

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL080519\
 Data File : VL034092.D
 Acq On : 5 Aug 2019 16:34
 Operator : SY/AP
 Sample : VSTDIC015
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Manual Integrations
 APPROVED

MMDadoda
 8/8/2019 12:41:34 PM

Quant Time: Aug 05 17:01:53 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL080519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Aug 05 2019
 QLast Update : Mon Aug 05 13:52:58 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.72	49	1012538	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.25	114	2157366	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.18	117	2346951	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.52	95	1894153	9.13	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	91.30%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.05	85	1384659	7.166	ppbv 99
3) Chlorodifluoromethane	2.98	51	1571839	13.170	ppbv 98
4) Chloromethane	3.14	50	1050352	15.248	ppbv 96
5) Vinyl Chloride	3.26	62	943397	13.833	ppbv 97
6) Bromomethane	3.48	94	498265	9.771	ppbv 96
7) Chloroethane	3.56	64	348642	10.595	ppbv 99
8) Dichlorotetrafluoroethane	3.19	85	1825685	9.663	ppbv 99
9) Propene	3.01	41	936949	20.333	ppbv 98
10) Heptane	8.20	43	2363100	18.519	ppbv 99
11) Trichlorofluoromethane	3.97	101	1940874	10.030	ppbv 99
12) 1,1,2-Trichlorotrifluoroet	4.51	101	1386931	9.415	ppbv 100
13) Ethanol	3.62	45	176229	9.435	ppbv 97
14) Bromoethene	3.75	108	656309	7.954	ppbv 100
15) Acetone	3.87	43	1731417	10.390	ppbv 98
16) 1,3-Butadiene	3.33	39	966079	15.844	ppbv 100
17) tert-Butyl alcohol	4.32	59	1635504	13.518	ppbv 99
18) 1,1-Dichloroethene	4.32	96	670024	10.389	ppbv 89
19) Isopropyl Alcohol	3.99	45	1324072	12.874	ppbv 92
20) Methylene Chloride	4.37	84	600738	10.008	ppbv 99
21) Allyl Chloride	4.44	41	1379472	13.658	ppbv 98
22) trans-1,2-Dichloroethene	4.92	96	691439	10.521	ppbv 98
23) Vinyl Acetate	5.12	43	3105412	18.084	ppbv 98
24) 1,1-Dichloroethane	5.05	63	1877449	13.019	ppbv 99
25) Ethyl Acetate	5.72	43	3559478	14.438	ppbv 99
26) Hexane	5.74	57	1569323	14.062	ppbv 96
27) Carbon Disulfide	4.58	76	1832163	11.026	ppbv 100
28) Methyl tert-Butyl Ether	5.07	73	2619204	15.636	ppbv 98
29) Chloroform	5.81	83	2182091	11.238	ppbv 100
30) Cyclohexane	7.20	84	1320035	14.832	ppbv 96
31) cis-1,2-Dichloroethene	5.60	61	1630348	14.894	ppbv 100
32) 1,1,1-Trichloroethane	6.57	97	2143025	10.467	ppbv 99
34) 2-Butanone	5.29	43	2560874	20.723	ppbv 98
35) Carbon Tetrachloride	7.09	117	2085828	11.967	ppbv 99
36) Benzene	6.96	78	3073692	14.947	ppbv 99
37) 1,2-Dichloroethane	6.37	62	1768681	13.183	ppbv 100
38) Trichloroethene	7.91	130	1084369	15.609	ppbv 98
39) 1,2-Dichloropropane	7.69	63	1307484	17.576	ppbv 98
40) 1,4-Dioxane	7.90	88	449033	15.751	ppbv # 98
41) Tetrahydrofuran	6.10	42	1634454	24.674	ppbv 99
42) Bromodichloromethane	7.87	83	2424062	14.334	ppbv 96
43) Methyl Methacrylate	8.09	69	1366561	19.265	ppbv 98

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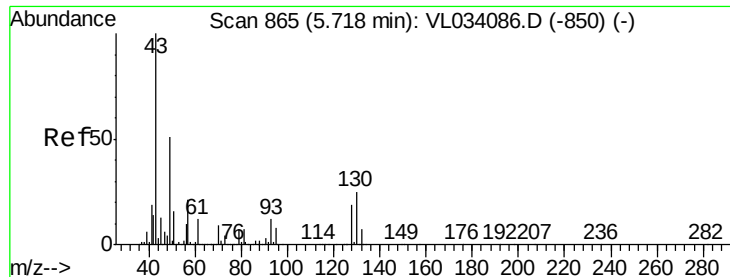
Manual Integrations
 APPROVED

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 8/8/2019 12:41:34 PM

Quant Time: Aug 05 17:01:53 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL080519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Aug 05 2019
 QLast Update : Mon Aug 05 13:52:58 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.95	57	4992151	16.258	ppbv	97
45) t-1,3-Dichloropropene	9.37	75	1823608	20.802	ppbv	100
46) cis-1,3-Dichloropropene	8.79	75	2013921	19.791	ppbv	100
47) 1,1,2-Trichloroethane	9.57	97	1267436	15.824	ppbv	98
48) Dibromochloromethane	10.40	129	2007763	14.814	ppbv	100
49) Bromoform	13.15	173	1831011	15.596	ppbv	100
50) 4-Methyl-2-Pentanone	8.82	43	3730450	20.326	ppbv	98
51) 2-Hexanone	10.22	43	3313152	23.415	ppbv #	100
52) Tetrachloroethene	11.32	164	1097291	18.287	ppbv	95
53) Toluene	9.89	91	3520645	17.227	ppbv	100
54) 1,2-Dibromoethane	10.71	107	1895011	15.943	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.23	131	1322641	12.785	ppbv	89
57) Chlorobenzene	12.25	112	2500787	13.049	ppbv	97
58) Ethyl Benzene	12.81	91	4567069	14.744	ppbv	94
59) m/p-Xylene	13.10	91	7142179m	25.804	ppbv	
60) o-Xylene	13.80	91	3625434	13.036	ppbv	99
61) Styrene	13.63	104	3066532	16.847	ppbv	98
62) Isopropylbenzene	14.77	105	4777201	13.085	ppbv	98
63) 1,1,2,2-Tetrachloroethane	13.79	83	2565961	11.722	ppbv	99
64) n-propylbenzene	15.67	120	1349509	14.617	ppbv	93
65) tert-Butylbenzene	16.86	119	4156570	12.682	ppbv	98
66) Benzyl Chloride	17.10	91	2764736	17.251	ppbv	100
67) sec-Butylbenzene	17.41	105	5653228	12.039	ppbv	98
69) p-Isopropyltoluene	17.76	119	4775836	12.487	ppbv	97
70) n-Butylbenzene	18.66	91	5107593	12.241	ppbv	98
71) 2-Chlorotoluene	15.56	91	3897509	14.422	ppbv	98
72) 4-Ethyltoluene	15.95	105	4278287	13.726	ppbv	97
73) 1,3,5-Trimethylbenzene	16.11	105	4063567	13.241	ppbv	96
74) 1,2,4-Trimethylbenzene	16.88	105	4043639	11.907	ppbv	96
75) 1,3-Dichlorobenzene	17.11	146	2420834	12.040	ppbv	99
76) 1,4-Dichlorobenzene	17.26	146	2477123	13.047	ppbv	99
77) 1,2-Dichlorobenzene	17.94	146	2400824	12.714	ppbv	98
78) Hexachloro-1,3-Butadiene	23.49	225	2075330	11.979	ppbv	100
79) Naphthalene	22.34	128	4357822	14.333	ppbv	97
80) Naphthalene, 2-methyl-	25.07	142	2381836	20.413	ppbv	97
81) 1,2,4-Trichlorobenzene	22.07	180	2404552	12.787	ppbv	100

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.72 min Scan# 866

Delta R.T. 0.00 min

Lab File: VL034092.D

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Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 49 Resp: 1012538

Ion Ratio Lower Upper

49 100

128 39.6 19.5 58.5

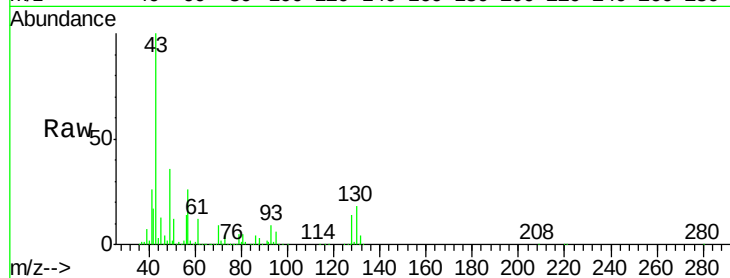
130 50.8 25.4 76.0

Manual Integrations

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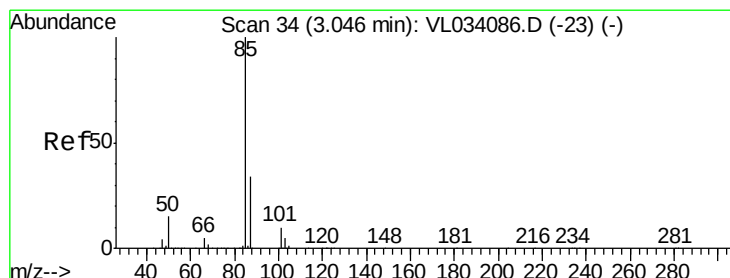
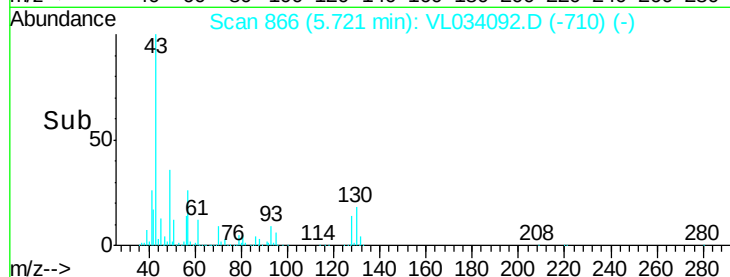
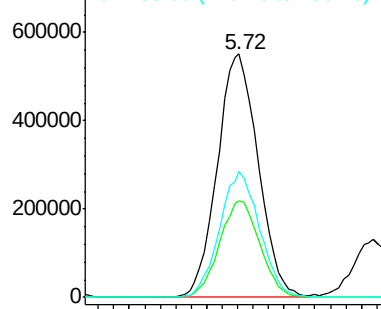
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 7.166 ppbv

RT: 3.05 min Scan# 34

Delta R.T. -0.00 min

Lab File: VL034092.D

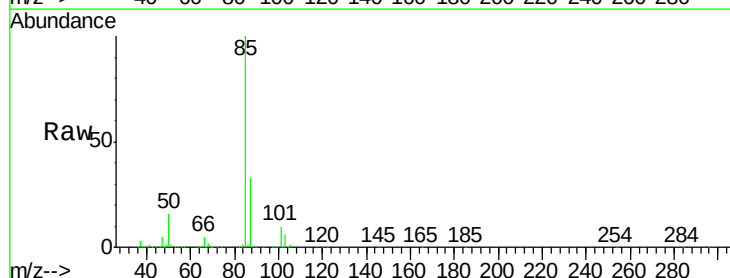
Acq: 5 Aug 2019 16:34

Tgt Ion: 85 Resp: 1384659

Ion Ratio Lower Upper

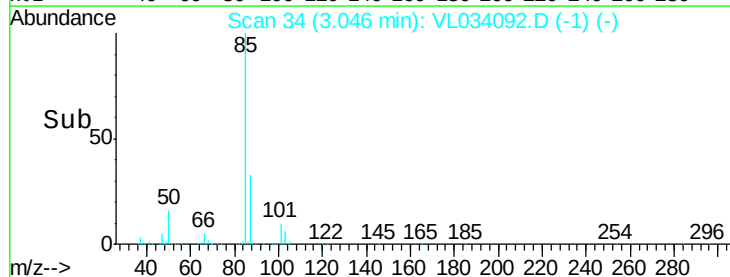
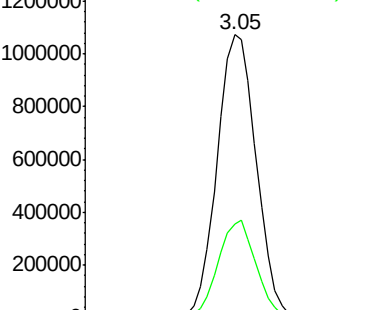
85 100

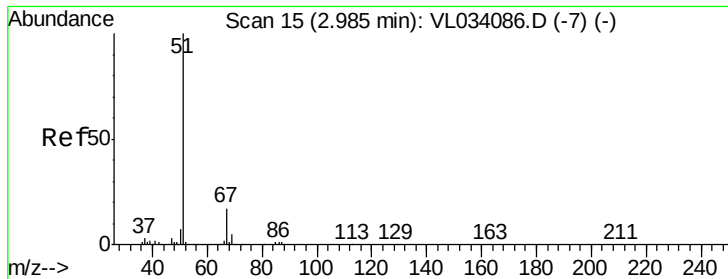
87 33.3 27.1 40.7



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

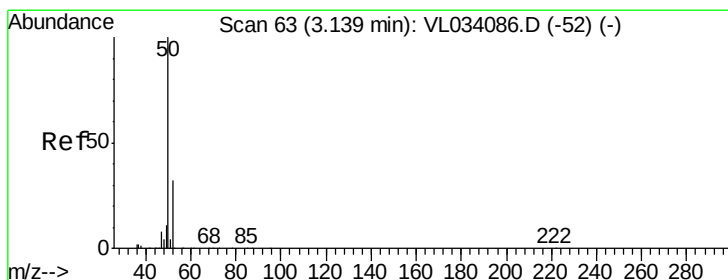
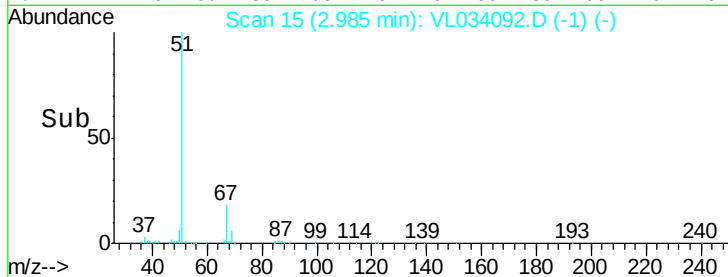
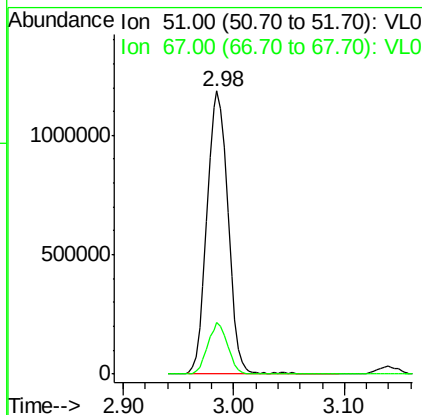
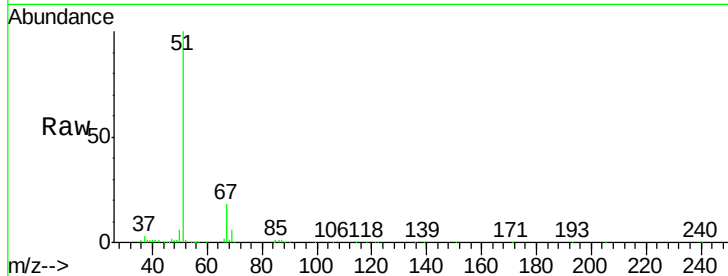
Chlorodifluoromethane
 Concen: 13.170 ppbv
 RT: 2.98 min Scan# 15
 Delta R.T. -0.00 min
 Lab File: VL034092.D
 Acq: 5 Aug 2019 16:34

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion: 51 Resp: 1571839
 Ion Ratio Lower Upper
 51 100
 67 17.3 13.3 19.9

Manual Integrations
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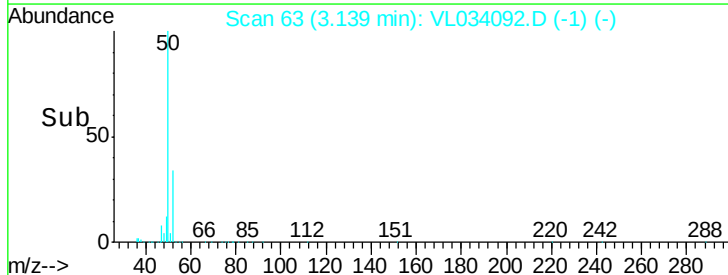
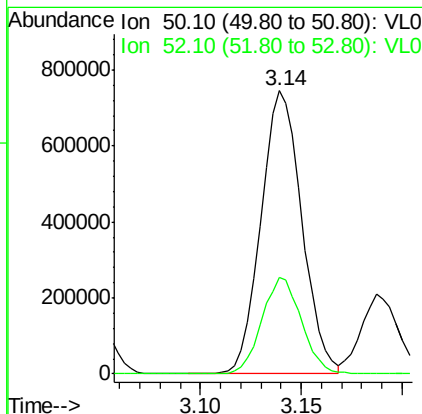
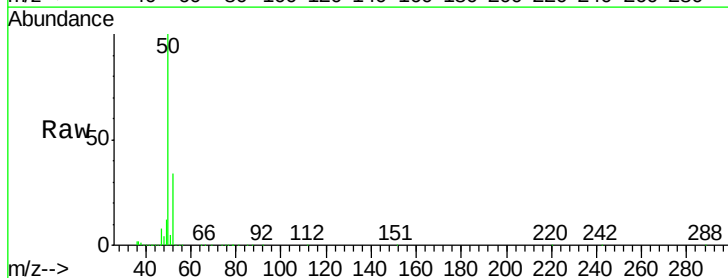
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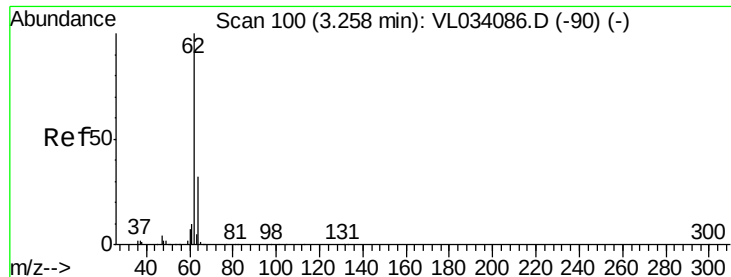


#4

Chloromethane
 Concen: 15.248 ppbv
 RT: 3.14 min Scan# 63
 Delta R.T. -0.00 min
 Lab File: VL034092.D
 Acq: 5 Aug 2019 16:34

Tgt Ion: 50 Resp: 1050352
 Ion Ratio Lower Upper
 50 100
 52 34.3 25.7 38.5





#5

Vinyl Chloride

Concen: 13.833 ppbv

RT: 3.26 min Scan# 100

Delta R.T. -0.00 min

Lab File: VL034092.D

Acq: 5 Aug 2019 16:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 62 Resp: 943397

Ion Ratio Lower Upper

62 100

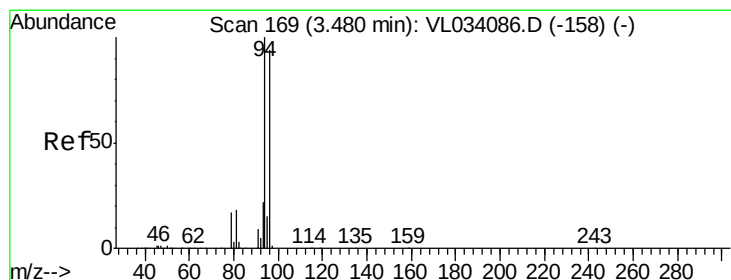
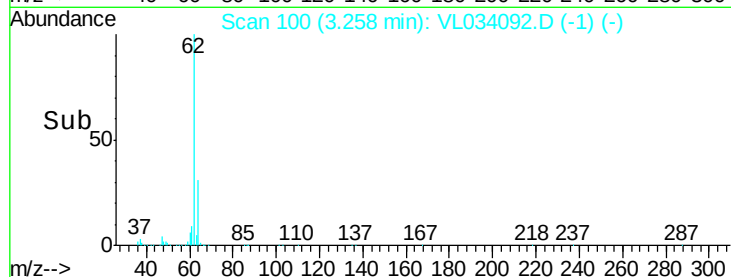
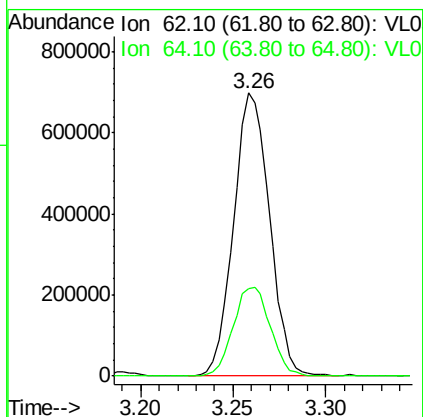
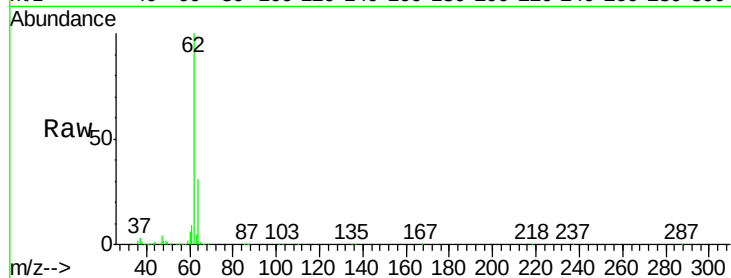
64 30.8 25.8 38.6

Manual Integrations

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#6

Bromomethane

Concen: 9.771 ppbv

RT: 3.48 min Scan# 169

Delta R.T. -0.00 min

Lab File: VL034092.D

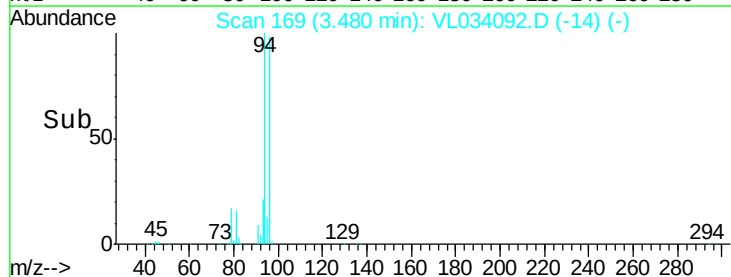
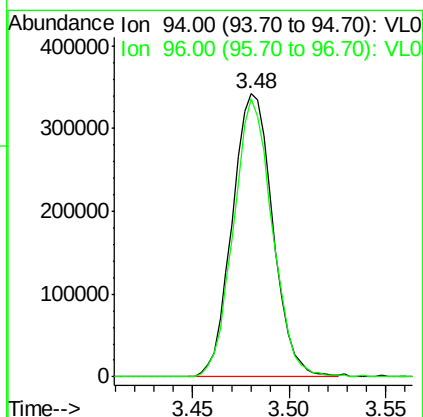
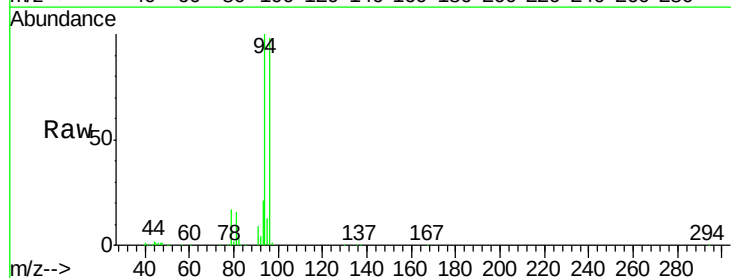
Acq: 5 Aug 2019 16:34

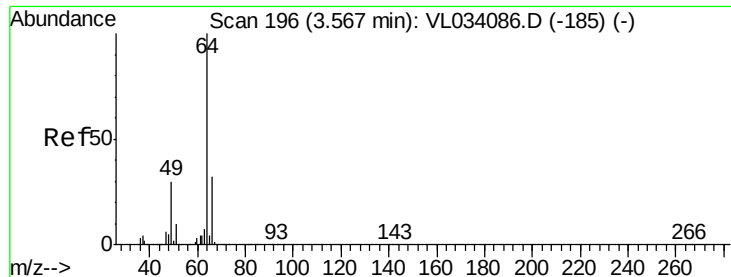
Tgt Ion: 94 Resp: 498265

Ion Ratio Lower Upper

94 100

96 98.1 75.3 112.9





#7

Chloroethane

Concen: 10.595 ppbv

RT: 3.56 min Scan# 195

Delta R.T. -0.00 min

Lab File: VL034092.D

Acq: 5 Aug 2019 16:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 64 Resp: 348642

Ion Ratio Lower Upper

64 100

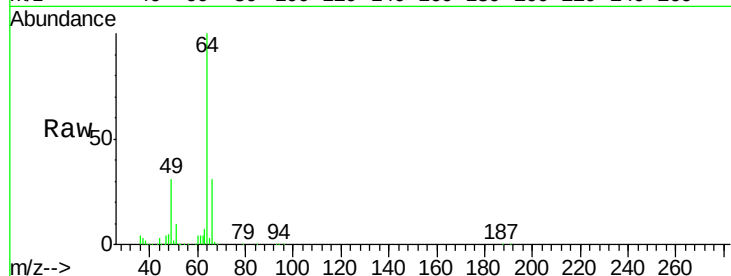
66 31.0 25.2 37.8

Manual Integrations

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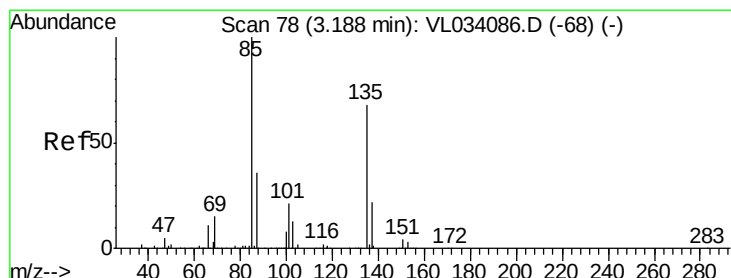
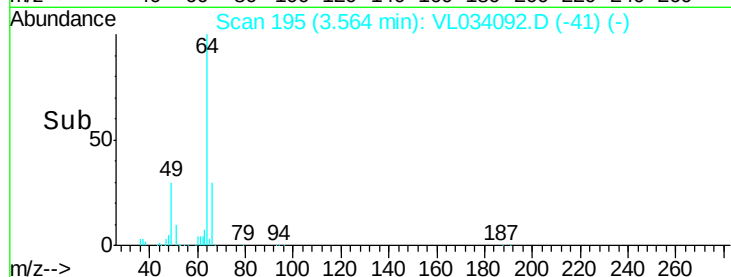
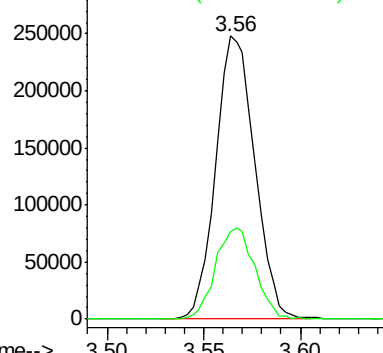
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Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#8

Dichlorotetrafluoroethane

Concen: 9.663 ppbv

RT: 3.19 min Scan# 78

Delta R.T. -0.00 min

Lab File: VL034092.D

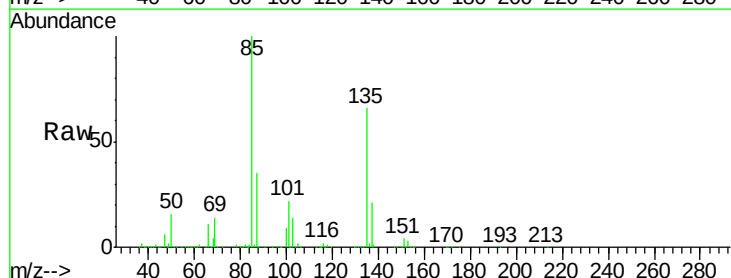
Acq: 5 Aug 2019 16:34

Tgt Ion: 85 Resp: 1825685

Ion Ratio Lower Upper

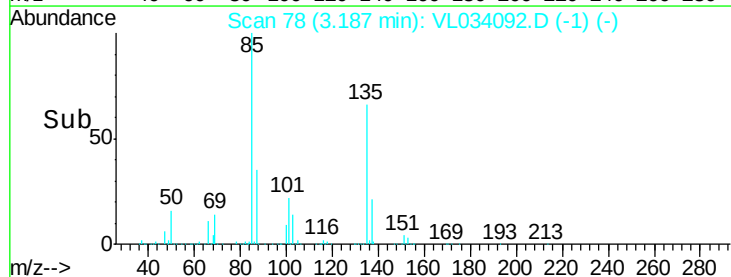
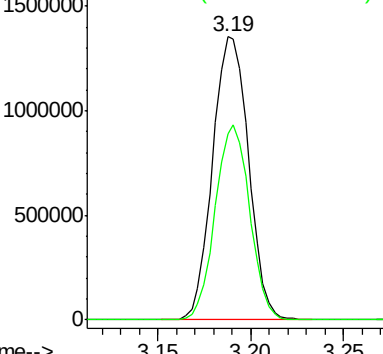
85 100

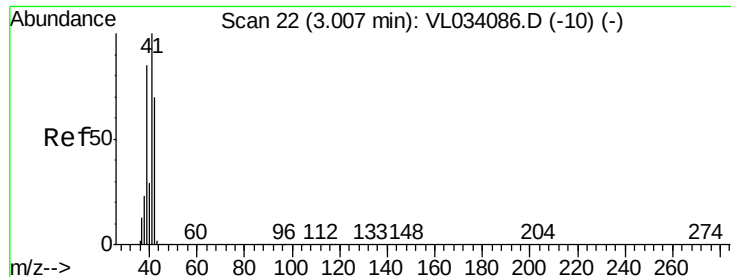
135 66.4 54.0 81.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V





#9

Propene

Concen: 20.333 ppbv

RT: 3.01 min Scan# 22

Delta R.T. -0.00 min

Lab File: VL034092.D

Acq: 5 Aug 2019 16:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 41 Resp: 936949

