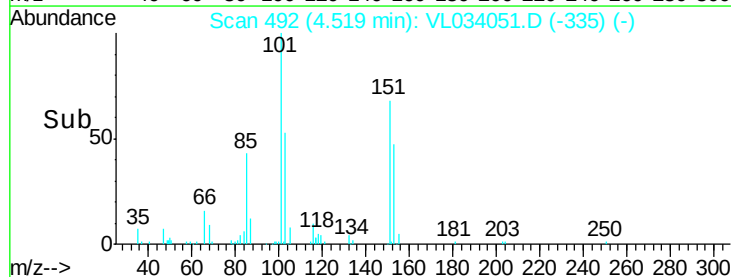
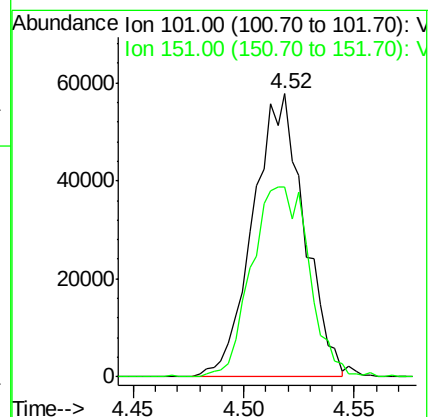
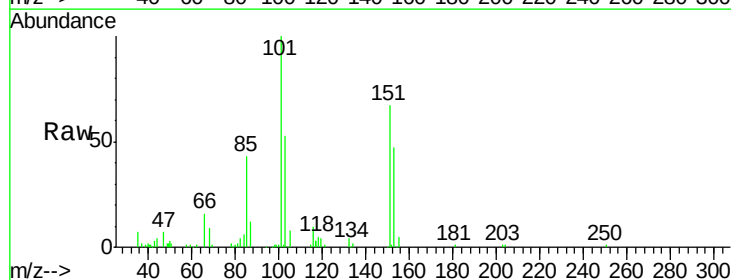
Acq: 30 Jul 2019 4:03

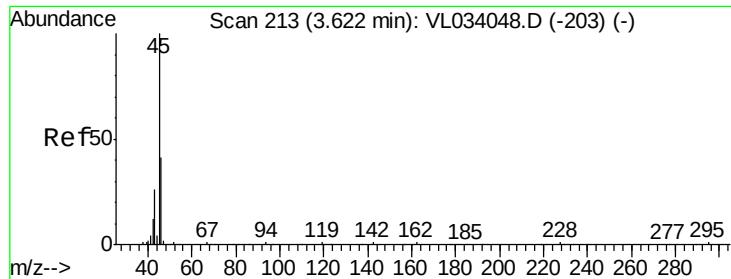
Tgt Ion:101 Resp: 93000

Ion Ratio Lower Upper

101 100

151 75.5 57.3 85.9





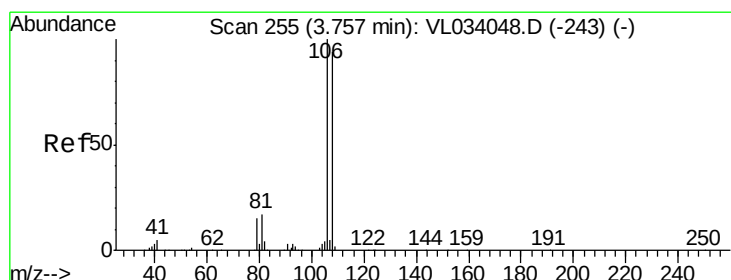
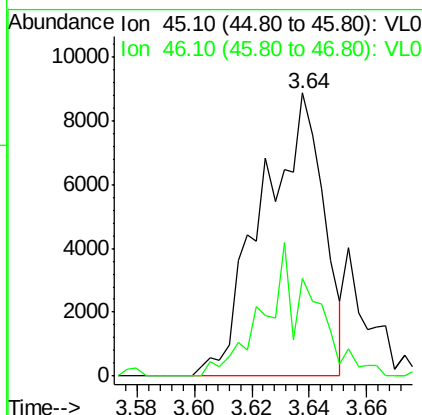
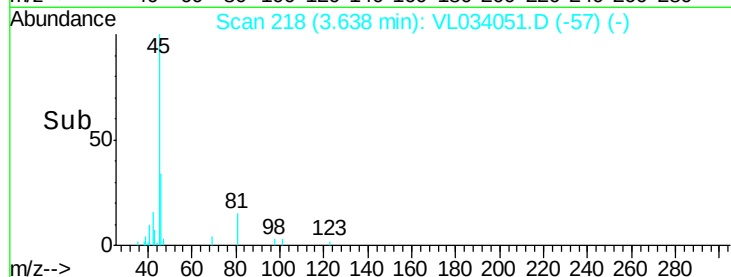
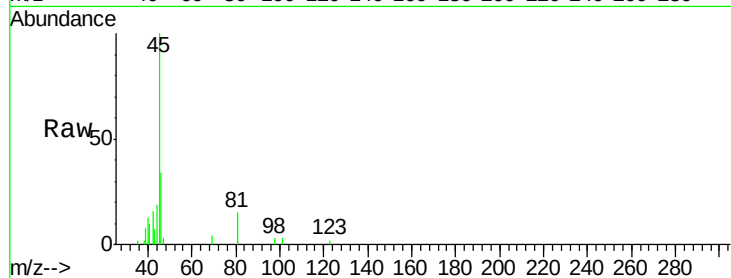
#13
Ethanol
Concen: 0.798 ppbv m
RT: 3.64 min Scan# 218
Delta R.T. 0.02 min
Lab File: VL034051.D
Acq: 30 Jul 2019 4:03

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
45	100		
46	0.0	15.6	62.2#

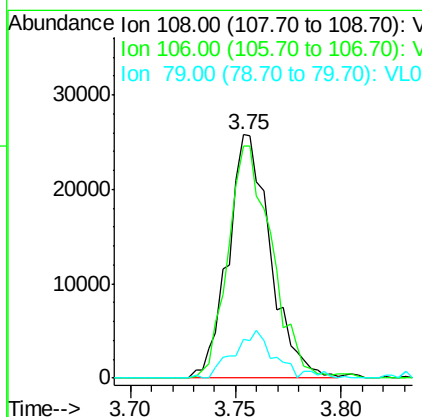
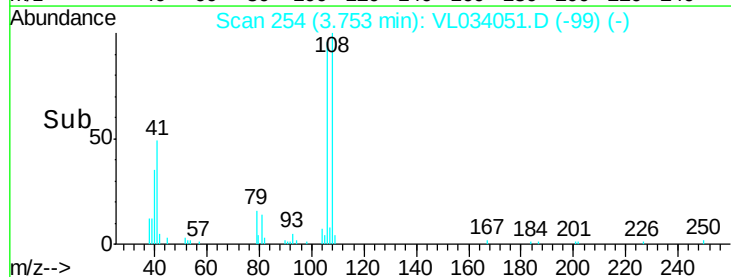
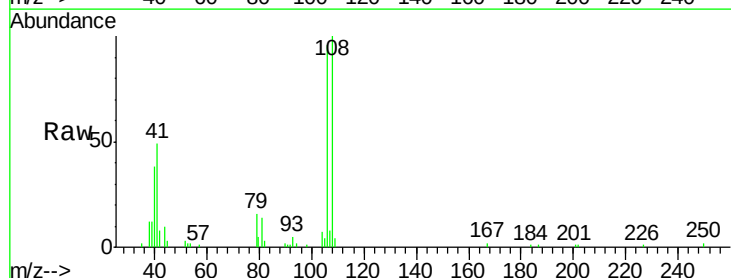
Manual Integrations
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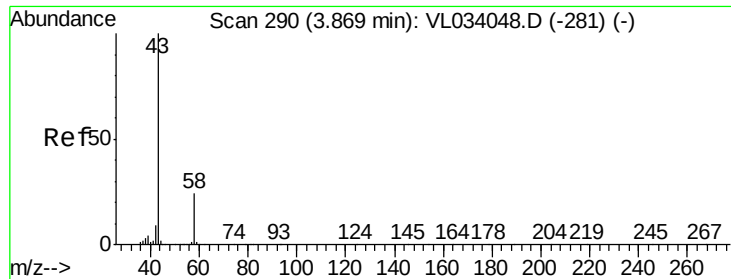
MMdadoda
8/2/2019 9:37:37 AM



#14
Bromoethene
Concen: 0.500 ppbv
RT: 3.75 min Scan# 254
Delta R.T. -0.00 min
Lab File: VL034051.D
Acq: 30 Jul 2019 4:03

Tgt Ion	Ratio	Lower	Upper
108	100		
106	100.0	86.2	129.2
79	19.3	13.7	20.5





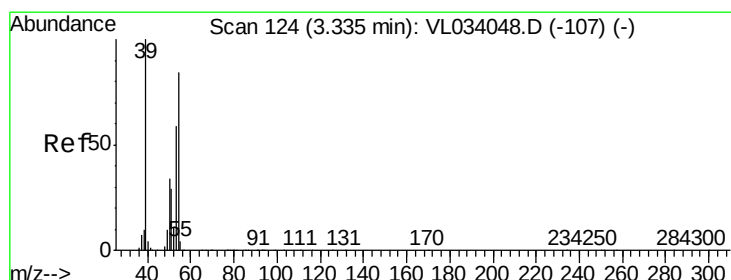
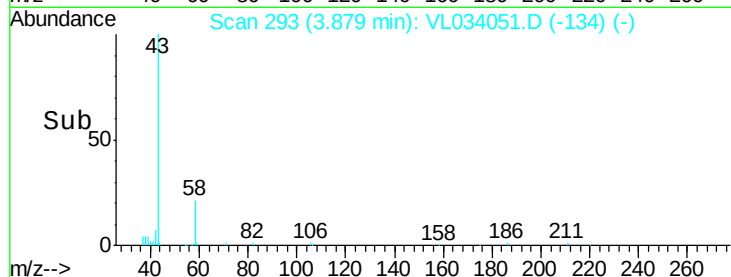
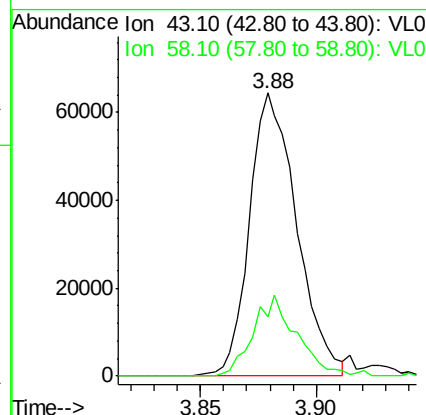
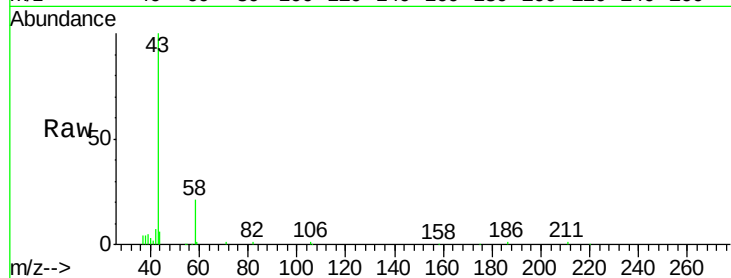
#15
Acetone
Concen: 0.459 ppbv
RT: 3.88 min Scan# 293
Delta R.T. 0.01 min
Lab File: VL034051.D
Acq: 30 Jul 2019 4:03

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion: 43 Resp: 91229
Ion Ratio Lower Upper
43 100
58 26.8 21.6 32.4

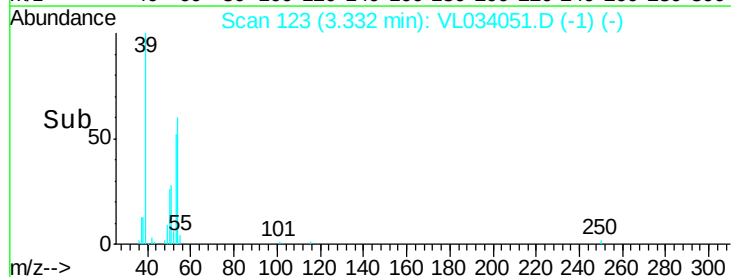
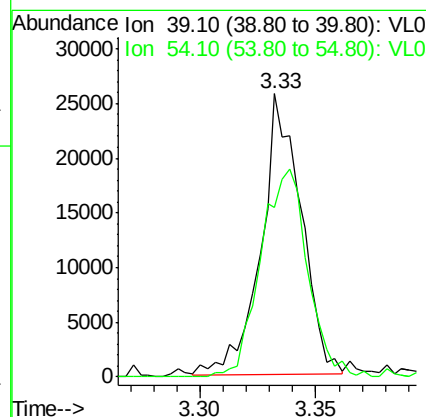
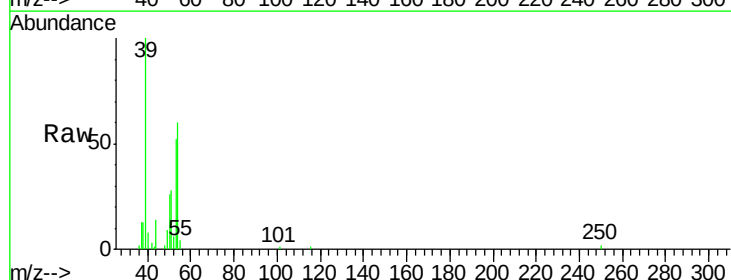
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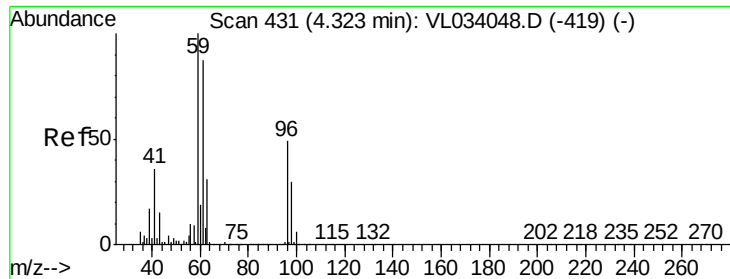
MMdadoda
8/2/2019 9:37:37 AM



#16
1,3-Butadiene
Concen: 0.434 ppbv
RT: 3.33 min Scan# 123
Delta R.T. -0.00 min
Lab File: VL034051.D
Acq: 30 Jul 2019 4:03

Tgt Ion: 39 Resp: 31197
Ion Ratio Lower Upper
39 100
54 86.2 68.9 103.3





#17

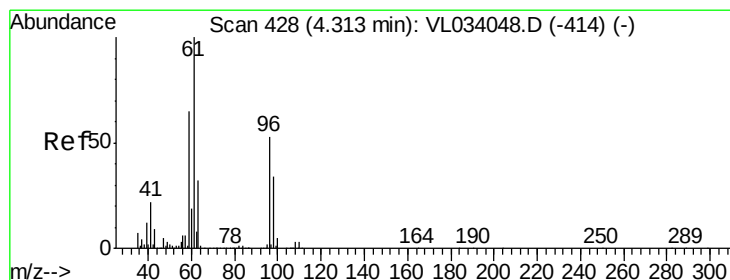
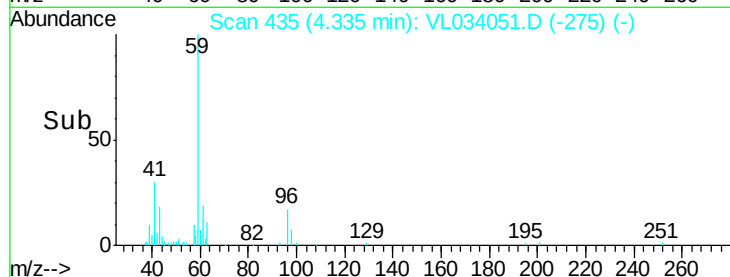
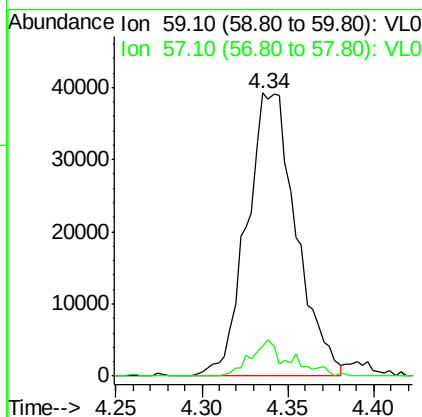
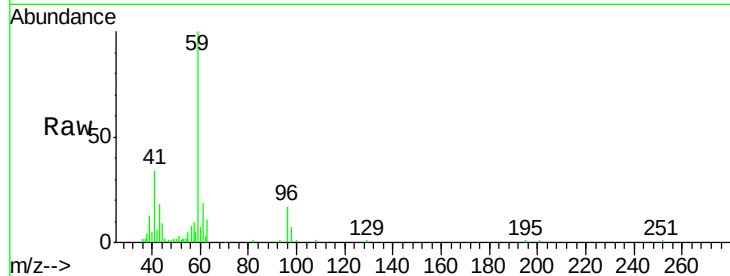
tert-Butyl alcohol
Concen: 0.519 ppbv m
RT: 4.34 min Scan# 435
Delta R.T. 0.01 min
Lab File: VL034051.D
Acq: 30 Jul 2019 4:03

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
59	100		
57	0.0	8.2	12.4#

Manual Integrations
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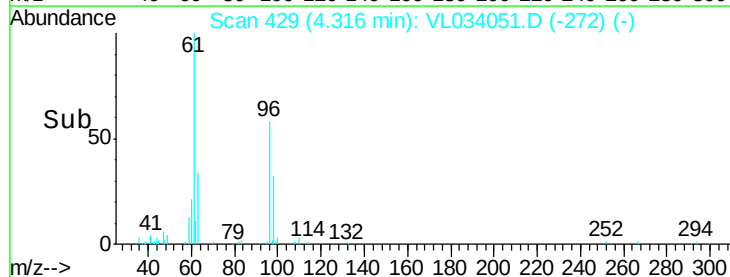
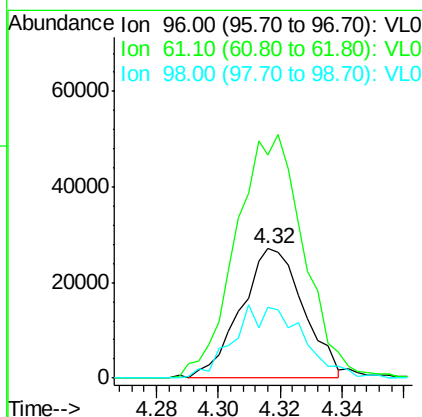
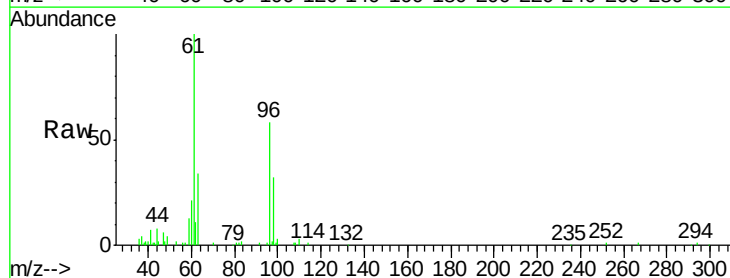
MMdadoda
8/2/2019 9:37:37 AM

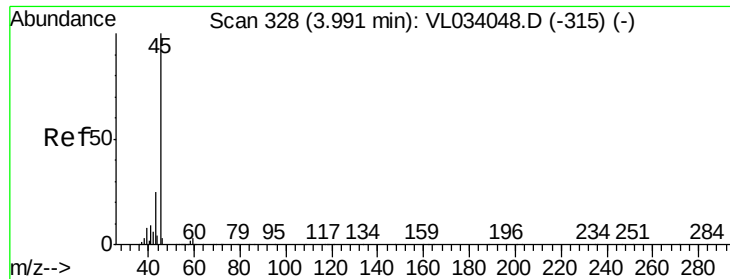


#18

1,1-Dichloroethene
Concen: 0.463 ppbv
RT: 4.32 min Scan# 429
Delta R.T. 0.00 min
Lab File: VL034051.D
Acq: 30 Jul 2019 4:03

Tgt Ion	Ratio	Lower	Upper
96	100		
61	160.6	151.5	227.3
98	53.3	52.2	78.2





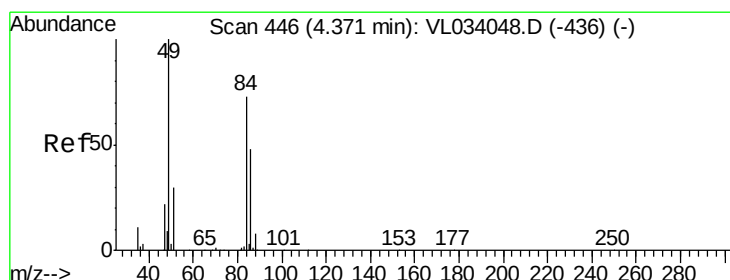
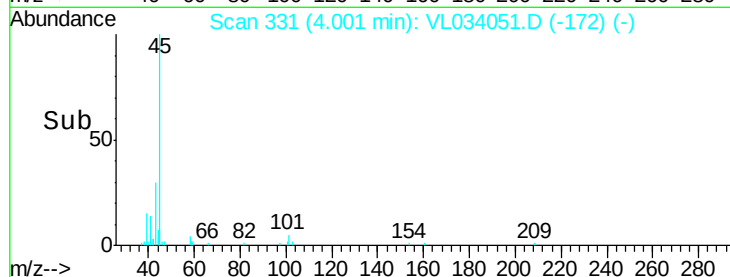
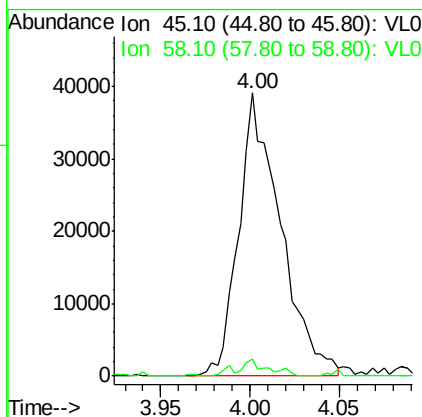
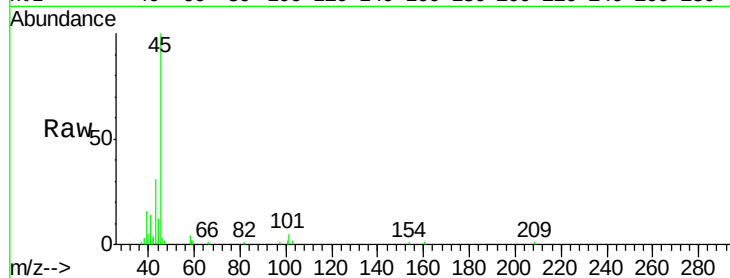
#19
Isopropyl Alcohol
Concen: 0.479 ppbv
RT: 4.00 min Scan# 331
Delta R.T. 0.01 min
Lab File: VL034051.D
Acq: 30 Jul 2019 4:03

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion: 45 Resp: 63896
Ion Ratio Lower Upper
45 100
58 4.4 1.8 2.6#

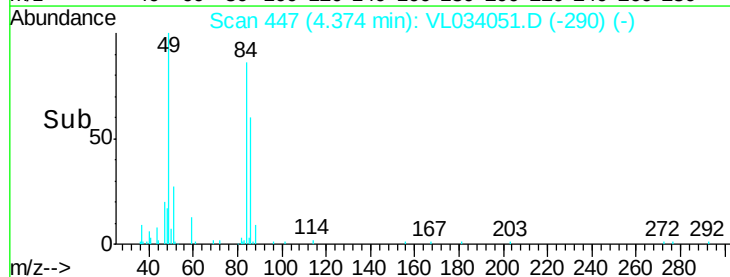
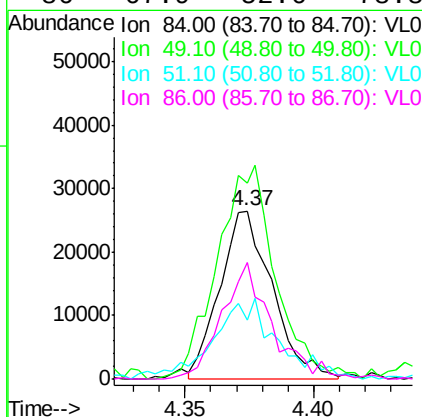
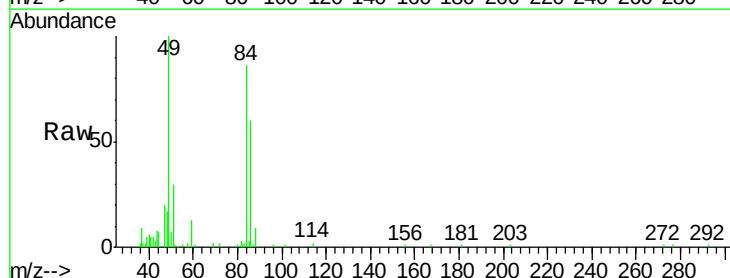
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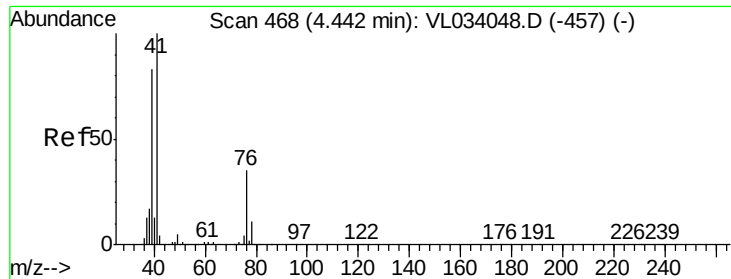
MMdadoda
8/2/2019 9:37:37 AM



