

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL111418\
 Data File : VL032773.D
 Acq On : 15 Nov 2018 00:19
 Operator : SY/AP
 Sample : VL1114ABS05
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1114ABS05

Manual Integrations
 APPROVED

MMDadoda
 11/16/2018 1:30:16 PM

Quant Time: Nov 15 07:24:46 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL111418AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Nov 14 07:24:46 2018
 QLast Update : Wed Nov 14 07:00:23 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.77	49	1584230	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.30	114	4086572	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	4012320m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	2875137	9.58	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.80%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.08	85	1997570	8.772	ppbv 98
3) Chlorodifluoromethane	3.02	51	1151764	9.170	ppbv 98
4) Chloromethane	3.17	50	652293	9.366	ppbv 100
5) Vinyl Chloride	3.30	62	656301	8.893	ppbv 99
6) Bromomethane	3.52	94	413784	9.166	ppbv 93
7) Chloroethane	3.61	64	248988	9.361	ppbv 99
8) Dichlorotetrafluoroethane	3.22	85	1573899	8.771	ppbv 99
9) Propene	3.04	41	509204	10.131	ppbv 99
10) Heptane	8.25	43	1963332	10.232	ppbv 98
11) Trichlorofluoromethane	4.01	101	2520168	11.743	ppbv 100
12) 1,1,2-Trichlorotrifluoroet	4.56	101	1488139	8.489	ppbv 99
13) Ethanol	3.66	45	110045	6.684	ppbv 99
14) Bromoethene	3.79	108	544625	9.365	ppbv 100
15) Acetone	3.91	43	1122341	7.758	ppbv 99
16) 1,3-Butadiene	3.37	39	551646	9.846	ppbv 95
17) tert-Butyl alcohol	4.36	59	461491	10.170	ppbv 100
18) 1,1-Dichloroethene	4.36	96	821303	9.528	ppbv 99
19) Isopropyl Alcohol	4.03	45	1193249	12.381	ppbv 100
20) Methylene Chloride	4.42	84	688802	9.197	ppbv 99
21) Allyl Chloride	4.48	41	1279250	10.522	ppbv 99
22) trans-1,2-Dichloroethene	4.97	96	751863	8.933	ppbv 98
23) Vinyl Acetate	5.16	43	2672007	10.132	ppbv 99
24) 1,1-Dichloroethane	5.10	63	1962105	9.358	ppbv 99
25) Ethyl Acetate	5.78	43	3190050	9.461	ppbv 100
26) Hexane	5.79	57	1463534	9.750	ppbv 99
27) Carbon Disulfide	4.62	76	1945583	10.222	ppbv 100
28) Methyl tert-Butyl Ether	5.12	73	2468295	10.312	ppbv 100
29) Chloroform	5.86	83	2412677	9.018	ppbv 94
30) Cyclohexane	7.25	84	1368270	10.422	ppbv 98
31) cis-1,2-Dichloroethene	5.65	61	1535768	10.176	ppbv 99
32) 1,1,1-Trichloroethane	6.63	97	2598653	8.862	ppbv 99
34) 2-Butanone	5.34	43	2071698	9.774	ppbv 100
35) Carbon Tetrachloride	7.14	117	2778192	8.457	ppbv 100
36) Benzene	7.01	78	3254441	10.001	ppbv 99
37) 1,2-Dichloroethane	6.42	62	1977521	9.027	ppbv 99
38) Trichloroethene	7.97	130	1245845	9.460	ppbv 96
39) 1,2-Dichloropropane	7.74	63	1207864	9.742	ppbv 97
40) 1,4-Dioxane	7.96	88	431225m	9.738	ppbv
41) Tetrahydrofuran	6.16	42	1281895	10.544	ppbv 100
42) Bromodichloromethane	7.92	83	2760969	9.298	ppbv 99
43) Methyl Methacrylate	8.15	69	1286966	10.593	ppbv 99