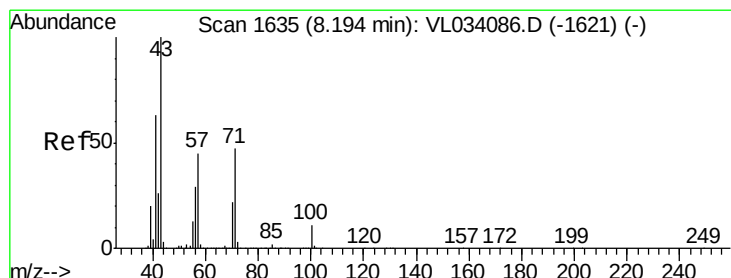
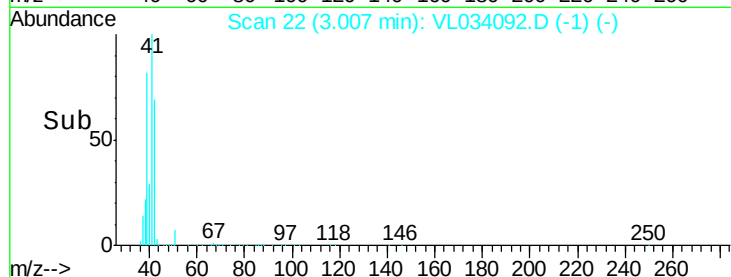
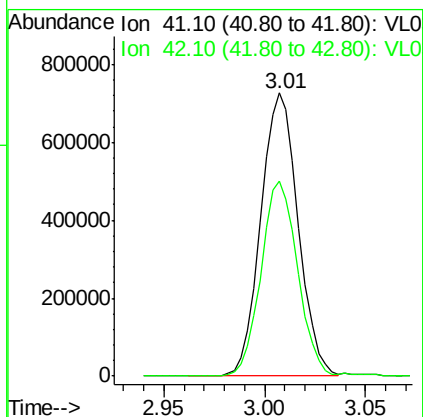
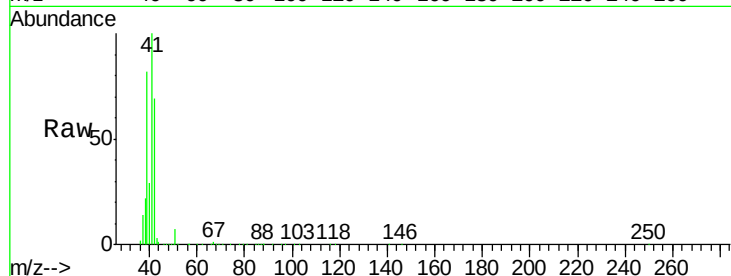
Ion Ratio Lower Upper

41 100

42 68.5 55.8 83.6

Manual Integrations
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#10

Heptane

Concen: 18.519 ppbv

RT: 8.20 min Scan# 1636

Delta R.T. 0.00 min

Lab File: VL034092.D

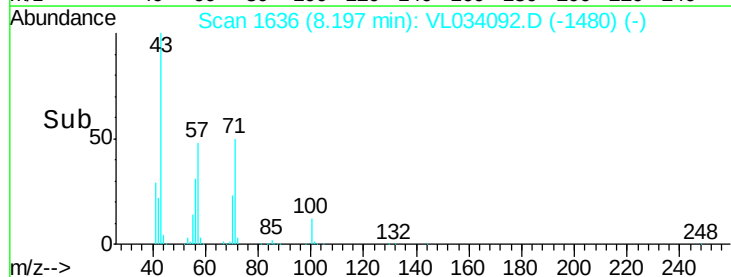
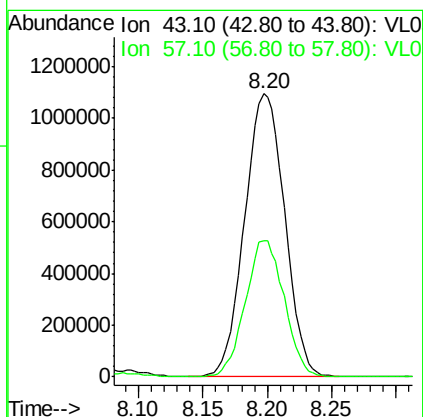
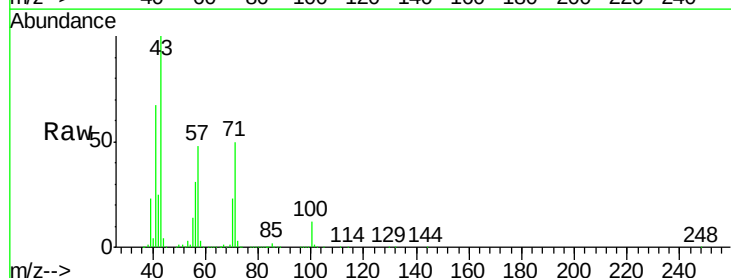
Acq: 5 Aug 2019 16:34

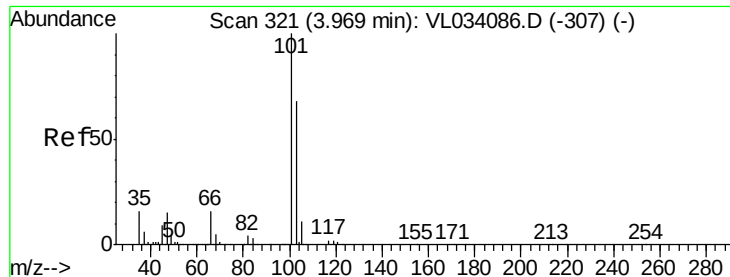
Tgt Ion: 43 Resp: 2363100

Ion Ratio Lower Upper

43 100

57 47.1 37.2 55.8





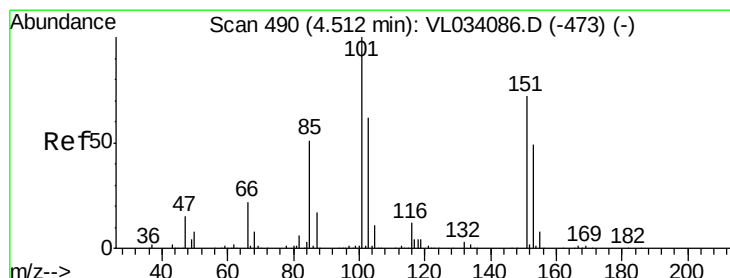
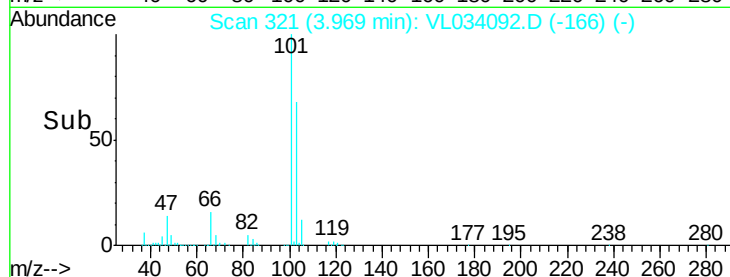
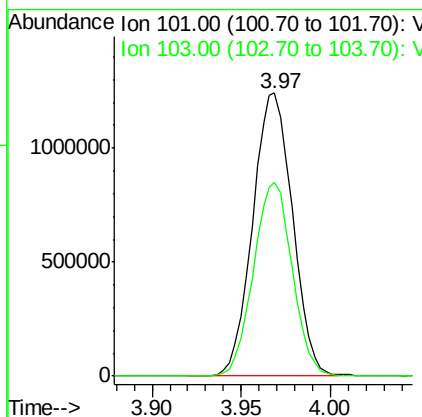
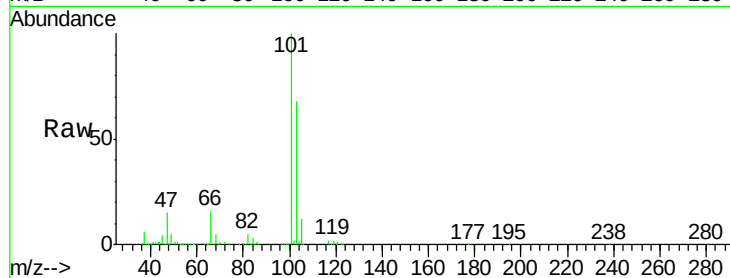
#11
 Trichlorofluoromethane
 Concen: 10.030 ppbv
 RT: 3.97 min Scan# 321
 Delta R.T. -0.00 min
 Lab File: VL034092.D
 Acq: 5 Aug 2019 16:34

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion:101 Resp: 1940874
 Ion Ratio Lower Upper
 101 100
 103 68.4 54.3 81.5

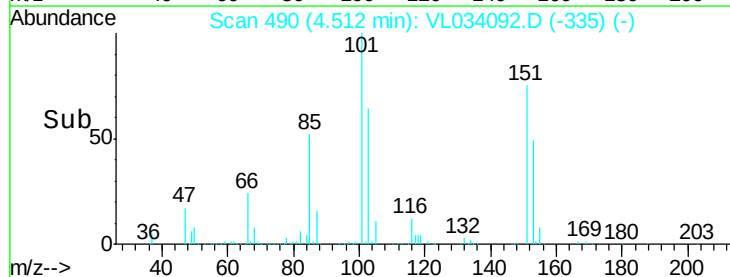
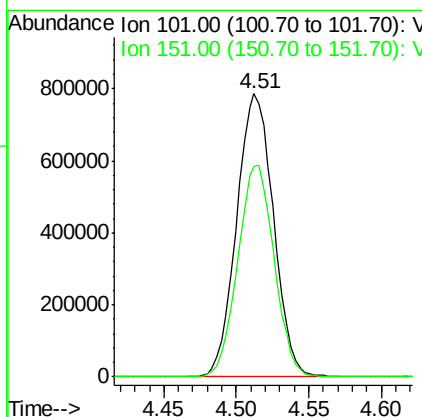
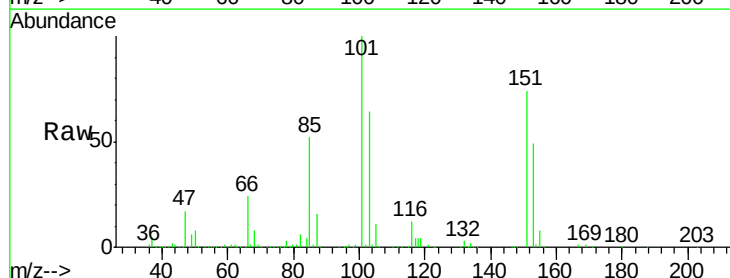
Manual Integrations
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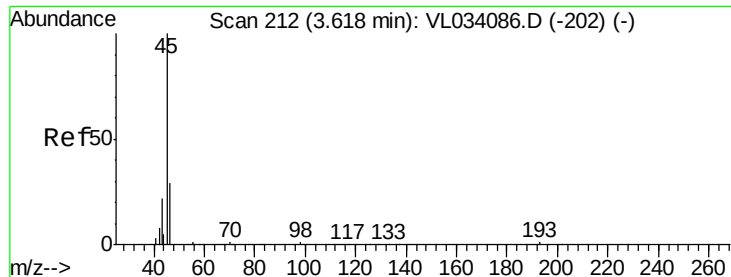
MMDadoda
 8/8/2019 12:41:34 PM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 9.415 ppbv
 RT: 4.51 min Scan# 490
 Delta R.T. -0.00 min
 Lab File: VL034092.D
 Acq: 5 Aug 2019 16:34

Tgt Ion:101 Resp: 1386931
 Ion Ratio Lower Upper
 101 100
 151 74.0 59.4 89.0





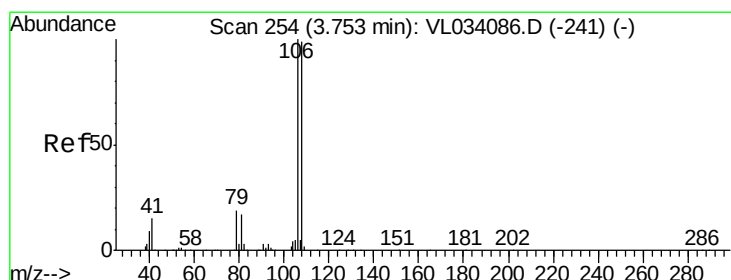
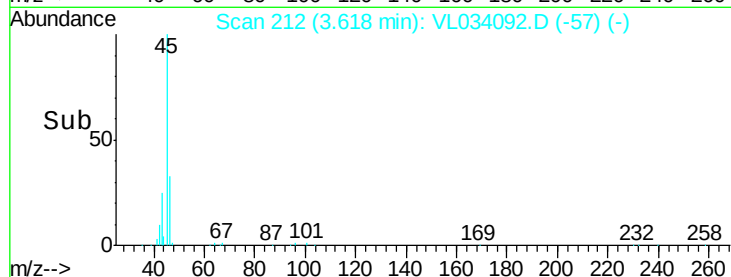
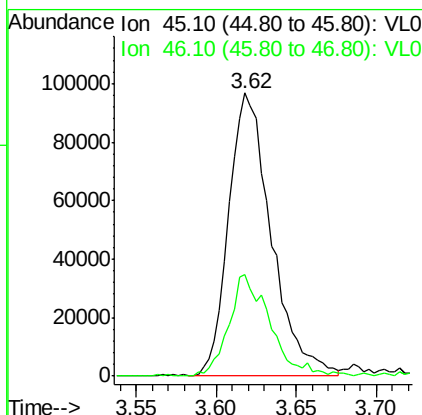
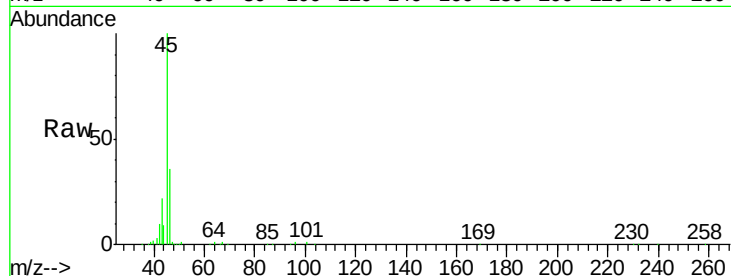
#13
Ethanol
Concen: 9.435 ppbv
RT: 3.62 min Scan# 212
Delta R.T. -0.00 min
Lab File: VL034092.D
Acq: 5 Aug 2019 16:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion	Ratio	Lower	Upper
45	100		
46	35.6	14.9	59.5

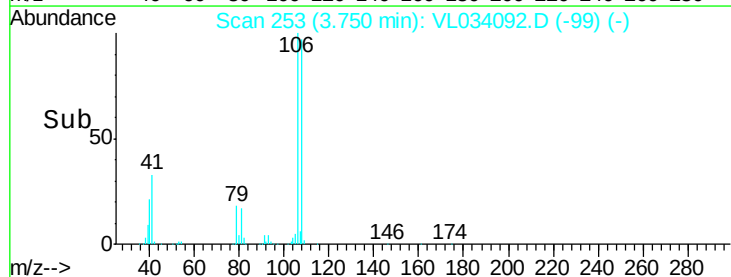
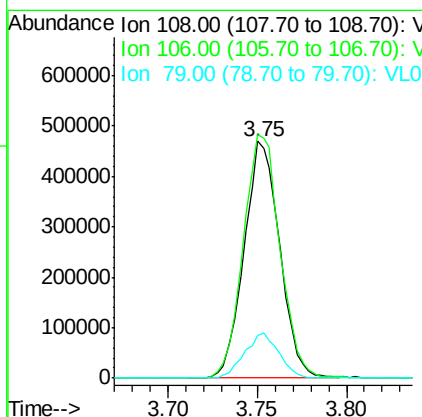
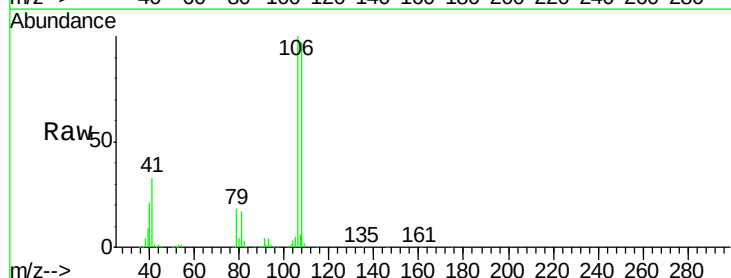
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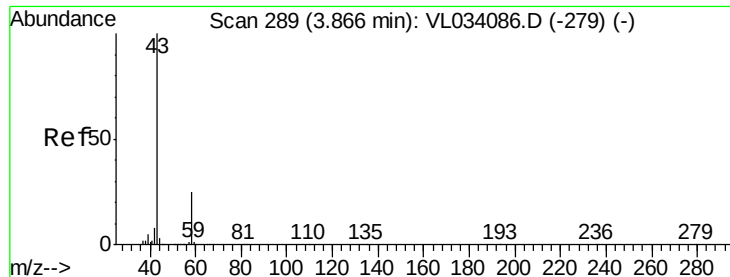
MMDadoda
8/8/2019 12:41:34 PM



#14
Bromoethene
Concen: 7.954 ppbv
RT: 3.75 min Scan# 253
Delta R.T. -0.00 min
Lab File: VL034092.D
Acq: 5 Aug 2019 16:34

Tgt Ion	Ratio	Lower	Upper
108	100		
106	106.4	85.0	127.6
79	18.7	15.8	23.8





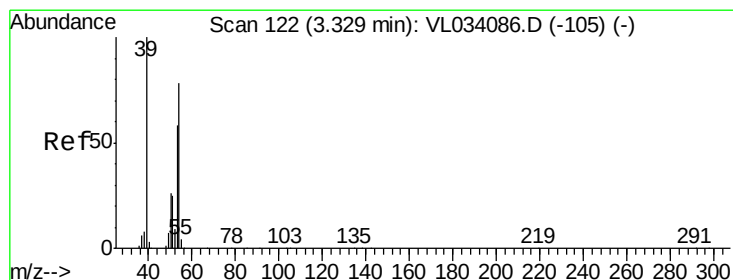
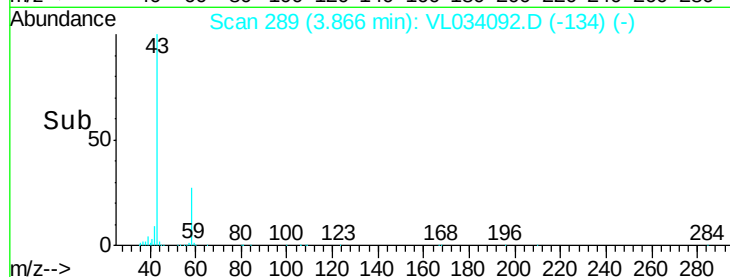
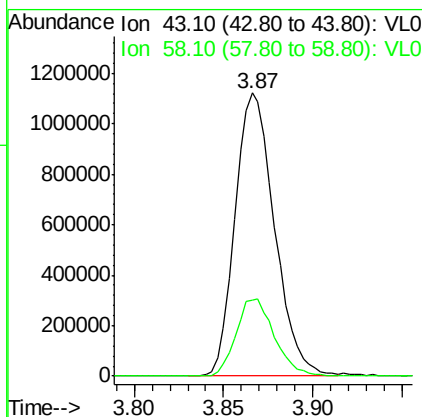
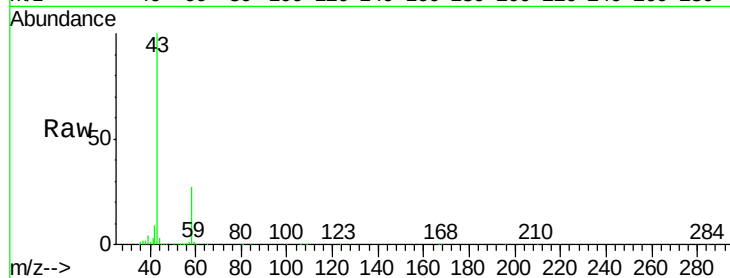
#15
Acetone
Concen: 10.390 ppbv
RT: 3.87 min Scan# 289
Delta R.T. -0.00 min
Lab File: VL034092.D
Acq: 5 Aug 2019 16:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 43 Resp: 1731417
Ion Ratio Lower Upper
43 100
58 26.7 20.6 30.8

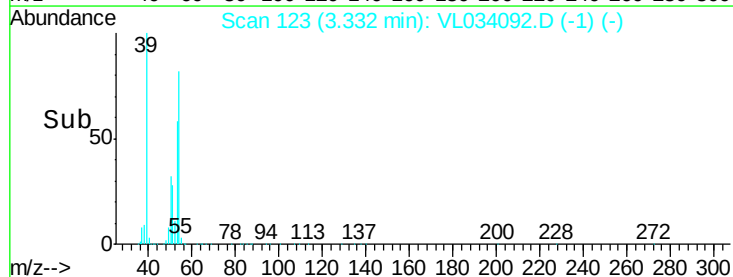
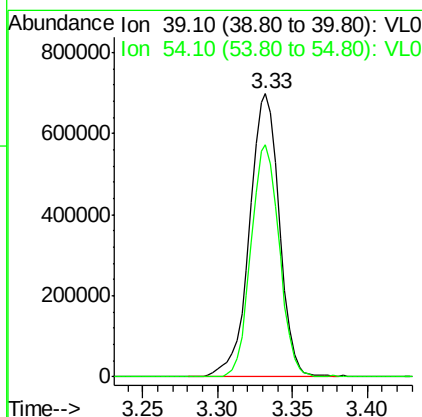
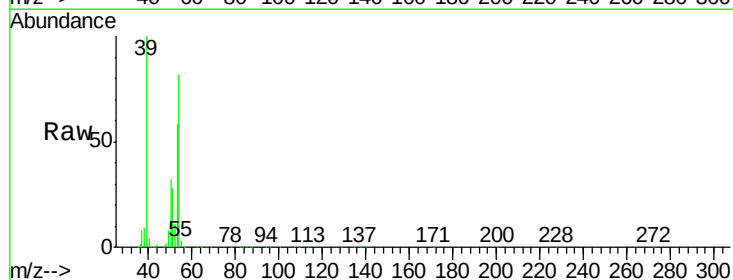
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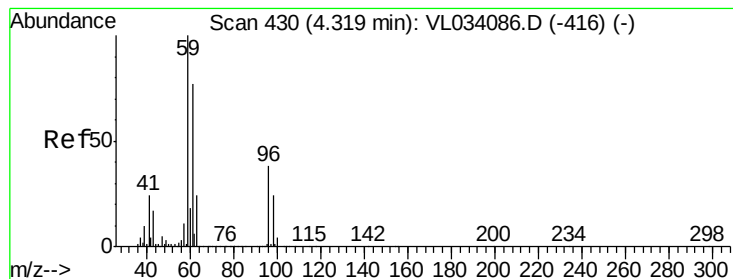
MMDadoda
8/8/2019 12:41:34 PM



#16
1,3-Butadiene
Concen: 15.844 ppbv
RT: 3.33 min Scan# 123
Delta R.T. 0.00 min
Lab File: VL034092.D
Acq: 5 Aug 2019 16:34

Tgt Ion: 39 Resp: 966079
Ion Ratio Lower Upper
39 100
54 78.4 62.7 94.1





#17

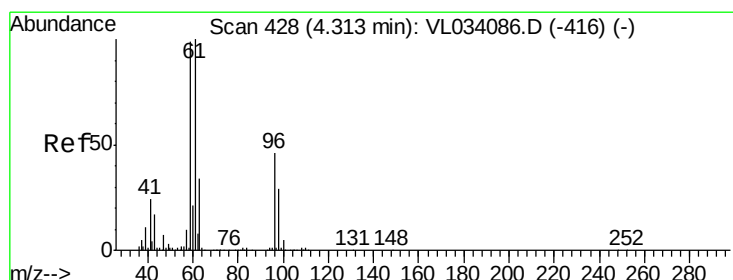
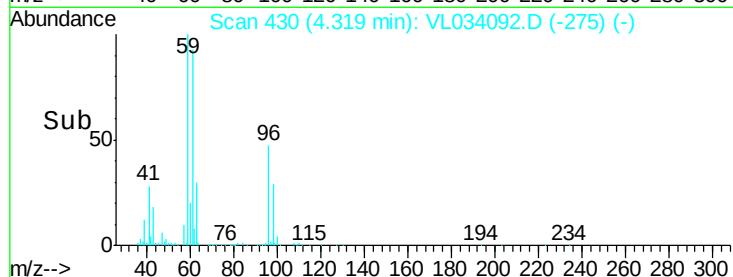
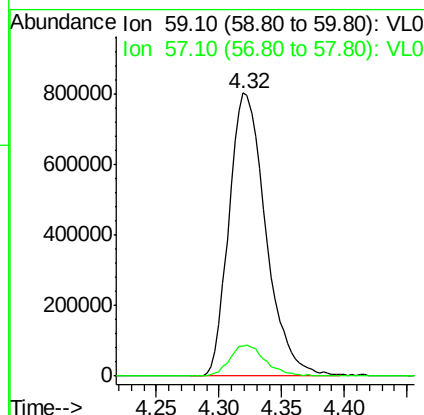
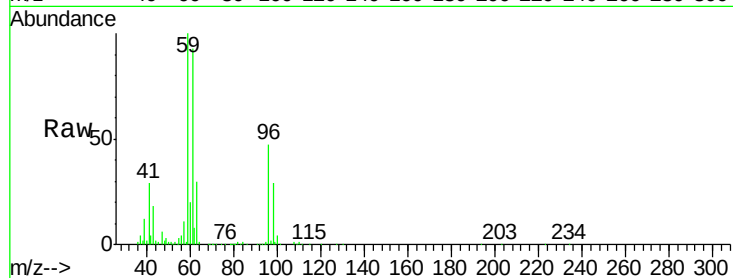
tert-Butyl alcohol
Concen: 13.518 ppbv
RT: 4.32 min Scan# 430
Delta R.T. -0.00 min
Lab File: VL034092.D
Acq: 5 Aug 2019 16:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 59 Resp: 1635504
Ion Ratio Lower Upper
59 100
57 10.8 8.4 12.6

Manual Integrations
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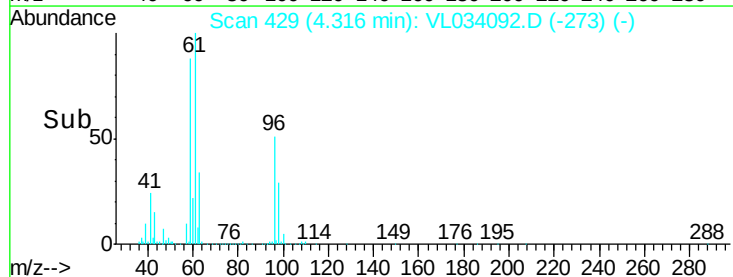
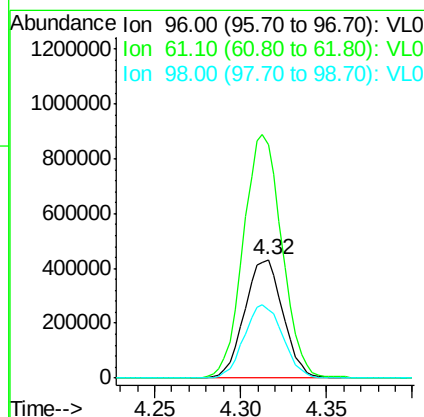
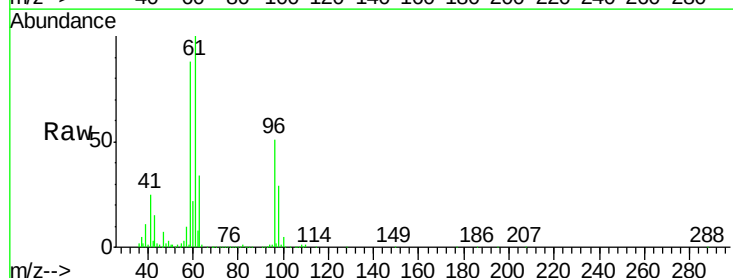
MMDadoda
8/8/2019 12:41:34 PM

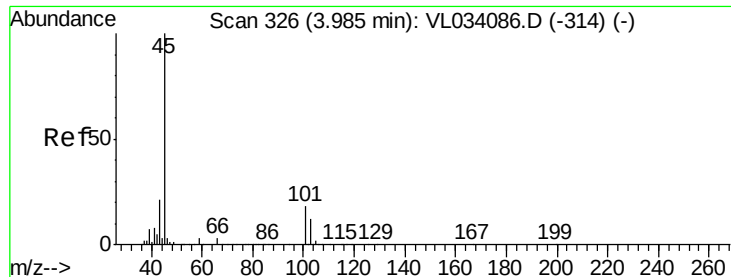


#18

1,1-Dichloroethene
Concen: 10.389 ppbv
RT: 4.32 min Scan# 429
Delta R.T. 0.00 min
Lab File: VL034092.D
Acq: 5 Aug 2019 16:34

Tgt Ion: 96 Resp: 670024
Ion Ratio Lower Upper
96 100
61 197.5 173.1 259.7
98 58.1 50.3 75.5