#20
Methylene Chloride
Concen: 0.459 ppbv
RT: 4.37 min Scan# 447
Delta R.T. 0.00 min
Lab File: VL034051.D
Acq: 30 Jul 2019 4:03

Tgt Ion: 84 Resp: 37584
Ion Ratio Lower Upper
84 100
49 111.4 109.6 164.4
51 32.9 33.4 50.2#
86 67.9 52.6 78.8





#21

Allvl Chloride

Concen: 0.480 ppbv

RT: 4.44 min Scan# 467

Delta R.T. -0.00 min

Lab File: VL034051.D

Acq: 30 Jul 2019 4:03

Instrument :

MSVOA_L

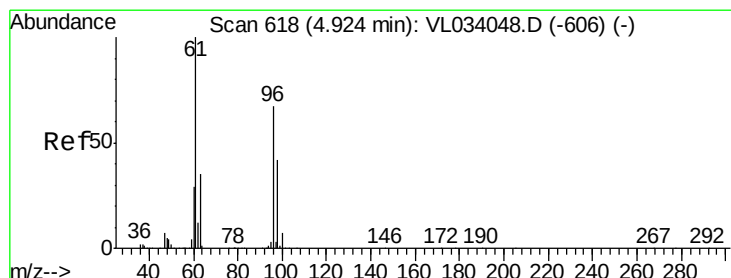
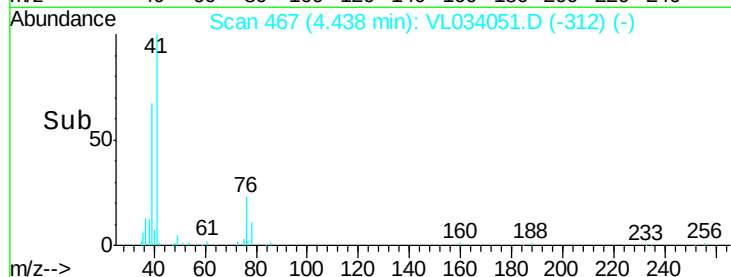
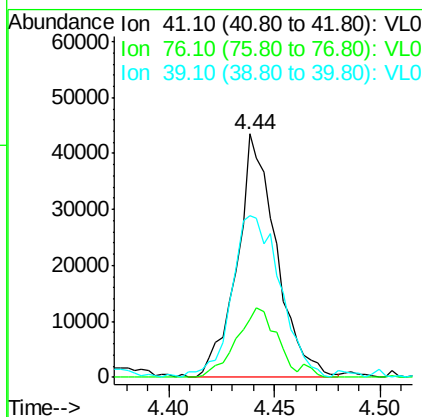
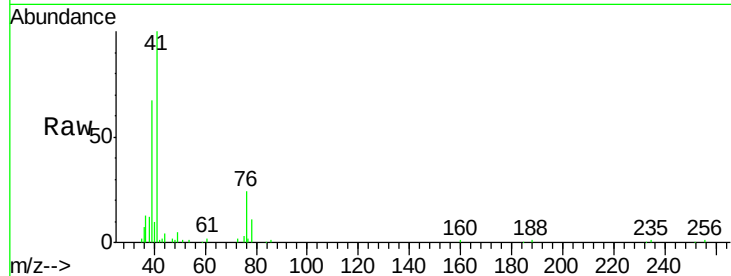
ClientSampleId :

VSTDIC0.5

Tot Ion:	41	Resp:	56320
Ion Ratio		Lower	Upper
41	100		
76	30.8	26.1	39.1
39	84.8	65.0	97.6

Manual Integrations
APPROVED

MMdadoda
8/2/2019 9:37:37 AM



#22

trans-1,2-Dichloroethene

Concen: 0.538 ppbv

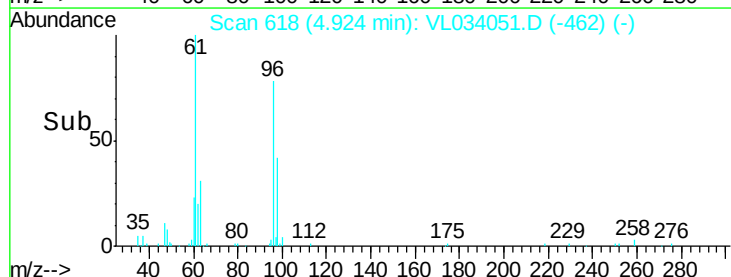
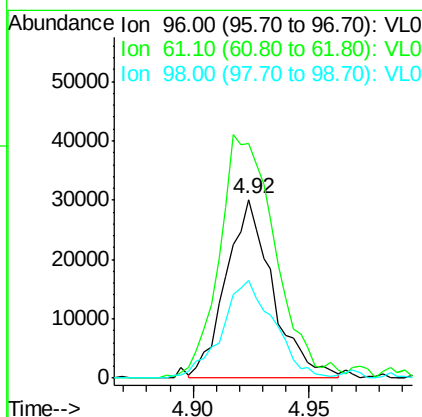
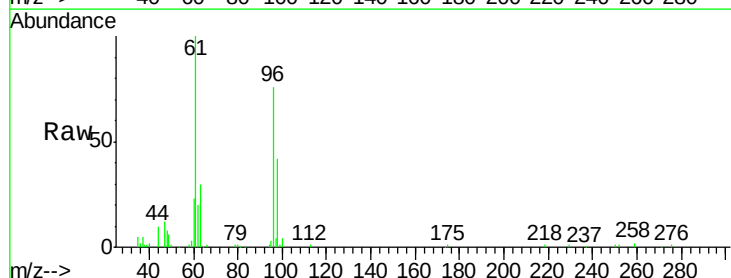
RT: 4.92 min Scan# 618

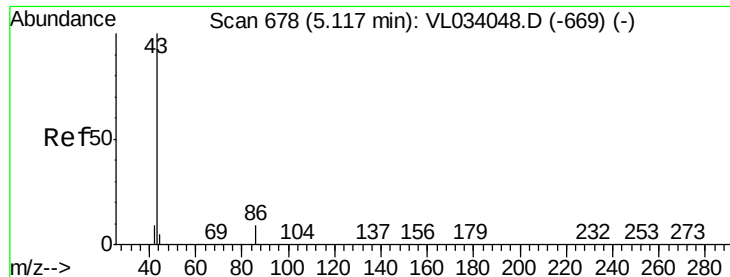
Delta R.T. -0.00 min

Lab File: VL034051.D

Acq: 30 Jul 2019 4:03

Tgt Ion:	96	Resp:	42041
Ion Ratio		Lower	Upper
96	100		
61	129.9	118.6	177.8
98	53.9	49.7	74.5





#23

Vinyl Acetate

Concen: 0.450 ppbv m

RT: 5.12 min Scan# 678

Delta R.T. -0.00 min

Lab File: VL034051.D

Acq: 30 Jul 2019 4:03

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 43 Resp: 84087

Ion Ratio Lower Upper

43 100

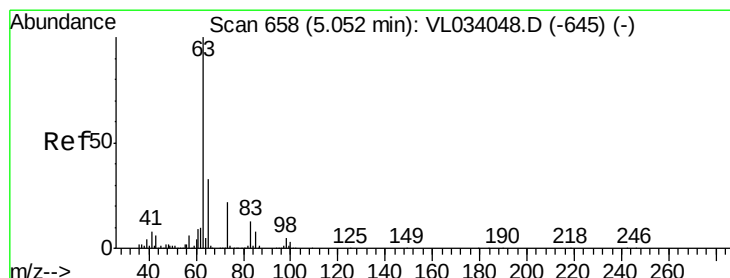
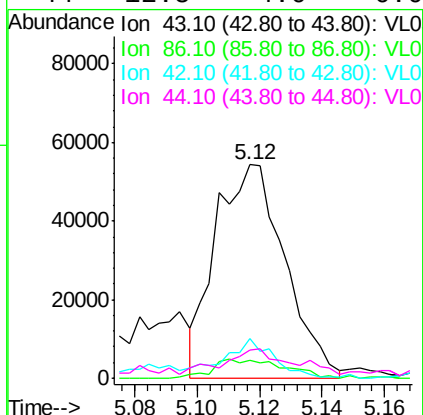
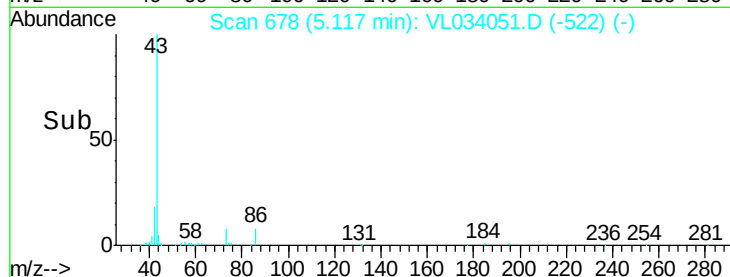
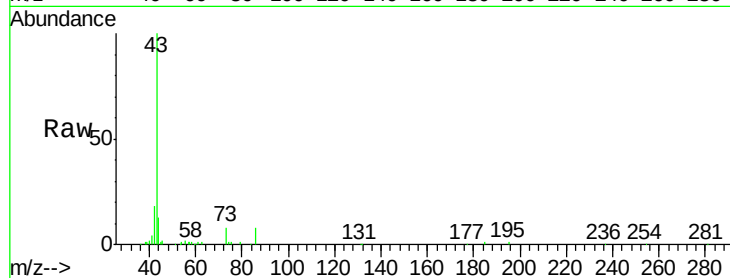
86 8.1 6.5 9.7

42 18.3 8.3 12.5#

44 12.5 4.0 6.0#

Manual Integrations
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MMdadoda
8/2/2019 9:37:37 AM



#24

1,1-Dichloroethane

Concen: 0.523 ppbv

RT: 5.05 min Scan# 656

Delta R.T. -0.01 min

Lab File: VL034051.D

Acq: 30 Jul 2019 4:03

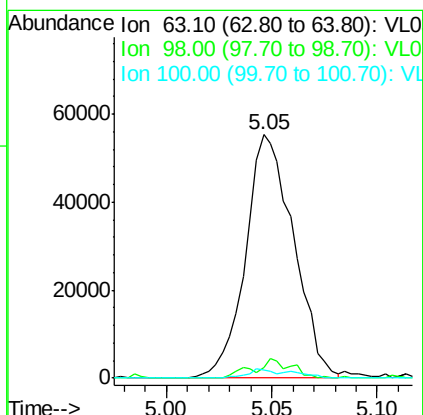
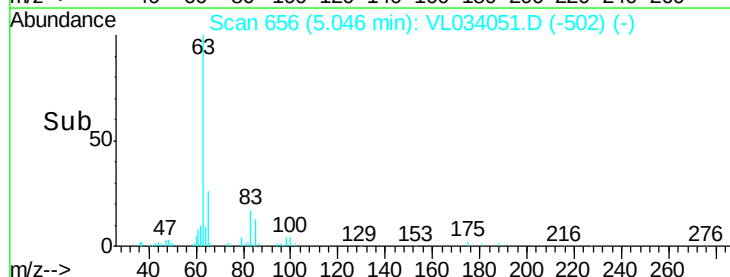
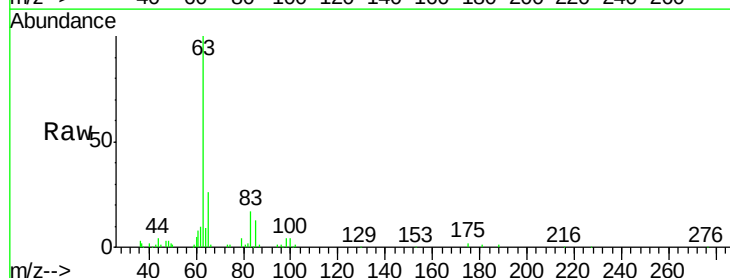
Tgt Ion: 63 Resp: 87438

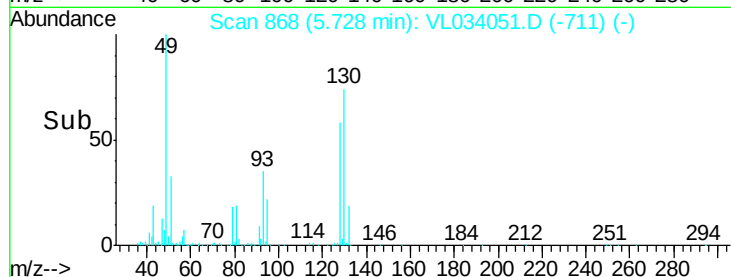
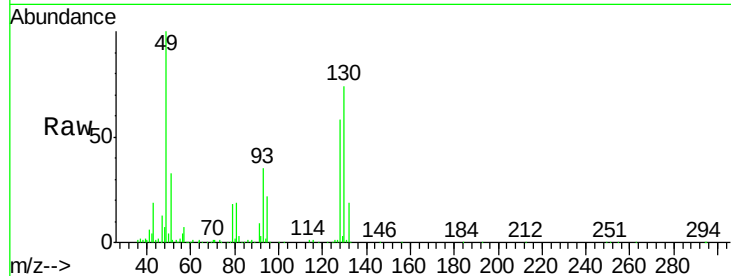
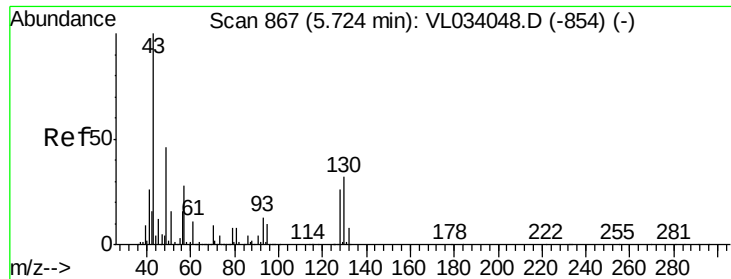
Ion Ratio Lower Upper

63 100

98 4.1 2.4 7.2

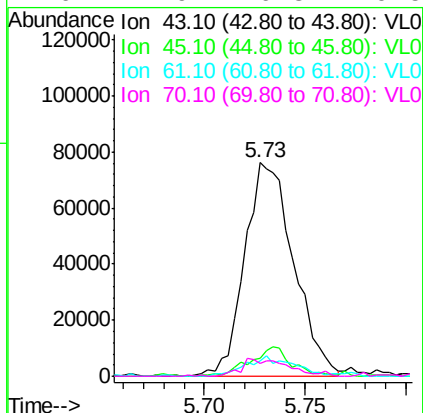
100 3.5 1.3 3.9





#25
Ethyl Acetate
Concen: 0.501 ppbv
RT: 5.73 min Scan# 868
Delta R.T. 0.00 min
Lab File: VL034051.D
Acq: 30 Jul 2019 4:03

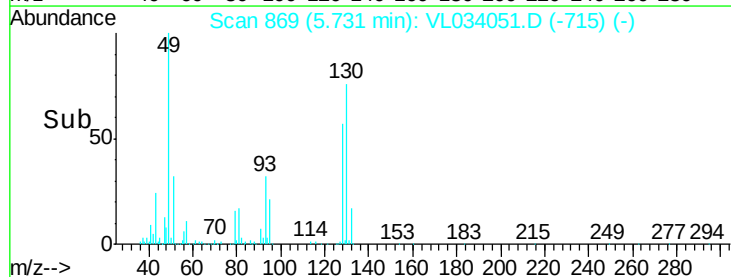
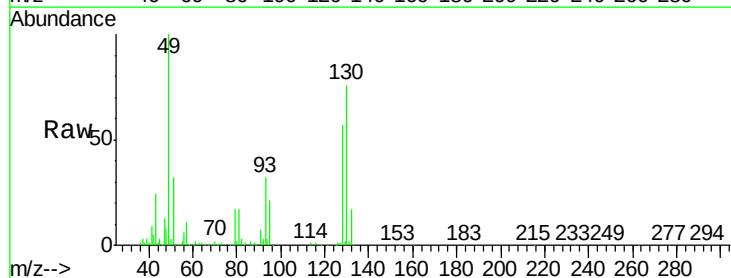
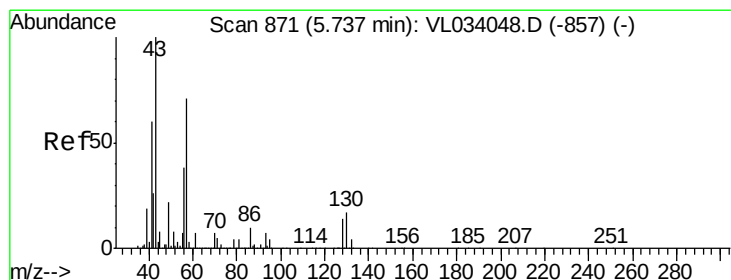
Tot Ion	Ratio	Lower	Upper
43	100		
45	12.7	8.1	12.1#
61	9.8	8.1	12.1
70	7.9	6.3	9.5



Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

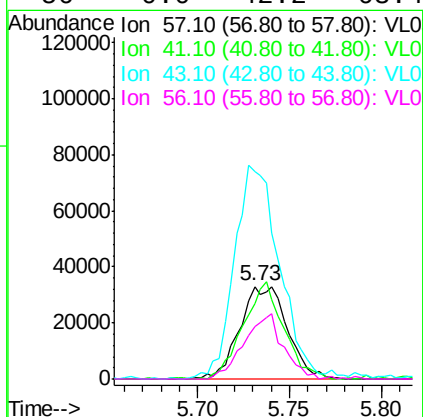
Manual Integrations
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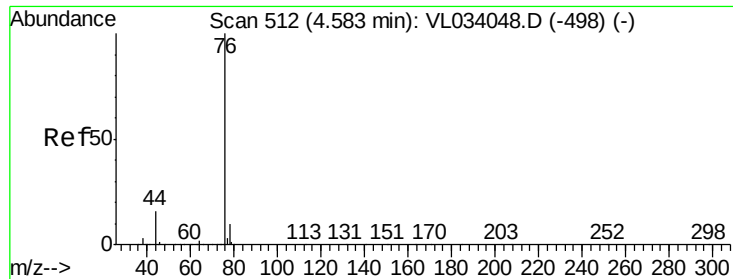
MMdadoda
8/2/2019 9:37:37 AM



#26
Hexane
Concen: 0.505 ppbv m
RT: 5.73 min Scan# 869
Delta R.T. -0.01 min
Lab File: VL034051.D
Acq: 30 Jul 2019 4:03

Tgt Ion	Ratio	Lower	Upper
57	100		
41	0.0	69.0	103.6#
43	221.3	176.6	264.8
56	0.0	42.2	63.4#





#27

Carbon Disulfide

Concen: 0.462 ppbv

RT: 4.59 min Scan# 513

Delta R.T. 0.00 min

Lab File: VL034051.D

Acq: 30 Jul 2019 4:03

Instrument :

MSVOA_L

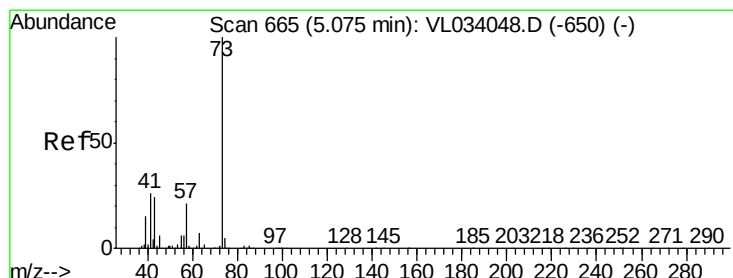
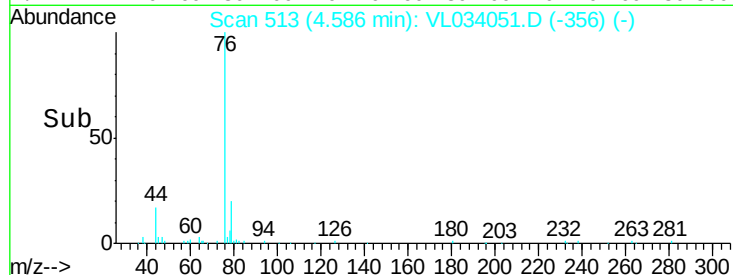
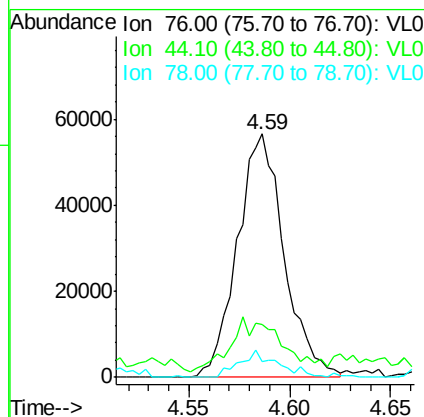
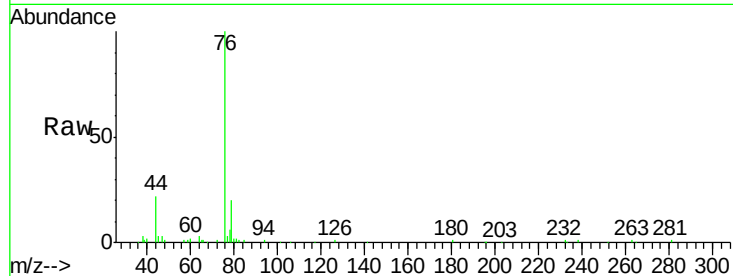
ClientSampleId :

VSTDIC0.5

Tot Ion:	76	Resp:	91948
Ion Ratio	Lower	Upper	
76	100		
44	22.6	13.0	19.4#
78	9.6	7.7	11.5

Manual Integrations
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MMDadoda
8/2/2019 9:37:37 AM



#28

Methyl tert-Butyl Ether

Concen: 0.502 ppbv

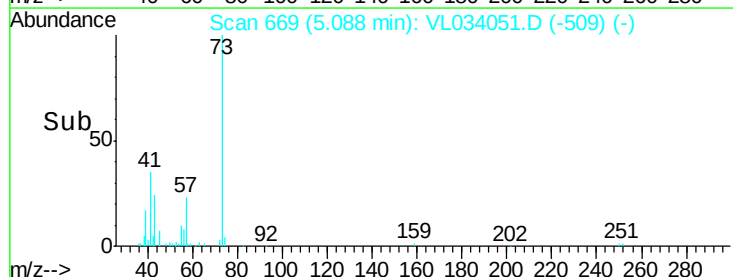
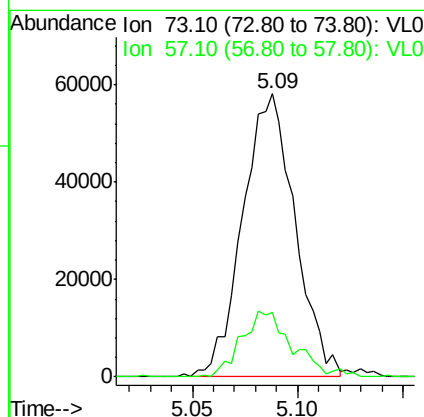
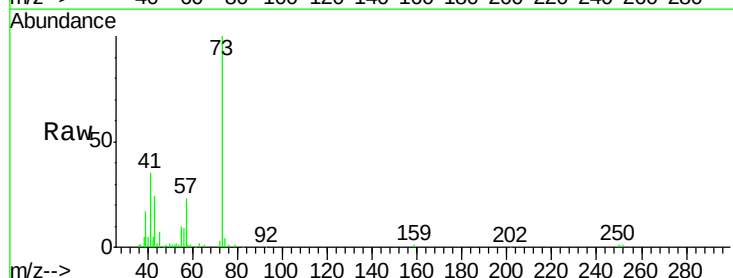
RT: 5.09 min Scan# 669