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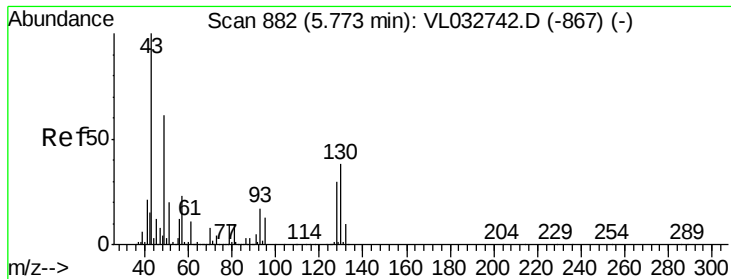
Manual Integrations
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 11/16/2018 1:30:16 PM

Quant Time: Nov 15 07:24:46 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL111418AIR.M
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.00	57	5315069	9.774	ppbv	99
45) t-1,3-Dichloropropene	9.42	75	1861336	11.418	ppbv	97
46) cis-1,3-Dichloropropene	8.84	75	2141342	10.872	ppbv	98
47) 1,1,2-Trichloroethane	9.62	97	1385159	9.448	ppbv	98
48) Dibromochloromethane	10.46	129	2311809	9.278	ppbv	99
49) Bromoform	13.21	173	1855552	9.017	ppbv	99
50) 4-Methyl-2-Pentanone	8.88	43	3306499	9.988	ppbv	100
51) 2-Hexanone	10.28	43	2329042	10.920	ppbv #	99
52) Tetrachloroethene	11.38	164	1112214	9.825	ppbv	98
53) Toluene	9.96	91	3665020	10.796	ppbv	100
54) 1,2-Dibromoethane	10.77	107	2017950	9.737	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.29	131	1608120	8.593	ppbv #	59
57) Chlorobenzene	12.31	112	2713005	8.833	ppbv	100
58) Ethyl Benzene	12.87	91	4832792	10.008	ppbv	99
59) m/p-Xylene	13.16	91	8001247m	18.614	ppbv	
60) o-Xylene	13.86	91	3848292	8.903	ppbv	100
61) Styrene	13.69	104	2902183	10.315	ppbv	99
62) Isopropylbenzene	14.83	105	5414451	9.268	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.84	83	2560524	7.599	ppbv	99
64) n-propylbenzene	15.73	120	1366629	8.893	ppbv	100
65) tert-Butylbenzene	16.92	119	4650927	8.881	ppbv	99
66) Benzyl Chloride	17.16	91	2663290	9.199	ppbv	100
67) sec-Butylbenzene	17.47	105	6575972	8.713	ppbv	100
69) p-Isopropyltoluene	17.82	119	5460866	9.100	ppbv	99
70) n-Butylbenzene	18.72	91	5611709	9.209	ppbv	100
71) 2-Chlorotoluene	15.62	91	4047554	9.290	ppbv	100
72) 4-Ethyltoluene	16.01	105	4348220	9.178	ppbv	99
73) 1,3,5-Trimethylbenzene	16.17	105	4146164	8.951	ppbv	98
74) 1,2,4-Trimethylbenzene	16.93	105	4205399	8.484	ppbv	97
75) 1,3-Dichlorobenzene	17.17	146	2379654	8.370	ppbv	99
76) 1,4-Dichlorobenzene	17.32	146	2358653	8.881	ppbv	99
77) 1,2-Dichlorobenzene	17.99	146	2325741	8.842	ppbv	100
78) Hexachloro-1,3-Butadiene	23.55	225	1298418	9.146	ppbv	99
79) Naphthalene	22.42	128	4166509	12.796	ppbv	99
80) Naphthalene, 2-methyl-	25.12	142	1037314	12.720	ppbv	98
81) 1,2,4-Trichlorobenzene	22.15	180	1956584	11.966	ppbv	100