#19

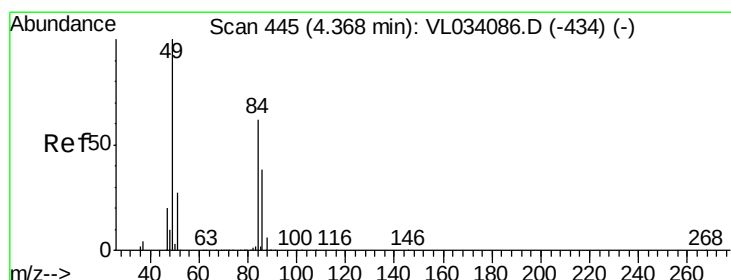
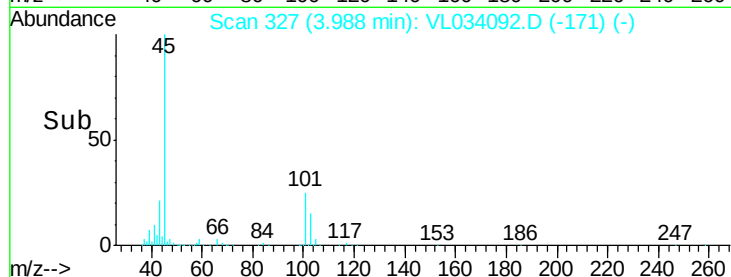
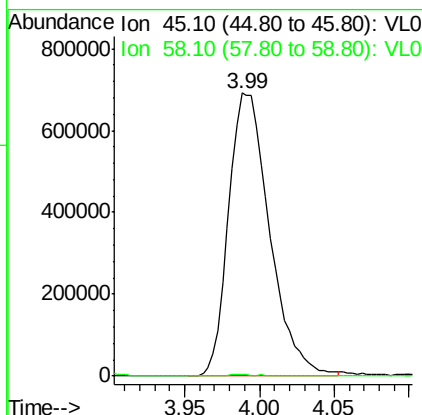
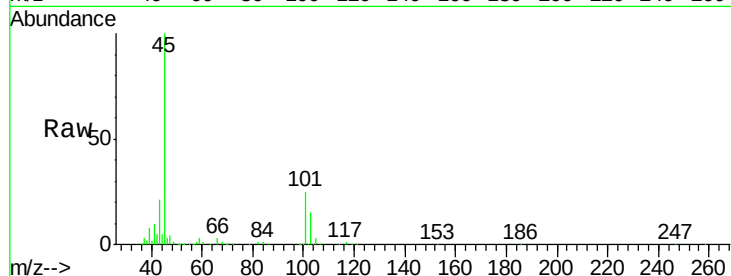
Isopropyl Alcohol
 Concen: 12.874 ppbv
 RT: 3.99 min Scan# 327
 Delta R.T. 0.00 min
 Lab File: VL034092.D
 Acq: 5 Aug 2019 16:34

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion: 45 Resp: 1324072
 Ion Ratio Lower Upper
 45 100
 58 34.9 24.6 37.0

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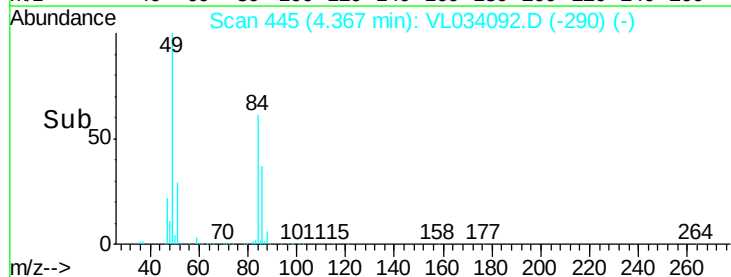
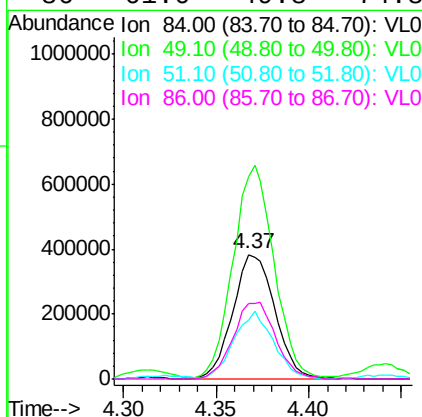
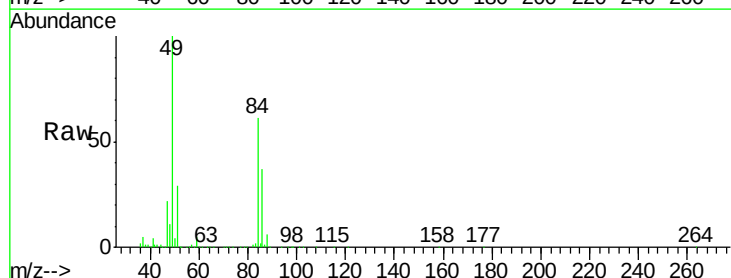
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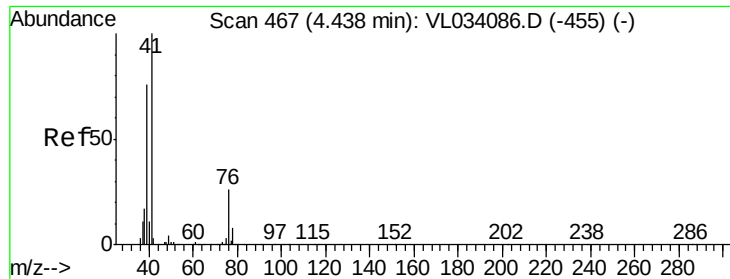


#20

Methylene Chloride
 Concen: 10.008 ppbv
 RT: 4.37 min Scan# 445
 Delta R.T. -0.00 min
 Lab File: VL034092.D
 Acq: 5 Aug 2019 16:34

Tgt Ion: 84 Resp: 600738
 Ion Ratio Lower Upper
 84 100
 49 162.1 129.7 194.5
 51 47.3 35.8 53.8
 86 61.0 49.8 74.8





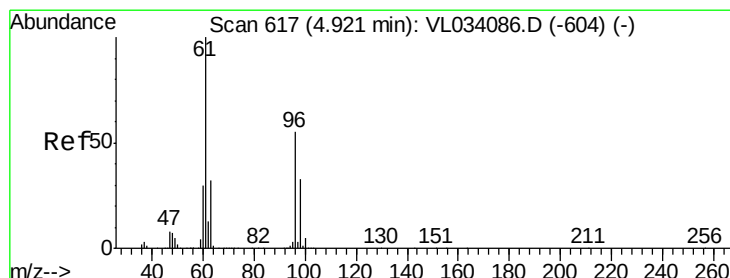
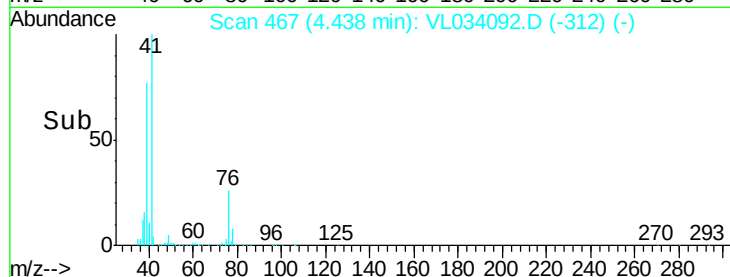
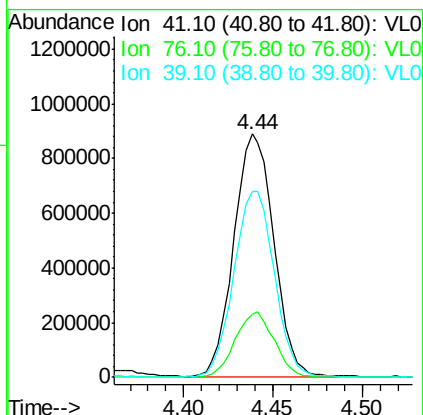
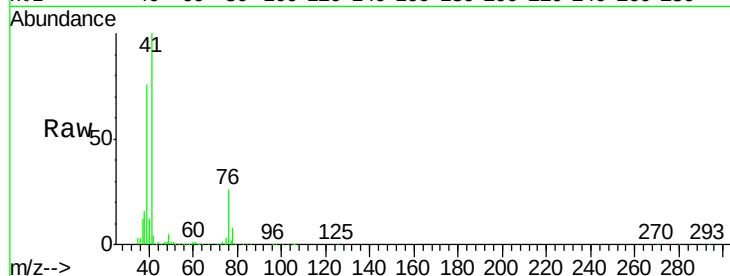
#21
 Allvl Chloride
 Concen: 13.658 ppbv
 RT: 4.44 min Scan# 467
 Delta R.T. -0.00 min
 Lab File: VL034092.D
 Acq: 5 Aug 2019 16:34

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion	Ratio	Lower	Upper
41	100		
76	26.5	20.8	31.2
39	78.2	61.3	91.9

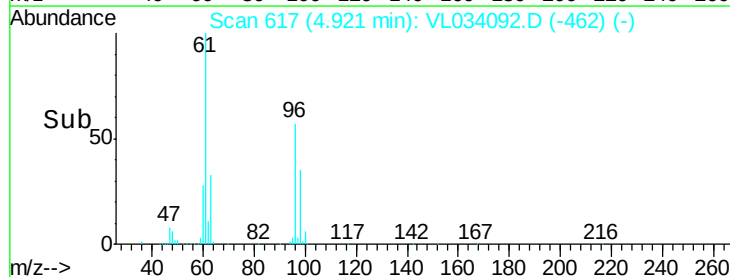
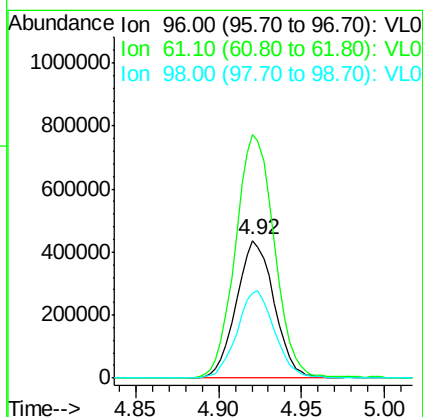
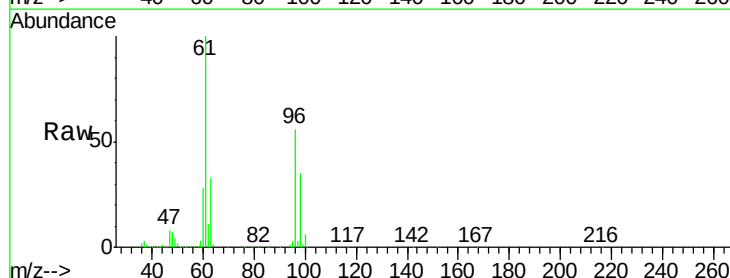
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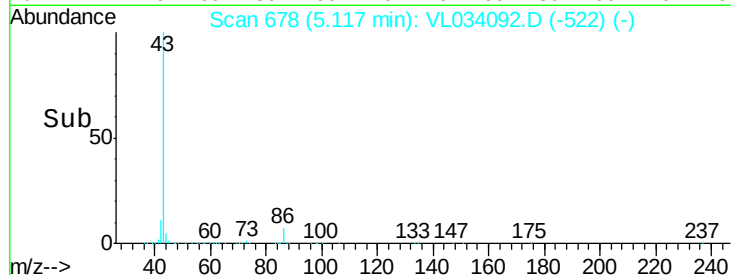
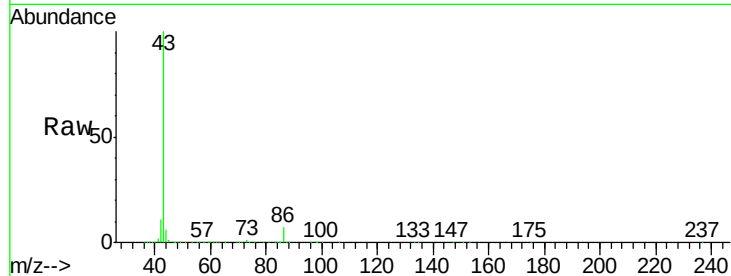
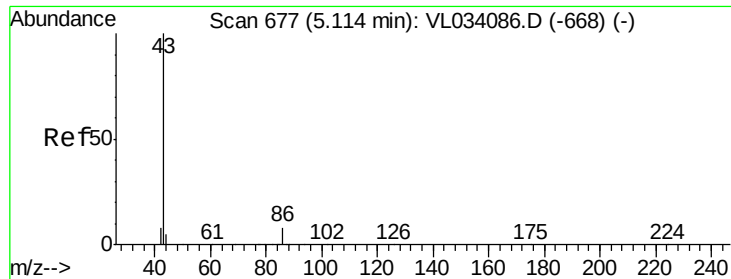
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#22
 trans-1,2-Dichloroethene
 Concen: 10.521 ppbv
 RT: 4.92 min Scan# 617
 Delta R.T. -0.00 min
 Lab File: VL034092.D
 Acq: 5 Aug 2019 16:34

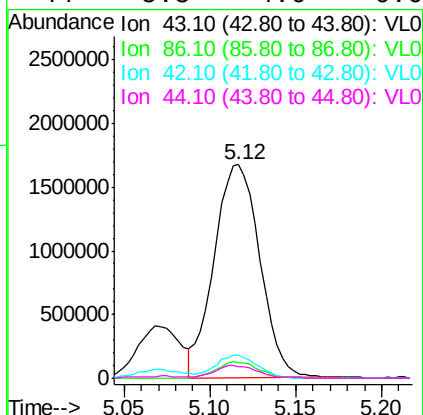
Tgt Ion	Ratio	Lower	Upper
96	100		
61	177.0	144.2	216.2
98	61.8	48.0	72.0





#23
 Vinyl Acetate
 Concen: 18.084 ppbv
 RT: 5.12 min Scan# 678
 Delta R.T. 0.00 min
 Lab File: VL034092.D
 Acq: 5 Aug 2019 16:34

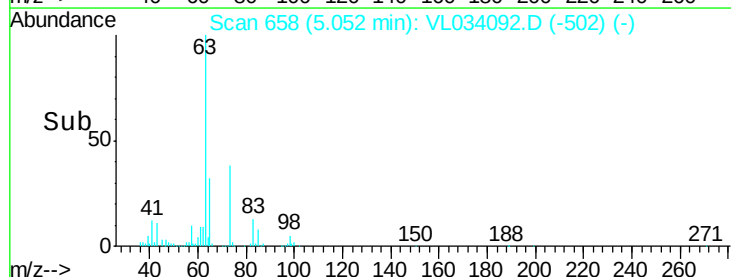
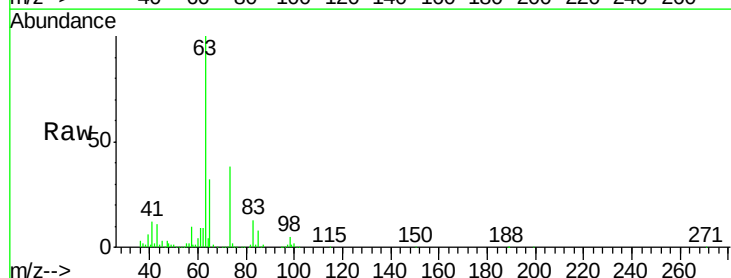
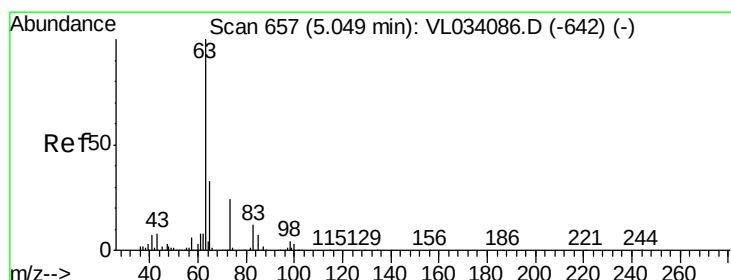
Tot Ion	Ion	Ratio	Lower	Upper
43	100			
86	7.5	5.4	8.0	
42	11.0	7.9	11.9	
44	5.5	4.0	6.0	



Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

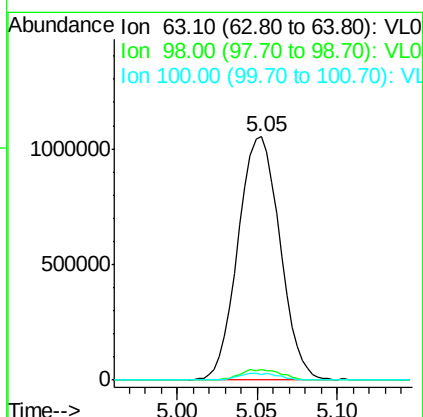
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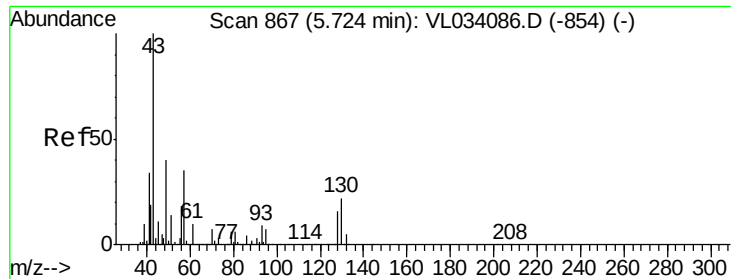
MMDadoda
 8/8/2019 12:41:34 PM



#24
 1,1-Dichloroethane
 Concen: 13.019 ppbv
 RT: 5.05 min Scan# 658
 Delta R.T. 0.00 min
 Lab File: VL034092.D
 Acq: 5 Aug 2019 16:34

Tgt Ion	Ion	Ratio	Lower	Upper
63	100			
98	4.5	2.0	6.0	
100	2.5	1.3	3.8	





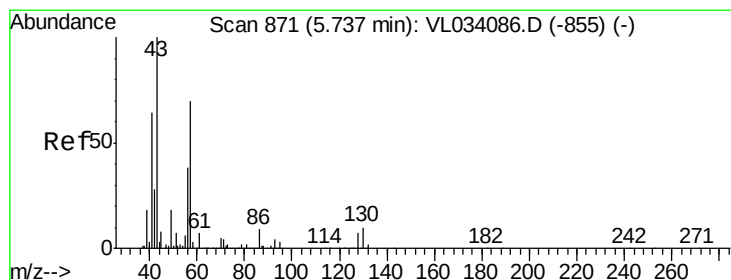
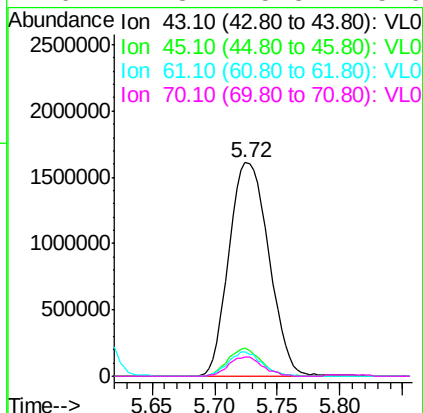
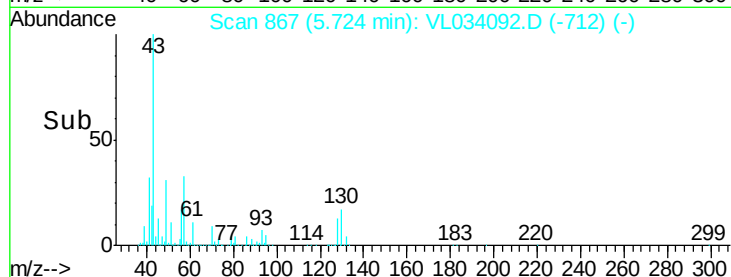
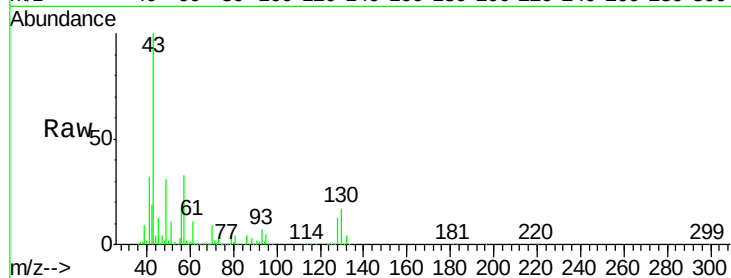
#25
Ethyl Acetate
Concen: 14.438 ppbv
RT: 5.72 min Scan# 867
Delta R.T. -0.00 min
Lab File: VL034092.D
Acq: 5 Aug 2019 16:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion:	43	Resp:	3559478
Ion	Ratio	Lower	Upper
43	100		
45	11.0	8.4	12.6
61	9.6	7.3	10.9
70	7.8	5.8	8.6

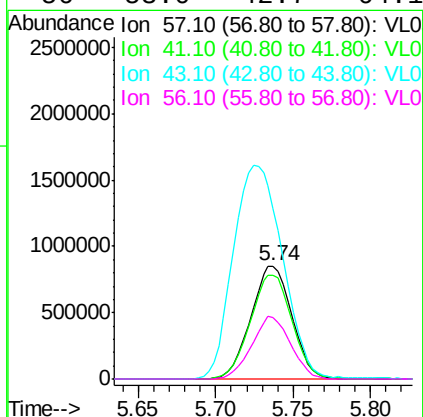
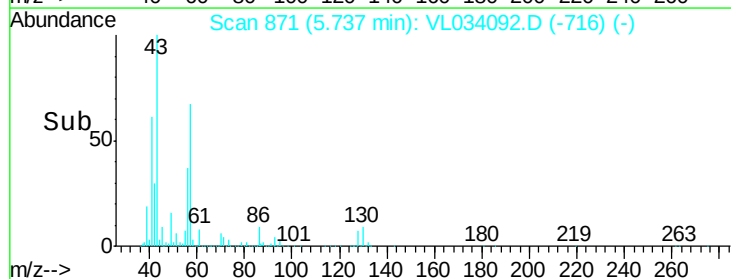
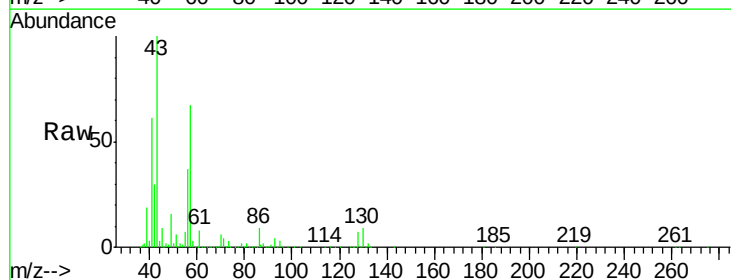
Manual Integrations
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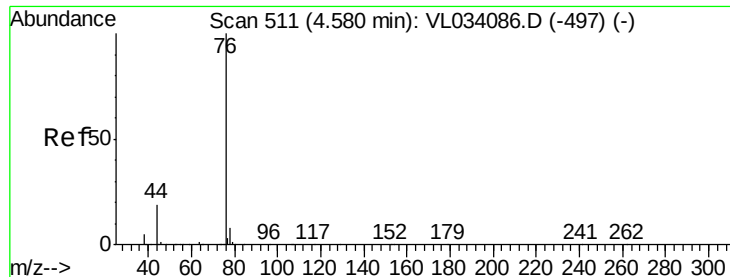
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#26
Hexane
Concen: 14.062 ppbv
RT: 5.74 min Scan# 871
Delta R.T. -0.00 min
Lab File: VL034092.D
Acq: 5 Aug 2019 16:34

Tgt Ion:	57	Resp:	1569323
Ion	Ratio	Lower	Upper
57	100		
41	94.1	75.7	113.5
43	227.8	189.8	284.8
56	53.0	42.7	64.1





#27

Carbon Disulfide

Concen: 11.026 ppbv

RT: 4.58 min Scan# 511

Delta R.T. -0.00 min

Lab File: VL034092.D

Acq: 5 Aug 2019 16:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 76 Resp: 1832163

Ion Ratio Lower Upper

76 100

44 22.1 17.8 26.6

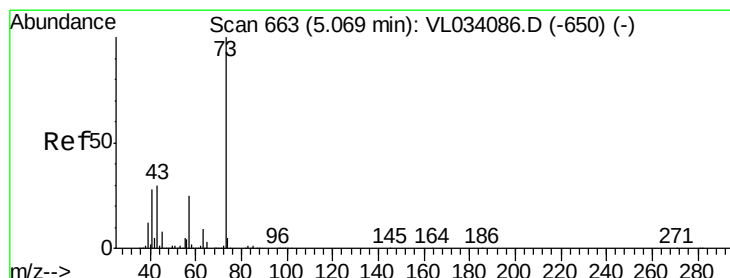
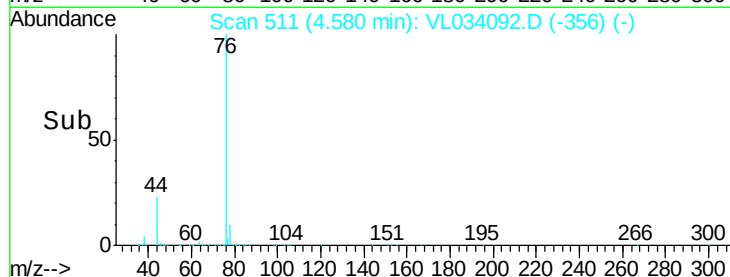
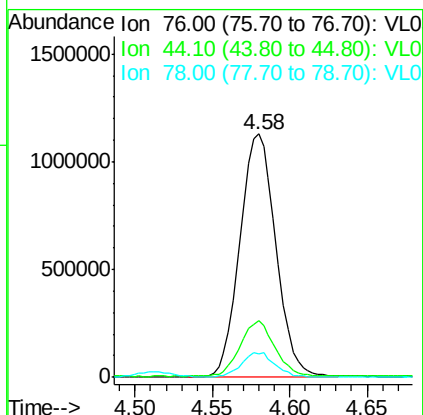
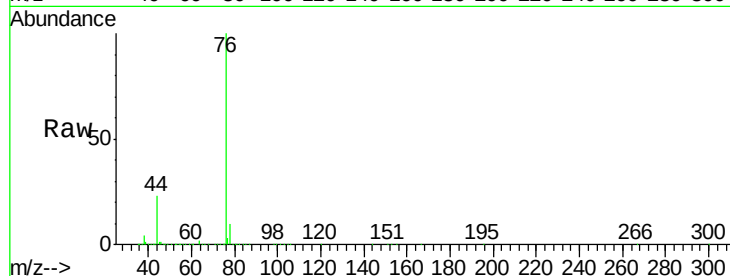
78 9.6 7.7 11.5

Manual Integrations

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#28

Methyl tert-Butyl Ether

Concen: 15.636 ppbv

RT: 5.07 min Scan# 664

Delta R.T. 0.00 min

Lab File: VL034092.D

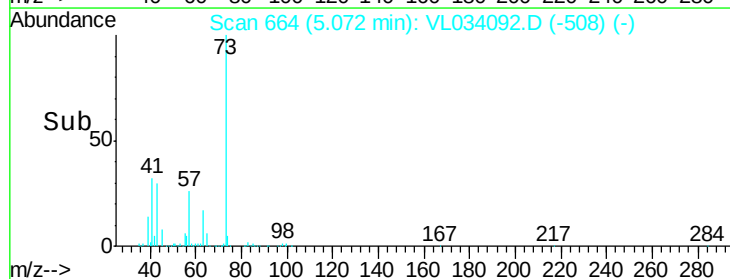
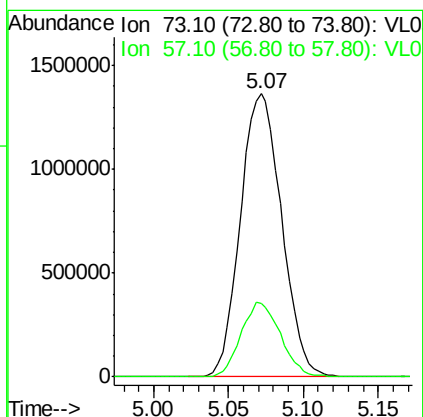
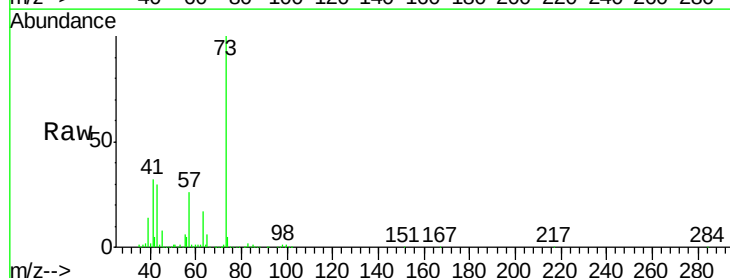
Acq: 5 Aug 2019 16:34

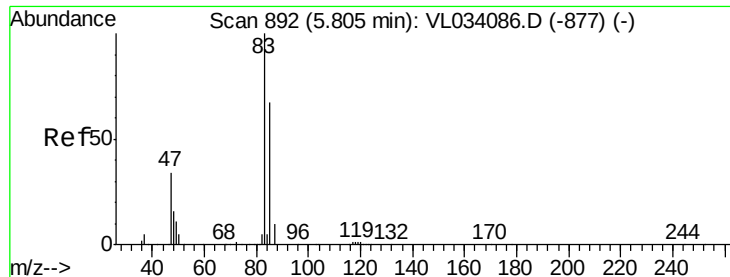
Tgt Ion: 73 Resp: 2619204

Ion Ratio Lower Upper

73 100

57 25.4 19.5 29.3





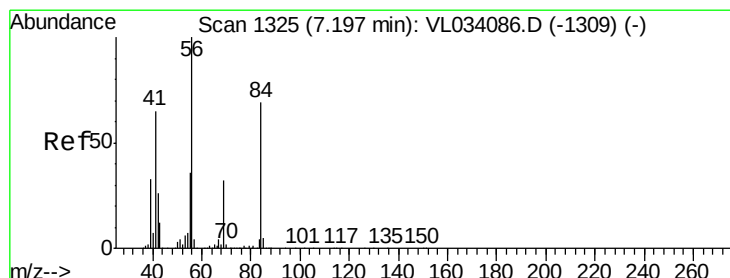
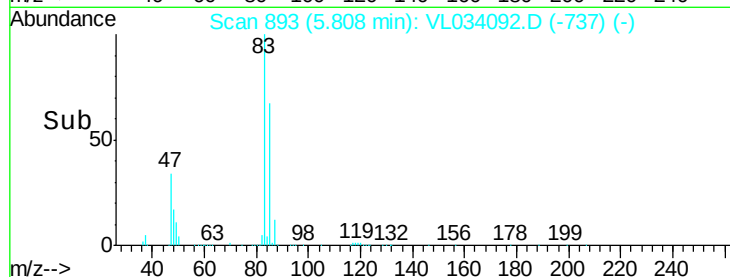
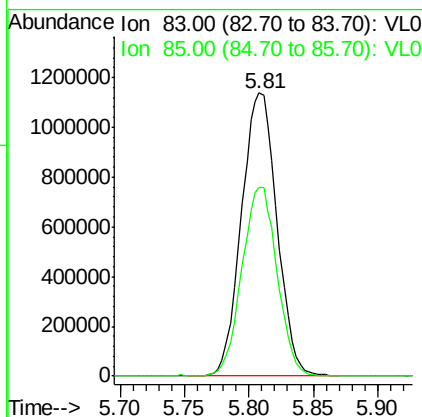
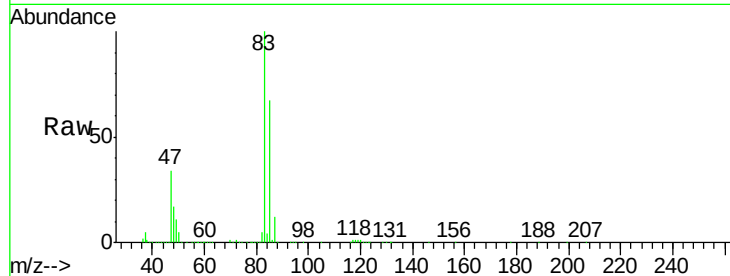
#29
Chloroform
Concen: 11.238 ppbv
RT: 5.81 min Scan# 893
Delta R.T. 0.00 min
Lab File: VL034092.D
Acq: 5 Aug 2019 16:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 83 Resp: 2182091
Ion Ratio Lower Upper
83 100
85 66.7 53.2 79.8