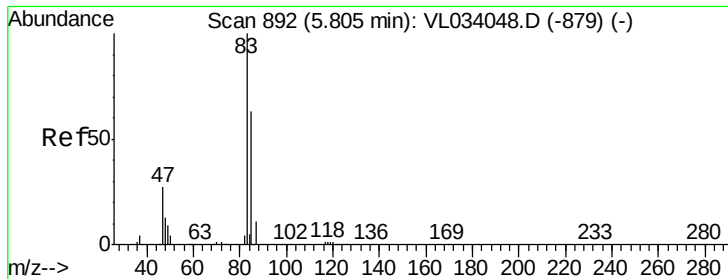
Delta R.T. 0.01 min

Lab File: VL034051.D

Acq: 30 Jul 2019 4:03

Tgt Ion:	73	Resp:	100001
Ion Ratio	Lower	Upper	
73	100		
57	22.6	17.2	25.8





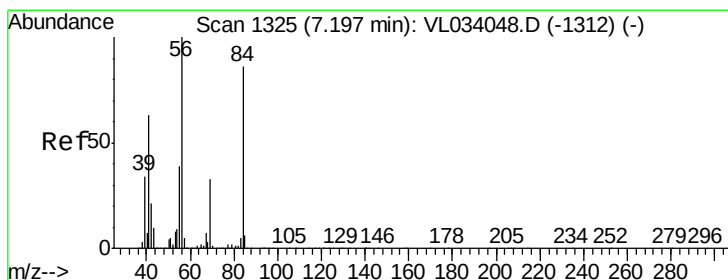
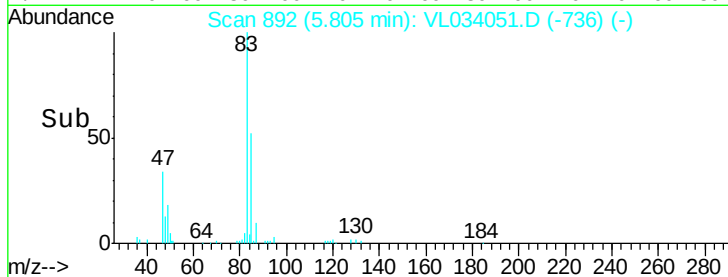
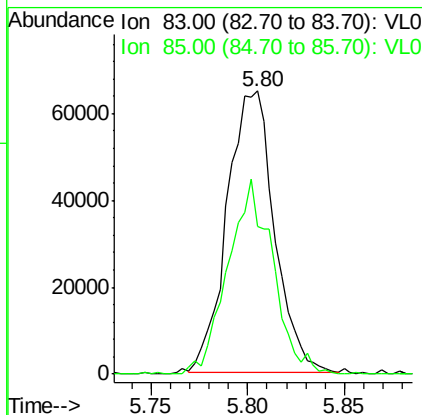
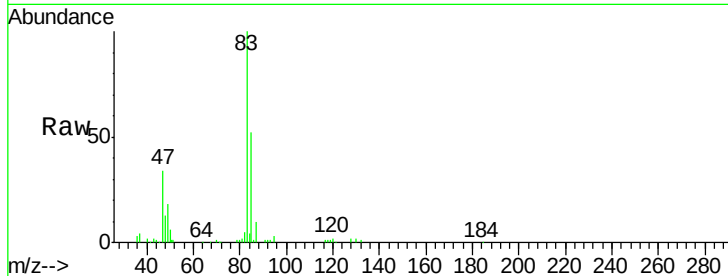
#29
Chloroform
Concen: 0.497 ppbv
RT: 5.80 min Scan# 892
Delta R.T. 0.00 min
Lab File: VL034051.D
Acq: 30 Jul 2019 4:03

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	83	Resp	110063
Ion Ratio	Lower	Upper	
83	100		
85	52.6	50.2	75.4

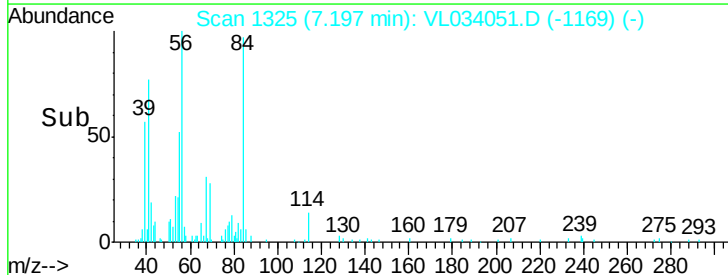
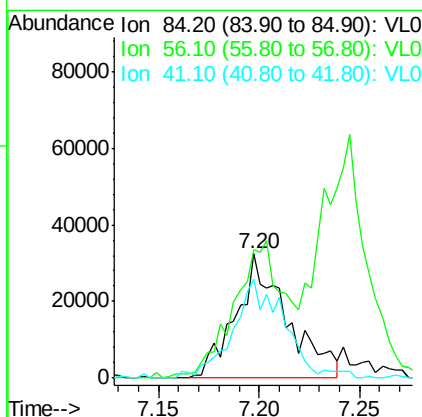
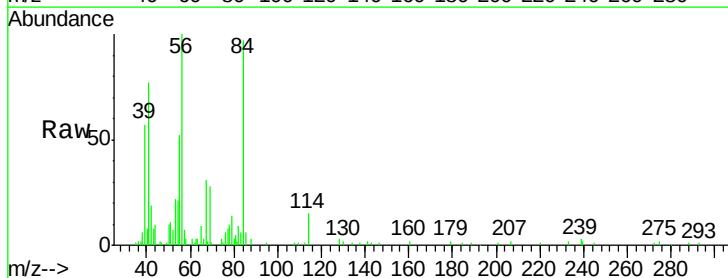
Manual Integrations
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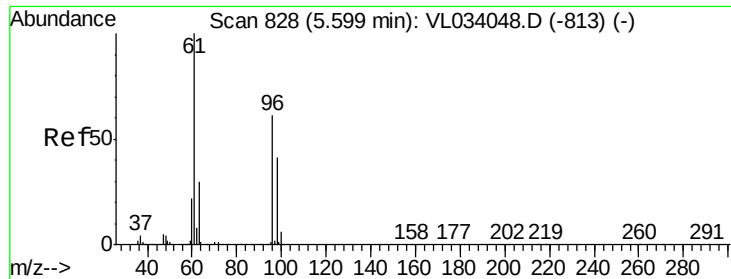
MMDadoda
8/2/2019 9:37:37 AM



#30
Cyclohexane
Concen: 0.594 ppbv m
RT: 7.20 min Scan# 1325
Delta R.T. 0.00 min
Lab File: VL034051.D
Acq: 30 Jul 2019 4:03

Tgt Ion	84	Resp	57429
Ion Ratio	Lower	Upper	
84	100		
56	0.0	101.7	152.5#
41	80.1	59.4	89.0





#31

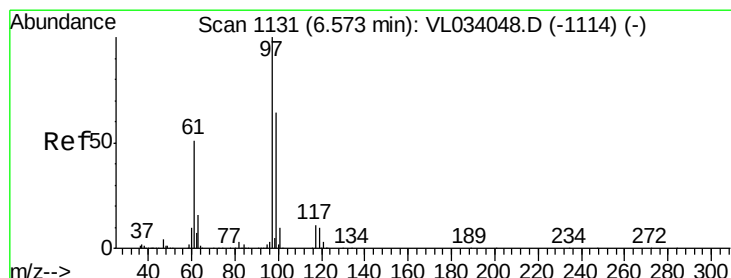
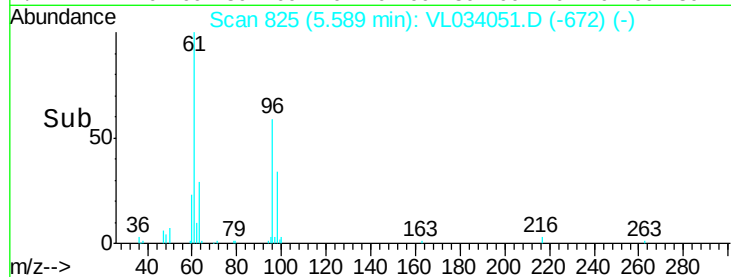
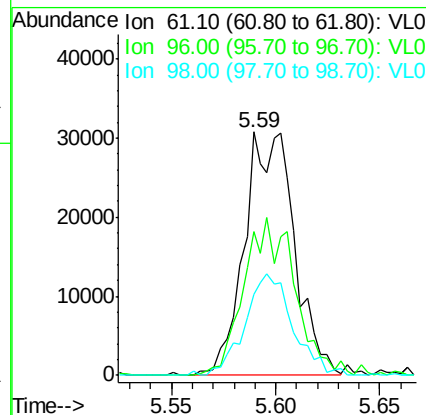
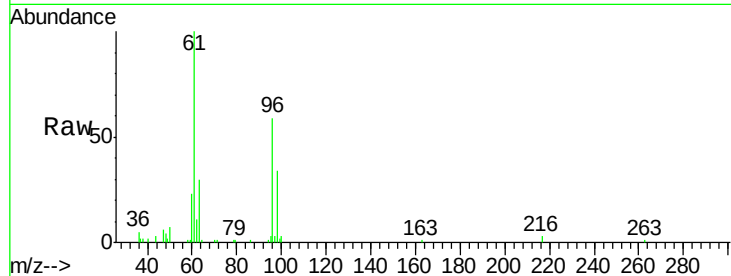
cis-1,2-Dichloroethene
 Concen: 0.451 ppbv m
 RT: 5.59 min Scan# 825
 Delta R.T. -0.01 min
 Lab File: VL034051.D
 Acq: 30 Jul 2019 4:03

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
61	100		
96	59.3	49.1	73.7
98	33.5	32.5	48.7

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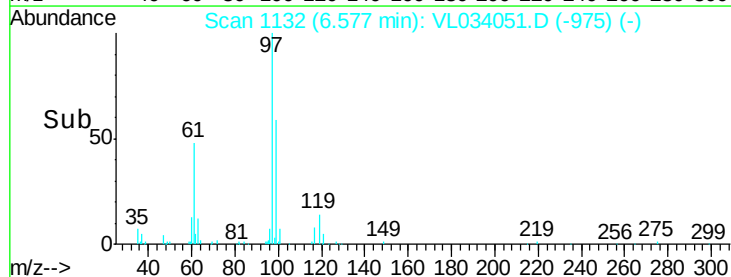
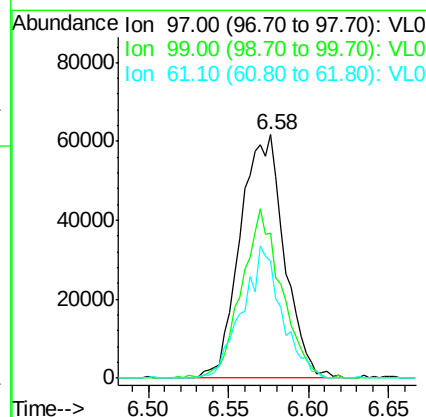
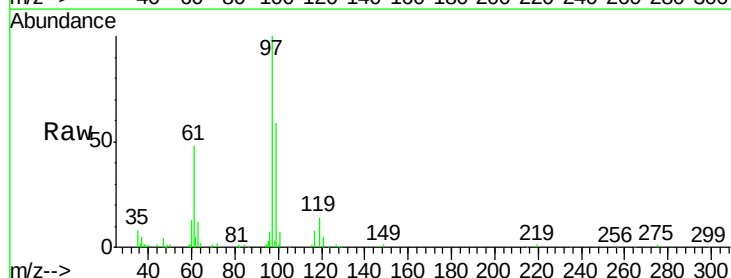
MMdadoda
 8/2/2019 9:37:37 AM

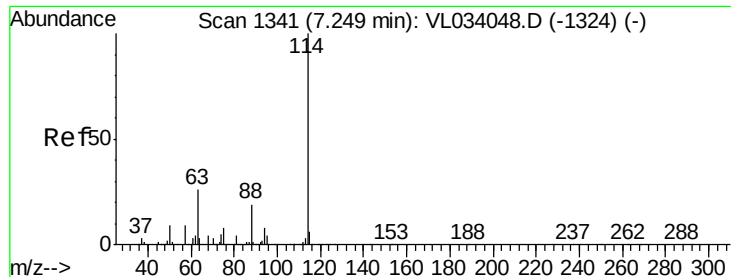


#32

1,1,1-Trichloroethane
 Concen: 0.529 ppbv m
 RT: 6.58 min Scan# 1132
 Delta R.T. 0.00 min
 Lab File: VL034051.D
 Acq: 30 Jul 2019 4:03

Tgt Ion	Ratio	Lower	Upper
97	100		
99	62.8	51.0	76.6
61	47.9	39.5	59.3





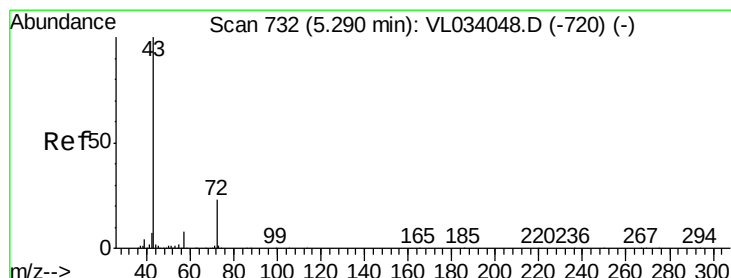
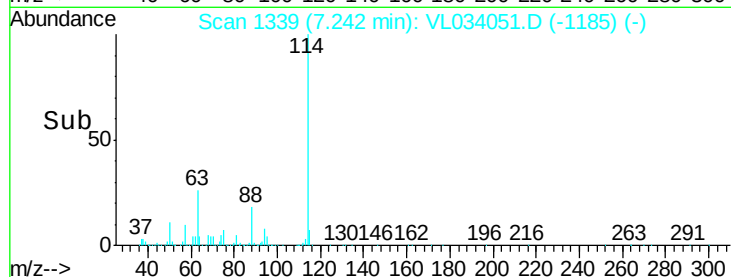
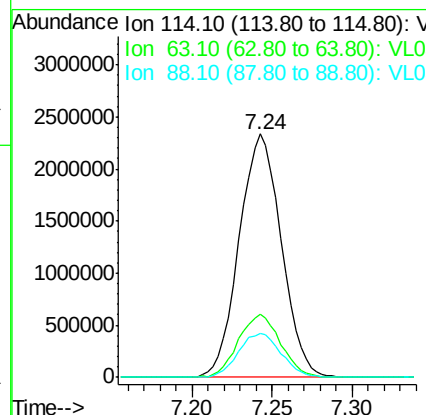
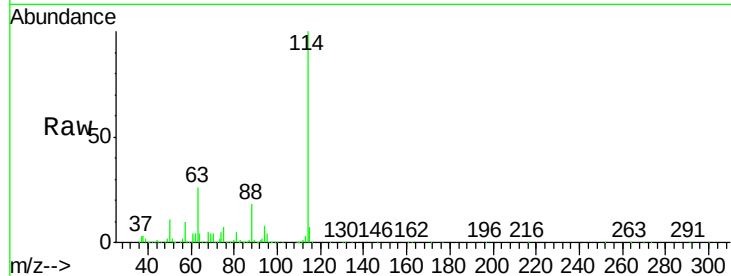
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.24 min Scan# 1339
 Delta R.T. -0.01 min
 Lab File: VL034051.D
 Acq: 30 Jul 2019 4:03

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion: 114 Resp: 4169162
 Ion Ratio Lower Upper
 114 100
 63 26.2 21.0 31.6
 88 18.5 14.7 22.1

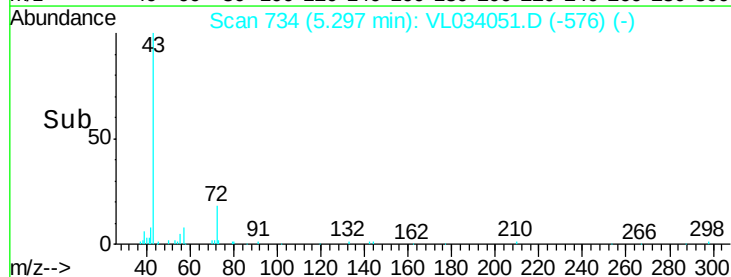
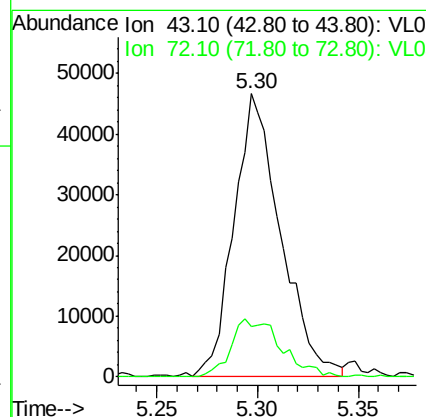
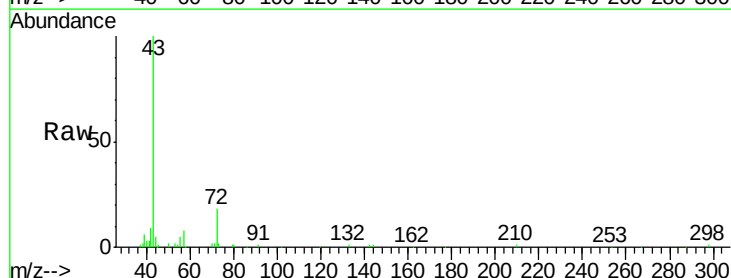
Manual Integrations
 APPROVED

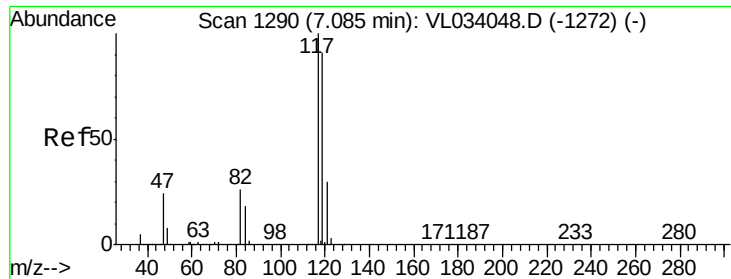
MMDadoda
 8/2/2019 9:37:37 AM



#34
 2-Butanone
 Concen: 0.366 ppbv
 RT: 5.30 min Scan# 734
 Delta R.T. 0.01 min
 Lab File: VL034051.D
 Acq: 30 Jul 2019 4:03

Tgt Ion: 43 Resp: 75717
 Ion Ratio Lower Upper
 43 100
 72 22.0 20.2 30.4





#35

Carbon Tetrachloride

Concen: 0.475 ppbv

RT: 7.09 min Scan# 1291

Delta R.T. 0.00 min

Lab File: VL034051.D

Acq: 30 Jul 2019 4:03

Instrument :

MSVOA_L

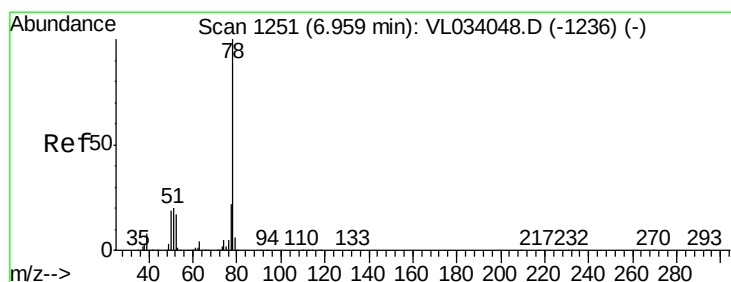
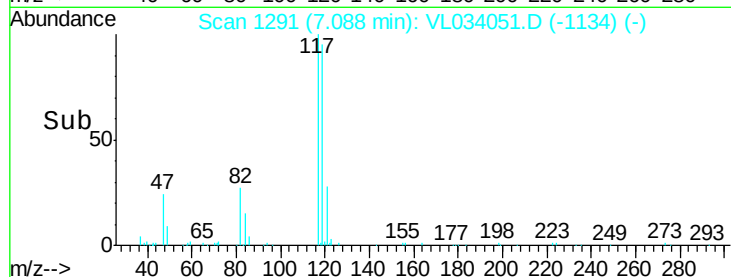
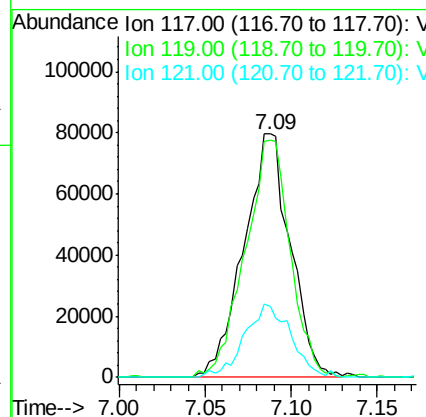
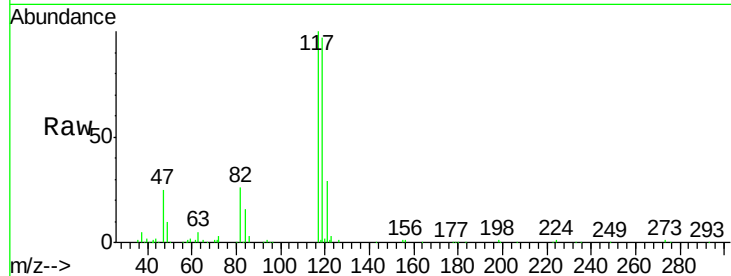
ClientSampleId :

VSTDIC0.5

Tot Ion:	117	Resp:	149711
Ion Ratio	Lower	Upper	
117	100		
119	97.4	73.2	109.8
121	29.2	24.0	36.0

Manual Integrations
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#36

Benzene

Concen: 0.366 ppbv m

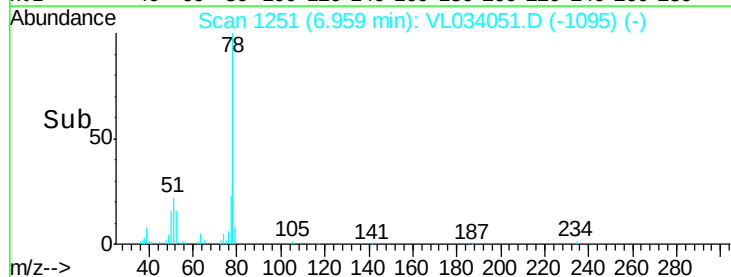
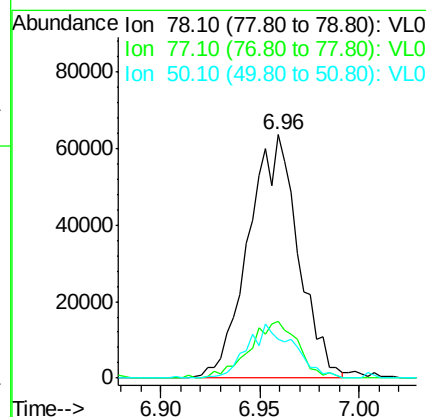
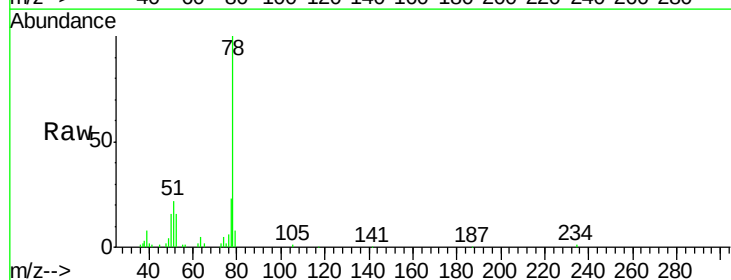
RT: 6.96 min Scan# 1251

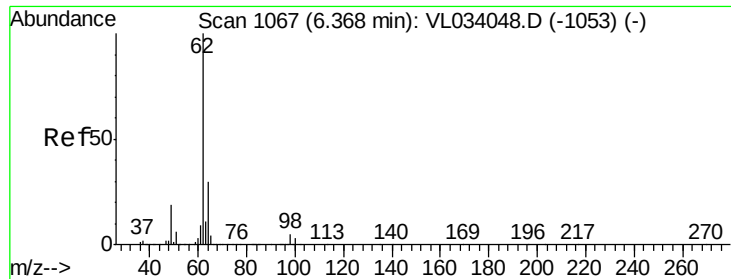
Delta R.T. 0.00 min

Lab File: VL034051.D

Acq: 30 Jul 2019 4:03

Tgt Ion:	78	Resp:	110826
Ion Ratio	Lower	Upper	
78	100		
77	23.3	17.9	26.9
50	16.0	14.9	22.3





#37

1,2-Dichloroethane

Concen: 0.441 ppbv

RT: 6.36 min Scan# 1066

Delta R.T. -0.00 min

Lab File: VL034051.D

Acq: 30 Jul 2019 4:03

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 62 Resp: 99387

Ion Ratio Lower Upper

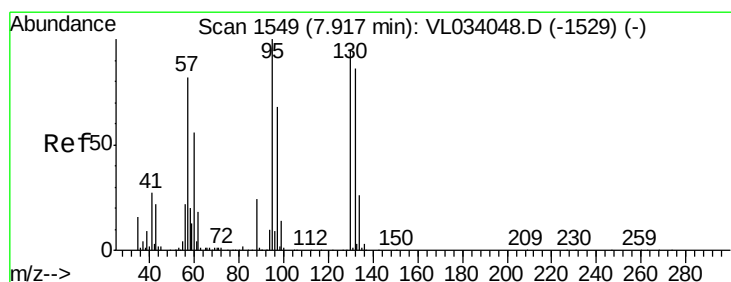
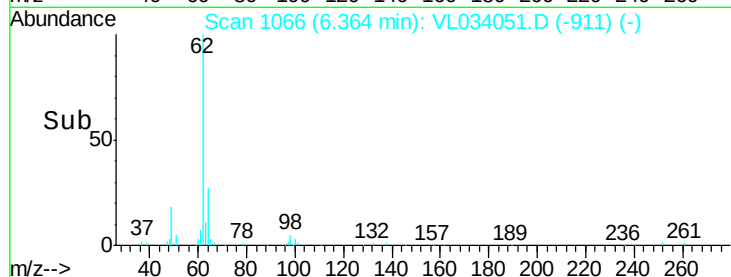
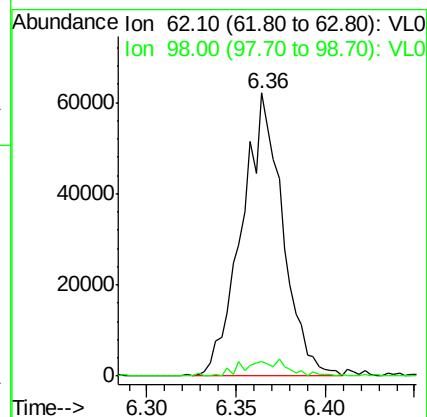
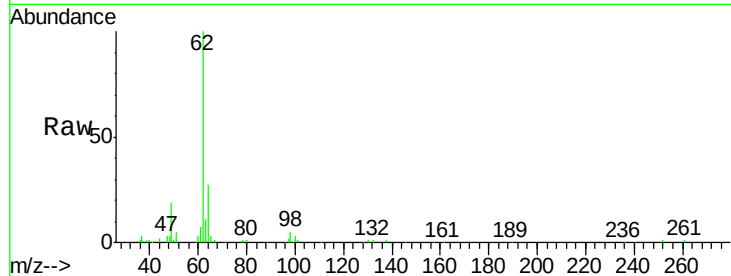
62 100

98 6.5 4.2 6.2#

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#38

Trichloroethene

Concen: 0.347 ppbv m

RT: 7.91 min Scan# 1548

Delta R.T. -0.00 min

Lab File: VL034051.D

Acq: 30 Jul 2019 4:03

Tgt Ion: 130 Resp: 47835

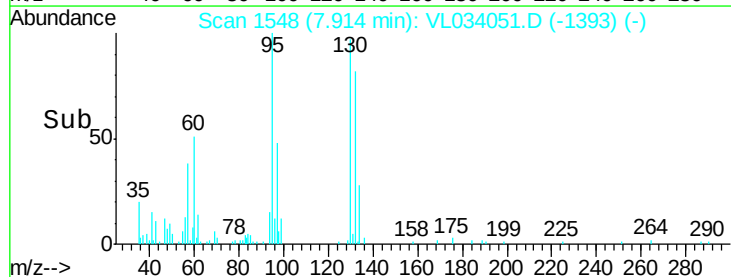
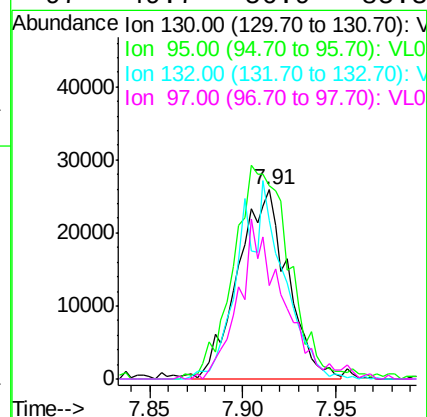
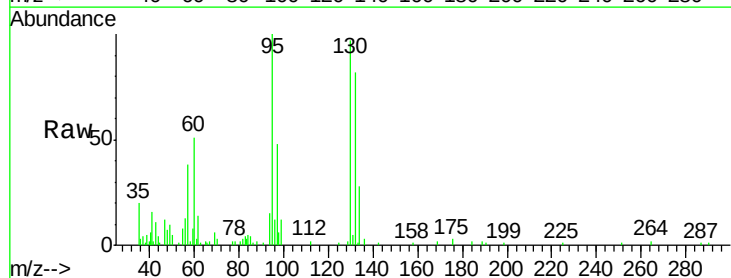
Ion Ratio Lower Upper

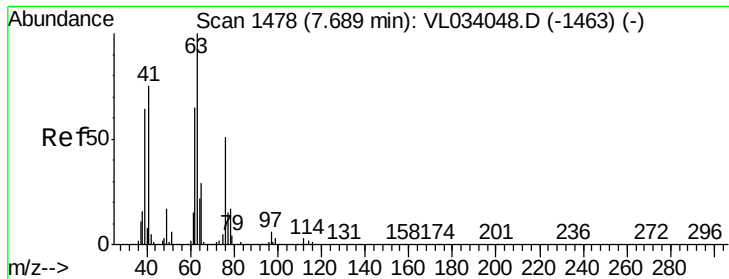
130 100

95 102.6 84.1 126.1

132 84.3 72.7 109.1

97 49.7 56.9 85.3#





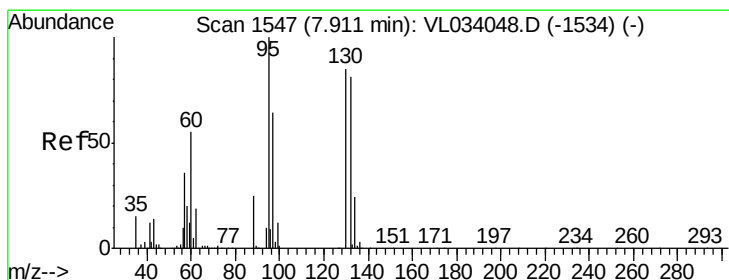
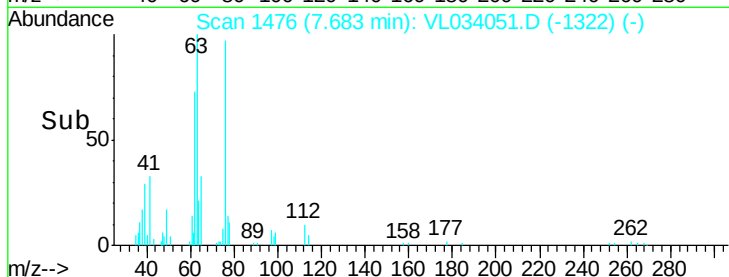
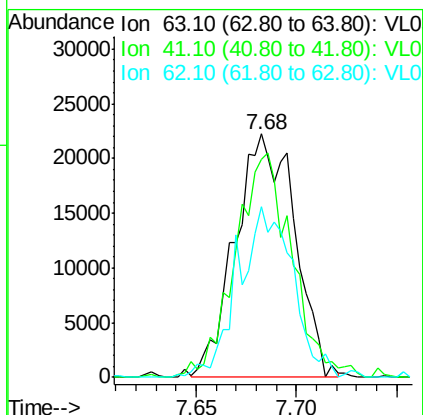
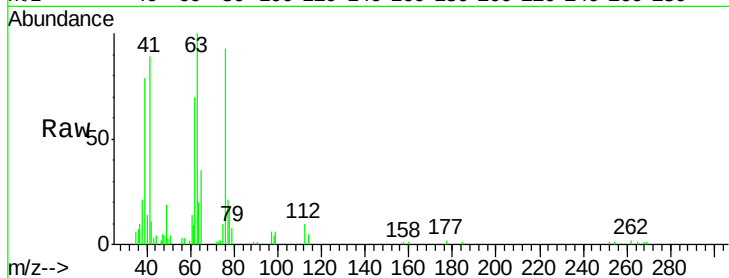
#39
 1,2-Dichloropropane
 Concen: 0.404 ppbv m
 RT: 7.68 min Scan# 1476
 Delta R.T. -0.01 min
 Lab File: VL034051.D
 Acq: 30 Jul 2019 4:03

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion:	63	Resp:	46245
Ion Ratio	Lower	Upper	
63	100		
41	89.4	59.8	89.8
62	70.1	52.2	78.2

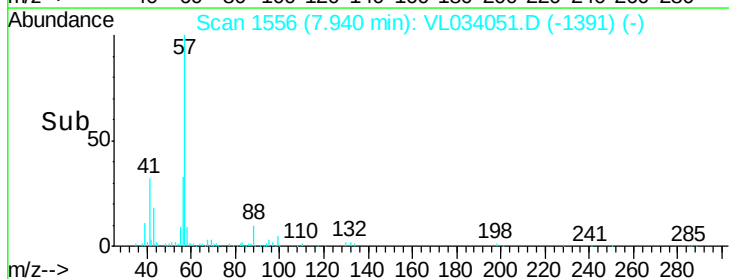
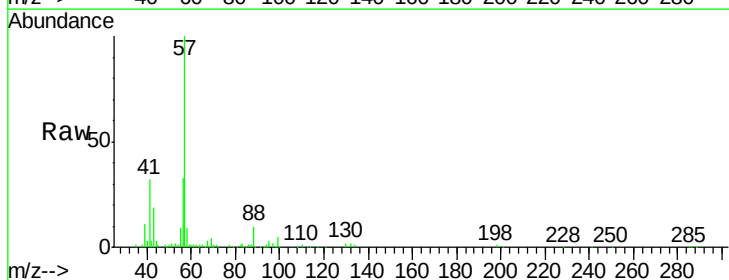
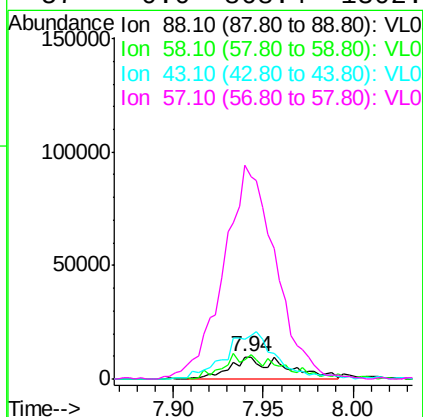
Manual Integrations
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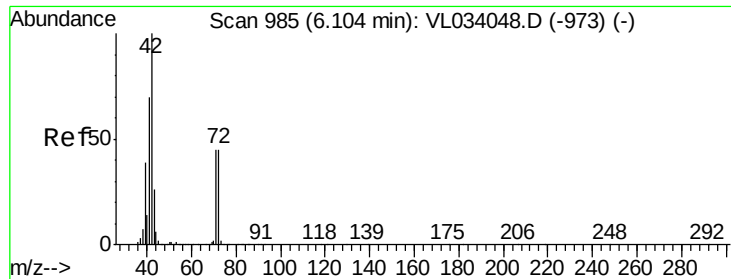
MMdadoda
 8/2/2019 9:37:37 AM



#40
 1,4-Dioxane
 Concen: 0.412 ppbv m
 RT: 7.94 min Scan# 1556
 Delta R.T. 0.03 min
 Lab File: VL034051.D
 Acq: 30 Jul 2019 4:03

Tgt Ion:	88	Resp:	21486
Ion Ratio	Lower	Upper	
88	100		
58	0.0	99.6	149.4#
43	0.0	189.2	283.8#
57	0.0	868.4	1302.6#





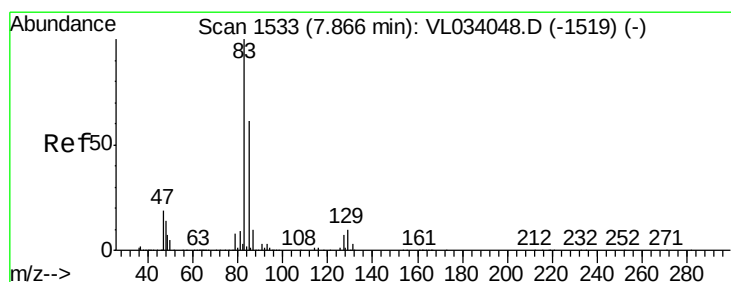
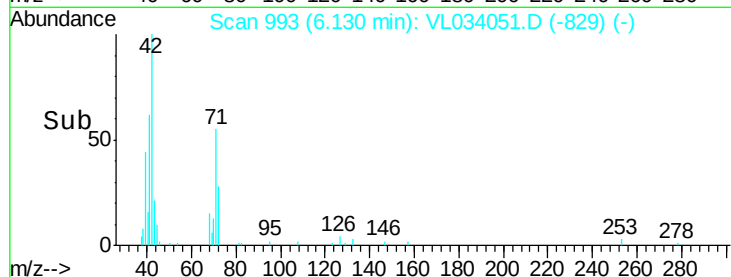
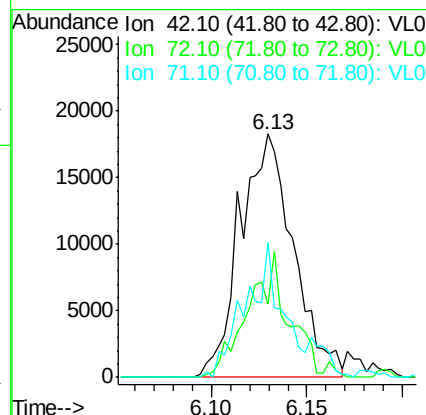
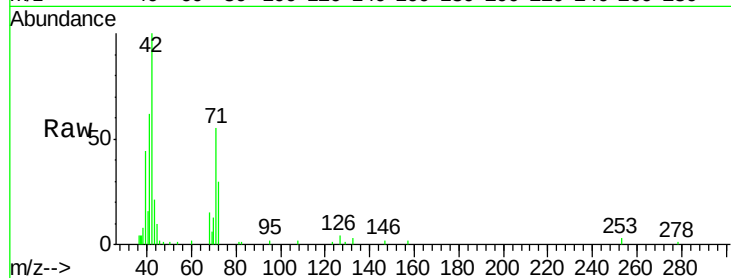
#41
Tetrahydrofuran
Concen: 0.353 ppbv m
RT: 6.13 min Scan# 993
Delta R.T. 0.03 min
Lab File: VL034051.D
Acq: 30 Jul 2019 4:03

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
42	100		
72	0.0	36.9	55.3#
71	0.0	36.6	54.8#

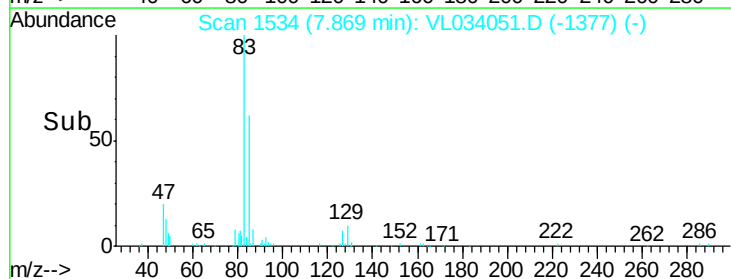
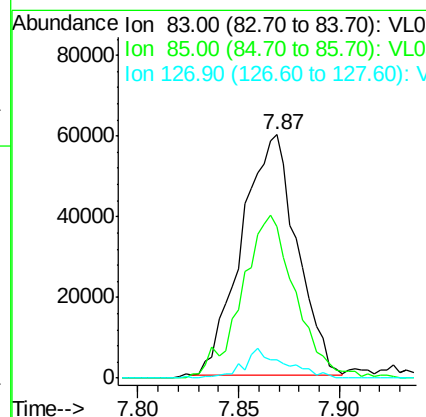
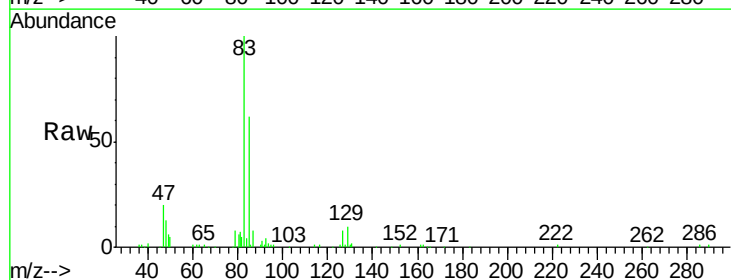
Manual Integrations
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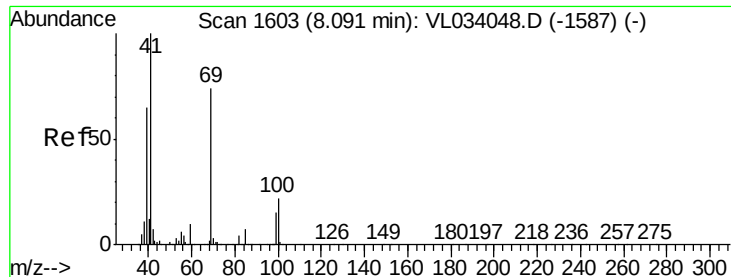
MMDadoda
8/2/2019 9:37:37 AM



#42
Bromodichloromethane
Concen: 0.378 ppbv
RT: 7.87 min Scan# 1534
Delta R.T. 0.00 min
Lab File: VL034051.D
Acq: 30 Jul 2019 4:03

Tgt Ion	Ratio	Lower	Upper
83	100		
85	61.7	48.6	73.0
127	7.6	5.5	8.3





#43

Methyl Methacrylate

Concen: 0.347 ppbv m

RT: 8.10 min Scan# 1606

Delta R.T. 0.01 min

Lab File: VL034051.D

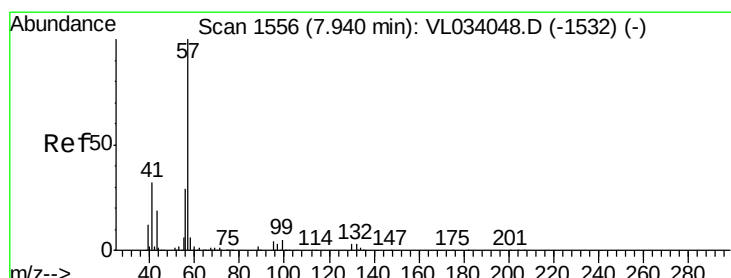
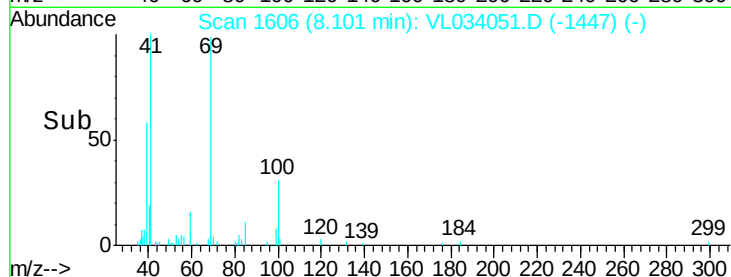
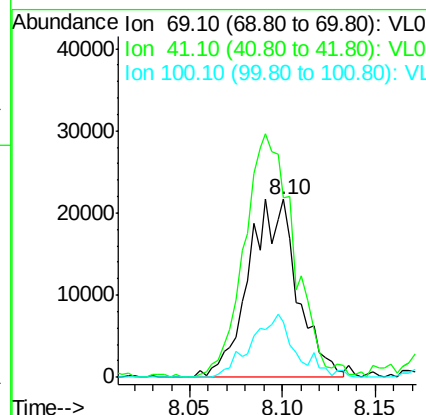
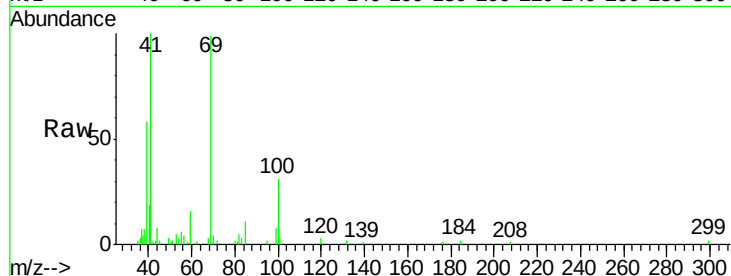
Acq: 30 Jul 2019 4:03

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
69	100		
41	139.9	112.8	169.2
100	0.0	26.1	39.1#

Manual Integrations
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8/2/2019 9:37:37 AM



#44

2,2,4-Trimethylpentane

Concen: 0.359 ppbv

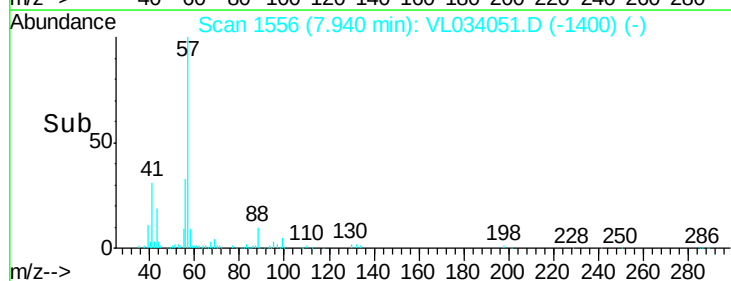
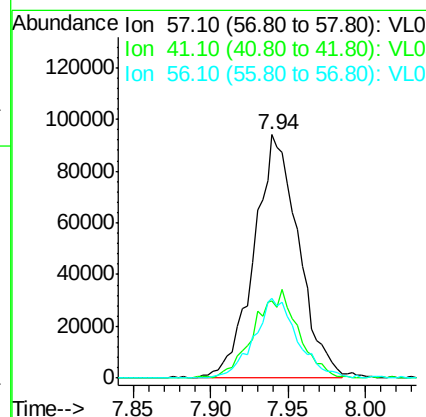
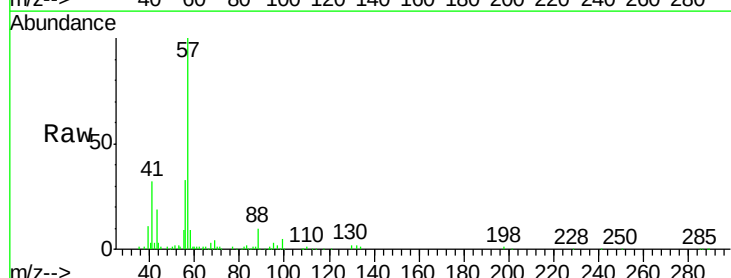
RT: 7.94 min Scan# 1556

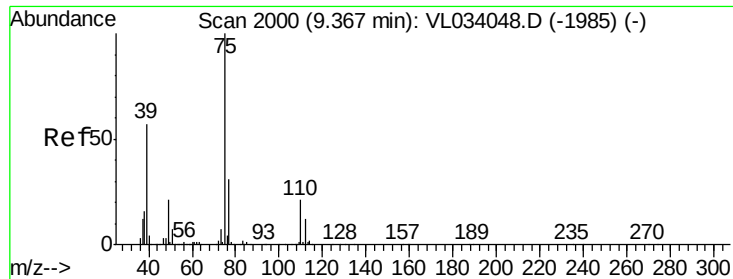
Delta R.T. 0.00 min

Lab File: VL034051.D

Acq: 30 Jul 2019 4:03

Tgt Ion	Ratio	Lower	Upper
57	100		
41	36.2	26.2	39.2
56	32.2	24.2	36.2





#45

t-1,3-Dichloropropene

Concen: 0.306 ppbv m

RT: 9.36 min Scan# 1999

Delta R.T. -0.00 min

Lab File: VL034051.D

Acq: 30 Jul 2019 4:03

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 75 Resp: 45284

Ion Ratio Lower Upper

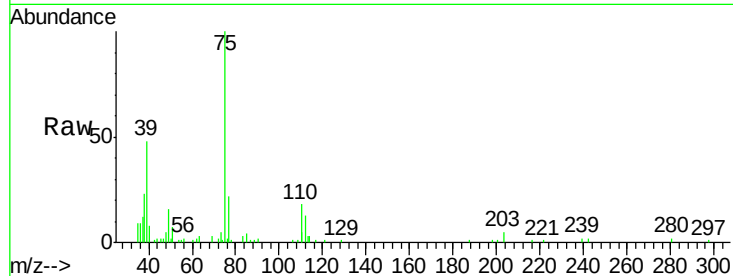
75 100

77 22.3 24.6 37.0#

Manual Integrations
APPROVED

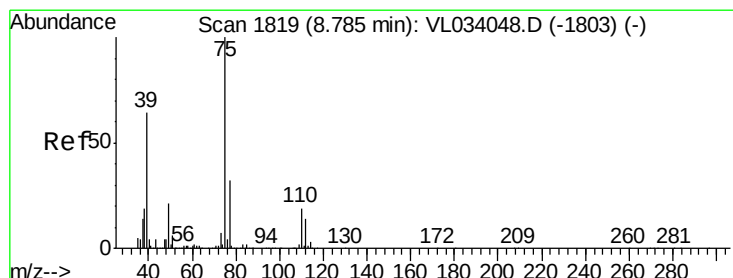
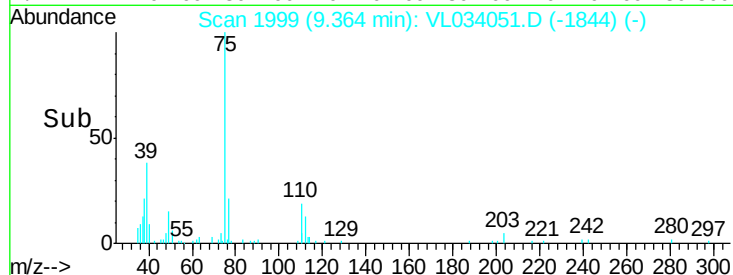
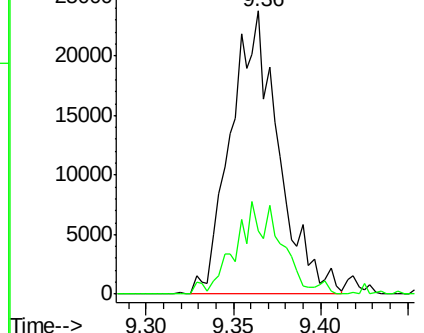
MMdadoda

8/2/2019 9:37:37 AM



Abundance Ion 75.10 (74.80 to 75.80): VL0

Ion 77.10 (76.80 to 77.80): VL0



#46

cis-1,3-Dichloropropene

Concen: 0.297 ppbv

RT: 8.78 min Scan# 1818

Delta R.T. -0.00 min

Lab File: VL034051.D

Acq: 30 Jul 2019 4:03

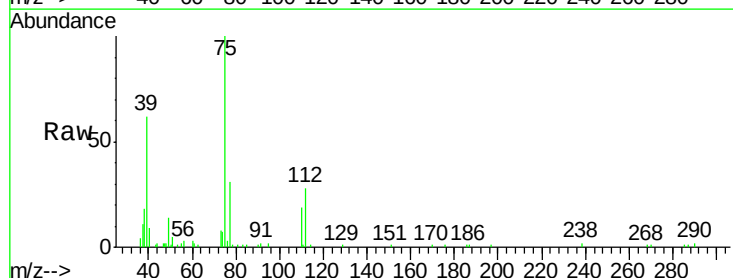
Tgt Ion: 75 Resp: 51210

Ion Ratio Lower Upper

75 100

39 61.9 51.4 77.2

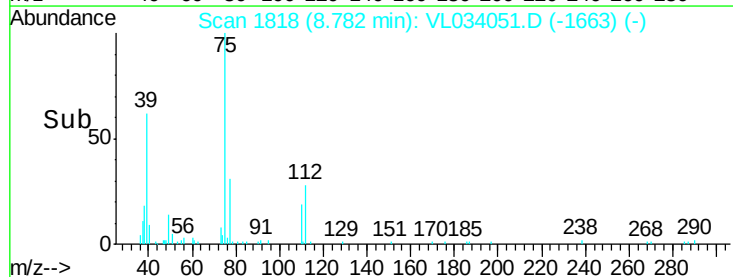
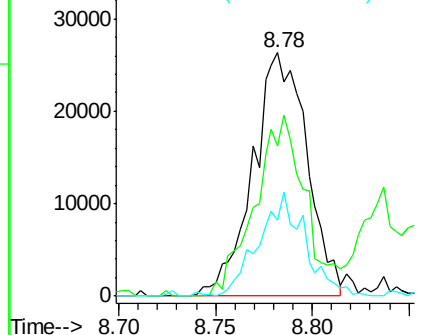
77 31.4 25.8 38.6