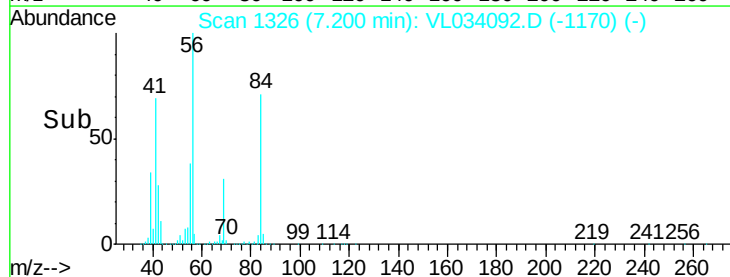
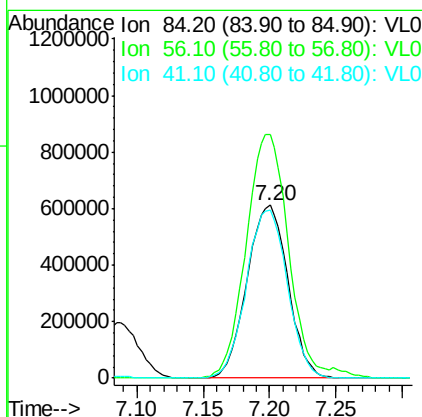
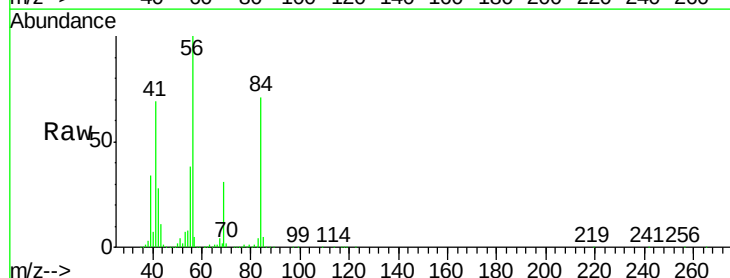
Manual Integrations
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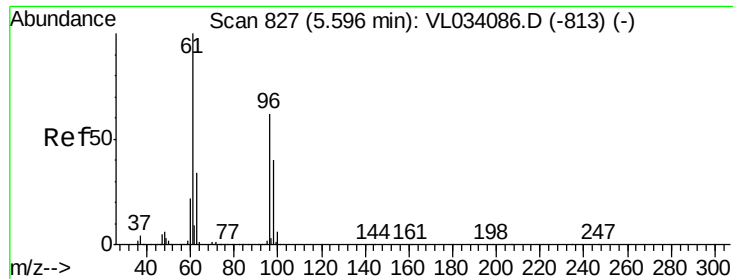
MMDadoda
8/8/2019 12:41:34 PM



#30
Cyclohexane
Concen: 14.832 ppbv
RT: 7.20 min Scan# 1326
Delta R.T. 0.00 min
Lab File: VL034092.D
Acq: 5 Aug 2019 16:34

Tgt Ion: 84 Resp: 1320035
Ion Ratio Lower Upper
84 100
56 147.3 122.6 184.0
41 97.4 80.1 120.1





#31

cis-1,2-Dichloroethene

Concen: 14.894 ppbv

RT: 5.60 min Scan# 828

Delta R.T. 0.00 min

Lab File: VL034092.D

Acq: 5 Aug 2019 16:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 61 Resp: 1630348

Ion Ratio Lower Upper

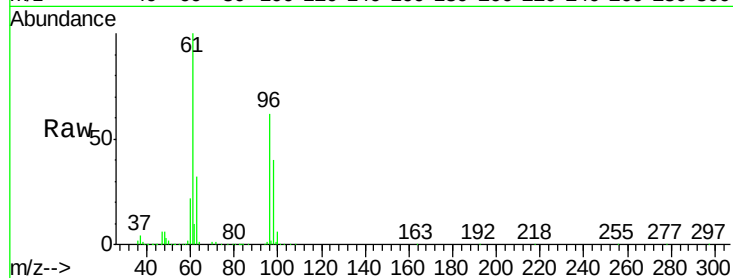
61 100

96 61.5 49.3 73.9

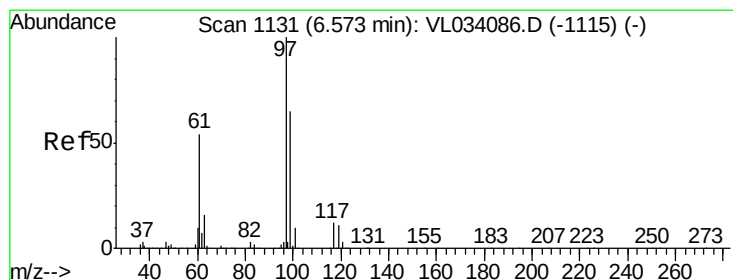
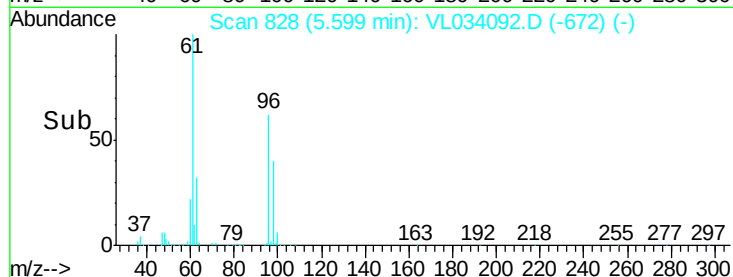
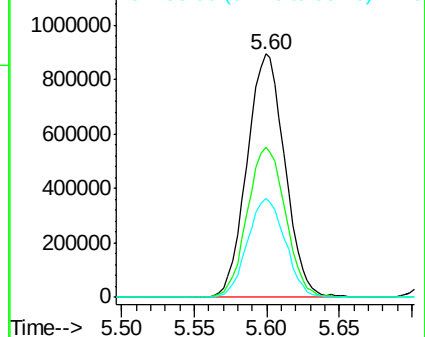
98 40.4 32.4 48.6

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8/8/2019 12:41:34 PM



Abundance Ion 61.10 (60.80 to 61.80): VL0
Ion 96.00 (95.70 to 96.70): VL0
Ion 98.00 (97.70 to 98.70): VL0



#32

1,1,1-Trichloroethane

Concen: 10.467 ppbv

RT: 6.57 min Scan# 1131

Delta R.T. -0.00 min

Lab File: VL034092.D

Acq: 5 Aug 2019 16:34

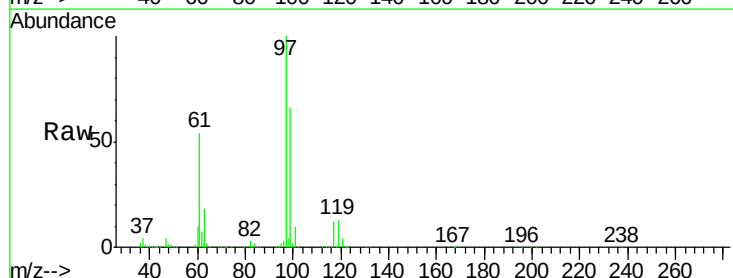
Tgt Ion: 97 Resp: 2143025

Ion Ratio Lower Upper

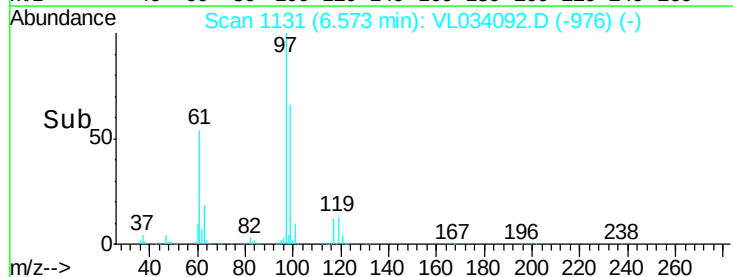
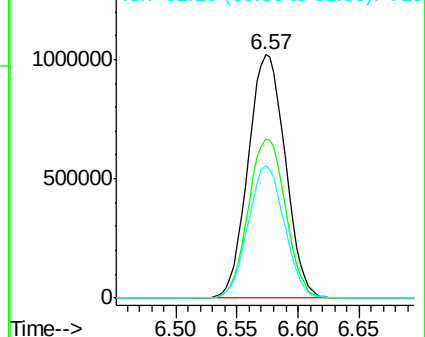
97 100

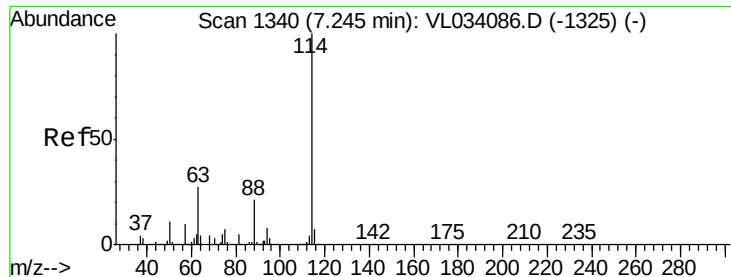
99 65.6 52.2 78.4

61 53.3 42.0 63.0



Abundance Ion 97.00 (96.70 to 97.70): VL0
Ion 99.00 (98.70 to 99.70): VL0
Ion 61.10 (60.80 to 61.80): VL0





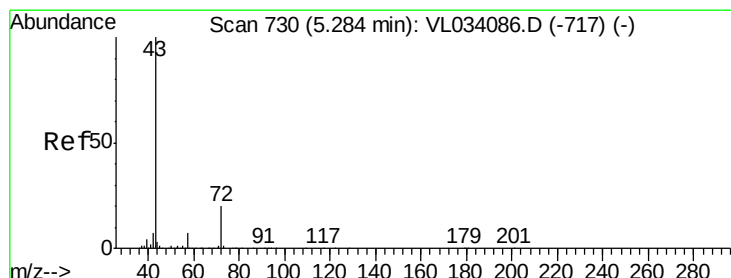
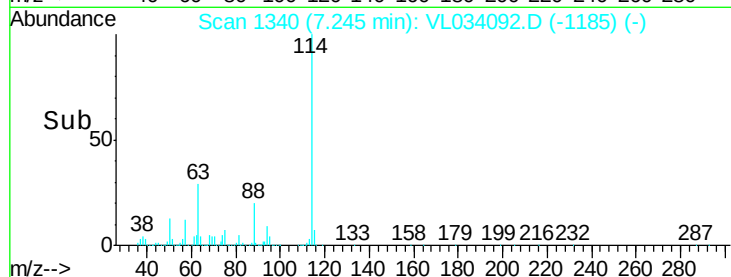
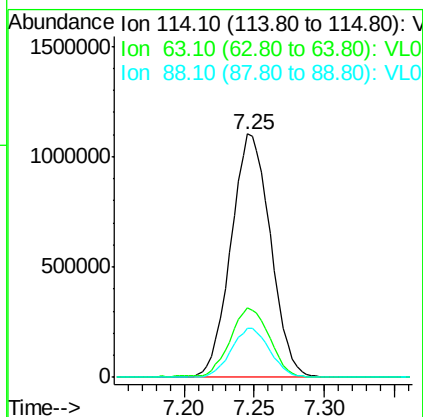
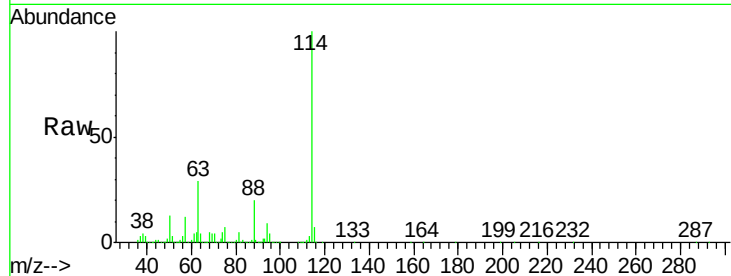
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.25 min Scan# 1340
 Delta R.T. -0.00 min
 Lab File: VL034092.D
 Acq: 5 Aug 2019 16:34

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion	Ratio	Lower	Upper
114	100		
63	29.2	22.5	33.7
88	19.8	15.7	23.5

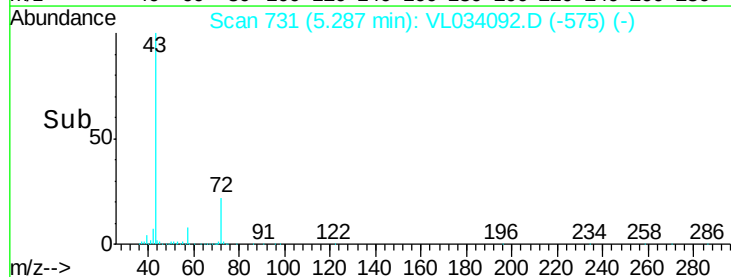
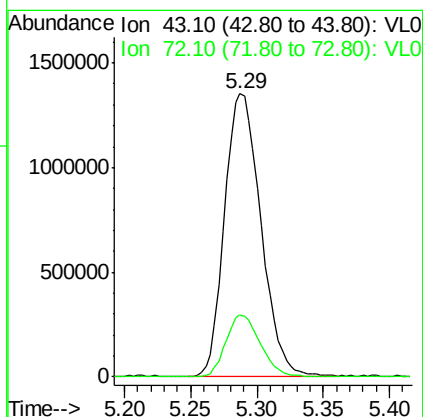
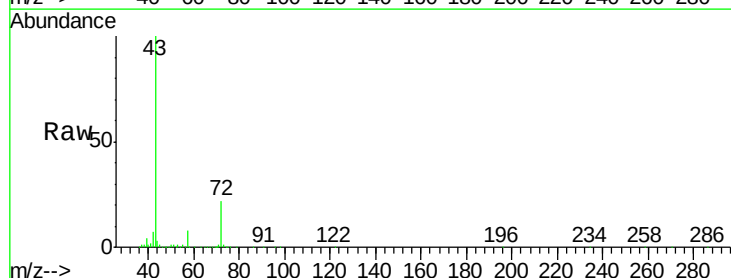
Manual Integrations
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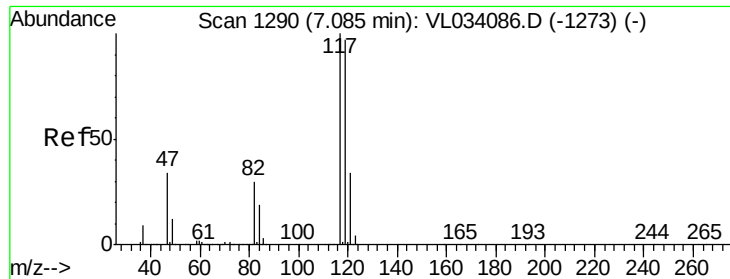
MMDadoda
 8/8/2019 12:41:34 PM



#34
 2-Butanone
 Concen: 20.723 ppbv
 RT: 5.29 min Scan# 731
 Delta R.T. 0.00 min
 Lab File: VL034092.D
 Acq: 5 Aug 2019 16:34

Tgt Ion	Ratio	Lower	Upper
43	100		
72	20.9	16.0	24.0





#35

Carbon Tetrachloride

Concen: 11.967 ppbv

RT: 7.09 min Scan# 1291

Delta R.T. 0.00 min

Lab File: VL034092.D

Acq: 5 Aug 2019 16:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:117 Resp: 2085828

Ion Ratio Lower Upper

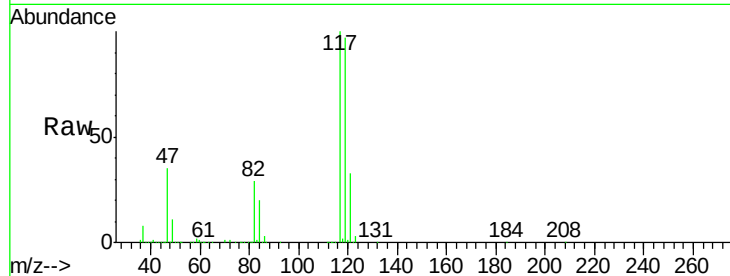
117 100

119 96.7 77.8 116.6

121 33.2 27.4 41.2

Manual Integrations
APPROVED

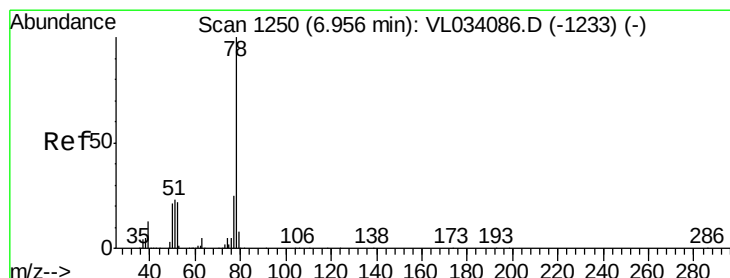
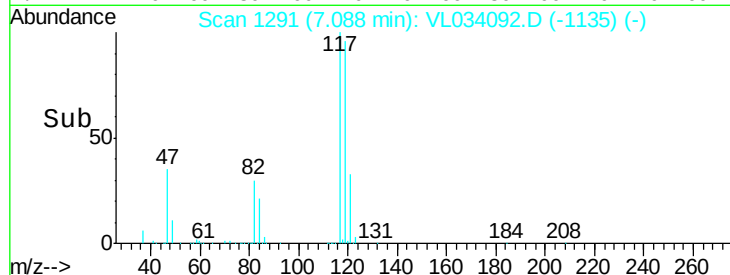
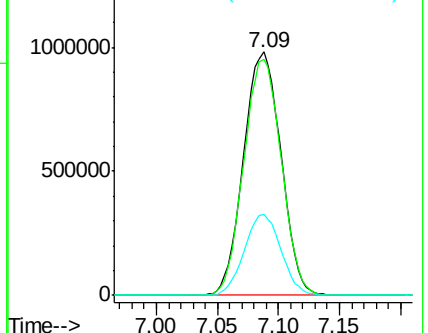
MMDadoda
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Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 14.947 ppbv

RT: 6.96 min Scan# 1251

Delta R.T. 0.00 min

Lab File: VL034092.D

Acq: 5 Aug 2019 16:34

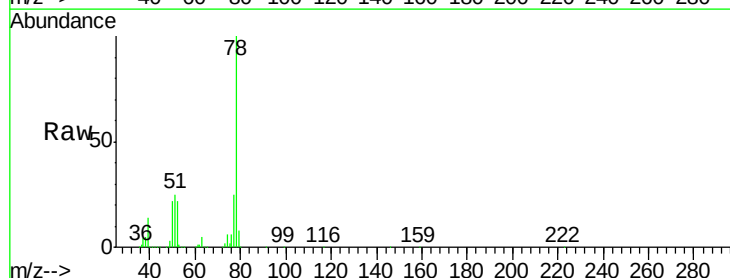
Tgt Ion: 78 Resp: 3073692

Ion Ratio Lower Upper

78 100

77 25.1 19.9 29.9

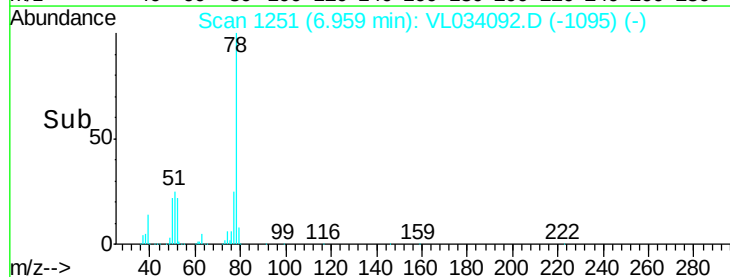
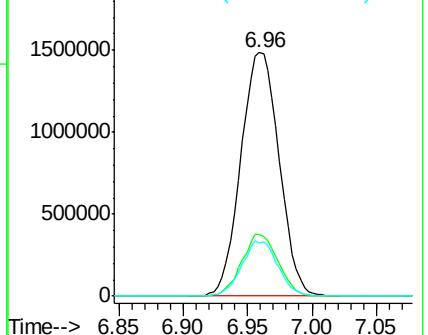
50 22.0 16.7 25.1

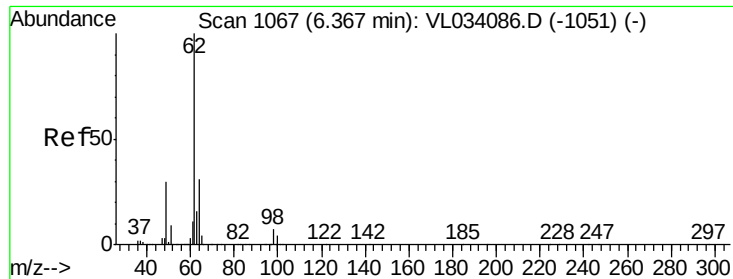


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0





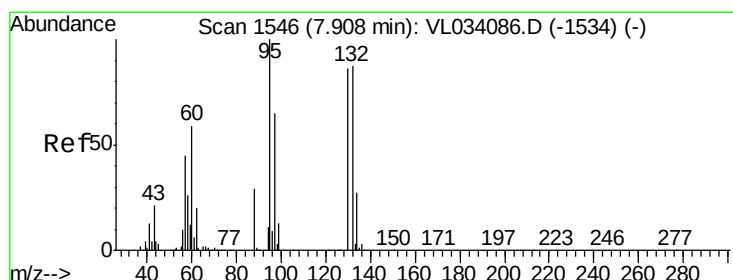
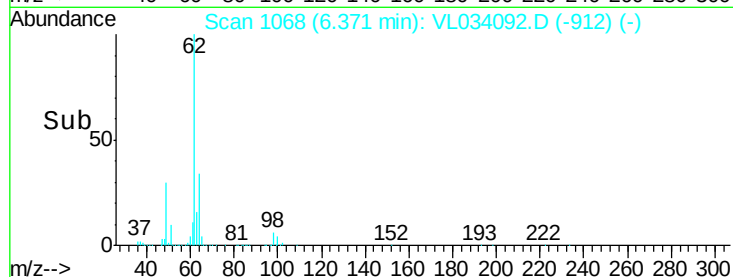
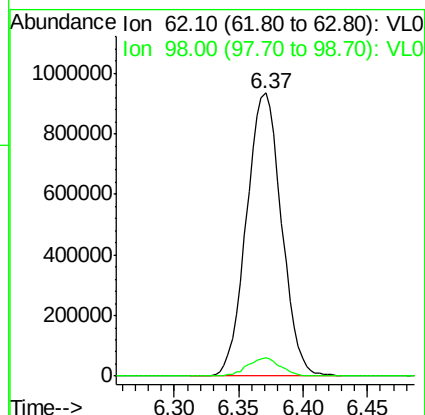
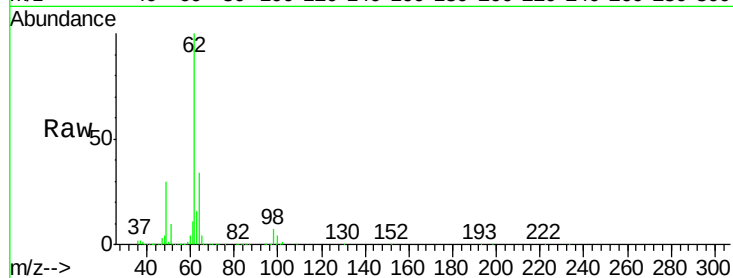
#37
 1,2-Dichloroethane
 Concen: 13.183 ppbv
 RT: 6.37 min Scan# 1068
 Delta R.T. 0.00 min
 Lab File: VL034092.D
 Acq: 5 Aug 2019 16:34

Instrument :
 MSVOA_L
 ClientSampled :
 VSTDIC015

Tot Ion: 62 Resp: 1768681
 Ion Ratio Lower Upper
 62 100
 98 6.2 4.9 7.3

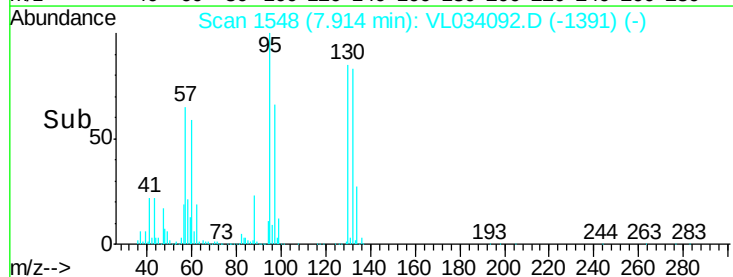
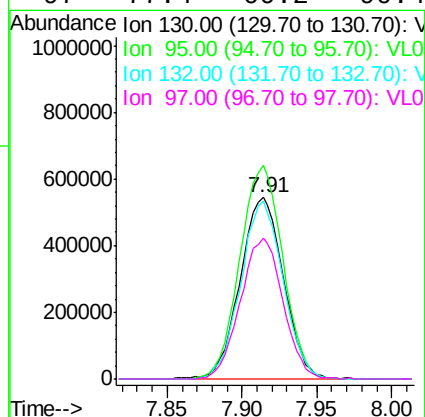
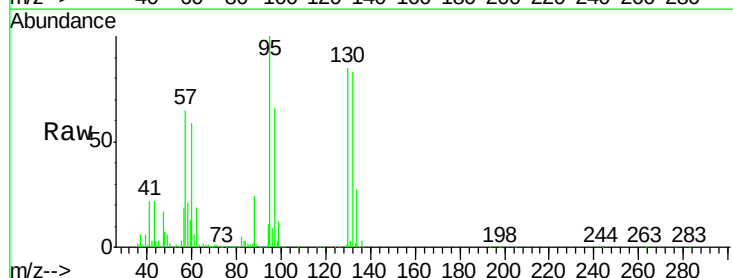
Manual Integrations
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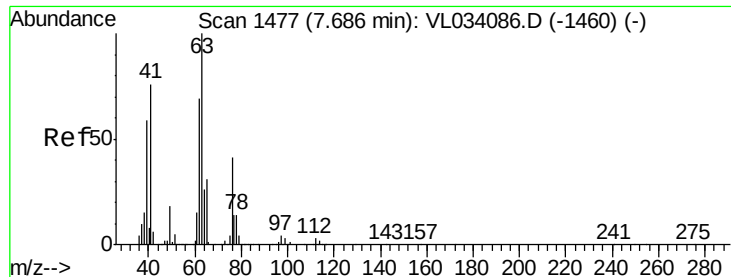
MMDadoda
 8/8/2019 12:41:34 PM



#38
 Trichloroethene
 Concen: 15.609 ppbv
 RT: 7.91 min Scan# 1548
 Delta R.T. 0.01 min
 Lab File: VL034092.D
 Acq: 5 Aug 2019 16:34

Tgt Ion: 130 Resp: 1084369
 Ion Ratio Lower Upper
 130 100
 95 117.8 92.1 138.1
 132 98.1 79.7 119.5
 97 77.4 60.2 90.4





#39

1,2-Dichloropropane

Concen: 17.576 ppbv

RT: 7.69 min Scan# 1478

Delta R.T. 0.00 min

Lab File: VL034092.D

Acq: 5 Aug 2019 16:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 63 Resp: 1307484

Ion Ratio Lower Upper

63 100

41 74.2 60.6 91.0

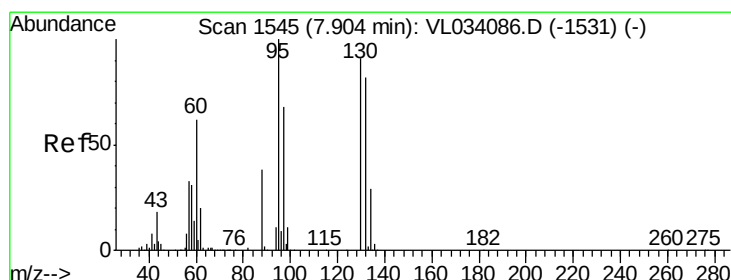
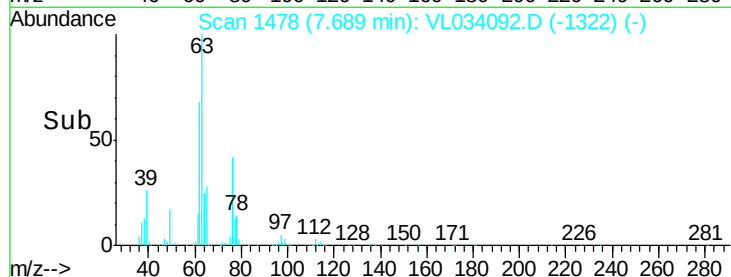
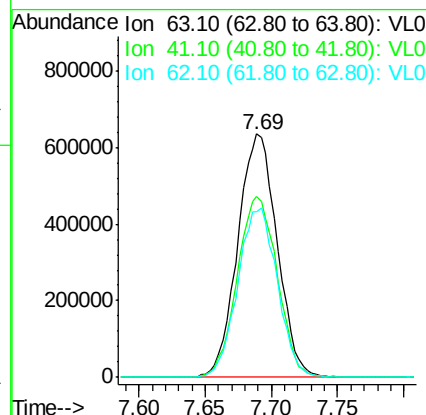
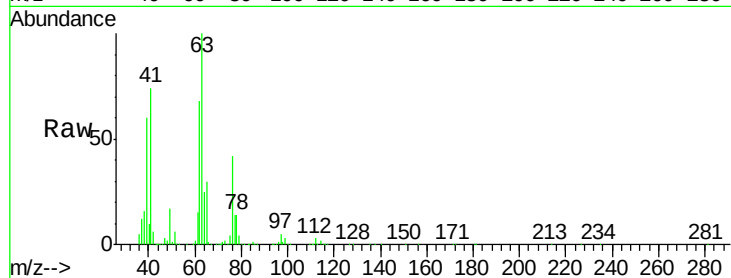
62 67.7 55.0 82.6