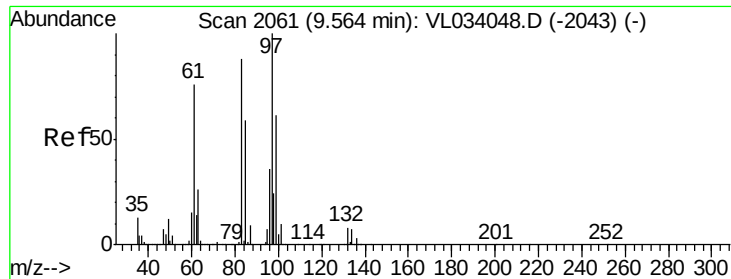


Abundance Ion 75.00 (74.70 to 75.70): VL0

Ion 39.00 (38.70 to 39.70): VL0

Ion 77.00 (76.70 to 77.70): VL0





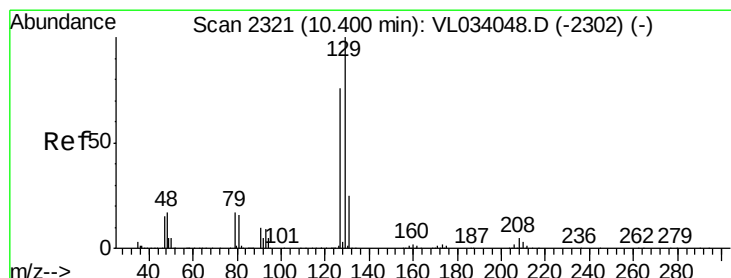
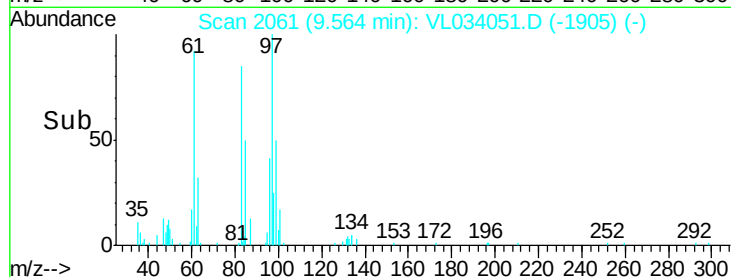
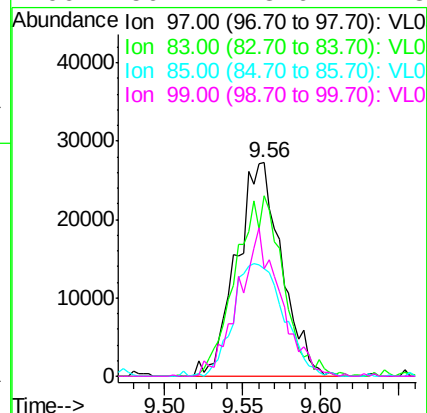
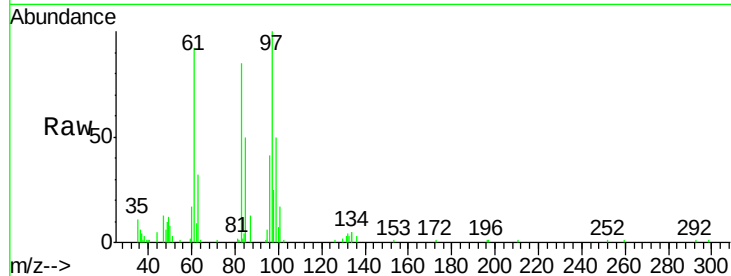
#47
 1,1,2-Trichloroethane
 Concen: 0.382 ppbv m
 RT: 9.56 min Scan# 2061
 Delta R.T. -0.00 min
 Lab File: VL034051.D
 Acq: 30 Jul 2019 4:03

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion:	97	Resp:	54338
Ion	Ratio	Lower	Upper
97	100		
83	84.6	70.6	106.0
85	50.3	47.3	70.9
99	50.2	48.6	72.8

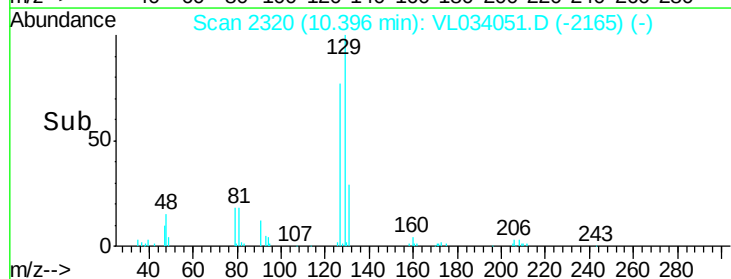
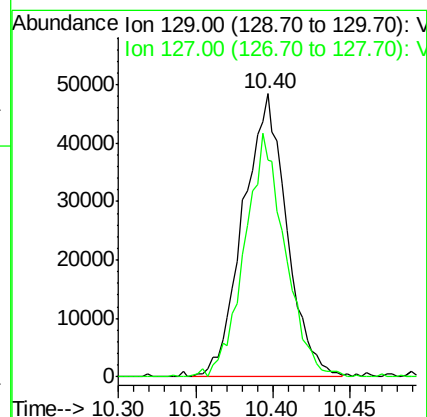
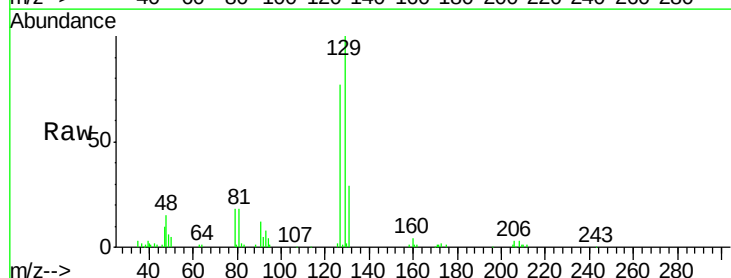
Manual Integrations
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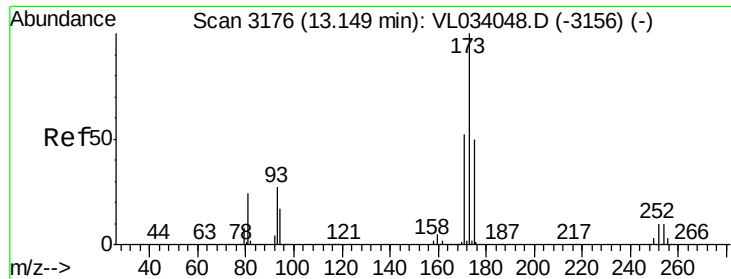
MMDadoda
 8/2/2019 9:37:37 AM



#48
 Dibromochloromethane
 Concen: 0.332 ppbv
 RT: 10.40 min Scan# 2320
 Delta R.T. -0.00 min
 Lab File: VL034051.D
 Acq: 30 Jul 2019 4:03

Tgt Ion:	129	Resp:	95041
Ion	Ratio	Lower	Upper
129	100		
127	80.0	38.6	115.8





#49

Bromoform

Concen: 0.373 ppbv m

RT: 13.14 min Scan# 3173

Delta R.T. -0.01 min

Lab File: VL034051.D

Acq: 30 Jul 2019 4:03

Instrument :

MSVOA_L

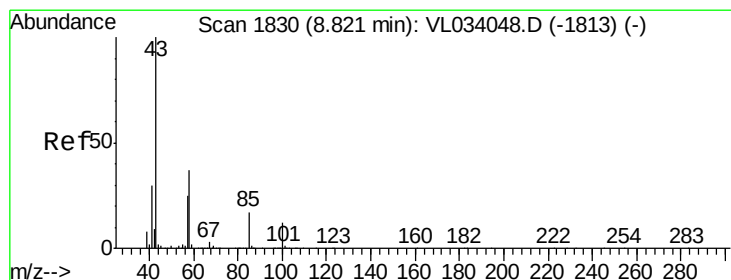
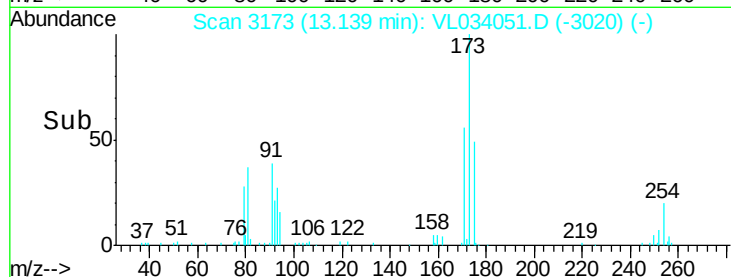
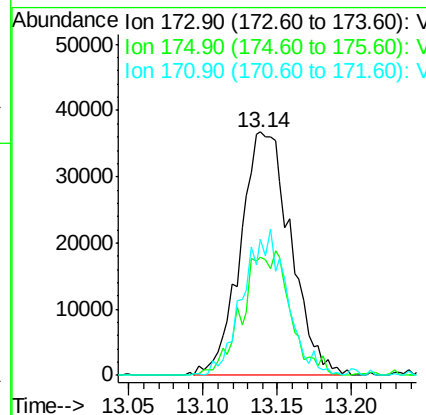
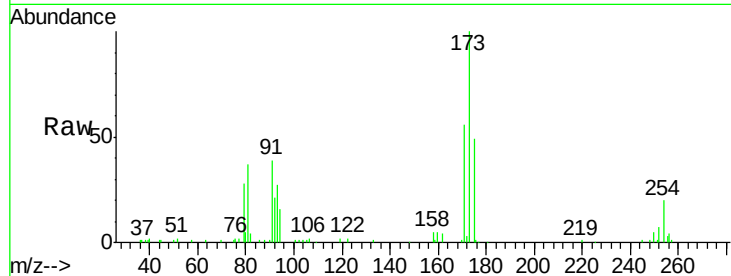
ClientSampleId :

VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
173	100		
175	0.0	39.4	59.0#
171	0.0	41.9	62.9#

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#50

4-Methyl-2-Pentanone

Concen: 0.361 ppbv m

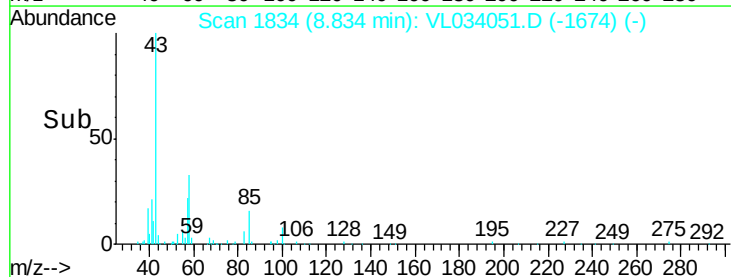
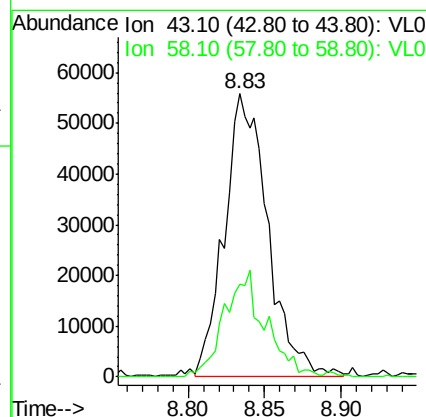
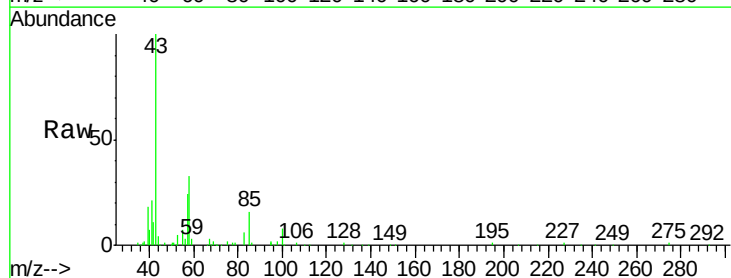
RT: 8.83 min Scan# 1834

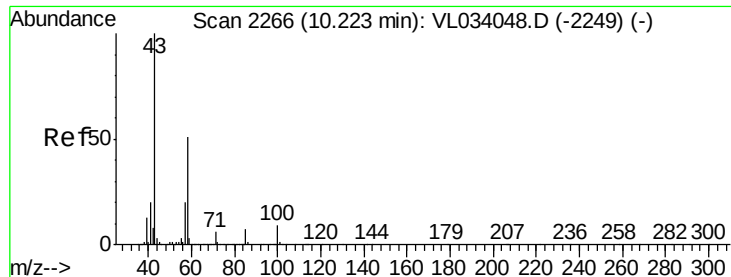
Delta R.T. 0.01 min

Lab File: VL034051.D

Acq: 30 Jul 2019 4:03

Tgt Ion	Ratio	Lower	Upper
43	100		
58	0.0	30.7	46.1#





#51

2-Hexanone

Concen: 0.275 ppbv m

RT: 10.24 min Scan# 2271

Delta R.T. 0.02 min

Lab File: VL034051.D

Acq: 30 Jul 2019 4:03

Instrument :

MSVOA_L

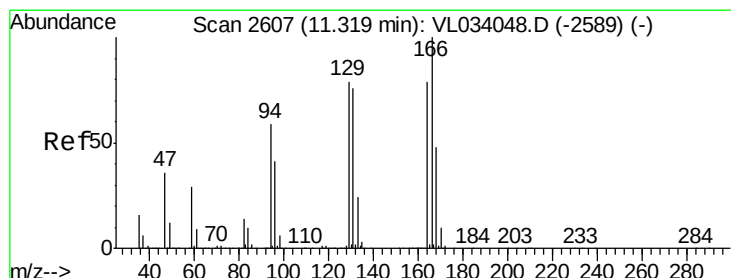
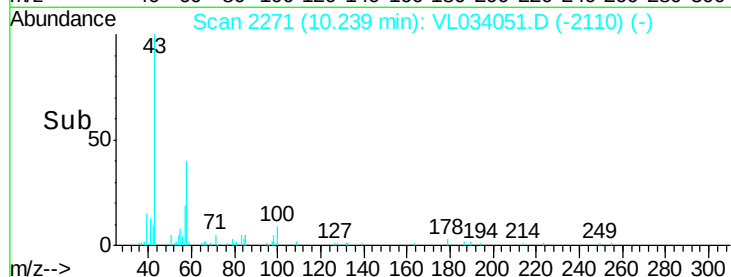
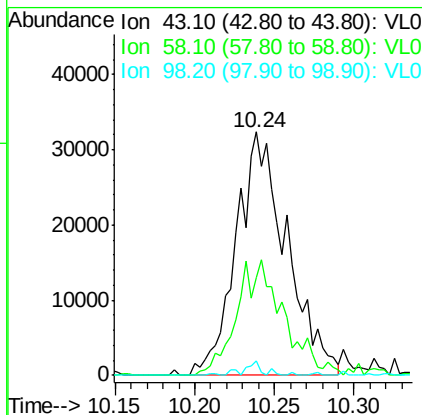
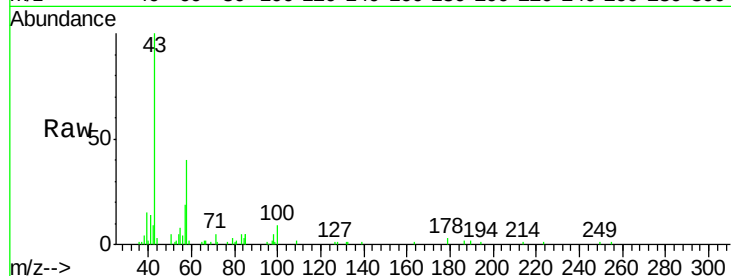
ClientSampleId :

VSTDIC0.5

Tot Ion:	43	Resp:	71394
Ion	Ratio	Lower	Upper
43	100		
58	44.2	40.2	60.2
98	2.2	0.4	0.6

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#52

Tetrachloroethene

Concen: 0.355 ppbv m

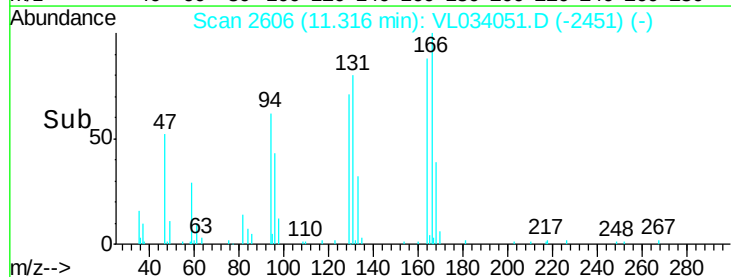
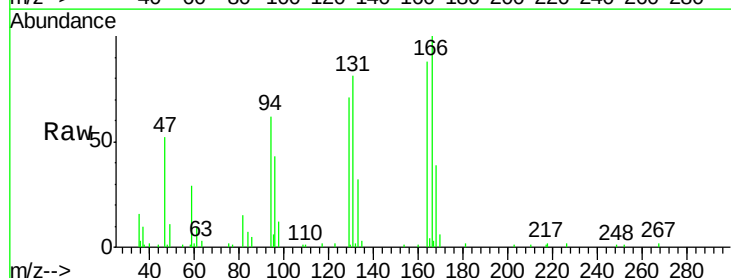
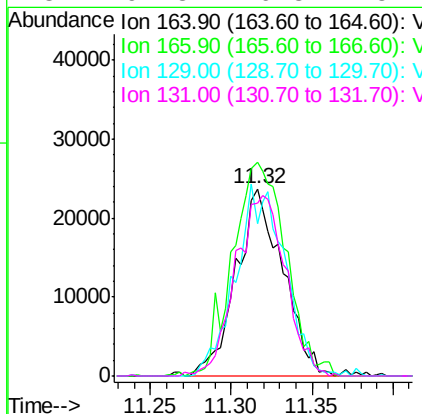
RT: 11.32 min Scan# 2606

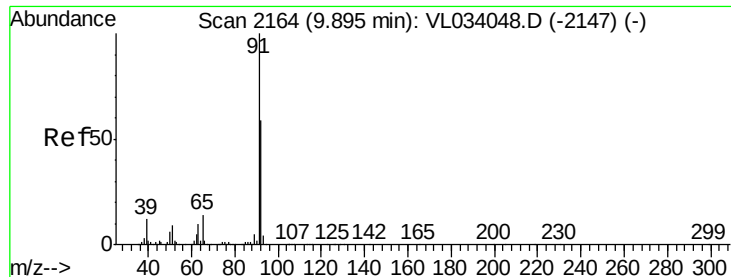
Delta R.T. -0.00 min

Lab File: VL034051.D

Acq: 30 Jul 2019 4:03

Tgt Ion:	164	Resp:	47214
Ion	Ratio	Lower	Upper
164	100		
166	114.0	101.6	152.4
129	81.2	80.7	121.1
131	92.3	76.8	115.2





#53

Toluene

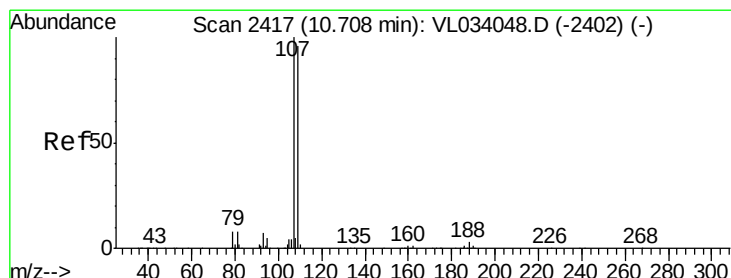
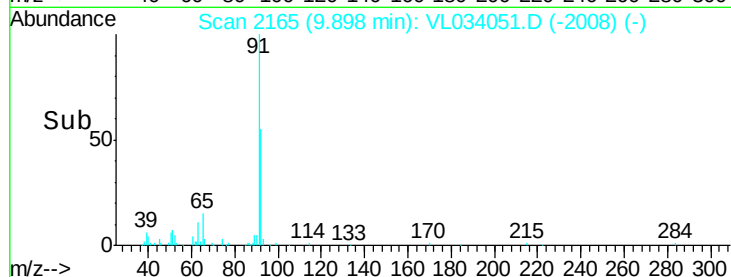
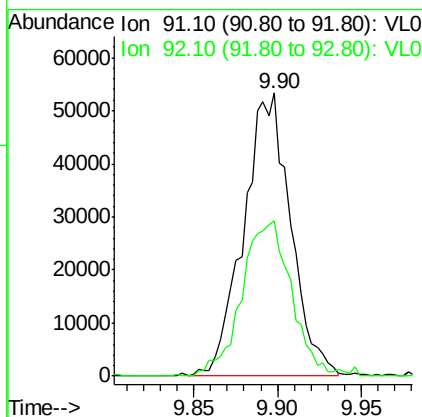
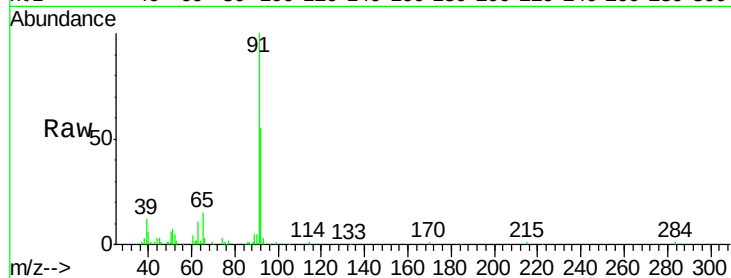
Concen: 0.302 ppbv m
RT: 9.90 min Scan# 2165
Delta R.T. 0.00 min
Lab File: VL034051.D
Acq: 30 Jul 2019 4:03

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
91	100		
92	0.0	47.4	71.2#

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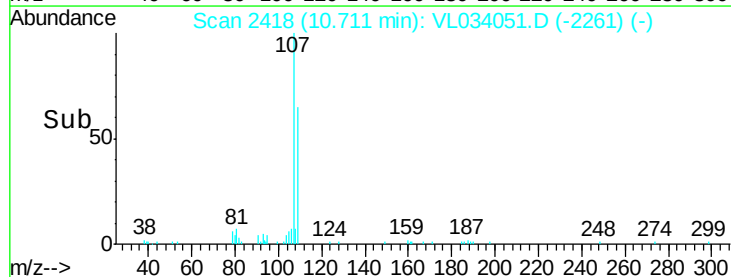
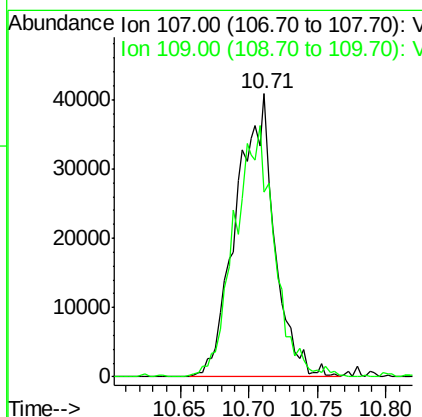
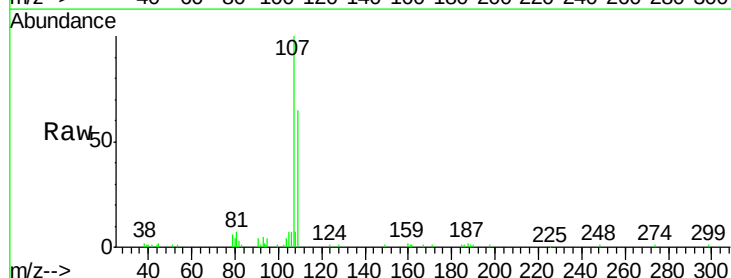


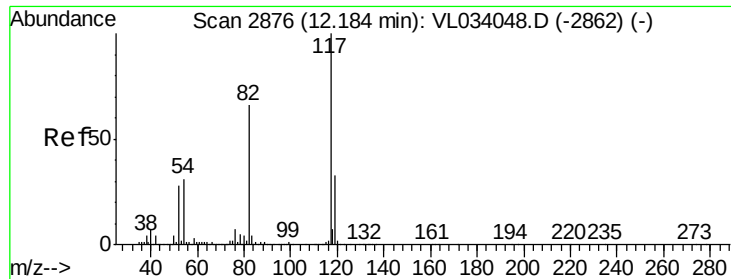
#54

1,2-Dibromoethane

Concen: 0.380 ppbv m
RT: 10.71 min Scan# 2418
Delta R.T. 0.00 min
Lab File: VL034051.D
Acq: 30 Jul 2019 4:03