Manual Integrations

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MMDadoda

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#40

1,4-Dioxane

Concen: 15.751 ppbv

RT: 7.90 min Scan# 1545

Delta R.T. -0.00 min

Lab File: VL034092.D

Acq: 5 Aug 2019 16:34

Tgt Ion: 88 Resp: 449033

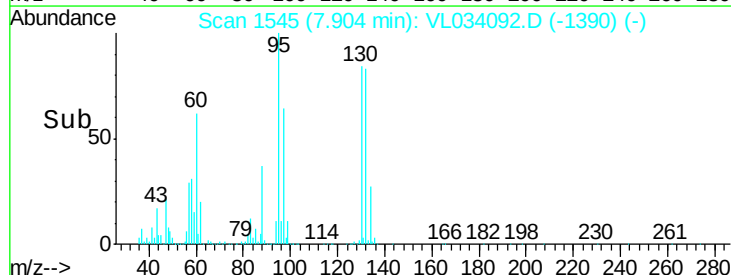
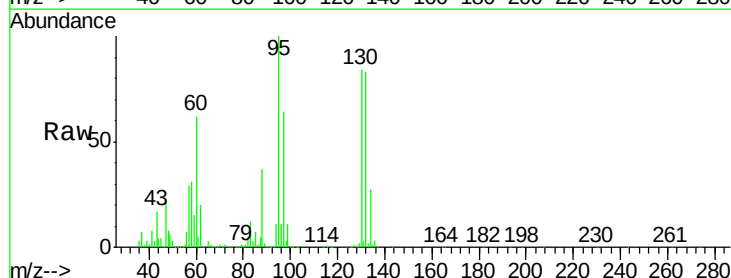
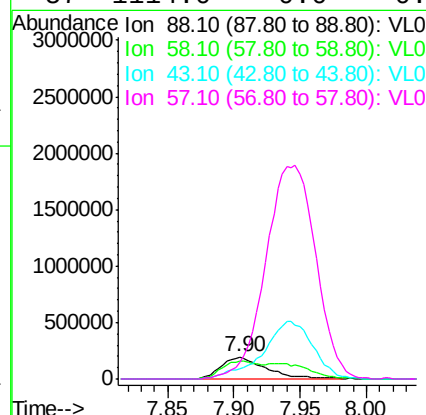
Ion Ratio Lower Upper

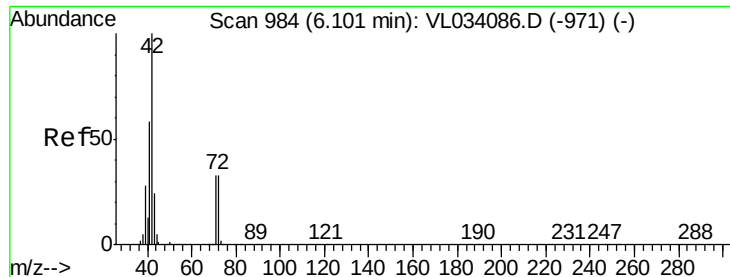
88 100

58 138.9 113.0 169.4

43 299.6 0.0 0.0#

57 1114.0 0.0 0.0#





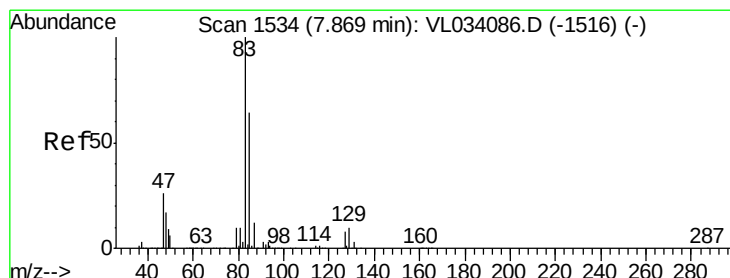
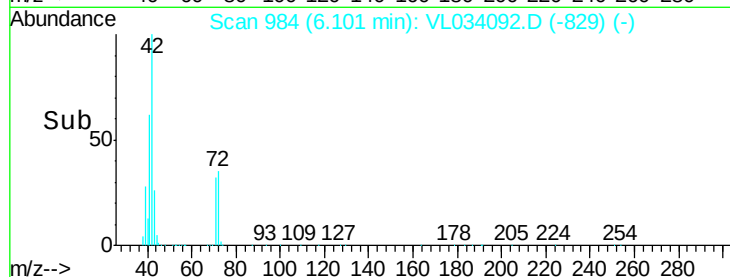
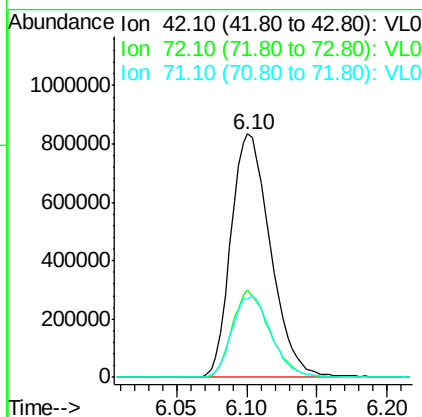
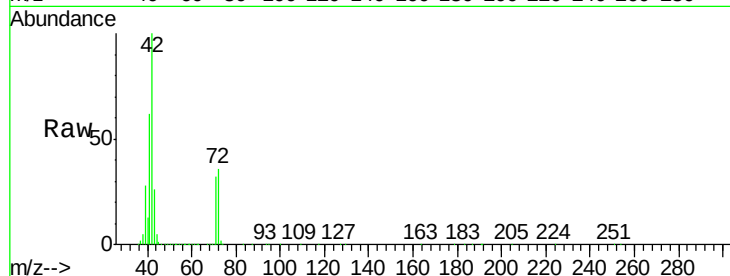
#41
Tetrahydrofuran
Concen: 24.674 ppbv
RT: 6.10 min Scan# 984
Delta R.T. -0.00 min
Lab File: VL034092.D
Acq: 5 Aug 2019 16:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 42 Resp: 1634454
Ion Ratio Lower Upper
42 100
72 34.4 26.9 40.3
71 33.7 26.5 39.7

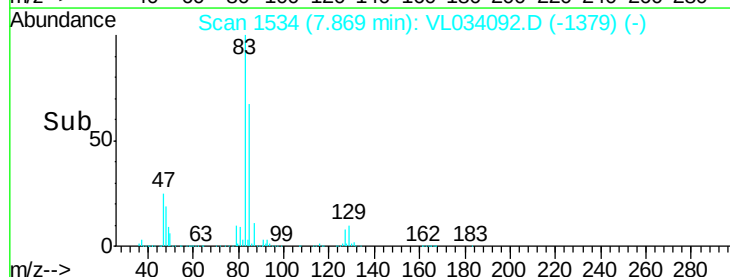
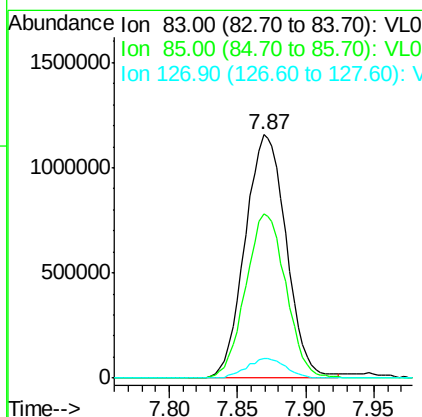
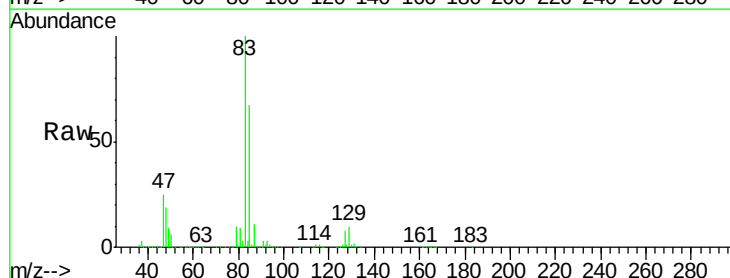
Manual Integrations
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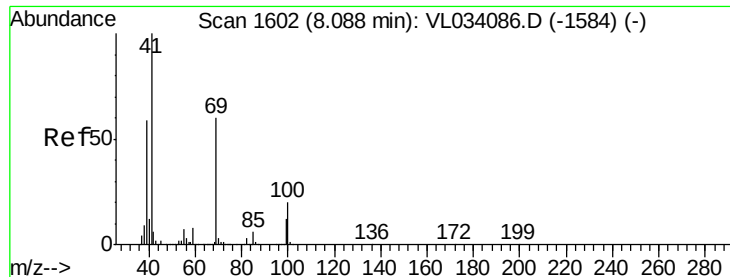
MMDadoda
8/8/2019 12:41:34 PM



#42
Bromodichloromethane
Concen: 14.334 ppbv
RT: 7.87 min Scan# 1534
Delta R.T. -0.00 min
Lab File: VL034092.D
Acq: 5 Aug 2019 16:34

Tgt Ion: 83 Resp: 2424062
Ion Ratio Lower Upper
83 100
85 67.4 50.9 76.3
127 7.9 6.1 9.1





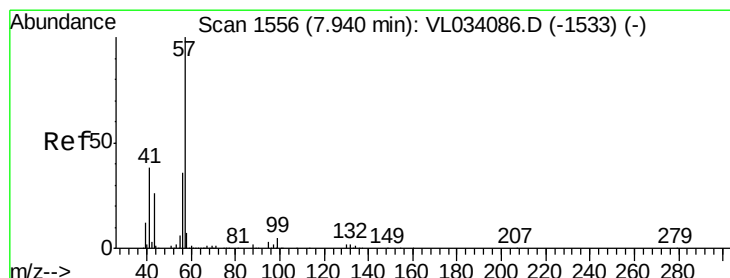
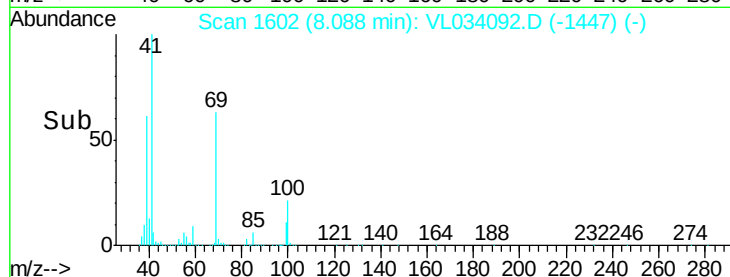
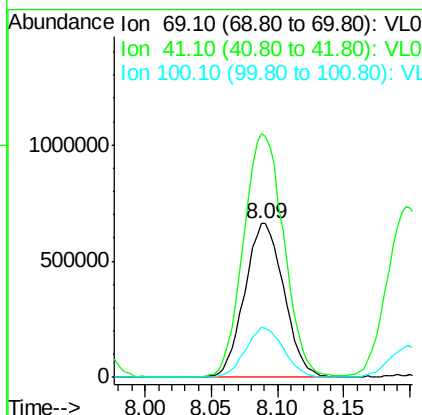
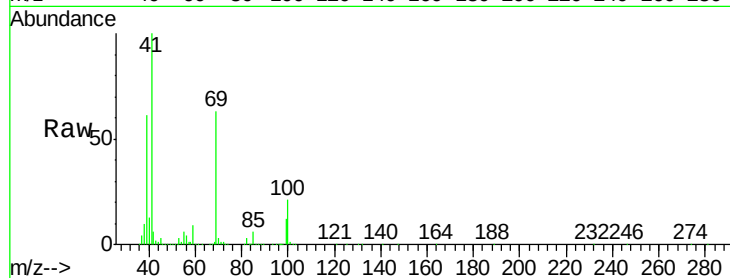
#43
Methyl Methacrylate
Concen: 19.265 ppbv
RT: 8.09 min Scan# 1602
Delta R.T. -0.00 min
Lab File: VL034092.D
Acq: 5 Aug 2019 16:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion	Ratio	Lower	Upper
69	100		
41	162.8	132.9	199.3
100	31.6	25.8	38.8

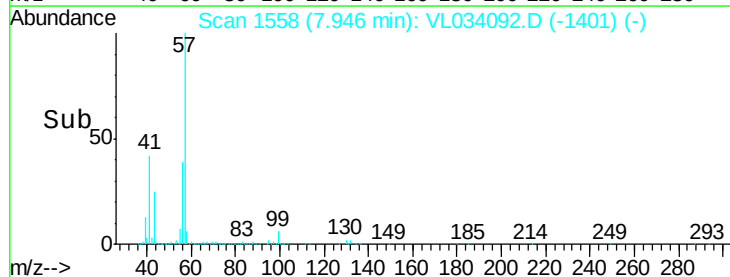
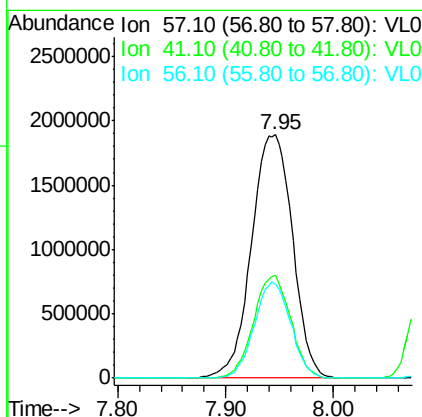
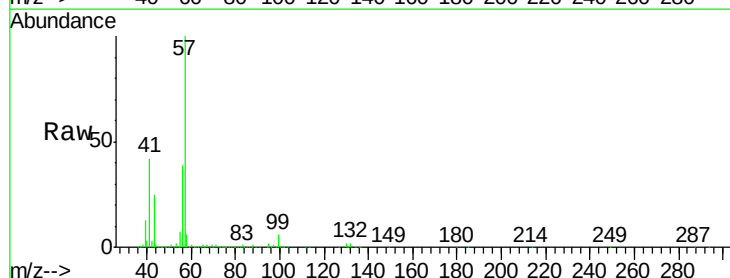
Manual Integrations
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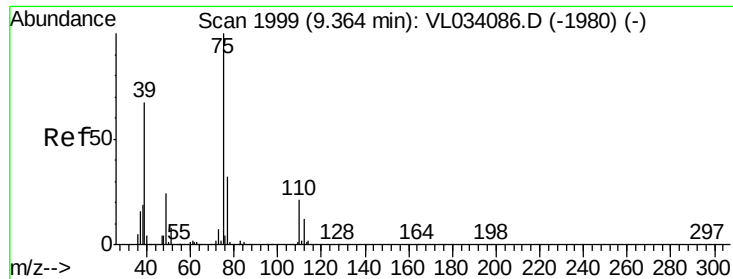
MMDadoda
8/8/2019 12:41:34 PM



#44
2,2,4-Trimethylpentane
Concen: 16.258 ppbv
RT: 7.95 min Scan# 1558
Delta R.T. 0.01 min
Lab File: VL034092.D
Acq: 5 Aug 2019 16:34

Tgt Ion	Ratio	Lower	Upper
57	100		
41	37.9	29.2	43.8
56	35.0	26.7	40.1





#45

t-1,3-Dichloropropene

Concen: 20.802 ppbv

RT: 9.37 min Scan# 2000

Delta R.T. 0.00 min

Lab File: VL034092.D

Acq: 5 Aug 2019 16:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 75 Resp: 1823608

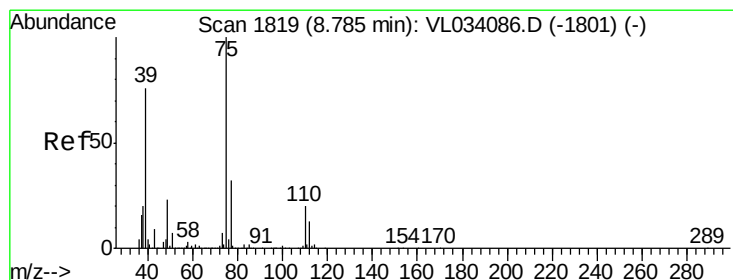
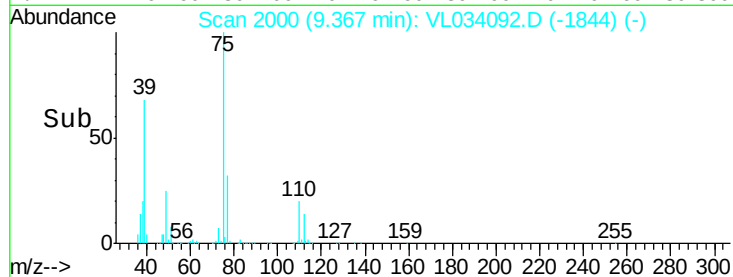
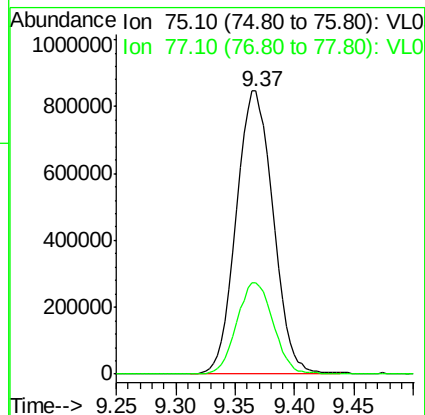
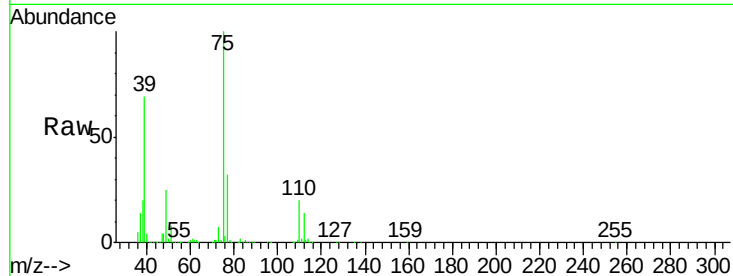
Ion Ratio Lower Upper

75 100

77 32.1 25.7 38.5

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#46

cis-1,3-Dichloropropene

Concen: 19.791 ppbv

RT: 8.79 min Scan# 1820

Delta R.T. 0.00 min

Lab File: VL034092.D

Acq: 5 Aug 2019 16:34

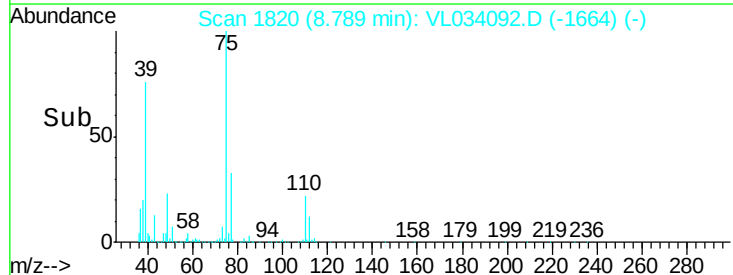
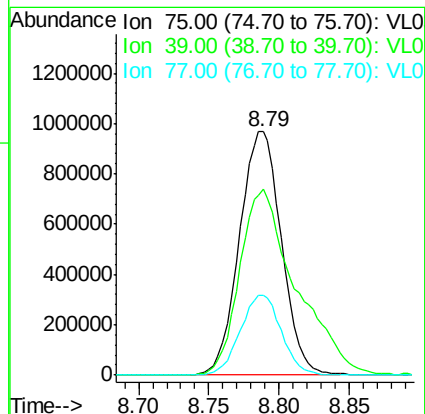
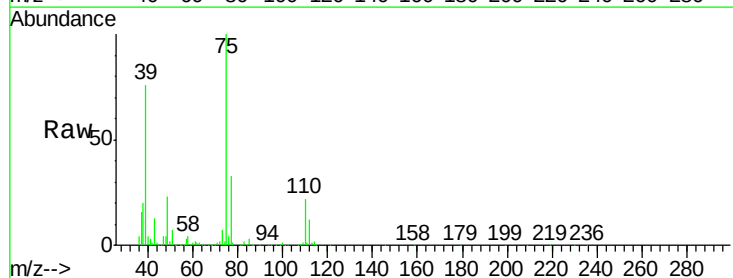
Tgt Ion: 75 Resp: 2013921

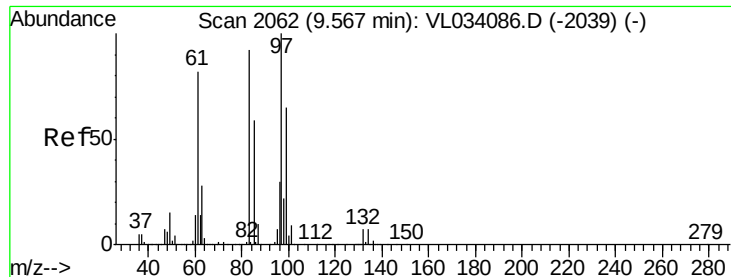
Ion Ratio Lower Upper

75 100

39 76.4 61.0 91.4

77 32.7 25.6 38.4





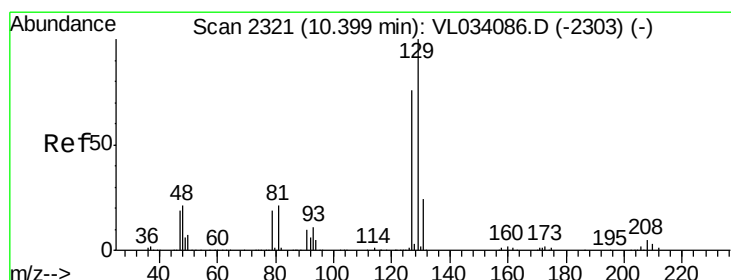
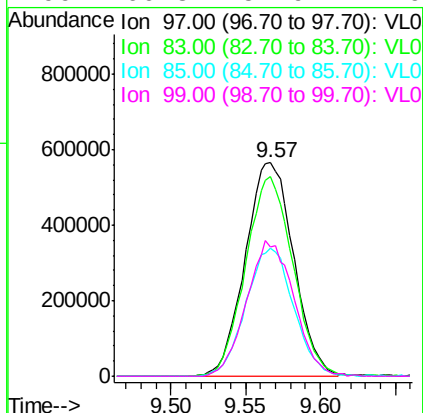
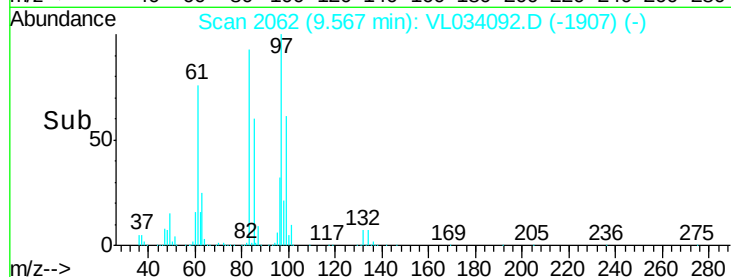
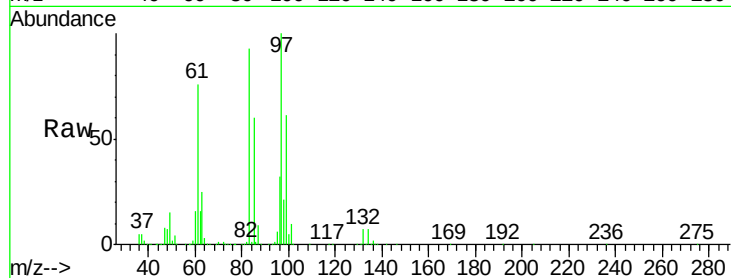
#47
 1,1,2-Trichloroethane
 Concen: 15.824 ppbv
 RT: 9.57 min Scan# 2062
 Delta R.T. -0.00 min
 Lab File: VL034092.D
 Acq: 5 Aug 2019 16:34

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion	Ratio	Lower	Upper
97	100		
83	93.5	74.0	111.0
85	59.7	47.1	70.7
99	60.8	51.9	77.9

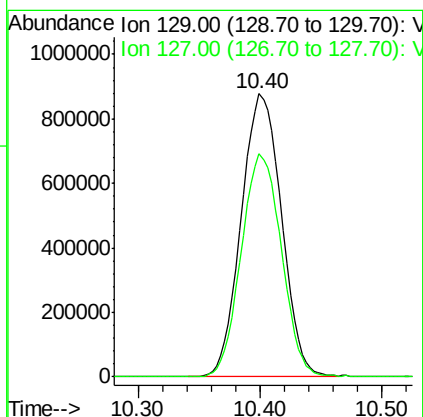
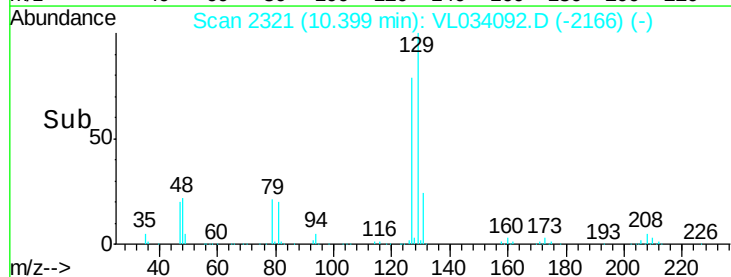
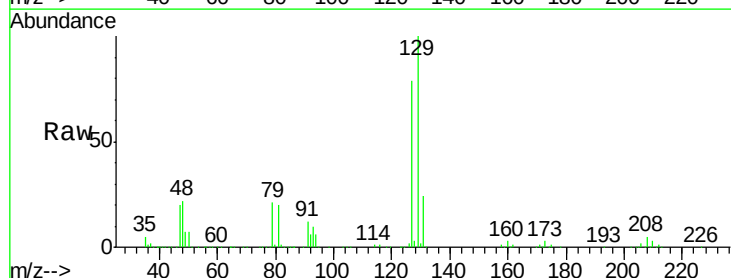
Manual Integrations
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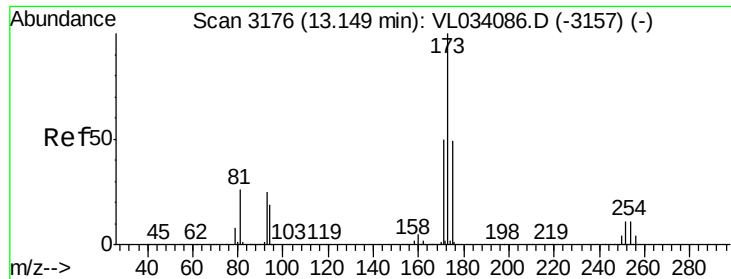
MMDadoda
 8/8/2019 12:41:34 PM



#48
 Dibromochloromethane
 Concen: 14.814 ppbv
 RT: 10.40 min Scan# 2321
 Delta R.T. -0.00 min
 Lab File: VL034092.D
 Acq: 5 Aug 2019 16:34

Tgt Ion	Ratio	Lower	Upper
129	100		
127	78.6	39.4	118.2





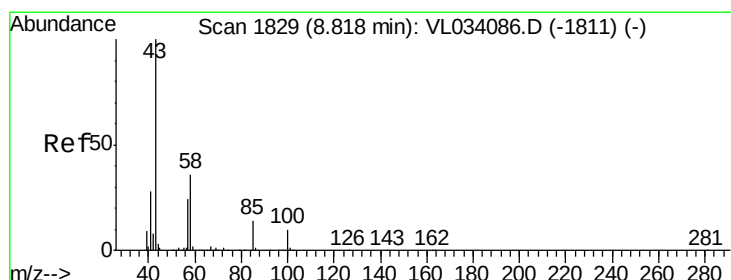
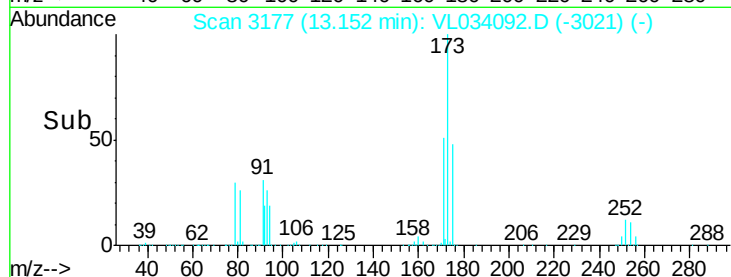
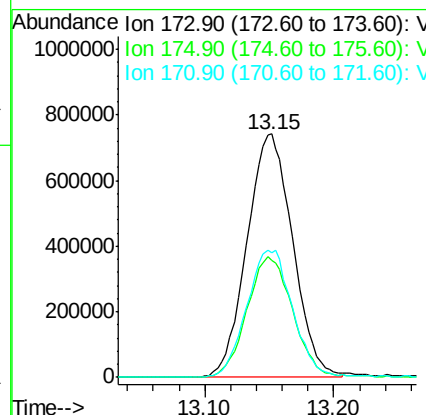
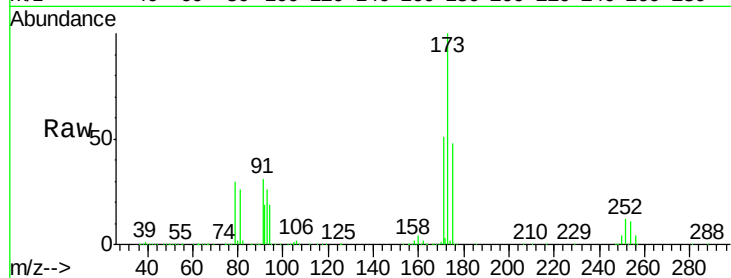
#49
Bromoform
Concen: 15.596 ppbv
RT: 13.15 min Scan# 3177
Delta R.T. 0.00 min
Lab File: VL034092.D
Acq: 5 Aug 2019 16:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion	Ratio	Lower	Upper
173	100		
175	49.9	39.8	59.8
171	53.2	42.7	64.1

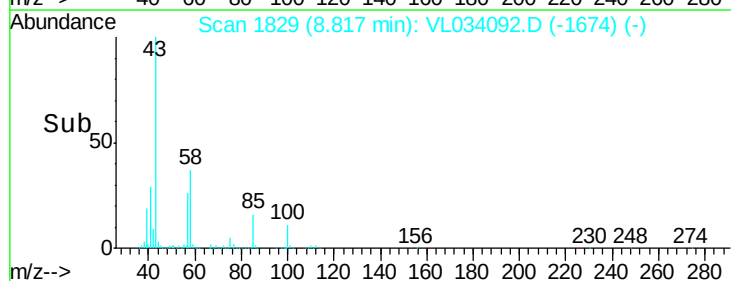
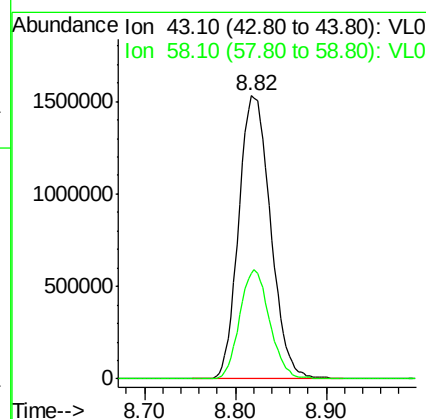
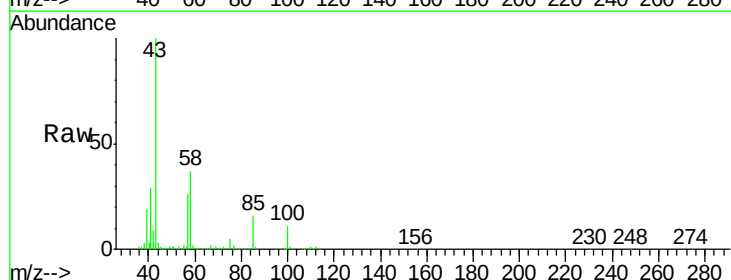
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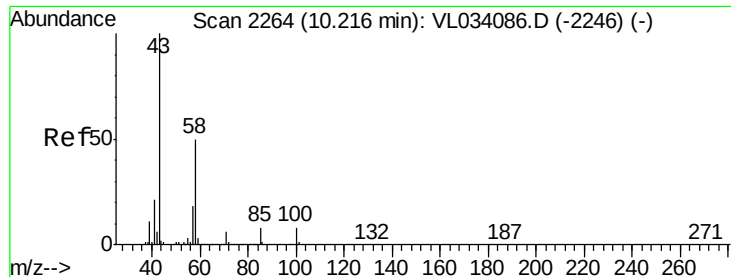
MMDadoda
8/8/2019 12:41:34 PM



#50
4-Methyl-2-Pentanone
Concen: 20.326 ppbv
RT: 8.82 min Scan# 1829
Delta R.T. -0.00 min
Lab File: VL034092.D
Acq: 5 Aug 2019 16:34

Tgt Ion	Ratio	Lower	Upper
43	100		
58	36.3	28.2	42.2





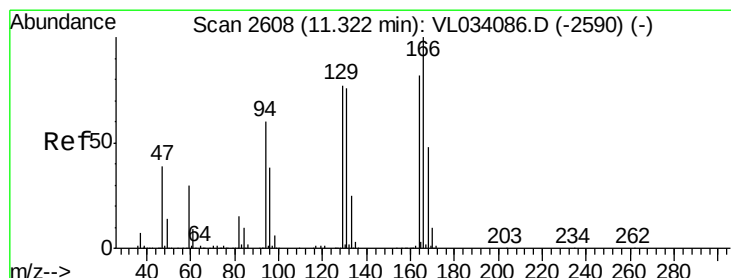
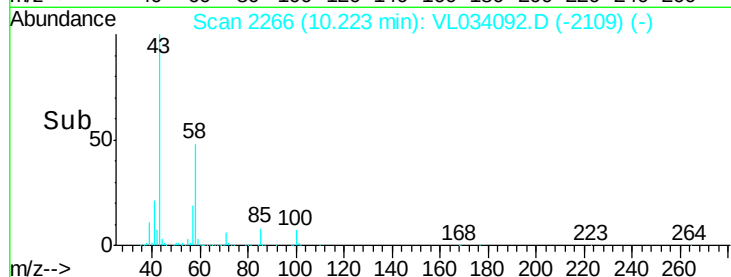
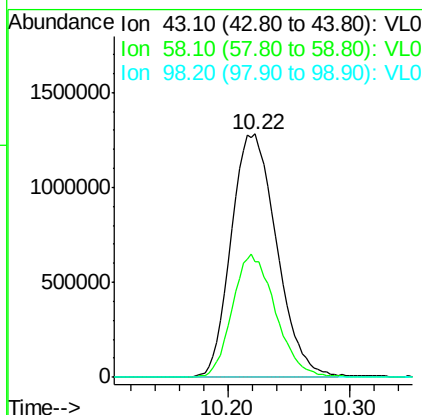
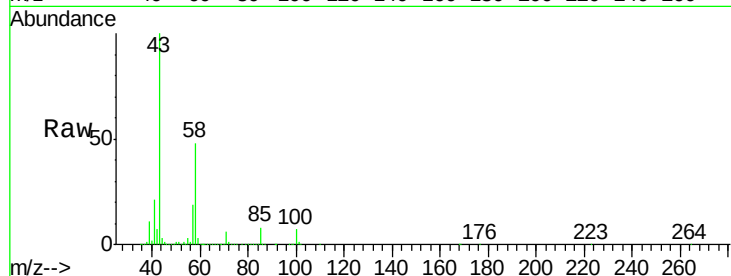
#51
2-Hexanone
Concen: 23.415 ppbv
RT: 10.22 min Scan# 2266
Delta R.T. 0.01 min
Lab File: VL034092.D
Acq: 5 Aug 2019 16:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 43 Resp: 3313152
Ion Ratio Lower Upper
43 100
58 48.1 38.5 57.7
98 0.0 0.0 0.0#

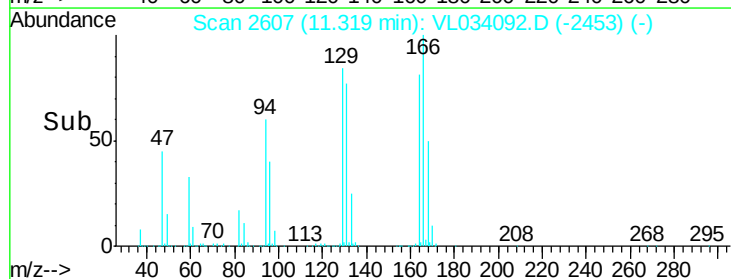
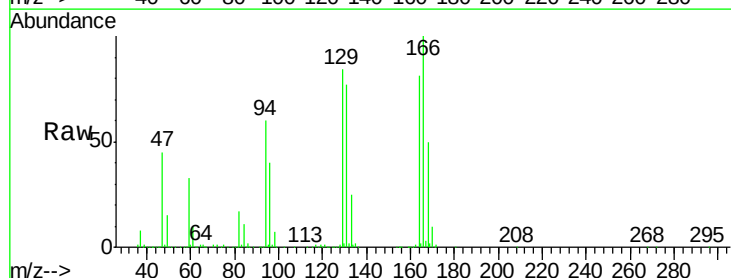
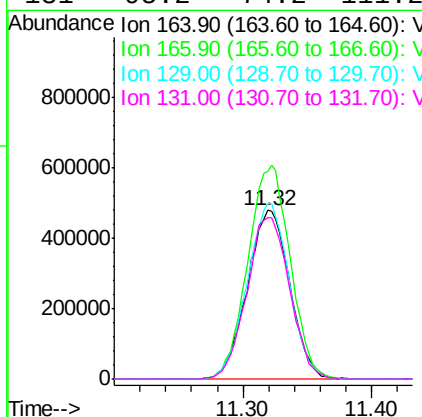
Manual Integrations
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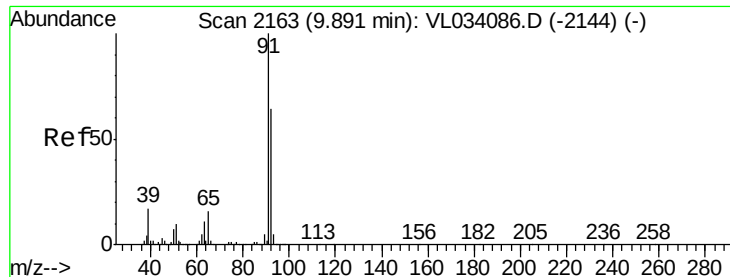
MMDadoda
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#52
Tetrachloroethene
Concen: 18.287 ppbv
RT: 11.32 min Scan# 2607
Delta R.T. -0.00 min
Lab File: VL034092.D
Acq: 5 Aug 2019 16:34

Tgt Ion:164 Resp: 1097291
Ion Ratio Lower Upper
164 100
166 123.0 96.8 145.2
129 103.7 74.9 112.3
131 95.2 74.2 111.2





#53

Toluene

Concen: 17.227 ppbv

RT: 9.89 min Scan# 2164

Delta R.T. 0.00 min

Lab File: VL034092.D

Acq: 5 Aug 2019 16:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 91 Resp: 3520645

Ion Ratio Lower Upper

91 100

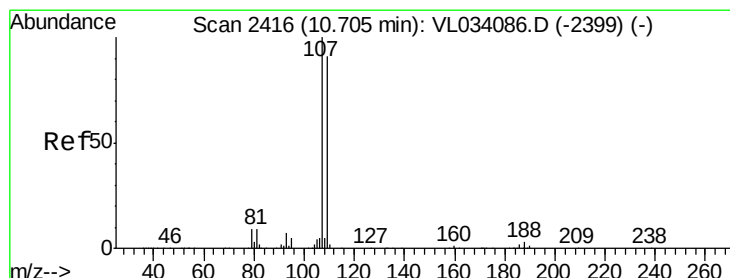
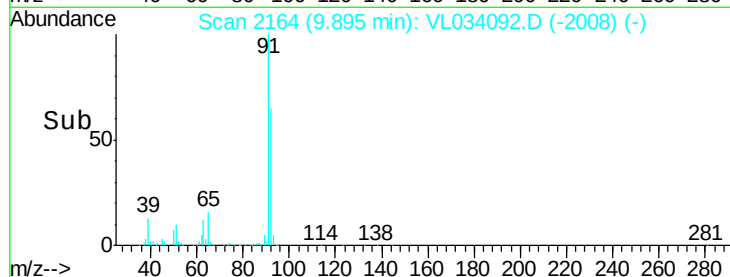
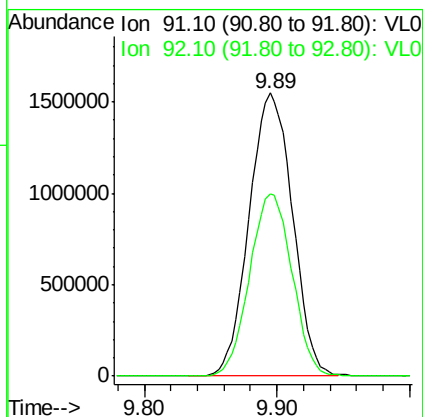
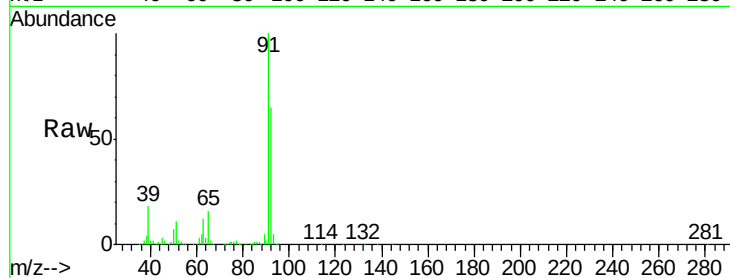
92 63.2 50.3 75.5

Manual Integrations

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#54

1,2-Dibromoethane

Concen: 15.943 ppbv

RT: 10.71 min Scan# 2417

Delta R.T. 0.00 min

Lab File: VL034092.D

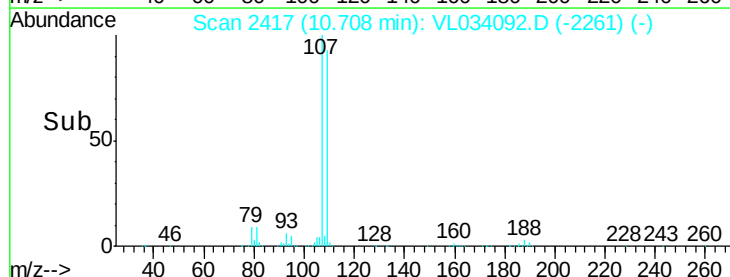
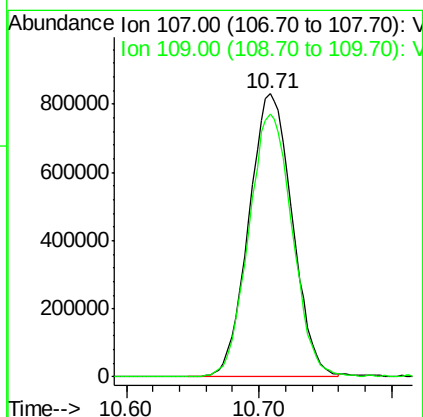
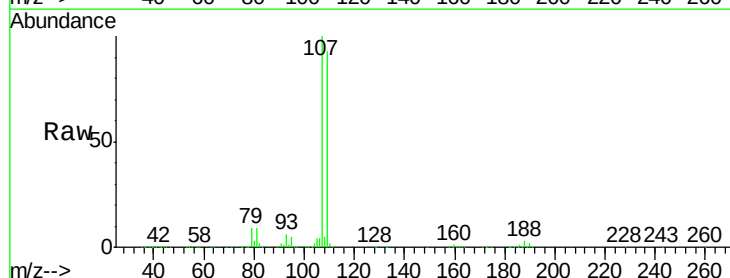
Acq: 5 Aug 2019 16:34

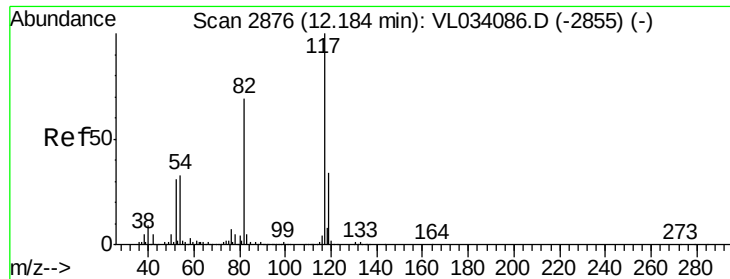
Tgt Ion:107 Resp: 1895011

Ion Ratio Lower Upper

107 100

109 92.9 72.9 109.3





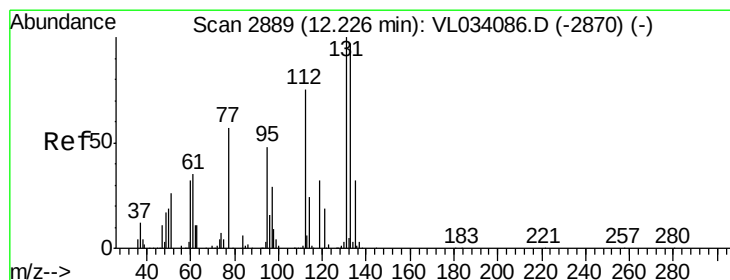
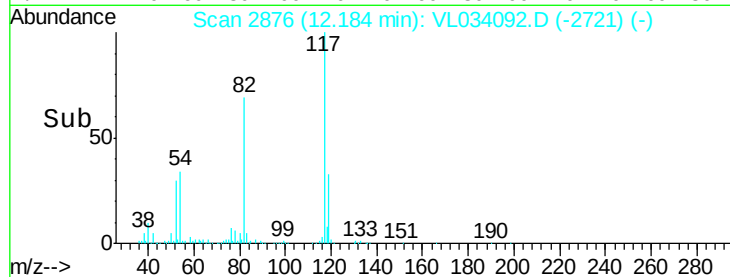
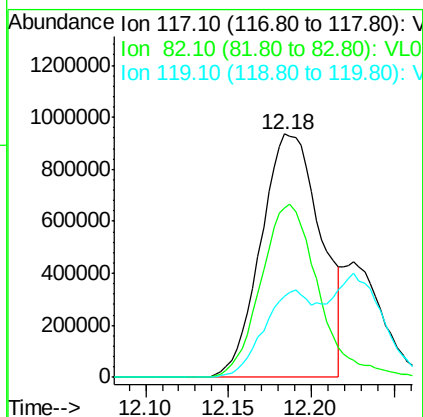
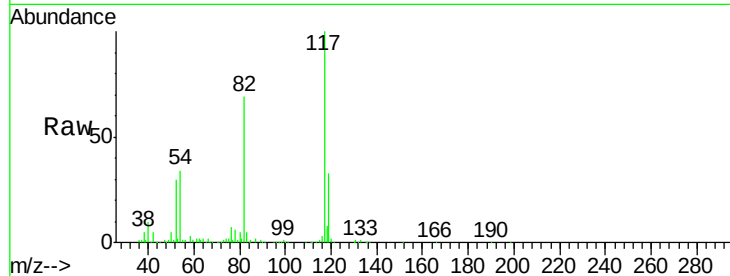
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.18 min Scan# 2876
Delta R.T. -0.00 min
Lab File: VL034092.D
Acq: 5 Aug 2019 16:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion	Ratio	Lower	Upper
117	100		
82	69.2	52.2	78.4
119	0.0	44.8	67.2#

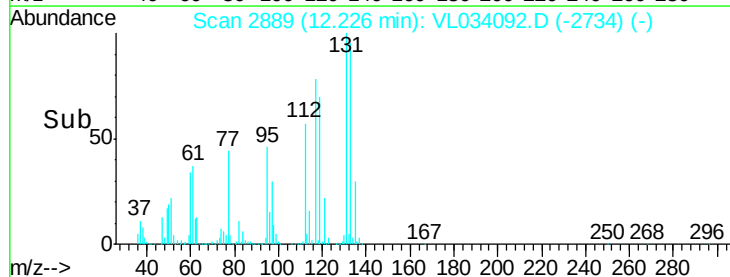
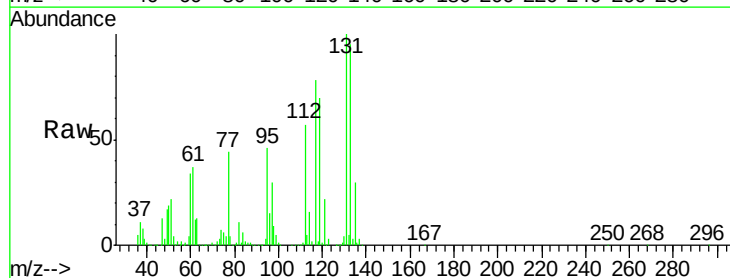
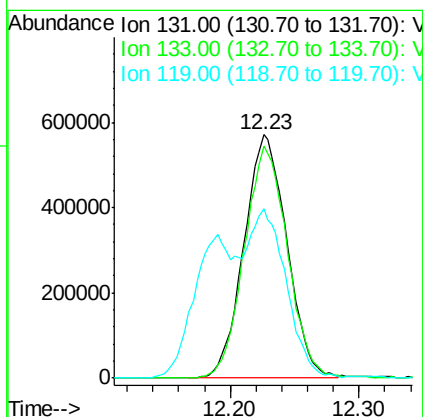
Manual Integrations
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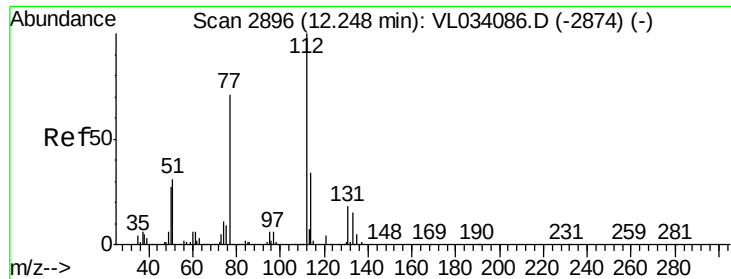
MMDadoda
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#56
1,1,1,2-Tetrachloroethane
Concen: 12.785 ppbv
RT: 12.23 min Scan# 2889
Delta R.T. -0.00 min
Lab File: VL034092.D
Acq: 5 Aug 2019 16:34

Tgt Ion	Ratio	Lower	Upper
131	100		
133	96.1	76.5	114.7
119	122.0	114.7	172.1





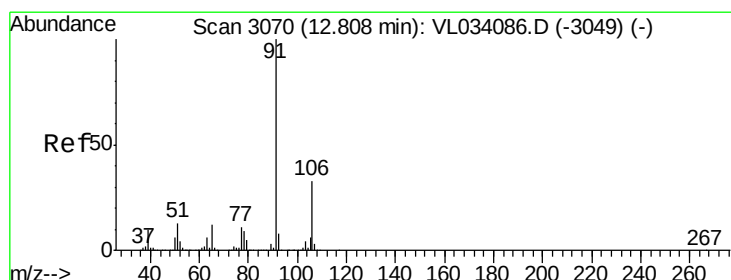
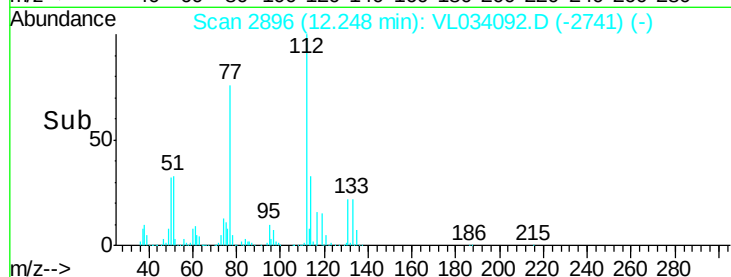
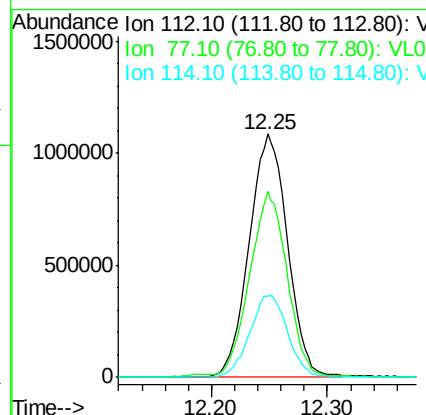
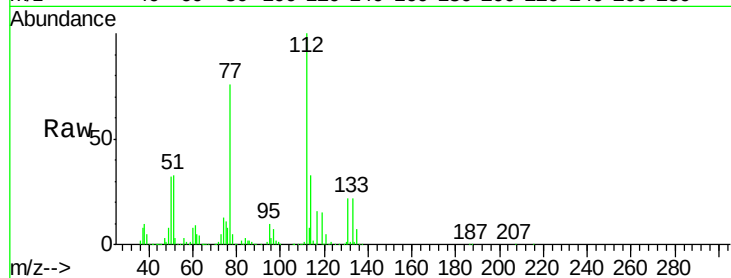
#57
Chlorobenzene
Concen: 13.049 ppbv
RT: 12.25 min Scan# 2896
Delta R.T. -0.00 min
Lab File: VL034092.D
Acq: 5 Aug 2019 16:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion	Ratio	Lower	Upper
112	100		
77	75.7	57.8	86.6
114	33.1	30.3	37.1

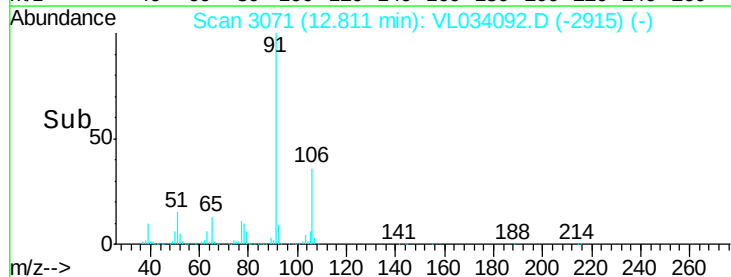
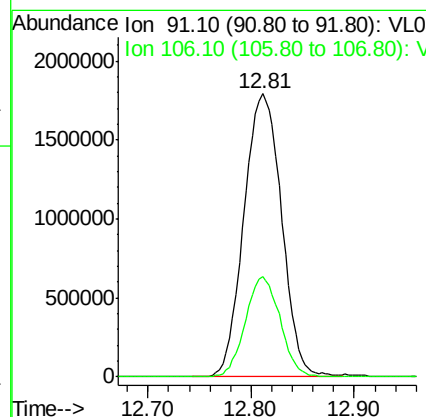
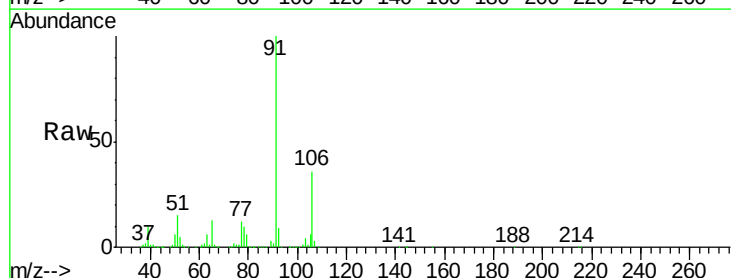
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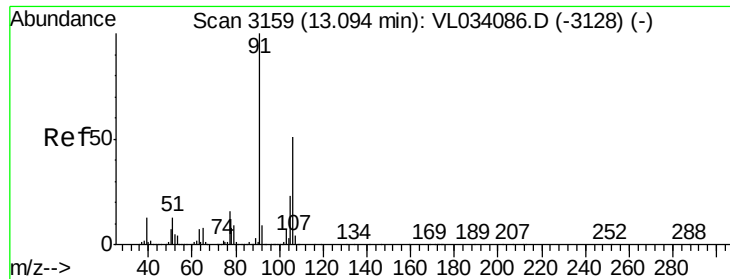
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#58
Ethyl Benzene
Concen: 14.744 ppbv
RT: 12.81 min Scan# 3071
Delta R.T. 0.00 min
Lab File: VL034092.D
Acq: 5 Aug 2019 16:34

Tgt Ion	Ratio	Lower	Upper
91	100		
106	35.6	26.0	39.0





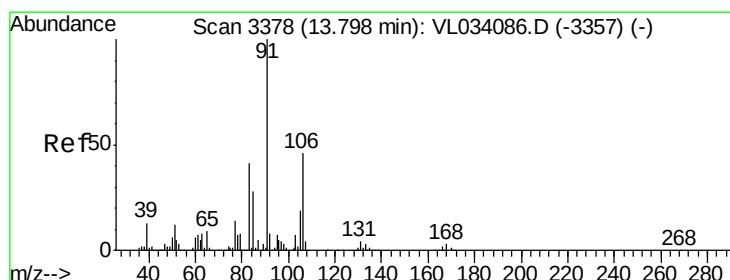
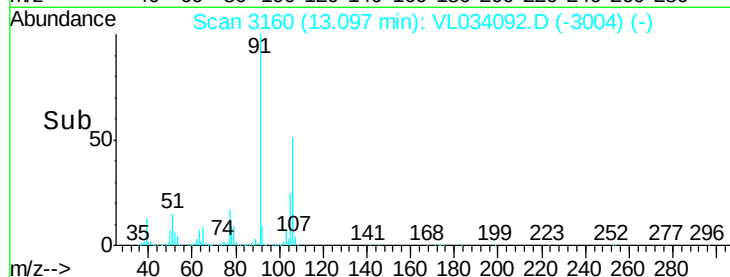
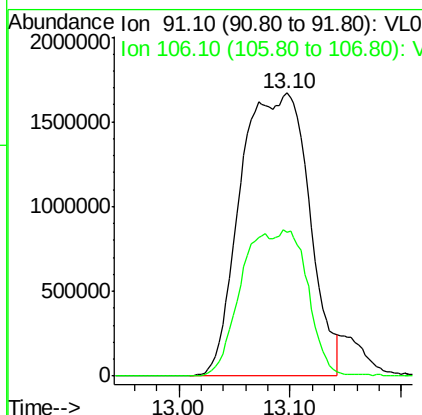
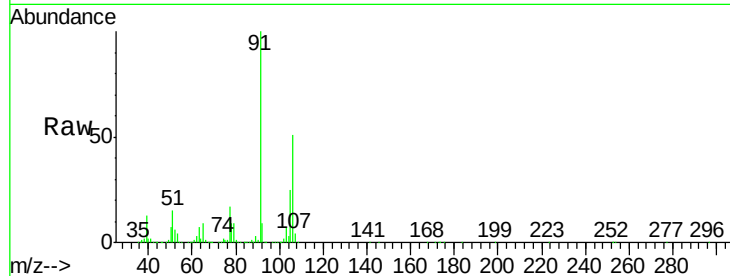
#59
m/p-Xylene
Concen: 25.804 ppbv m
RT: 13.10 min Scan# 3160
Delta R.T. 0.00 min
Lab File: VL034092.D
Acq: 5 Aug 2019 16:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 91 Resp: 7142179
Ion Ratio Lower Upper
91 100
106 49.5 38.7 58.1