Tgt Ion	Ratio	Lower	Upper
107	100		
109	65.4	76.6	115.0#





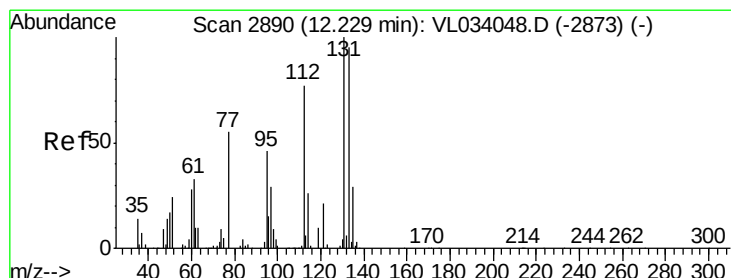
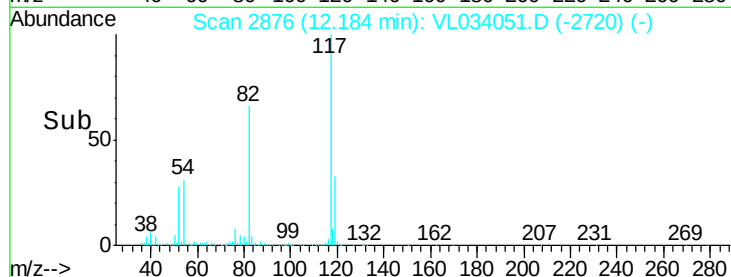
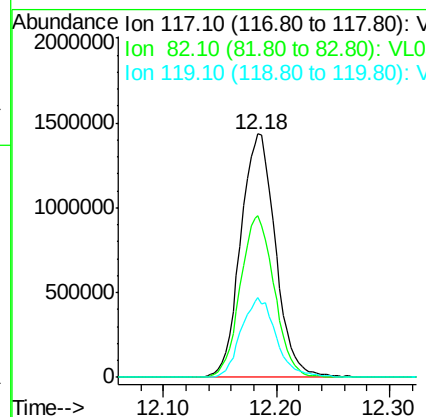
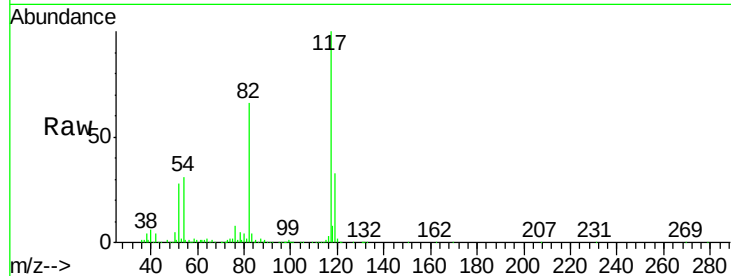
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.18 min Scan# 2876
Delta R.T. 0.00 min
Lab File: VL034051.D
Acq: 30 Jul 2019 4:03

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
117	100		
82	65.0	49.8	74.8
119	33.3	43.0	64.6#

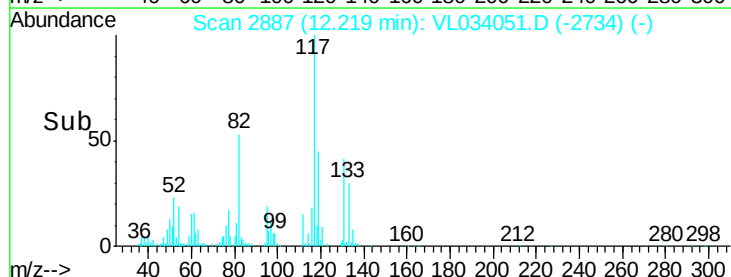
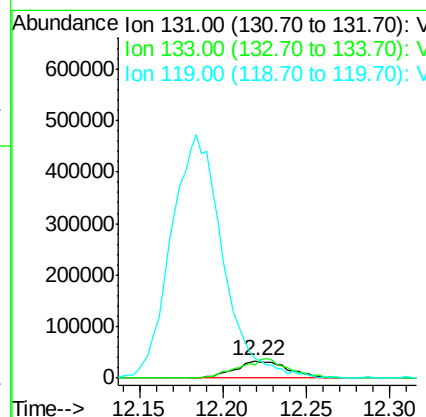
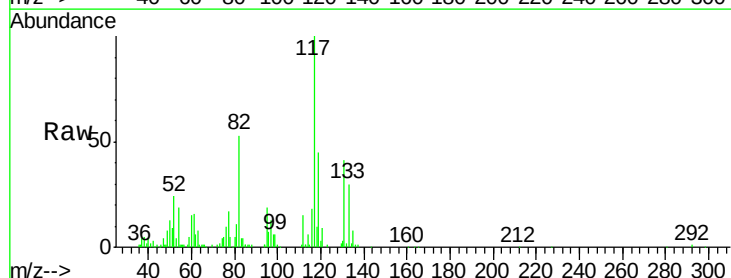
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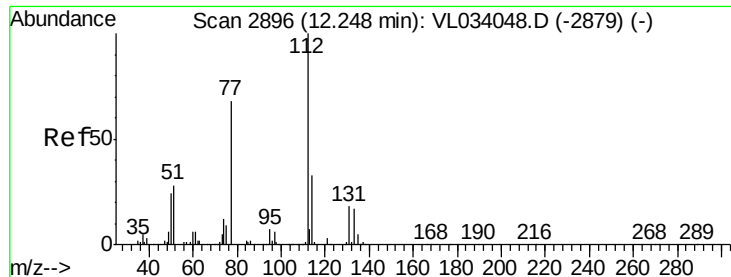
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#56
1,1,1,2-Tetrachloroethane
Concen: 0.544 ppbv m
RT: 12.22 min Scan# 2887
Delta R.T. -0.01 min
Lab File: VL034051.D
Acq: 30 Jul 2019 4:03

Tgt Ion	Ratio	Lower	Upper
131	100		
133	105.2	76.6	114.8
119	1390.0	46.6	69.8#





#57

Chlorobenzene

Concen: 0.528 ppbv m

RT: 12.25 min Scan# 2896

Delta R.T. -0.00 min

Lab File: VL034051.D

Acq: 30 Jul 2019 4:03

Instrument :

MSVOA_L

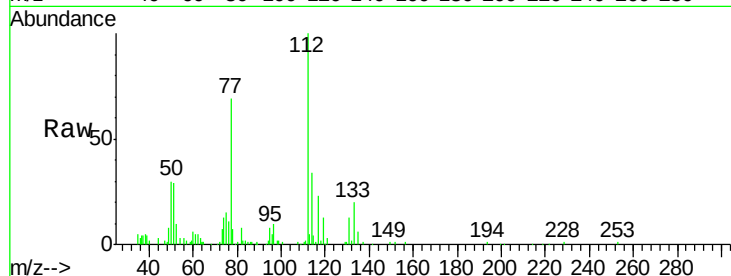
ClientSampleId :

VSTDIC0.5

Tot Ion:	112	Resp:	126779
Ion Ratio	Lower	Upper	
112	100		
77	68.7	55.1	82.7
114	34.1	29.5	36.1

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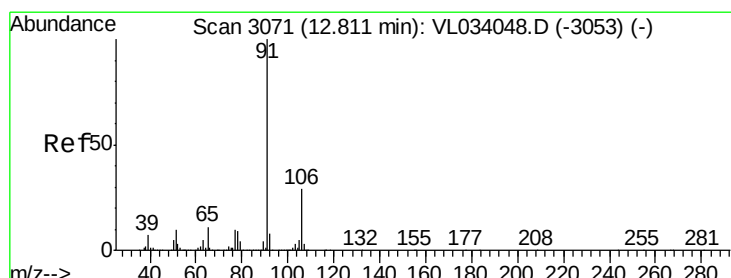
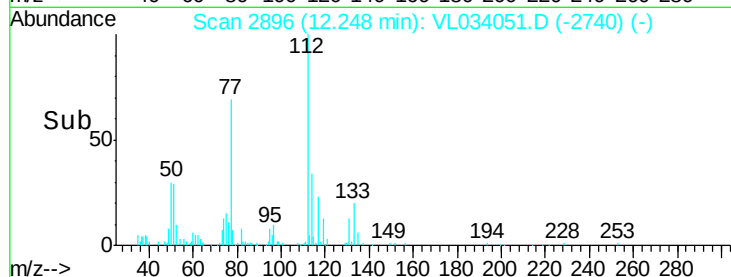
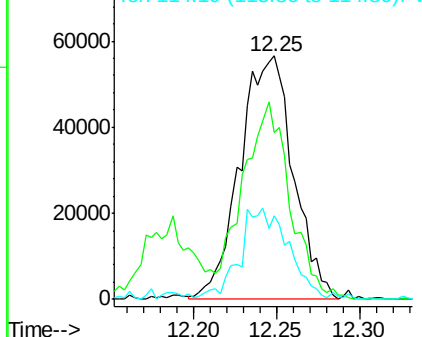
MMdadoda
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Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 0.415 ppbv

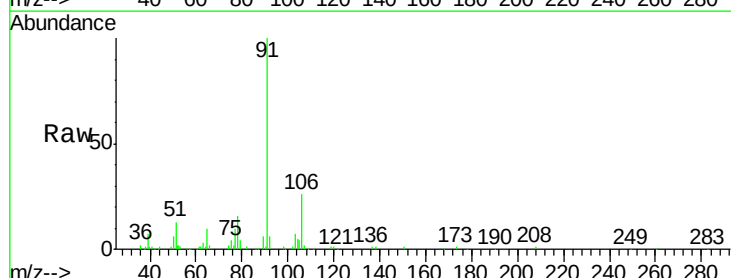
RT: 12.81 min Scan# 3072

Delta R.T. 0.00 min

Lab File: VL034051.D

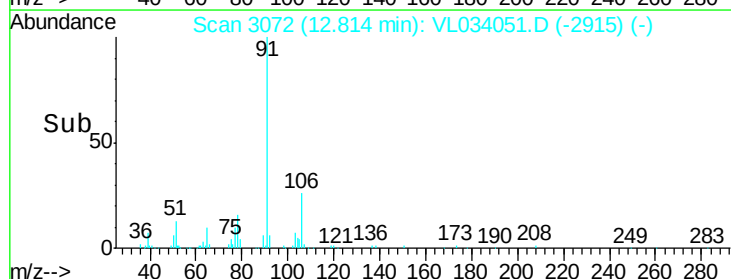
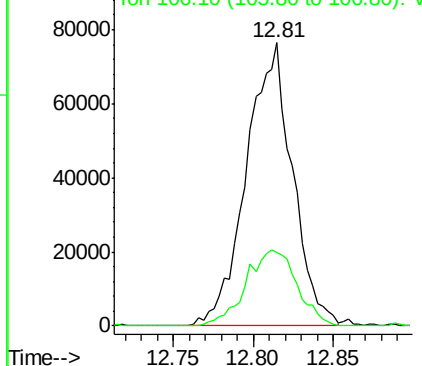
Acq: 30 Jul 2019 4:03

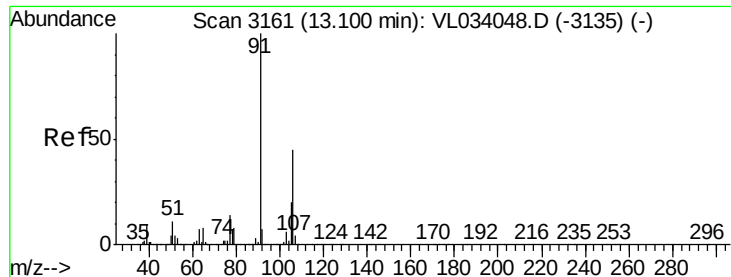
Tgt Ion:	91	Resp:	150764
Ion Ratio	Lower	Upper	
91	100		
106	26.2	23.5	35.3



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





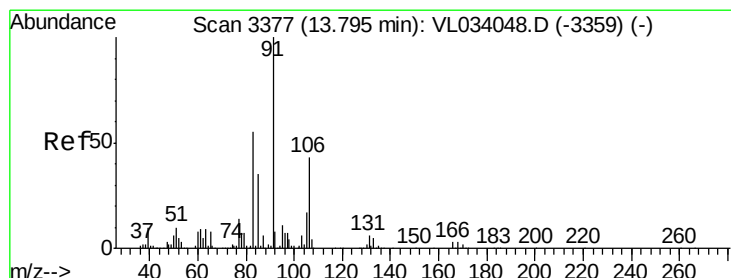
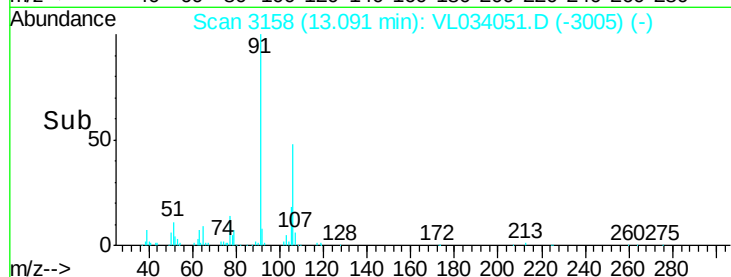
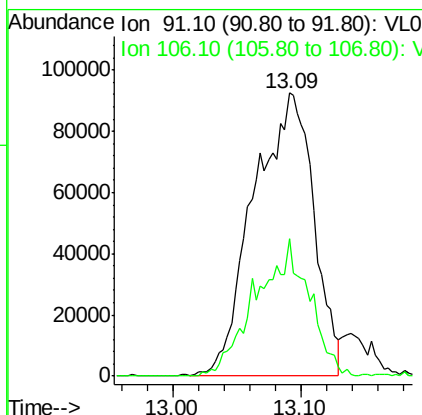
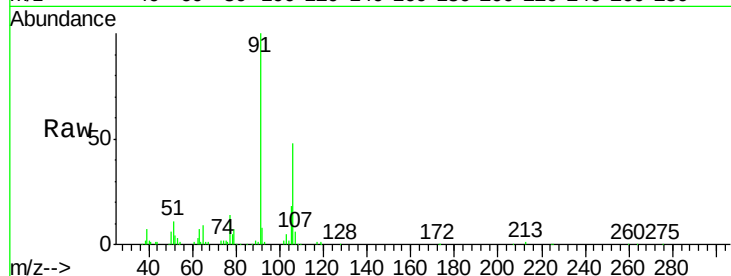
#59
m/p-Xylene
Concen: 0.915 ppbv m
RT: 13.09 min Scan# 3158
Delta R.T. -0.01 min
Lab File: VL034051.D
Acq: 30 Jul 2019 4:03

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ion	Ratio	Lower	Upper
91	100			
106	42.6	35.1	52.7	

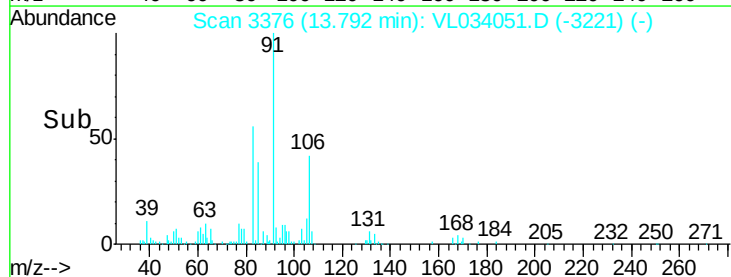
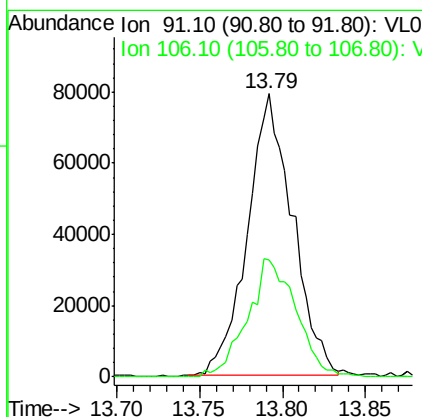
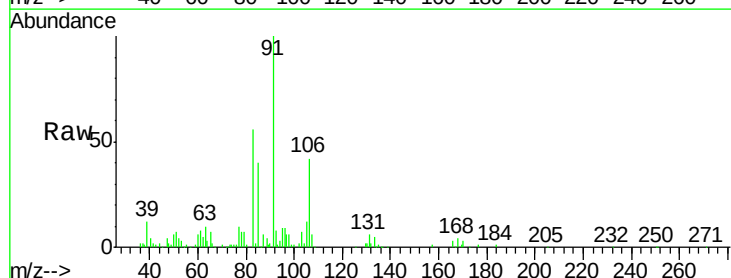
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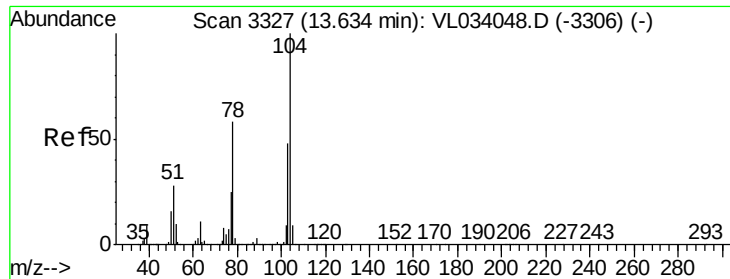
MMDadoda
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#60
o-Xylene
Concen: 0.454 ppbv
RT: 13.79 min Scan# 3376
Delta R.T. -0.00 min
Lab File: VL034051.D
Acq: 30 Jul 2019 4:03

Tgt Ion	Ion	Ratio	Lower	Upper
91	100			
106	45.0	21.2	63.6	





#61

Stvrene

Concen: 0.358 ppbv

RT: 13.63 min Scan# 3327

Delta R.T. 0.00 min

Lab File: VL034051.D

Acq: 30 Jul 2019 4:03

Instrument :

MSVOA_L

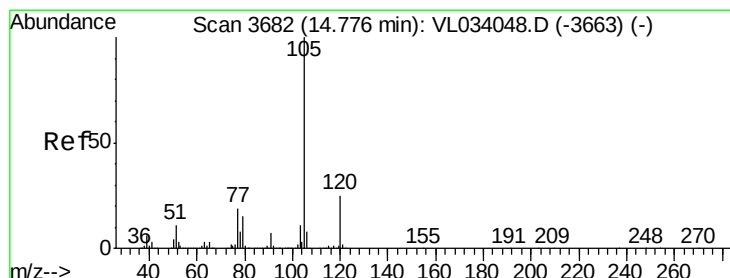
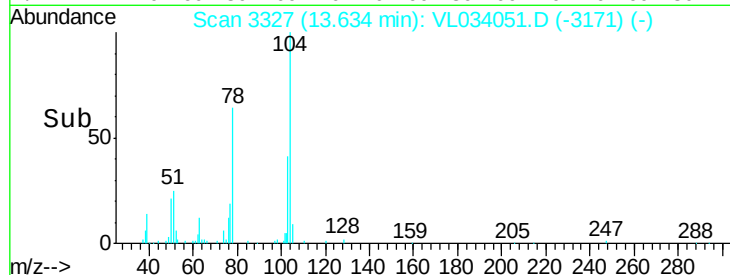
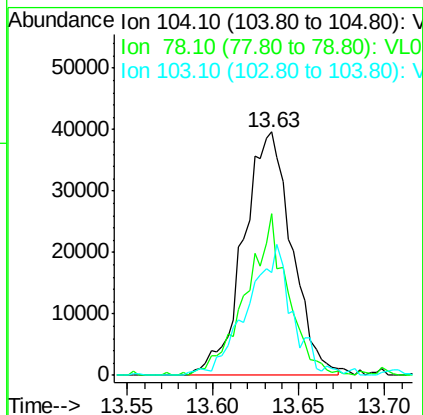
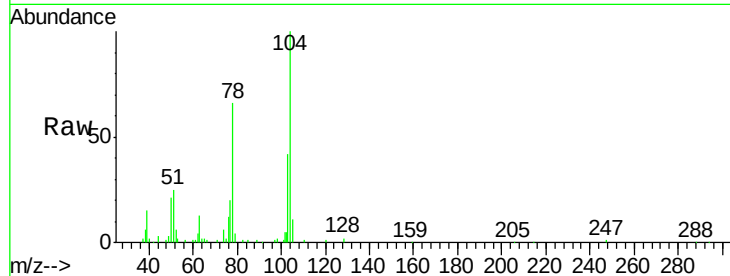
ClientSampled :

VSTDIC0.5

Tot Ion:	104	Resp:	77698
Ion Ratio	Lower	Upper	
104	100		
78	57.2	44.3	66.5
103	50.8	38.8	58.2

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#62

Isopropylbenzene

Concen: 0.435 ppbv

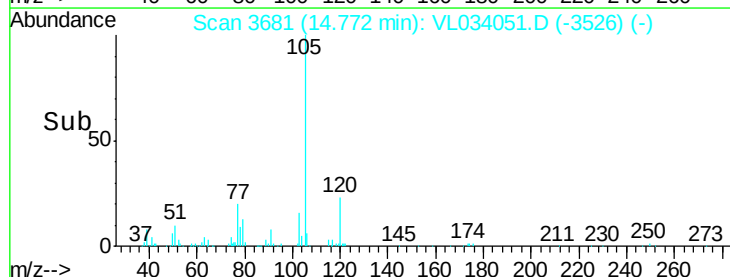
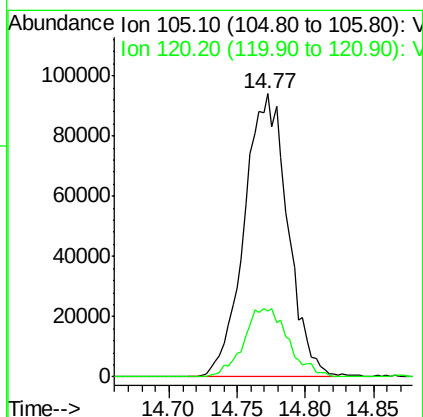
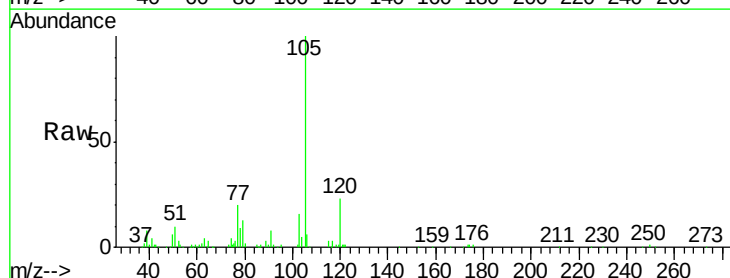
RT: 14.77 min Scan# 3681

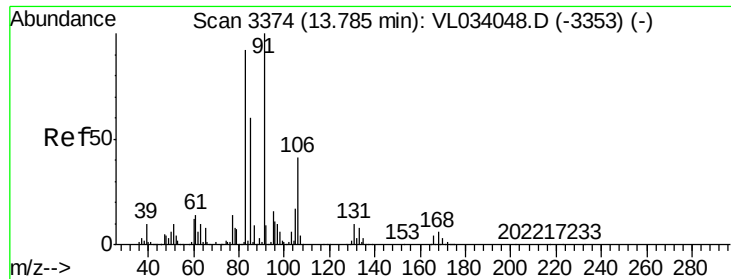
Delta R.T. -0.00 min

Lab File: VL034051.D

Acq: 30 Jul 2019 4:03

Tgt Ion:	105	Resp:	207262
Ion Ratio	Lower	Upper	
105	100		
120	24.9	20.2	30.2





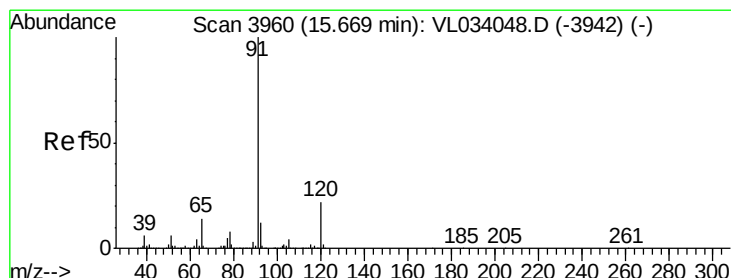
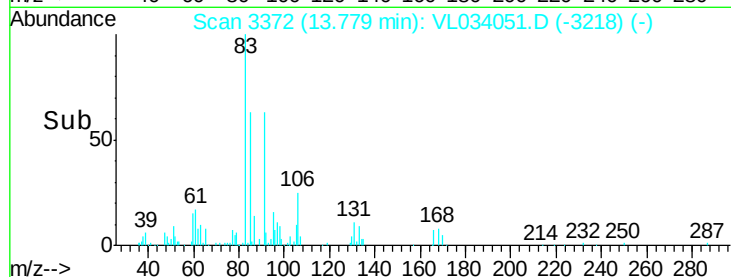
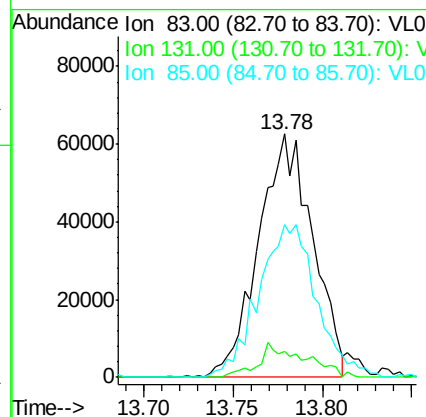
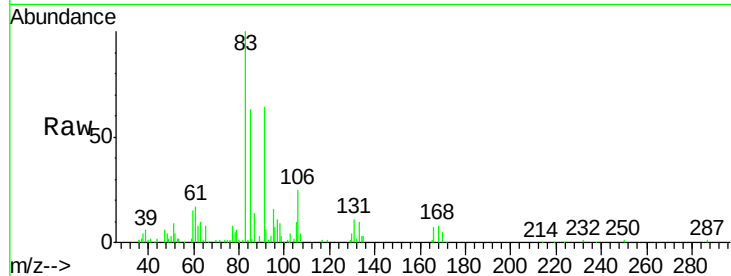
#63
 1,1,2,2-Tetrachloroethane
 Concen: 0.518 ppbv
 RT: 13.78 min Scan# 3372
 Delta R.T. -0.01 min
 Lab File: VL034051.D
 Acq: 30 Jul 2019 4:03