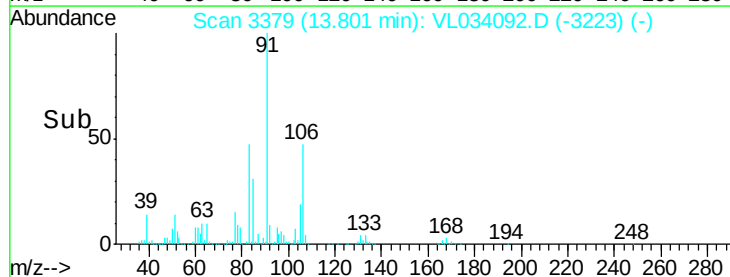
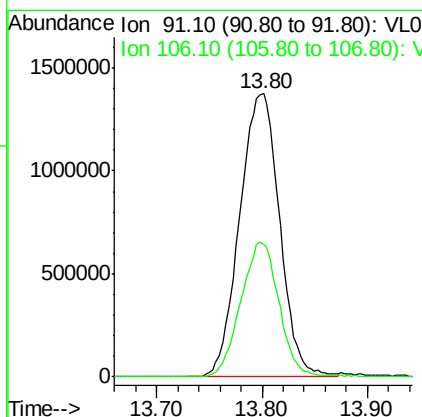
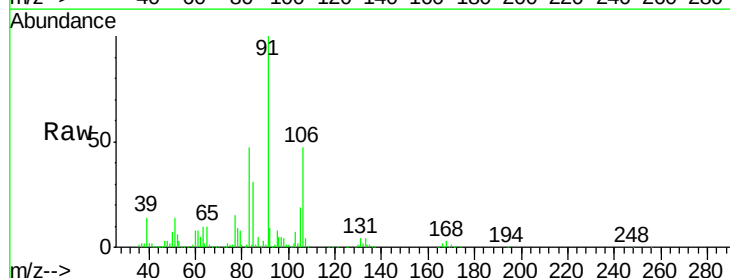
Manual Integrations
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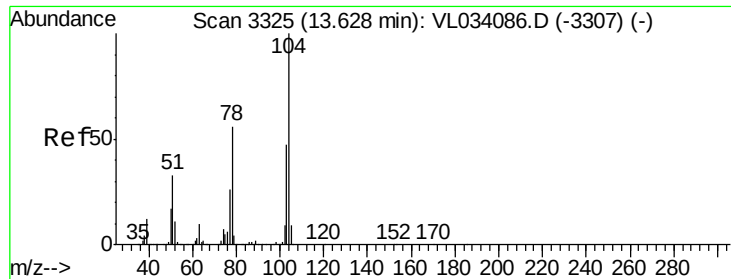
MMDadoda
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#60
o-Xylene
Concen: 13.036 ppbv
RT: 13.80 min Scan# 3379
Delta R.T. 0.00 min
Lab File: VL034092.D
Acq: 5 Aug 2019 16:34

Tgt Ion: 91 Resp: 3625434
Ion Ratio Lower Upper
91 100
106 45.6 22.6 67.7





#61

Stvrene

Concen: 16.847 ppbv

RT: 13.63 min Scan# 3326

Delta R.T. 0.00 min

Lab File: VL034092.D

Acq: 5 Aug 2019 16:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:104 Resp: 3066532

Ion Ratio Lower Upper

104 100

78 57.4 44.2 66.4

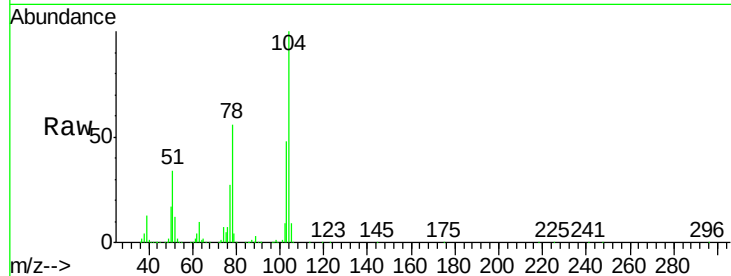
103 49.2 38.3 57.5

Manual Integrations

APPROVED

MMDadoda

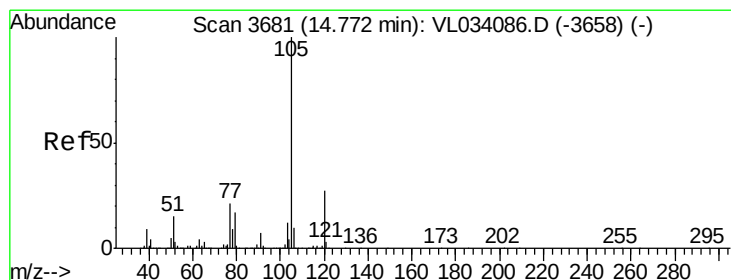
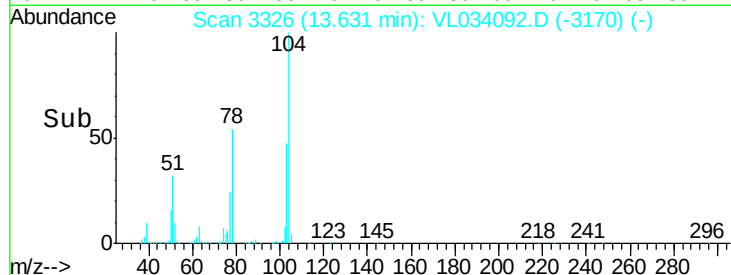
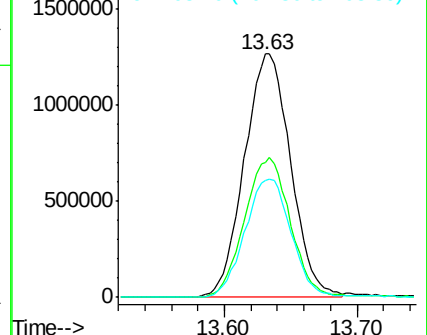
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Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V



#62

Isopropylbenzene

Concen: 13.085 ppbv

RT: 14.77 min Scan# 3681

Delta R.T. -0.00 min

Lab File: VL034092.D

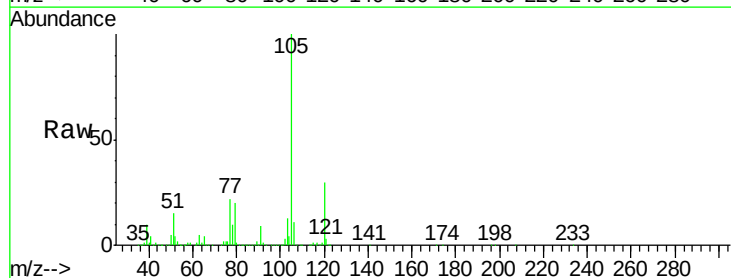
Acq: 5 Aug 2019 16:34

Tgt Ion:105 Resp: 4777201

Ion Ratio Lower Upper

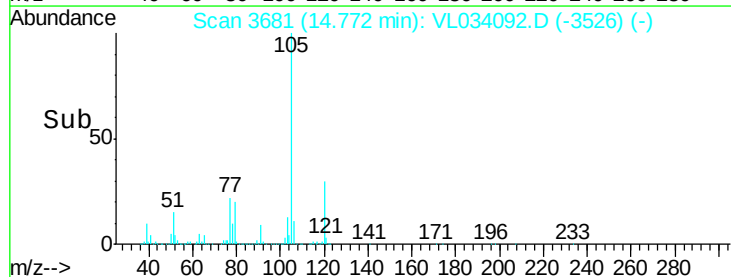
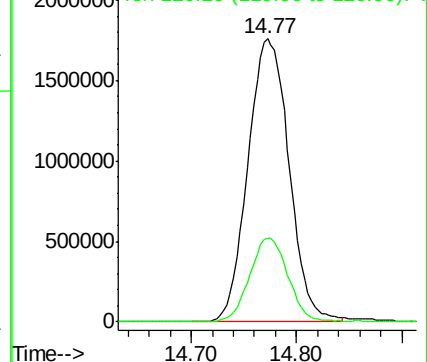
105 100

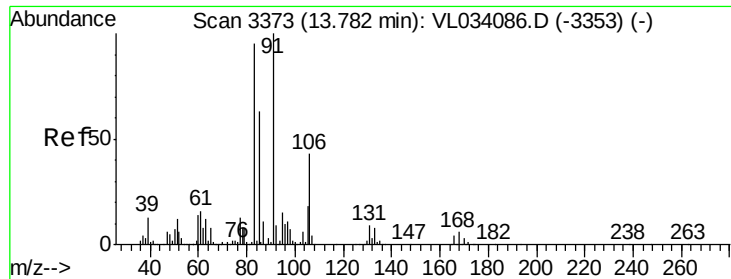
120 28.0 21.4 32.2



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V





#63

1,1,2,2-Tetrachloroethane

Concen: 11.722 ppbv

RT: 13.79 min Scan# 3375

Delta R.T. 0.01 min

Lab File: VL034092.D

Acq: 5 Aug 2019 16:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 83 Resp: 2565961

Ion Ratio Lower Upper

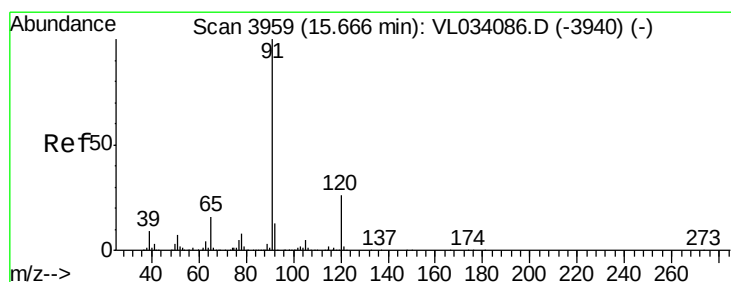
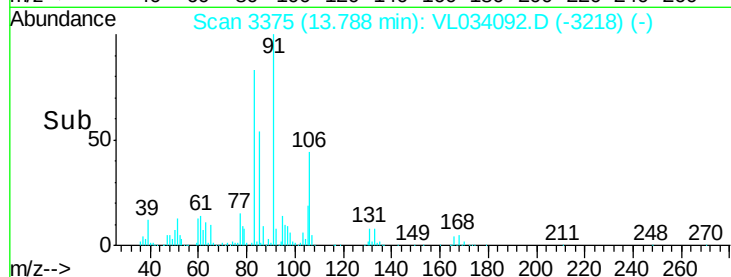
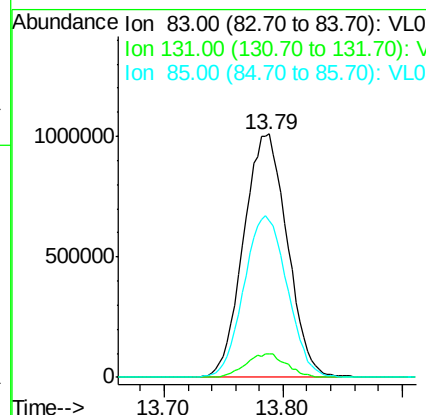
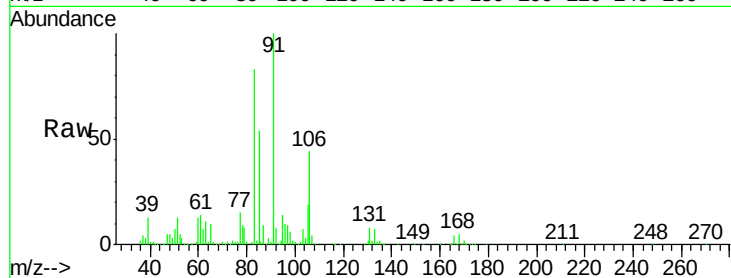
83 100

131 9.2 4.6 13.8

85 66.2 32.6 97.8

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#64

n-propylbenzene

Concen: 14.617 ppbv

RT: 15.67 min Scan# 3959

Delta R.T. -0.00 min

Lab File: VL034092.D

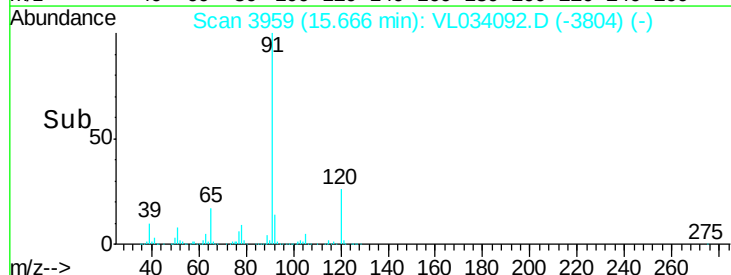
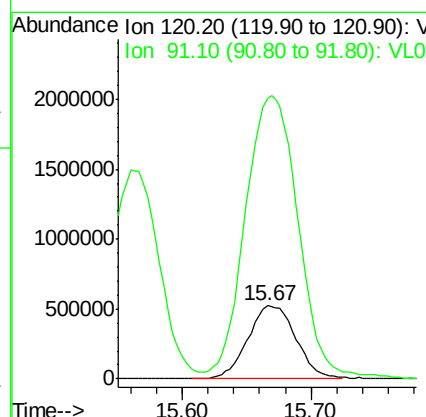
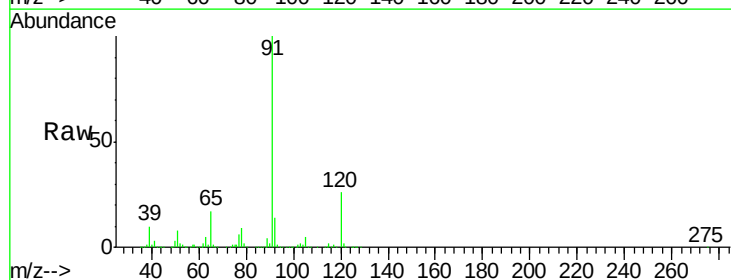
Acq: 5 Aug 2019 16:34

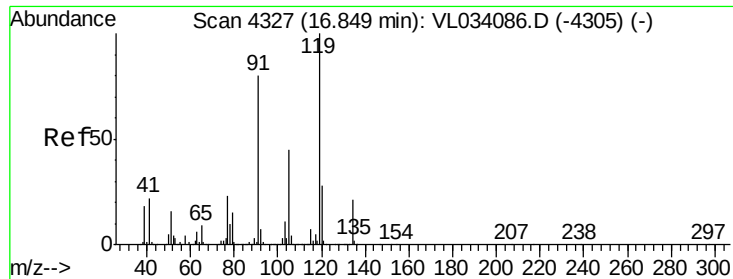
Tgt Ion: 120 Resp: 1349509

Ion Ratio Lower Upper

120 100

91 430.7 359.7 539.5





#65

tert-Butylbenzene

Concen: 12.682 ppbv

RT: 16.86 min Scan# 4329

Delta R.T. 0.01 min

Lab File: VL034092.D

Acq: 5 Aug 2019 16:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:119 Resp: 4156570

Ion Ratio Lower Upper

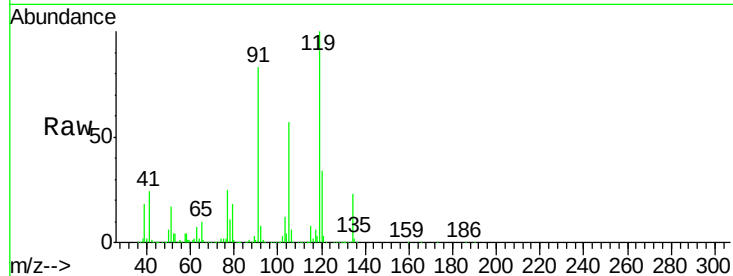
119 100

91 85.9 67.6 101.4

134 21.3 16.0 24.0

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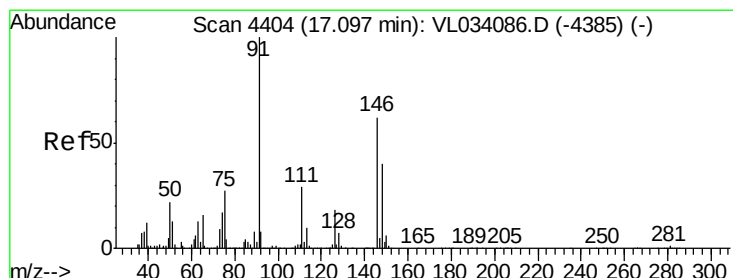
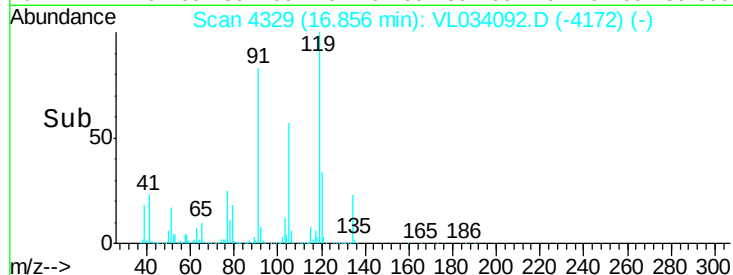
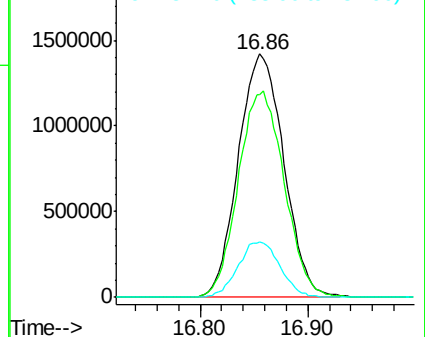
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Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V



#66

Benzyl Chloride

Concen: 17.251 ppbv

RT: 17.10 min Scan# 4406

Delta R.T. 0.01 min

Lab File: VL034092.D

Acq: 5 Aug 2019 16:34

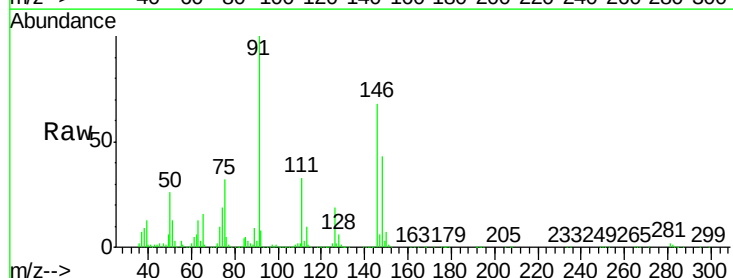
Tgt Ion: 91 Resp: 2764736

Ion Ratio Lower Upper

91 100

126 18.4 14.8 22.2

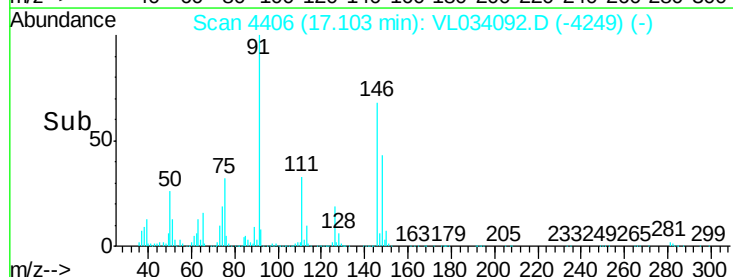
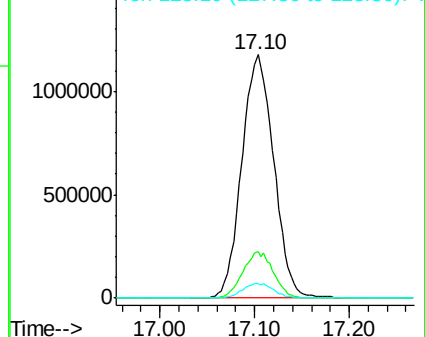
128 5.9 4.8 7.2

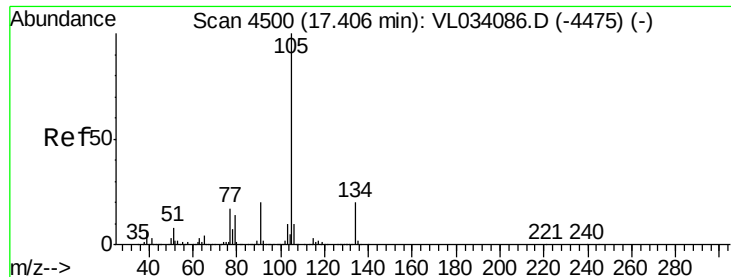


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V





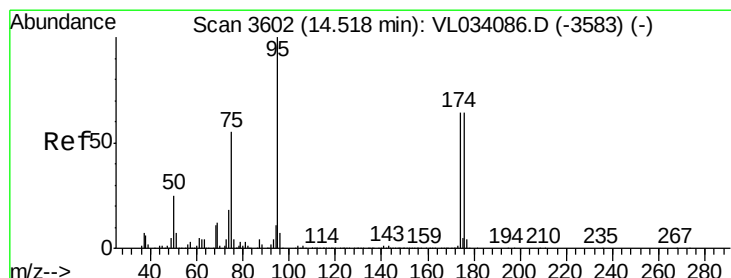
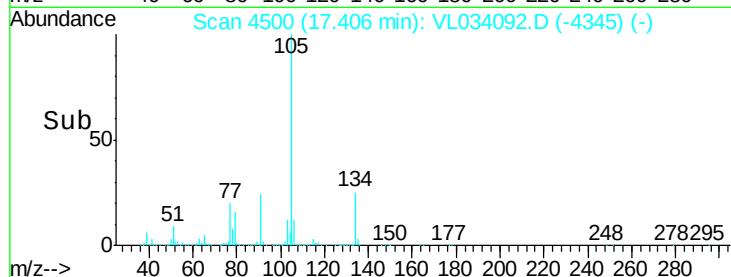
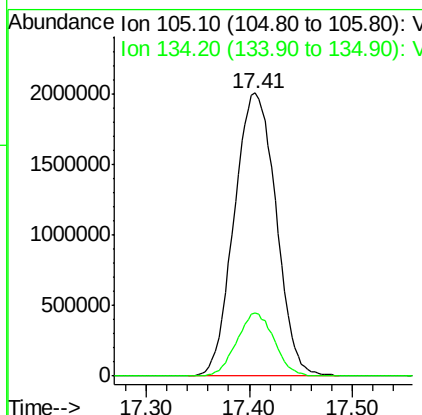
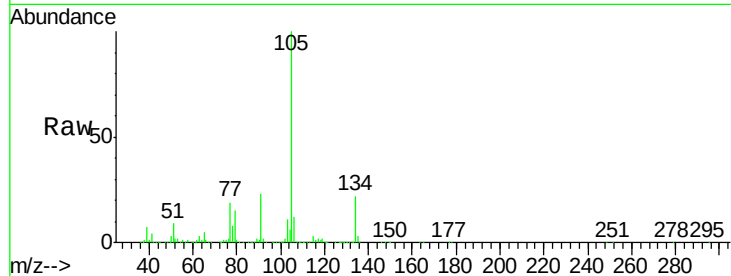
#67
 sec-Butylbenzene
 Concen: 12.039 ppbv
 RT: 17.41 min Scan# 4500
 Delta R.T. -0.00 min
 Lab File: VL034092.D
 Acq: 5 Aug 2019 16:34

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion: 105 Resp: 5653228
 Ion Ratio Lower Upper
 105 100
 134 20.1 15.4 23.2

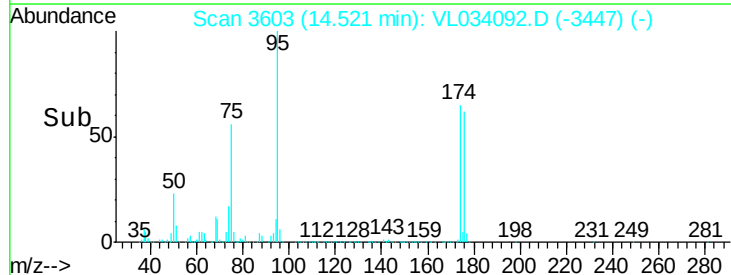
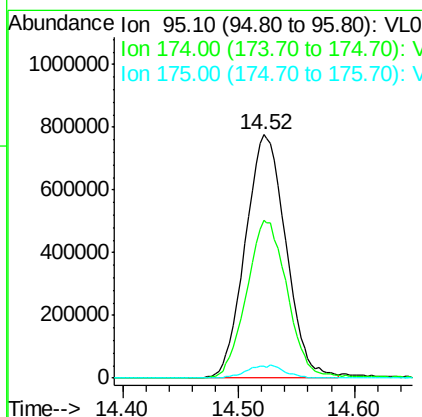
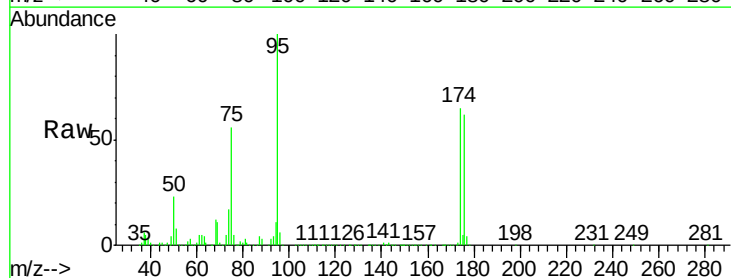
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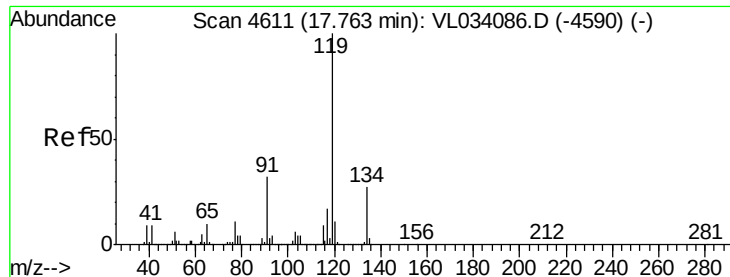
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#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.134 ppbv
 RT: 14.52 min Scan# 3603
 Delta R.T. 0.00 min
 Lab File: VL034092.D
 Acq: 5 Aug 2019 16:34

Tgt Ion: 95 Resp: 1894153
 Ion Ratio Lower Upper
 95 100
 174 65.5 53.0 79.6
 175 5.0 4.2 6.2





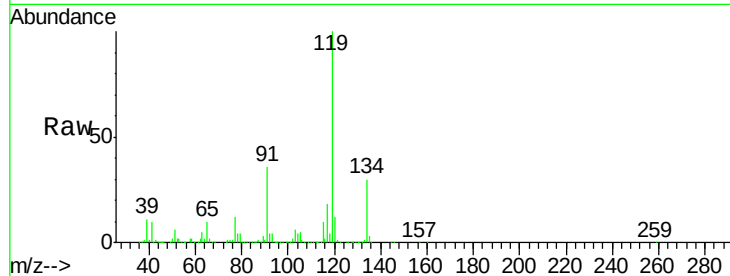
#69
 p-Isopropyltoluene
 Concen: 12.487 ppbv
 RT: 17.76 min Scan# 4611
 Delta R.T. -0.00 min
 Lab File: VL034092.D
 Acq: 5 Aug 2019 16:34

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

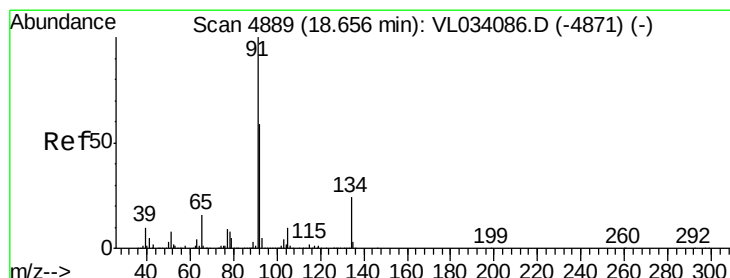
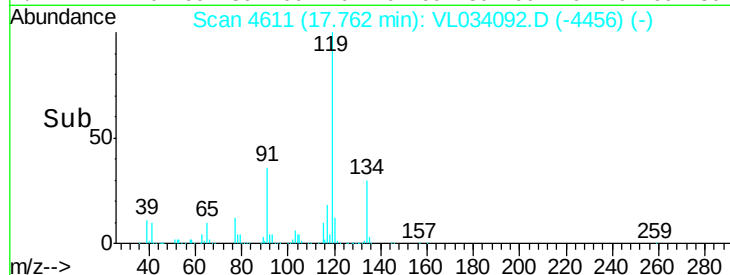
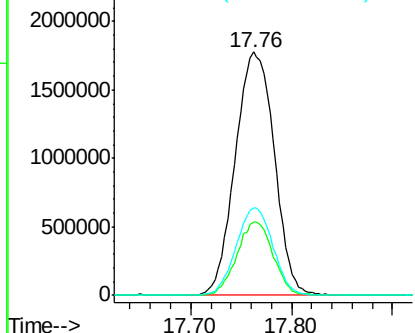
Tot Ion	Ratio	Lower	Upper
119	100		
134	27.9	21.3	31.9
91	33.9	25.4	38.0

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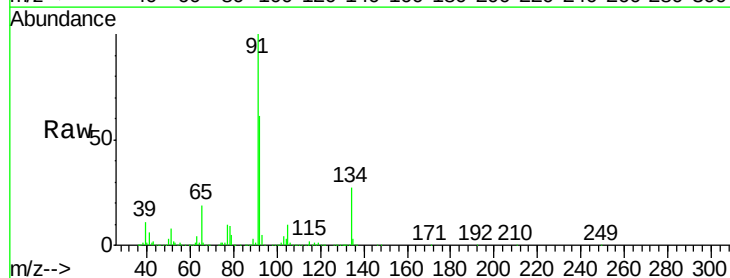


Abundance Ion 119.10 (118.80 to 119.80): V
 Ion 134.20 (133.90 to 134.90): V
 Ion 91.10 (90.80 to 91.80): V

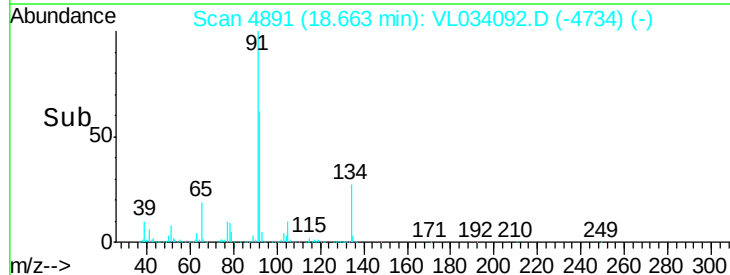
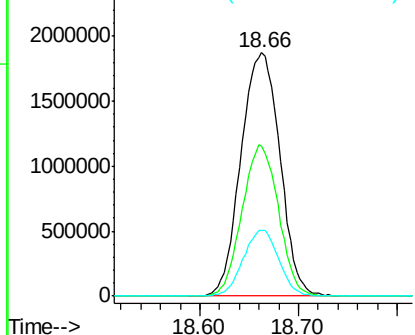