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion	Ratio	Resp	Lower	Upper
83	100			
131	12.3	4.8	14.4	
85	67.7	32.4	97.0	

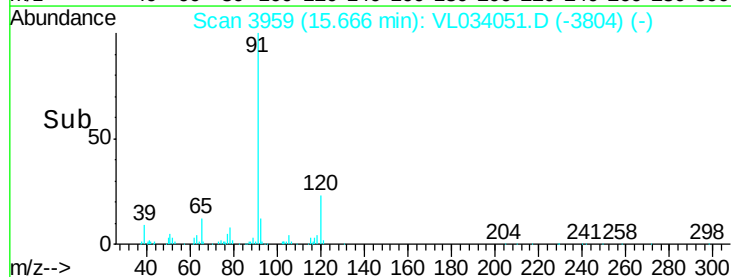
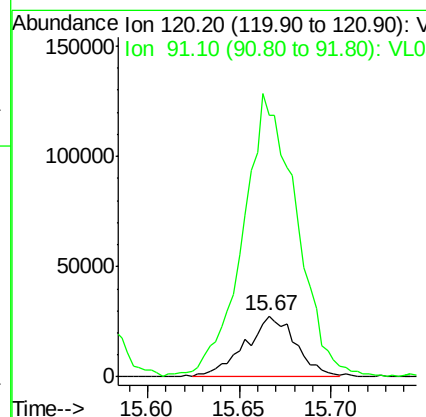
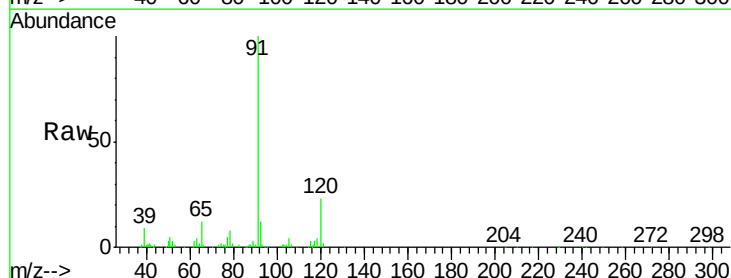
Manual Integrations
 APPROVED

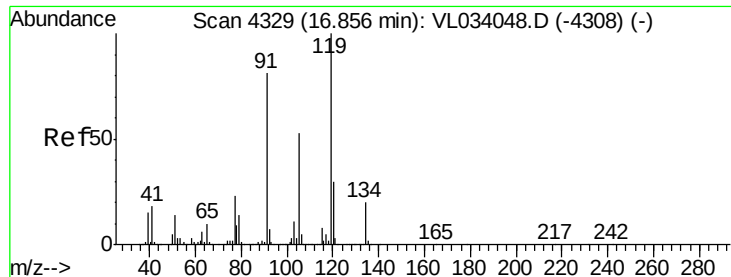
MMDadoda
 8/2/2019 9:37:37 AM



#64
 n-propylbenzene
 Concen: 0.429 ppbv m
 RT: 15.67 min Scan# 3959
 Delta R.T. -0.00 min
 Lab File: VL034051.D
 Acq: 30 Jul 2019 4:03

Tgt Ion	Ratio	Resp	Lower	Upper
120	100			
91	492.6	386.2	579.2	





#65

tert-Butylbenzene

Concen: 0.475 ppbv

RT: 16.85 min Scan# 4328

Delta R.T. -0.00 min

Lab File: VL034051.D

Acq: 30 Jul 2019 4:03

Instrument :

MSVOA_L

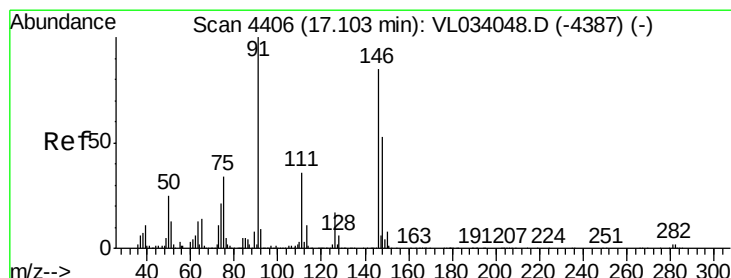
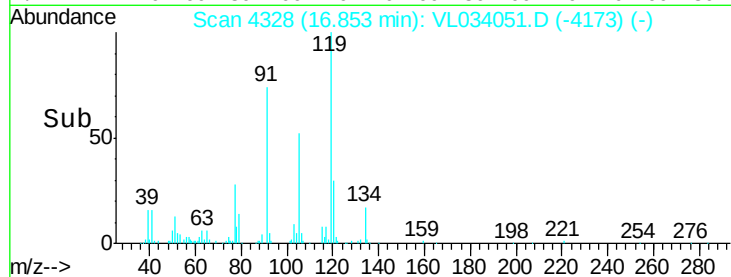
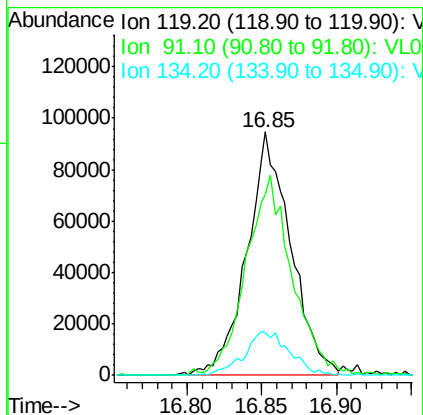
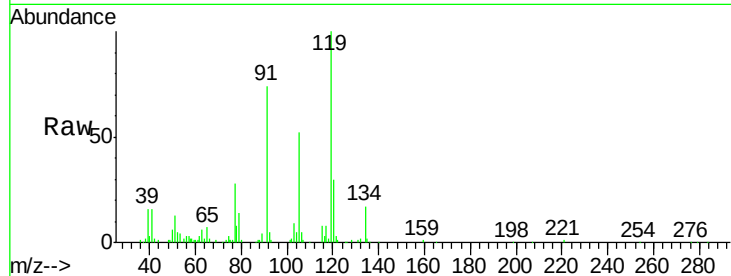
ClientSampleId :

VSTDIC0.5

Tot Ion:	119	Resp:	190638
Ion Ratio	Lower	Upper	
119	100		
91	88.4	66.9	100.3
134	19.0	15.5	23.3

Manual Integrations
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MMdadoda
8/2/2019 9:37:37 AM



#66

Benzyl Chloride

Concen: 0.436 ppbv m

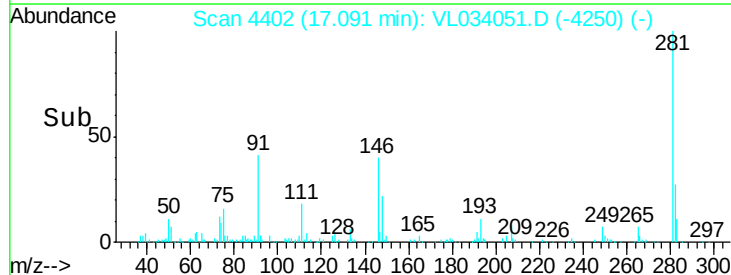
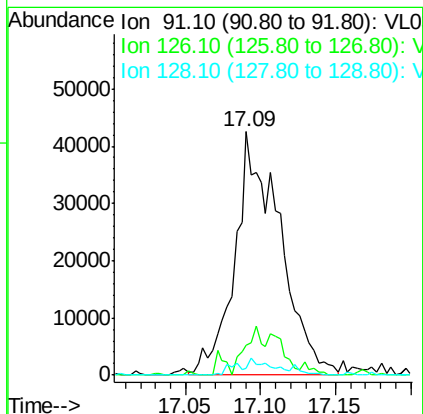
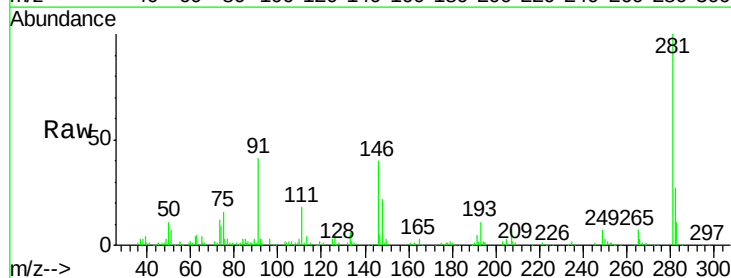
RT: 17.09 min Scan# 4402

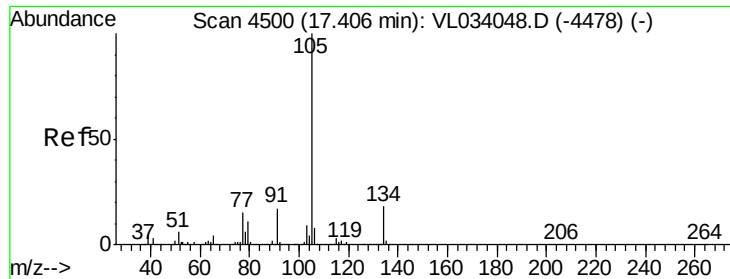
Delta R.T. -0.01 min

Lab File: VL034051.D

Acq: 30 Jul 2019 4:03

Tgt Ion:	91	Resp:	88629
Ion Ratio	Lower	Upper	
91	100		
126	17.6	13.5	20.3
128	5.7	4.5	6.7





#67

sec-Butylbenzene

Concen: 0.483 ppbv

RT: 17.41 min Scan# 4500

Delta R.T. -0.00 min

Lab File: VL034051.D

Acq: 30 Jul 2019 4:03

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 105 Resp: 273921

Ion Ratio Lower Upper

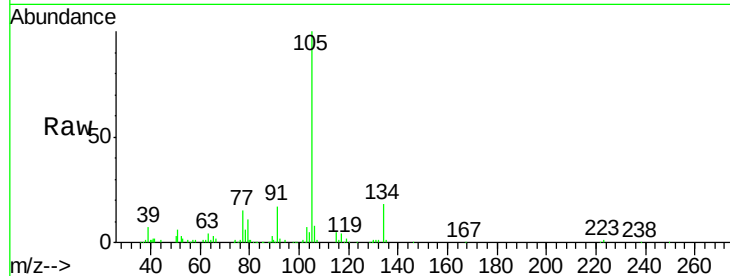
105 100

134 17.9 14.3 21.5

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APPROVED

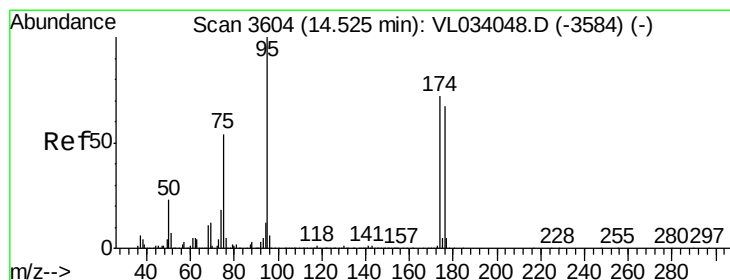
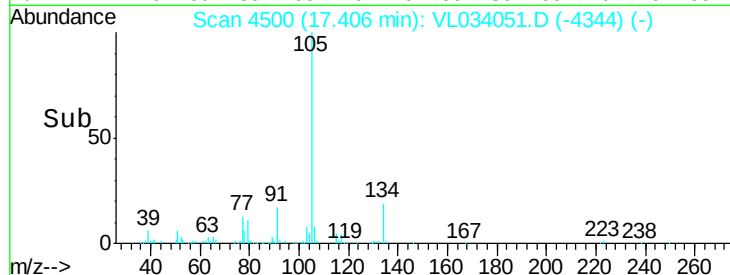
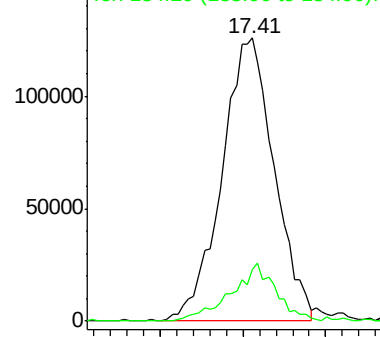
MMdadoda

8/2/2019 9:37:37 AM



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 9.774 ppbv

RT: 14.52 min Scan# 3602

Delta R.T. -0.01 min

Lab File: VL034051.D

Acq: 30 Jul 2019 4:03

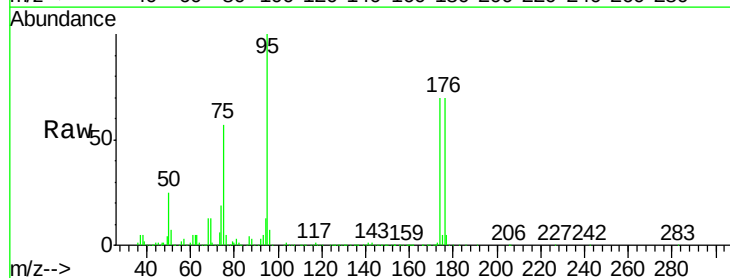
Tgt Ion: 95 Resp: 2459557

Ion Ratio Lower Upper

95 100

174 72.2 57.6 86.4

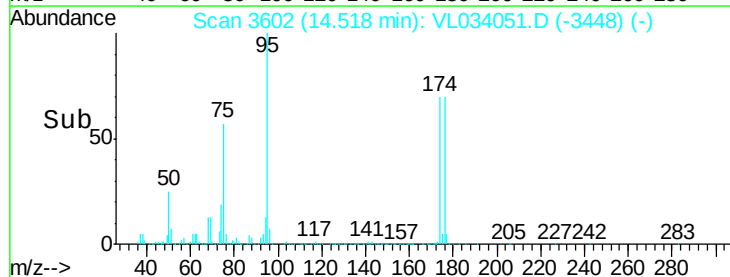
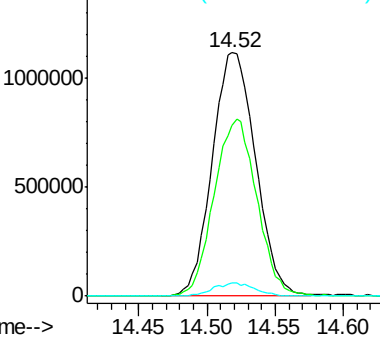
175 5.3 4.1 6.1

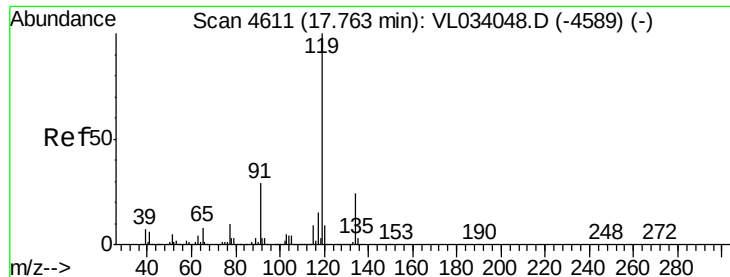


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





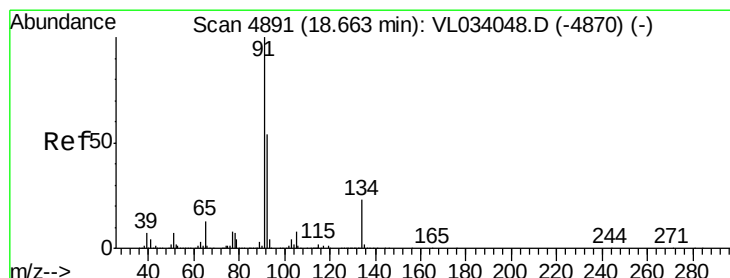
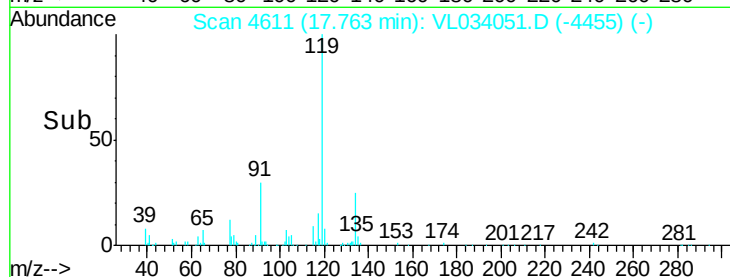
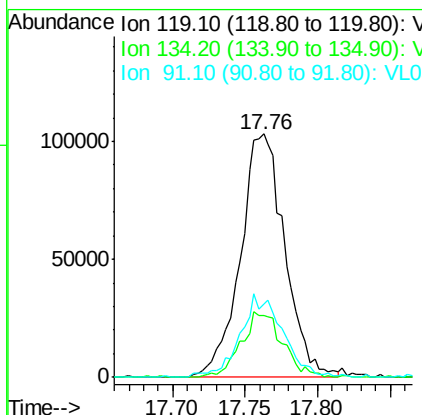
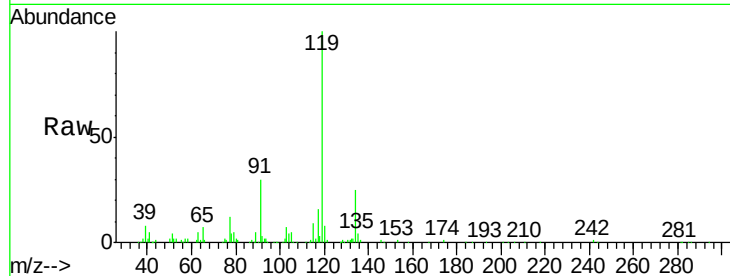
#69
 p-Isopropyltoluene
 Concen: 0.471 ppbv
 RT: 17.76 min Scan# 4611
 Delta R.T. 0.00 min
 Lab File: VL034051.D
 Acq: 30 Jul 2019 4:03

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion	Ratio	Resp	Lower	Upper
119	100	219805		
134	25.2		20.1	30.1
91	33.2		23.6	35.4

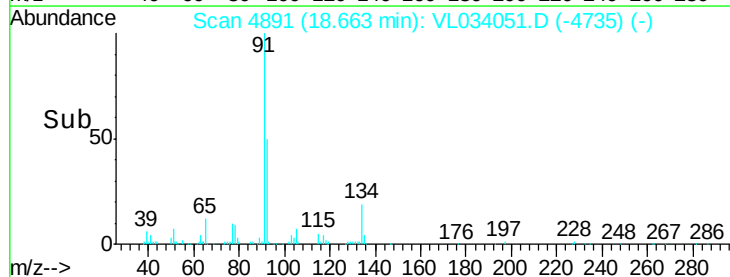
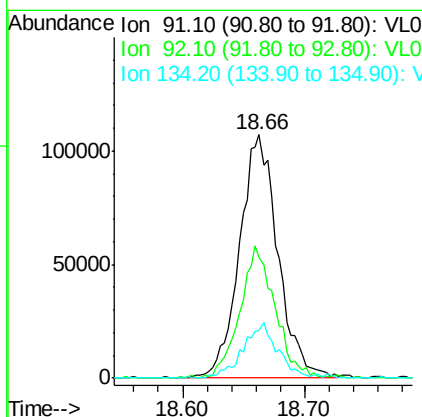
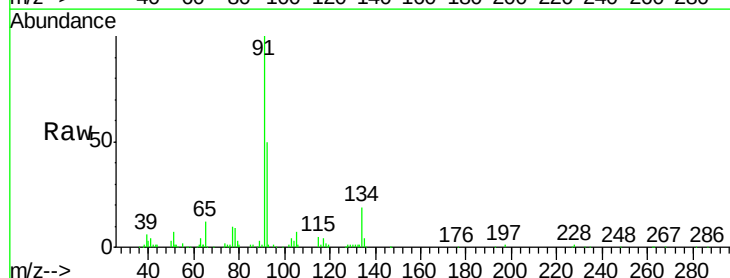
Manual Integrations
 APPROVED

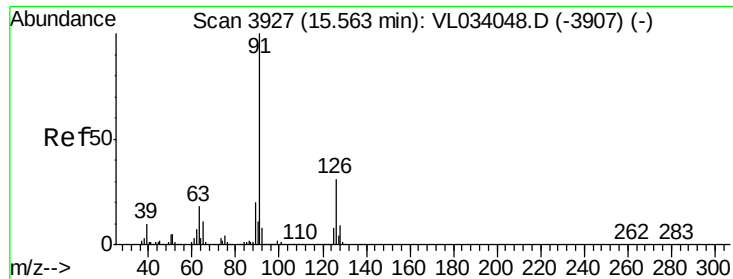
MMdadoda
 8/2/2019 9:37:37 AM



#70
 n-Butylbenzene
 Concen: 0.470 ppbv
 RT: 18.66 min Scan# 4891
 Delta R.T. -0.00 min
 Lab File: VL034051.D
 Acq: 30 Jul 2019 4:03

Tgt Ion	Ratio	Resp	Lower	Upper
91	100	230651		
92	50.7		42.6	64.0
134	21.0		17.7	26.5





#71

2-Chlorotoluene

Concen: 0.383 ppbv

RT: 15.56 min Scan# 3927

Delta R.T. 0.00 min

Lab File: VL034051.D

Acq: 30 Jul 2019 4:03

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 91 Resp: 132871

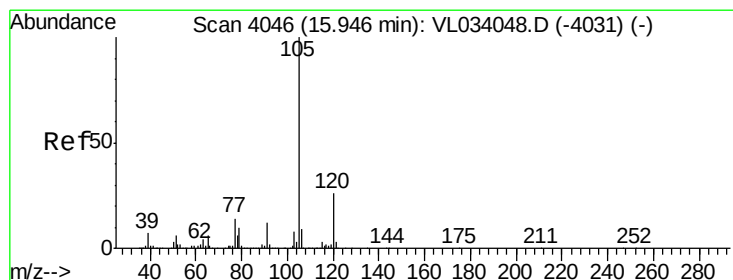
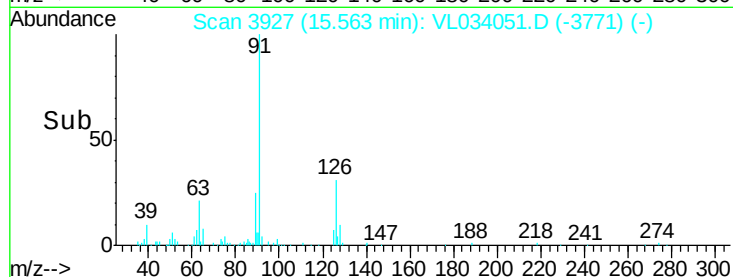
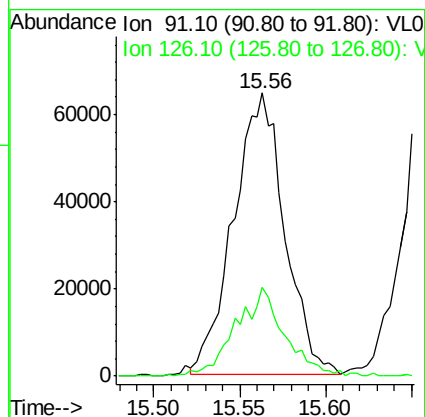
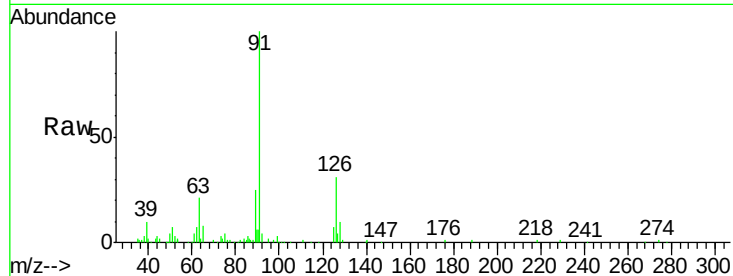
Ion Ratio Lower Upper

91 100

126 30.1 12.0 48.2

Manual Integrations
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MMdadoda
8/2/2019 9:37:37 AM



#72

4-Ethyltoluene

Concen: 0.391 ppbv

RT: 15.95 min Scan# 4047

Delta R.T. 0.00 min

Lab File: VL034051.D

Acq: 30 Jul 2019 4:03

Tgt Ion: 105 Resp: 156397

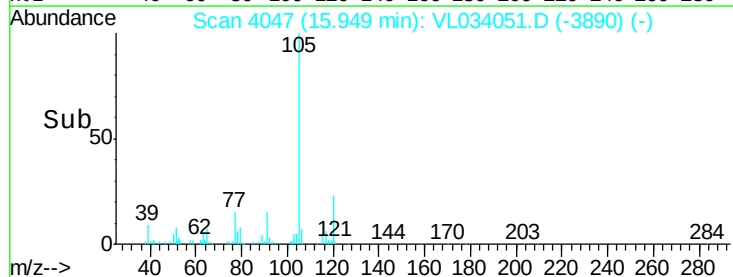
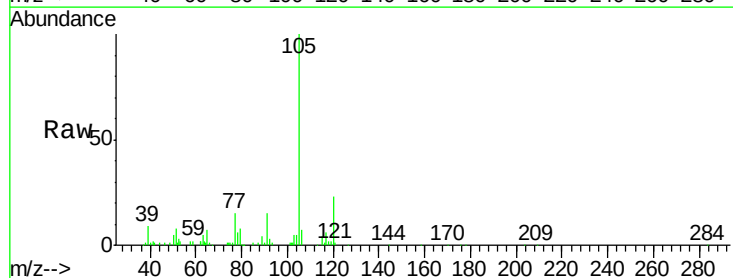
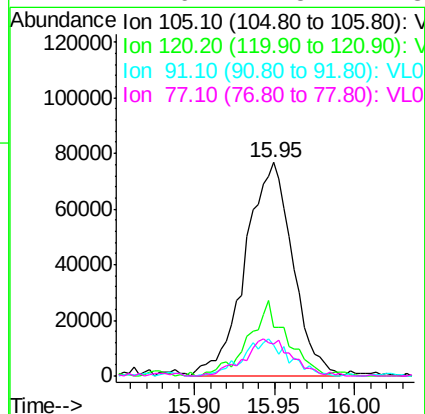
Ion Ratio Lower Upper