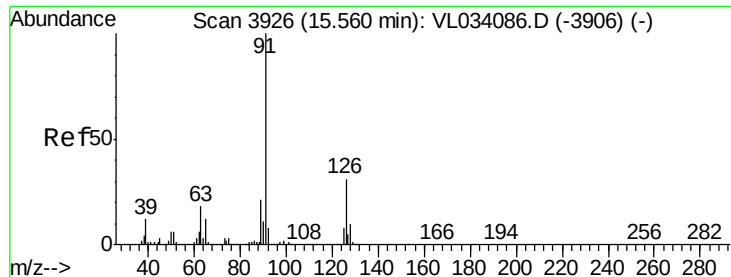
#70
 n-Butylbenzene
 Concen: 12.241 ppbv
 RT: 18.66 min Scan# 4891
 Delta R.T. 0.01 min
 Lab File: VL034092.D
 Acq: 5 Aug 2019 16:34

Tgt Ion	Ratio	Lower	Upper
91	100		
92	58.3	45.9	68.9
134	24.8	19.0	28.4



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: 14.422 ppbv

RT: 15.56 min Scan# 3926

Delta R.T. -0.00 min

Lab File: VL034092.D

Acq: 5 Aug 2019 16:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 91 Resp: 3897509

Ion Ratio Lower Upper

91 100

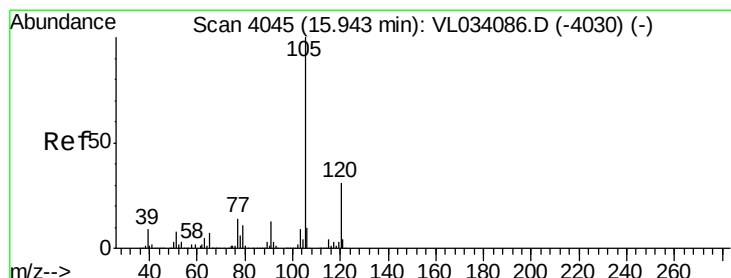
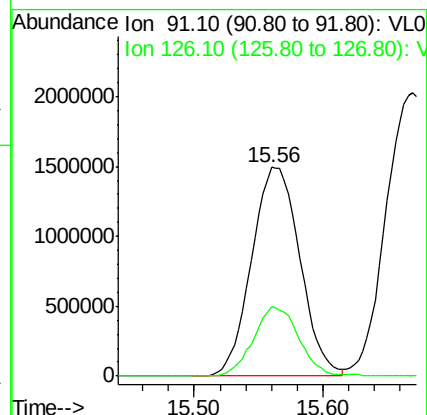
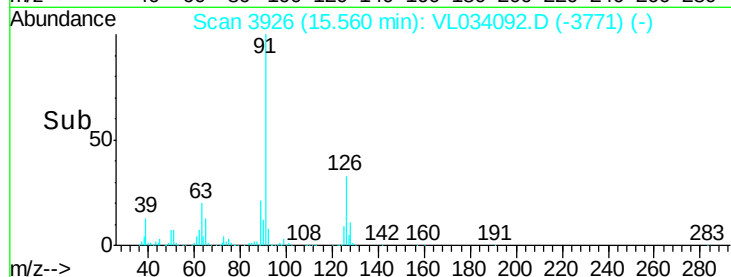
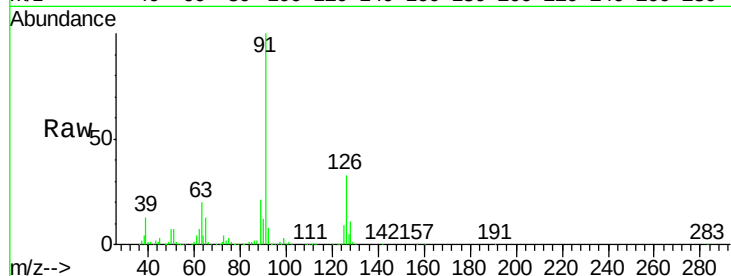
126 31.6 12.2 48.6

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#72

4-Ethyltoluene

Concen: 13.726 ppbv

RT: 15.95 min Scan# 4047

Delta R.T. 0.01 min

Lab File: VL034092.D

Acq: 5 Aug 2019 16:34

Tgt Ion: 105 Resp: 4278287

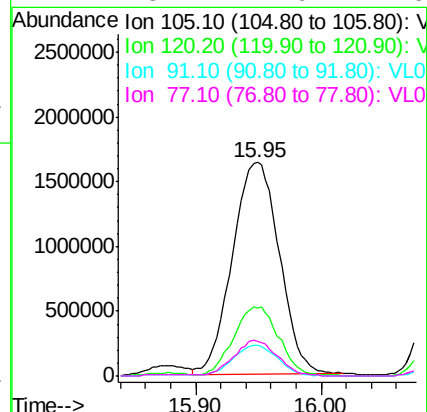
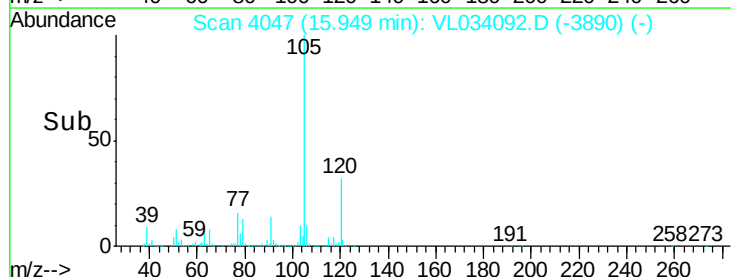
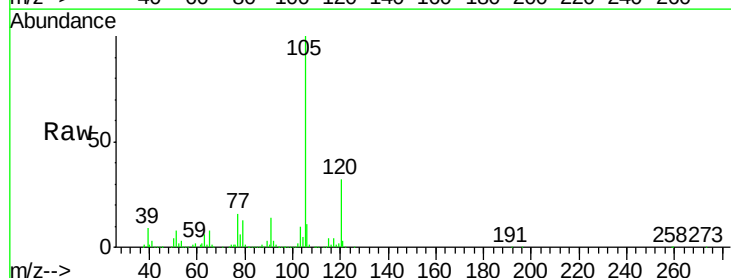
Ion Ratio Lower Upper

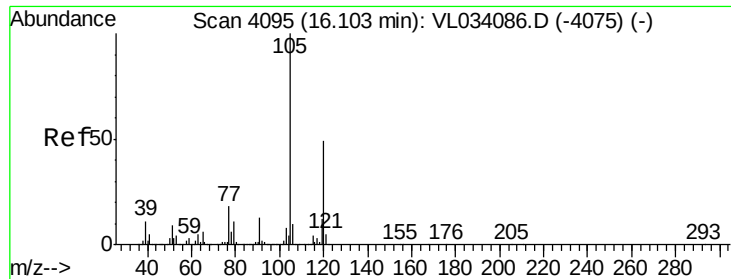
105 100

120 31.8 24.2 36.2

91 14.6 10.5 15.7

77 15.7 11.9 17.9





#73

1,3,5-Trimethylbenzene

Concen: 13.241 ppbv

RT: 16.11 min Scan# 4096

Delta R.T. 0.00 min

Lab File: VL034092.D

Acq: 5 Aug 2019 16:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:105 Resp: 4063567

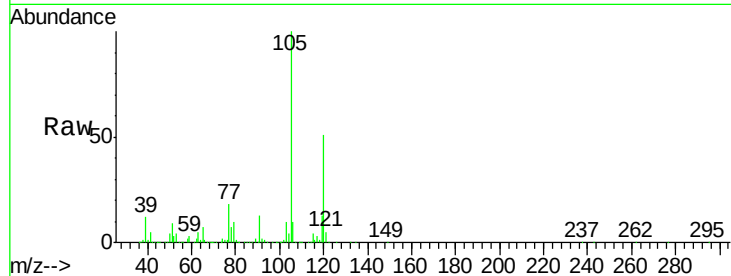
Ion Ratio Lower Upper

105 100

120 51.2 39.0 58.4

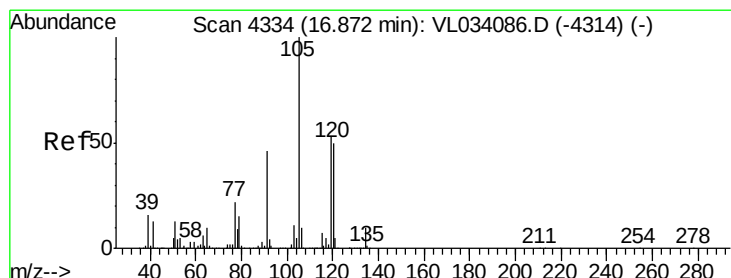
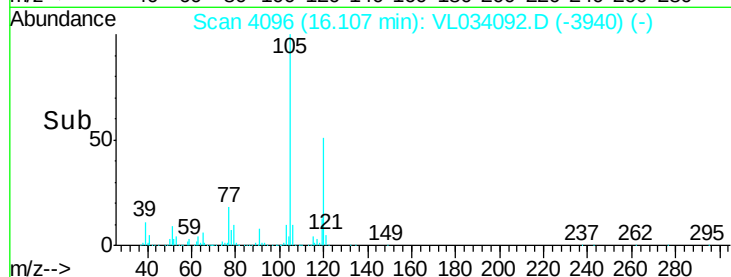
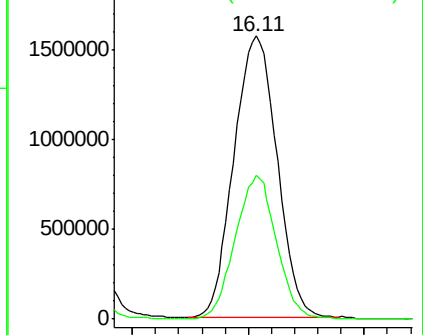
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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 11.907 ppbv

RT: 16.88 min Scan# 4335

Delta R.T. 0.00 min

Lab File: VL034092.D

Acq: 5 Aug 2019 16:34

Tgt Ion:105 Resp: 4043639

Ion Ratio Lower Upper

105 100

120 52.2 40.2 60.4

91 51.1 38.1 57.1

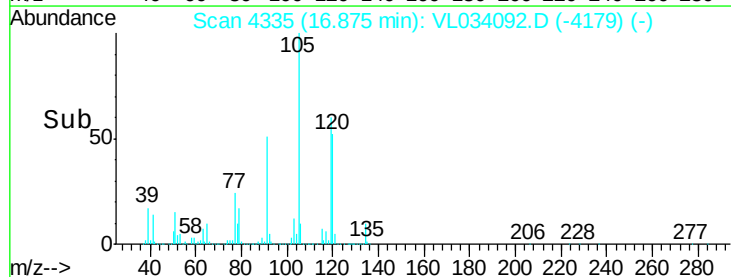
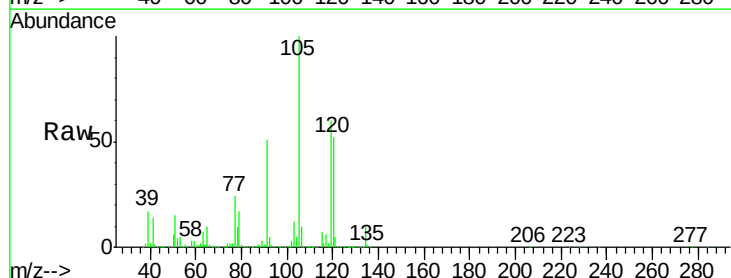
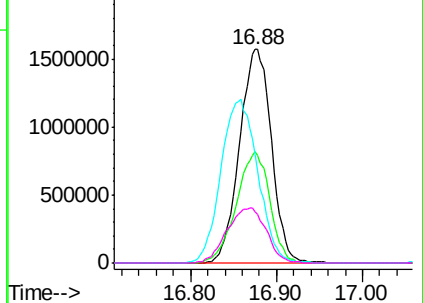
77 24.3 17.8 26.8

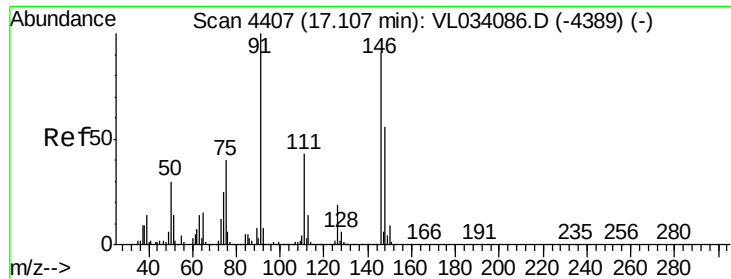
Abundance Ion 105.10 (104.80 to 105.80): V

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: 12.040 ppbv

RT: 17.11 min Scan# 4409

Delta R.T. 0.01 min

Lab File: VL034092.D

Acq: 5 Aug 2019 16:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:146 Resp: 2420834

Ion Ratio Lower Upper

146 100

111 48.4 23.8 71.5

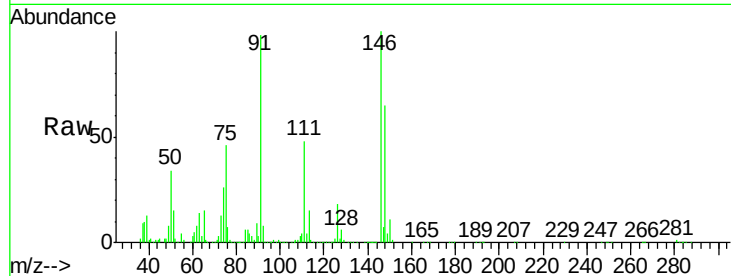
148 65.3 32.4 97.2

Manual Integrations

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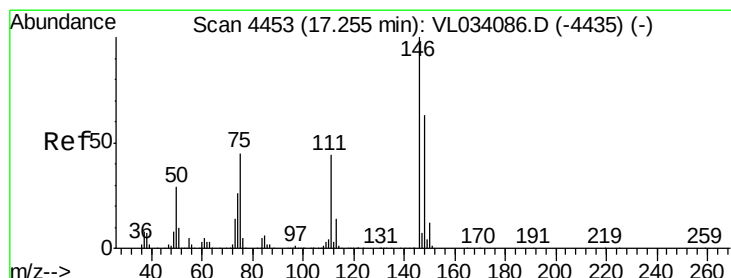
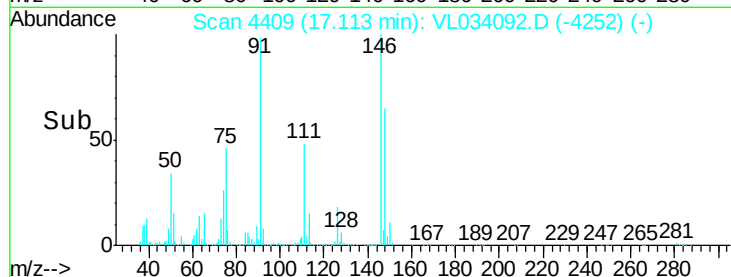
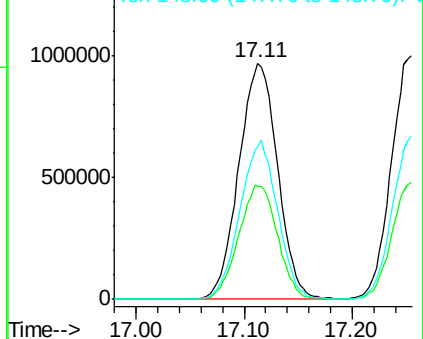
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Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#76

1,4-Dichlorobenzene

Concen: 13.047 ppbv

RT: 17.26 min Scan# 4454

Delta R.T. 0.00 min

Lab File: VL034092.D

Acq: 5 Aug 2019 16:34

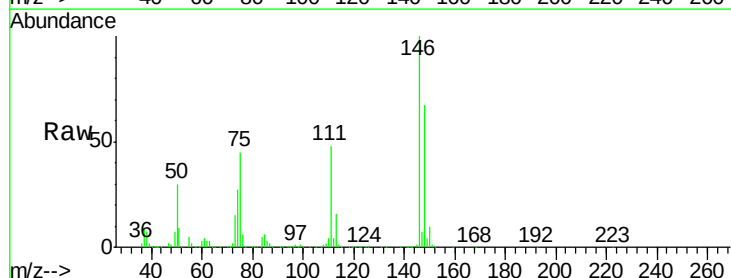
Tgt Ion:146 Resp: 2477123

Ion Ratio Lower Upper

146 100

111 47.1 23.2 69.5

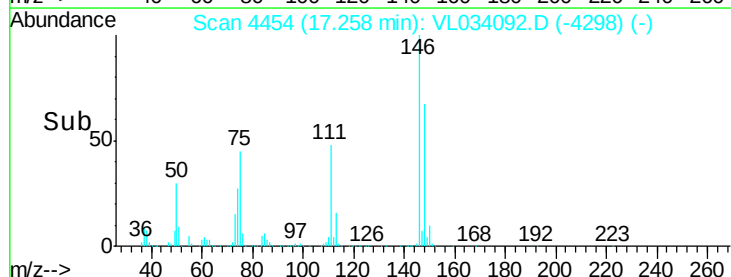
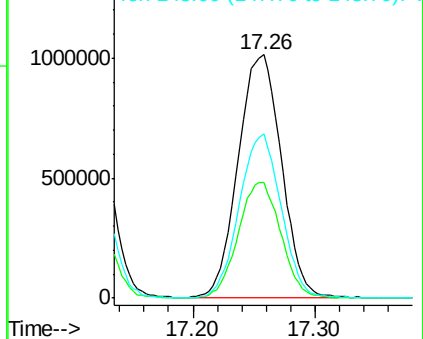
148 65.6 32.1 96.5

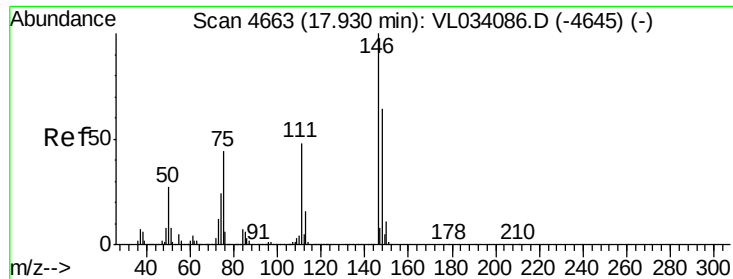


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V





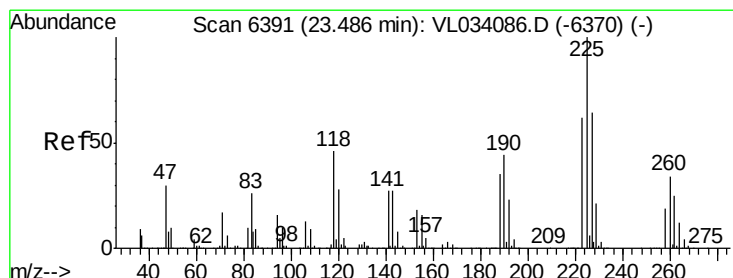
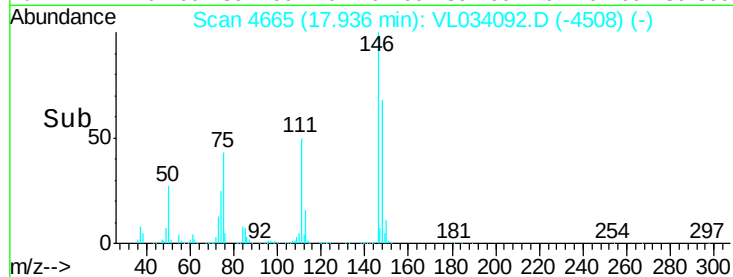
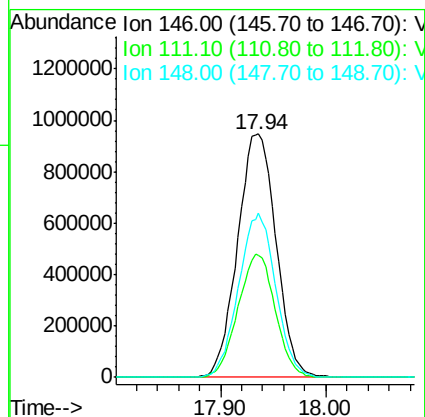
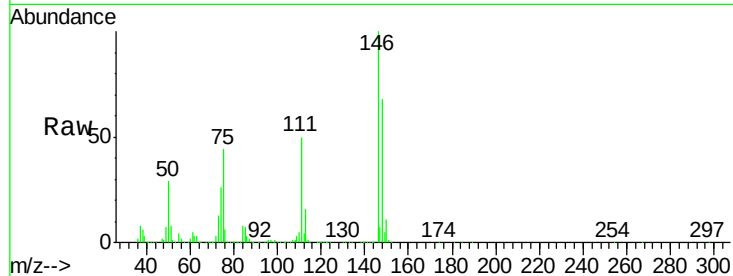
#77
 1,2-Dichlorobenzene
 Concen: 12.714 ppbv
 RT: 17.94 min Scan# 4665
 Delta R.T. 0.01 min
 Lab File: VL034092.D
 Acq: 5 Aug 2019 16:34

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion:146 Resp: 2400824
 Ion Ratio Lower Upper
 146 100
 111 49.1 24.0 72.0
 148 65.2 31.9 95.7

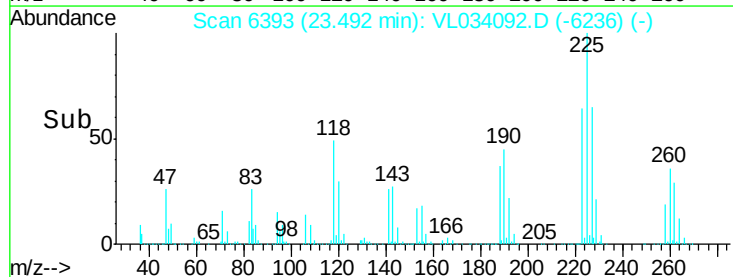
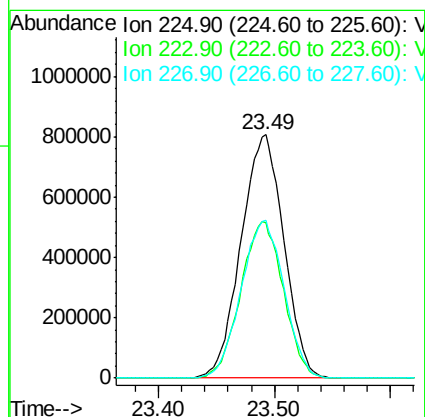
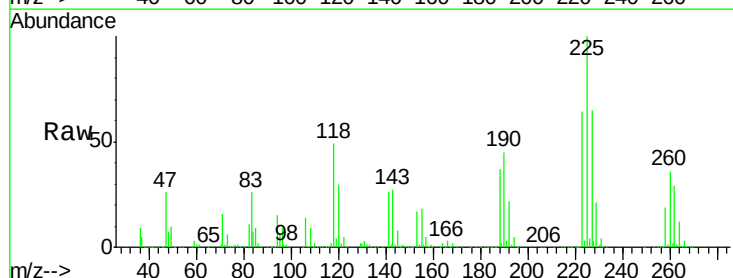
Manual Integrations
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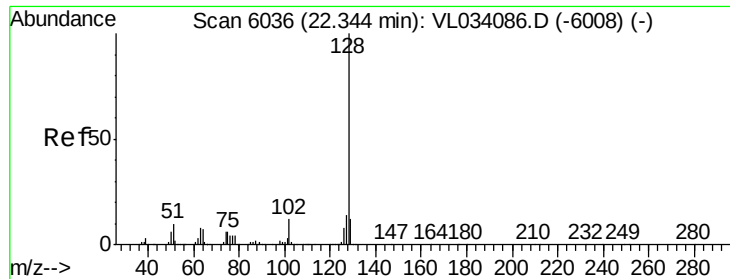
MMDadoda
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#78
 Hexachloro-1,3-Butadiene
 Concen: 11.979 ppbv
 RT: 23.49 min Scan# 6393
 Delta R.T. 0.01 min
 Lab File: VL034092.D
 Acq: 5 Aug 2019 16:34

Tgt Ion:225 Resp: 2075330
 Ion Ratio Lower Upper
 225 100
 223 63.9 50.8 76.2
 227 65.1 52.2 78.2





#79

Naphthalene

Concen: 14.333 ppbv

RT: 22.34 min Scan# 6036

Delta R.T. -0.00 min

Lab File: VL034092.D

Acq: 5 Aug 2019 16:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:128 Resp: 4357822

Ion Ratio Lower Upper

128 100

127 15.0 11.0 16.6

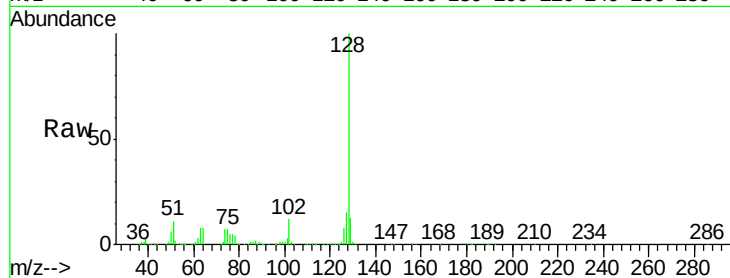
129 12.8 9.2 13.8

Manual Integrations

APPROVED

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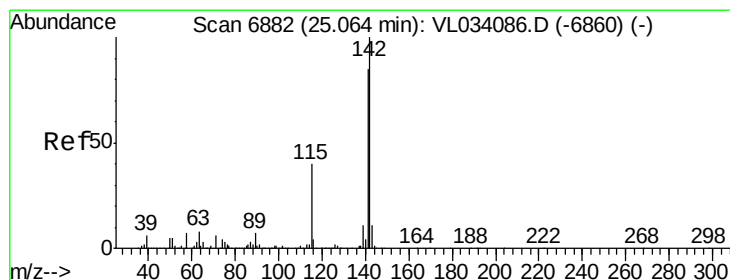
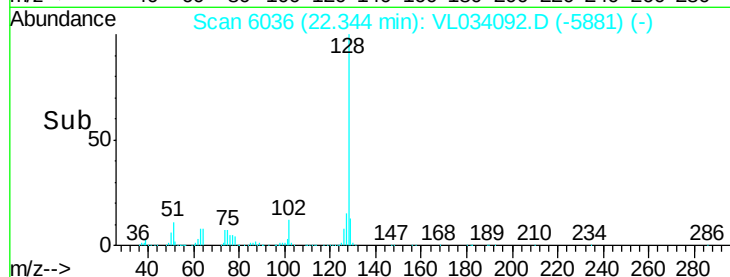
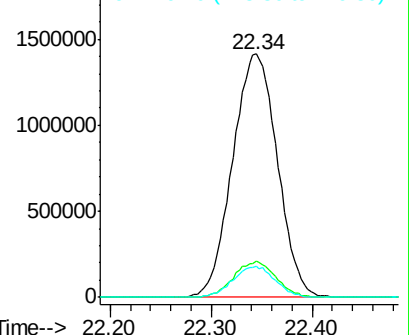
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Abundance Ion 128.10 (127.80 to 128.80): V

Ion 127.10 (126.80 to 127.80): V

Ion 129.10 (128.80 to 129.80): V



#80

Naphthalene, 2-methyl-

Concen: 20.413 ppbv

RT: 25.07 min Scan# 6883

Delta R.T. 0.00 min

Lab File: VL034092.D

Acq: 5 Aug 2019 16:34

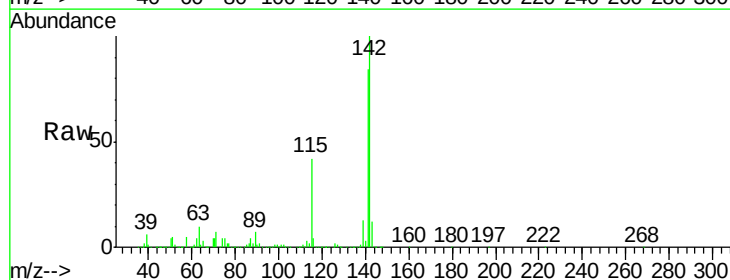
Tgt Ion:142 Resp: 2381836

Ion Ratio Lower Upper

142 100

141 84.7 66.1 99.1

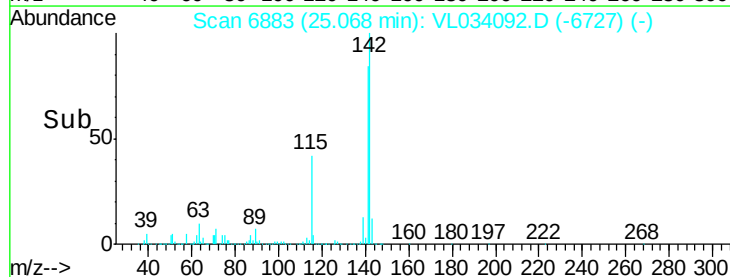
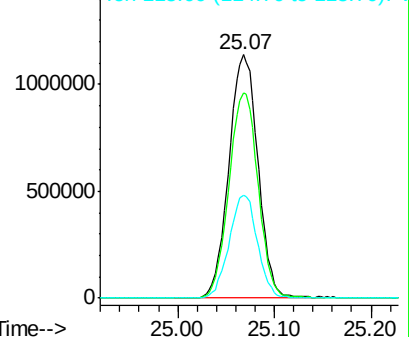
115 41.1 30.8 46.2

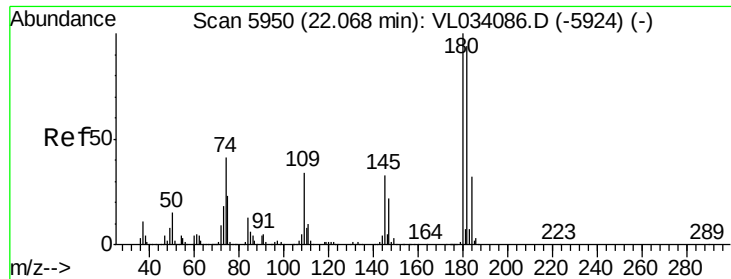


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V





#81
 1,2,4-Trichlorobenzene
 Concen: 12.787 ppbv
 RT: 22.07 min Scan# 5950
 Delta R.T. -0.00 min
 Lab File: VL034092.D
 Acq: 5 Aug 2019 16:34

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion	Ratio	Lower	Upper
180	100		
182	96.3	76.7	115.1
184	31.6	25.0	37.4

Manual Integrations
 APPROVED

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