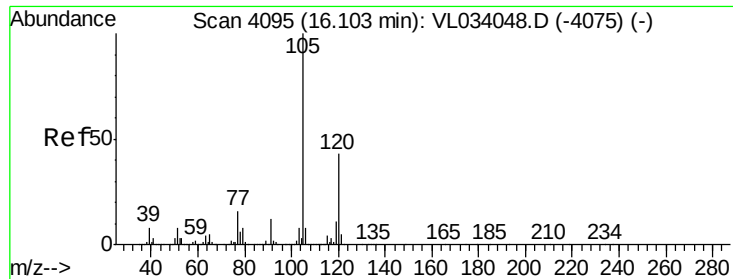
105 100

120 29.0 23.0 34.4

91 16.8 10.6 16.0#

77 17.6 11.5 17.3#





#73

1,3,5-Trimethylbenzene

Concen: 0.486 ppbv m

RT: 16.10 min Scan# 4094

Delta R.T. -0.00 min

Lab File: VL034051.D

Acq: 30 Jul 2019 4:03

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion:105 Resp: 179042

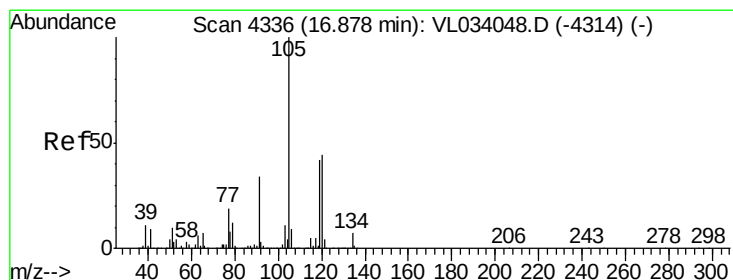
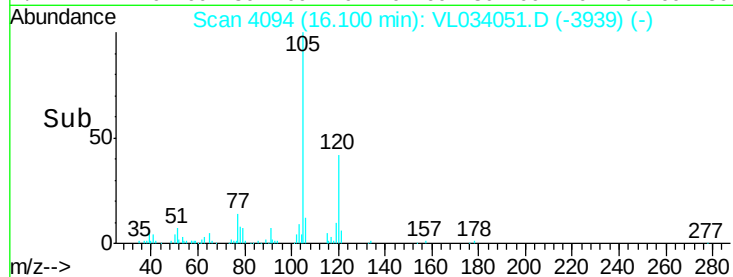
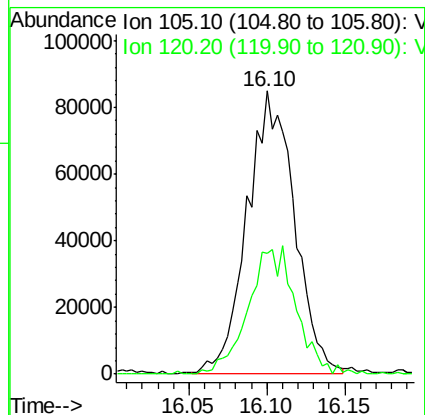
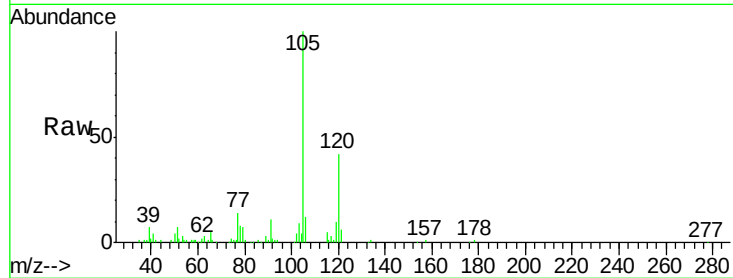
Ion Ratio Lower Upper

105 100

120 42.5 34.7 52.1

Manual Integrations
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MMdadoda
8/2/2019 9:37:37 AM



#74

1,2,4-Trimethylbenzene

Concen: 0.514 ppbv

RT: 16.87 min Scan# 4333

Delta R.T. -0.01 min

Lab File: VL034051.D

Acq: 30 Jul 2019 4:03

Tgt Ion:105 Resp: 209655

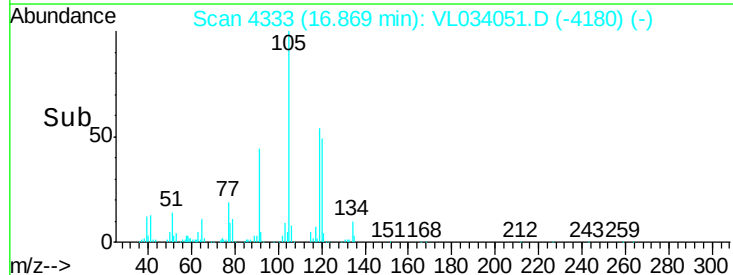
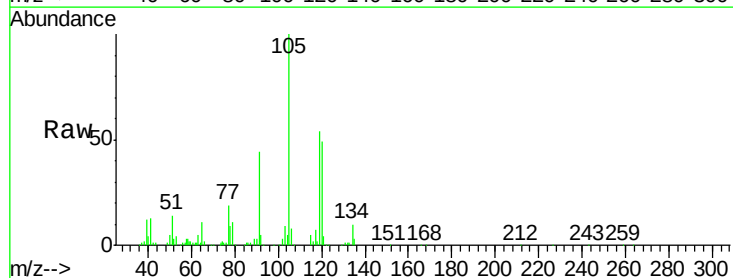
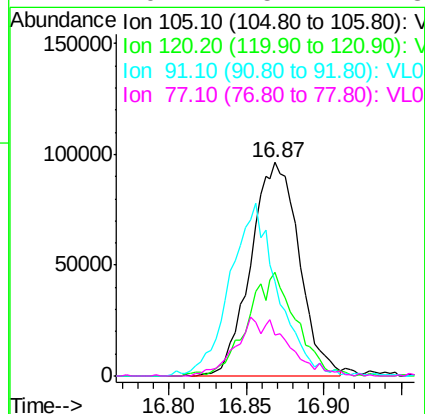
Ion Ratio Lower Upper

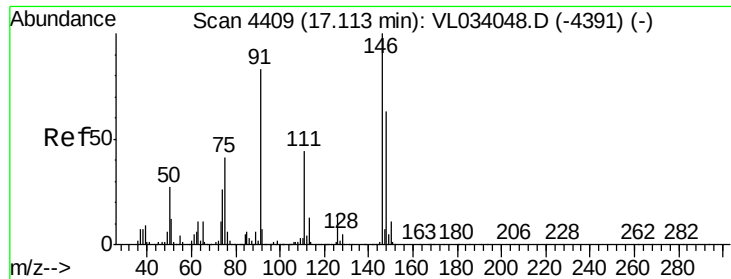
105 100

120 47.6 35.6 53.4

91 43.8 28.0 42.0#

77 19.2 15.2 22.8





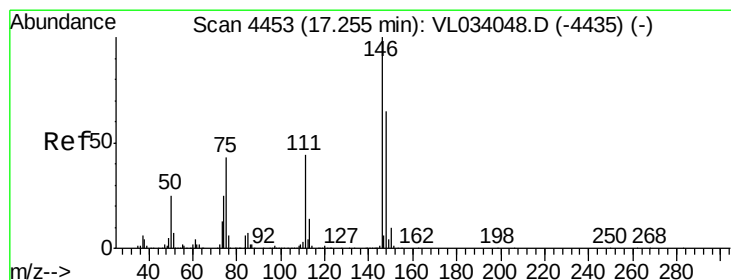
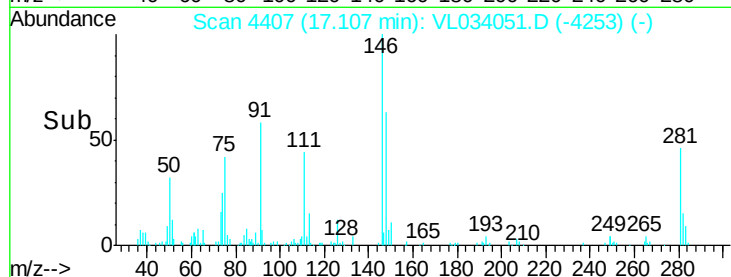
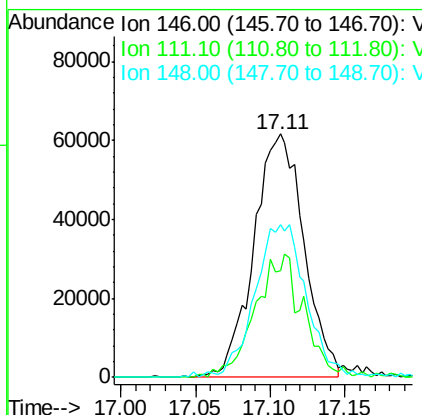
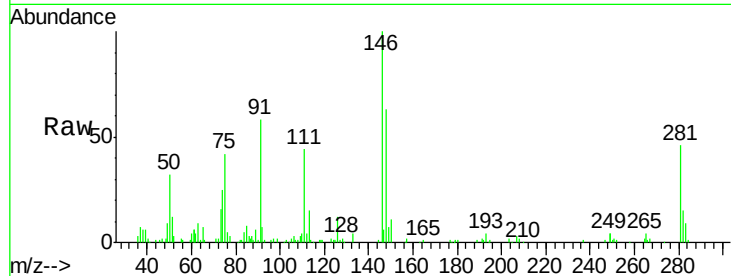
#75
 1,3-Dichlorobenzene
 Concen: 0.551 ppbv
 RT: 17.11 min Scan# 4407
 Delta R.T. -0.01 min
 Lab File: VL034051.D
 Acq: 30 Jul 2019 4:03

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
146	100		
111	49.4	22.1	66.5
148	65.1	32.0	96.2

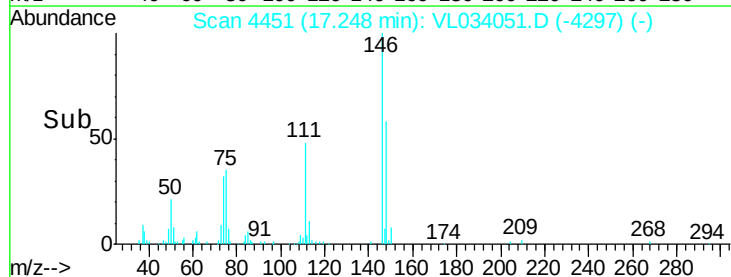
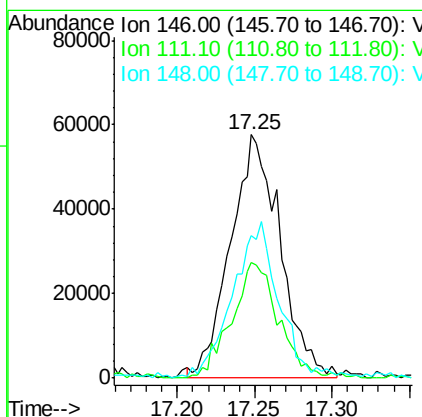
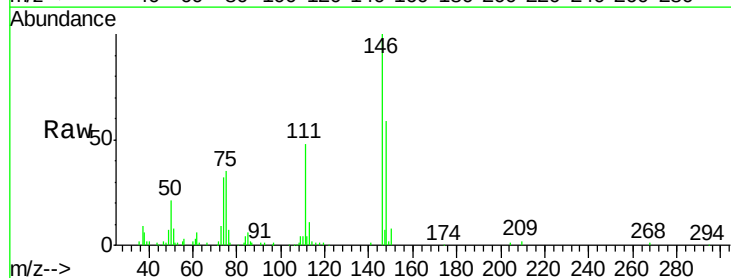
Manual Integrations
 APPROVED

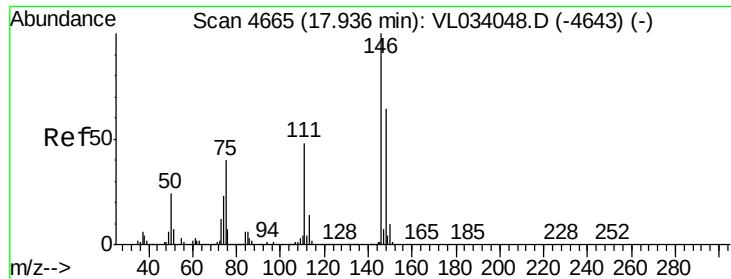
MMdadoda
 8/2/2019 9:37:37 AM



#76
 1,4-Dichlorobenzene
 Concen: 0.525 ppbv m
 RT: 17.25 min Scan# 4451
 Delta R.T. -0.01 min
 Lab File: VL034051.D
 Acq: 30 Jul 2019 4:03

Tgt Ion	Ratio	Lower	Upper
146	100		
111	45.5	21.8	65.4
148	60.2	32.3	96.9





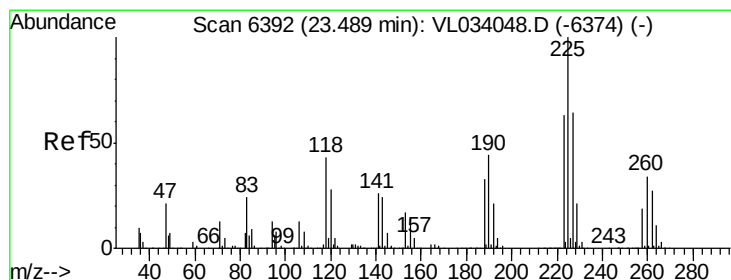
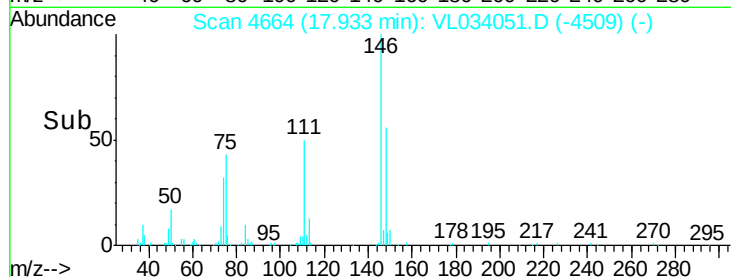
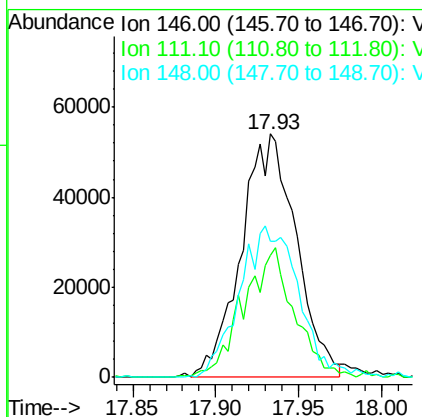
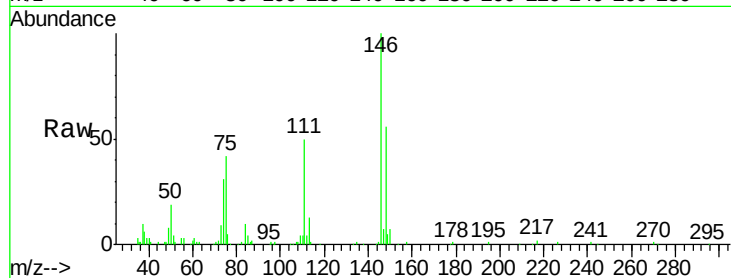
#77
 1,2-Dichlorobenzene
 Concen: 0.516 ppbv m
 RT: 17.93 min Scan# 4664
 Delta R.T. -0.00 min
 Lab File: VL034051.D
 Acq: 30 Jul 2019 4:03

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
146	100		
111	50.3	23.4	70.2
148	67.9	32.3	96.9

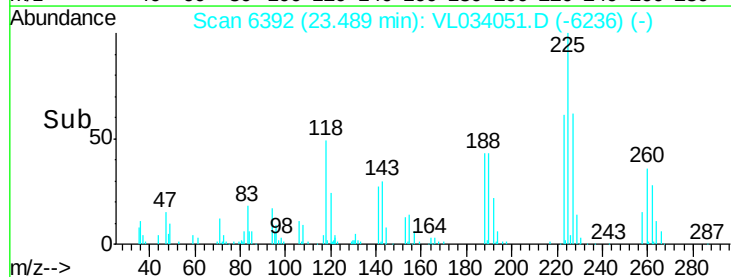
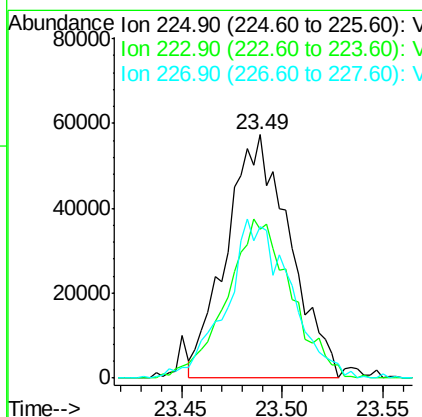
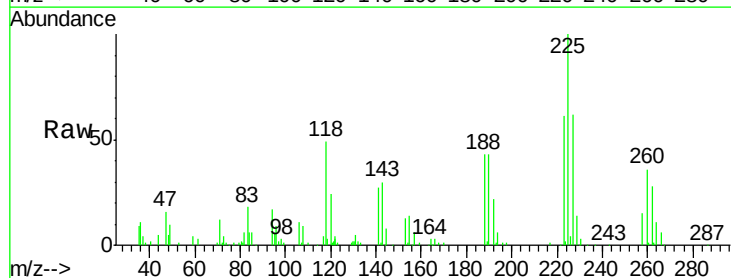
Manual Integrations
 APPROVED

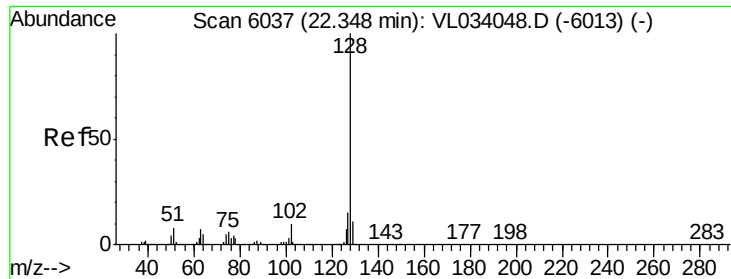
MMdadoda
 8/2/2019 9:37:37 AM



#78
 Hexachloro-1,3-Butadiene
 Concen: 0.597 ppbv
 RT: 23.49 min Scan# 6392
 Delta R.T. 0.00 min
 Lab File: VL034051.D
 Acq: 30 Jul 2019 4:03

Tgt Ion	Ratio	Lower	Upper
225	100		
223	66.5	49.6	74.4
227	65.9	51.4	77.2





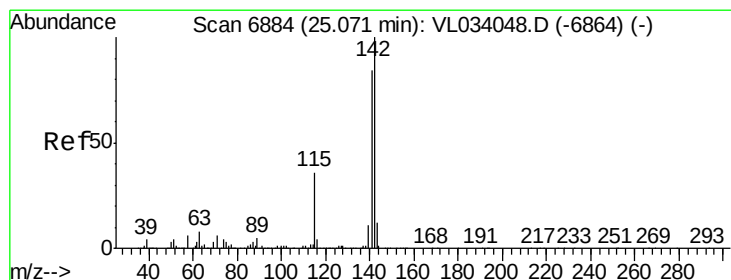
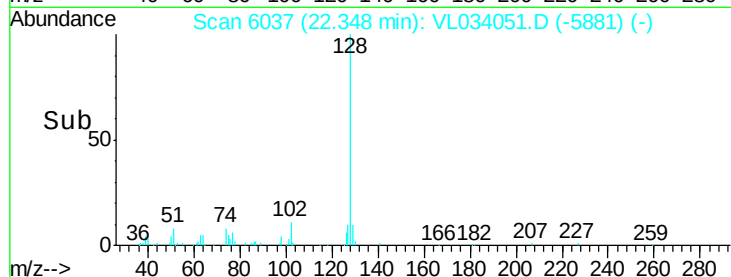
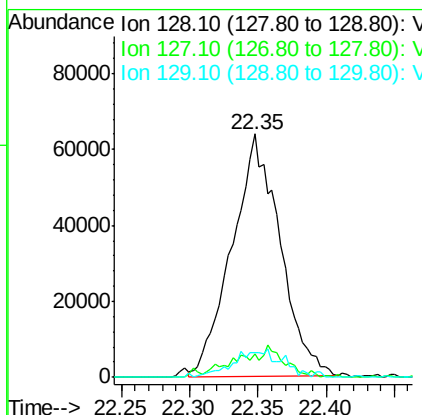
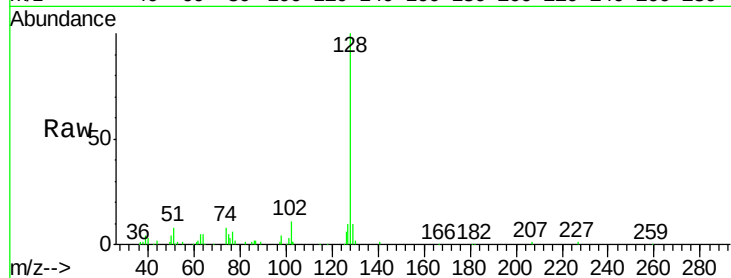
#79
Naphthalene
Concen: 0.456 ppbv
RT: 22.35 min Scan# 6037
Delta R.T. 0.00 min
Lab File: VL034051.D
Acq: 30 Jul 2019 4:03

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Resp	Lower	Upper
128	100	156558		
127	8.7		11.8	17.6#
129	10.1		9.1	13.7

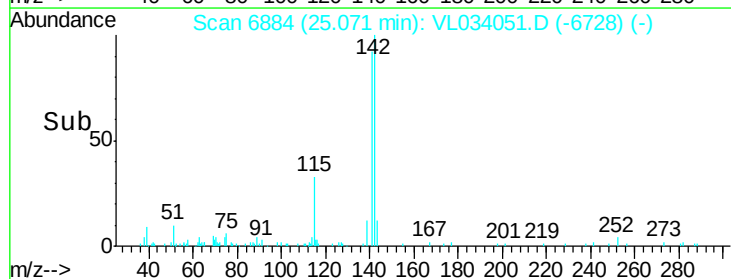
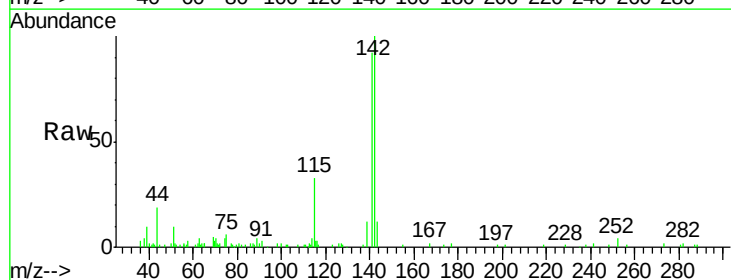
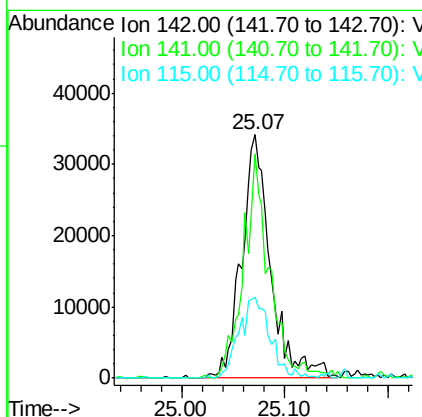
Manual Integrations
APPROVED

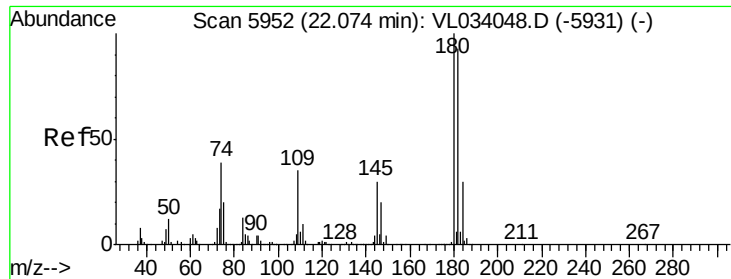
MMdadoda
8/2/2019 9:37:37 AM



#80
Naphthalene, 2-methyl-
Concen: 0.534 ppbv
RT: 25.07 min Scan# 6884
Delta R.T. -0.00 min
Lab File: VL034051.D
Acq: 30 Jul 2019 4:03

Tgt Ion	Ratio	Resp	Lower	Upper
142	100	66425		
141	83.1		67.6	101.4
115	35.9		29.8	44.6





#81
 1,2,4-Trichlorobenzene
 Concen: 0.510 ppbv m
 RT: 22.07 min Scan# 5950
 Delta R.T. -0.01 min
 Lab File: VL034051.D
 Acq: 30 Jul 2019 4:03

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion	Ratio	Resp	Lower	Upper
180	100	113367		
182	97.9	76.5	114.7	
184	0.0	24.5	36.7	

Manual Integrations
 APPROVED

MMdadoda
 8/2/2019 9:37:37 AM