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.77 min Scan# 881

Delta R.T. -0.00 min

Lab File: VL032773.D

Acq: 15 Nov 2018 00:19

Instrument :

MSVOA_L

ClientSampleId :

VL1114ABS05

Tot Ion: 49 Resp: 1584230

Ion Ratio Lower Upper

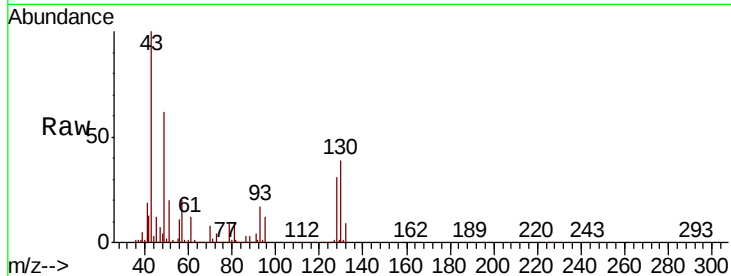
49 100

128 50.2 24.9 74.6

130 63.9 31.4 94.2

Manual Integrations
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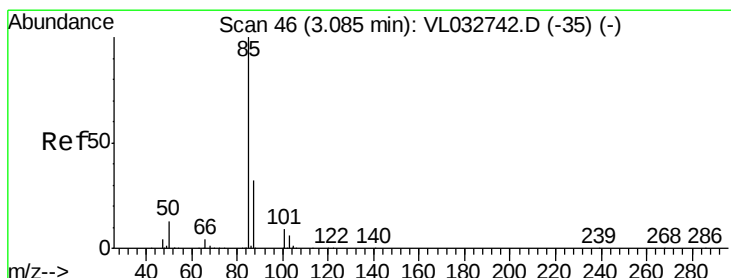
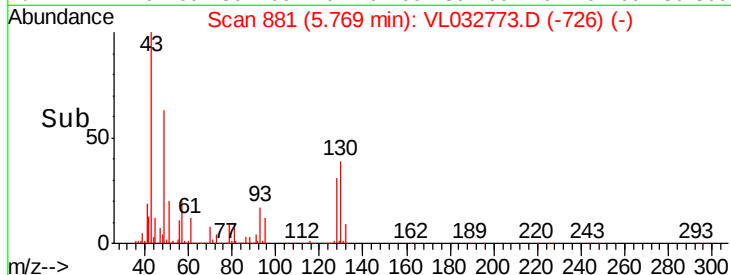
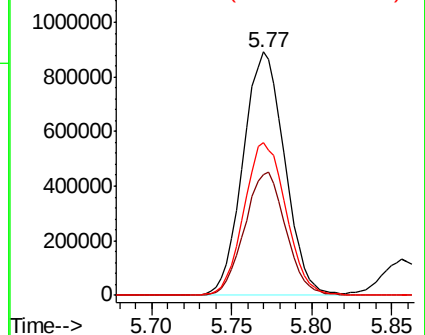
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 8.772 ppbv

RT: 3.08 min Scan# 45

Delta R.T. -0.00 min

Lab File: VL032773.D

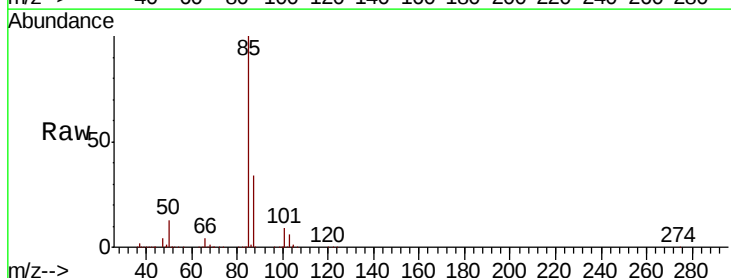
Acq: 15 Nov 2018 00:19

Tgt Ion: 85 Resp: 1997570

Ion Ratio Lower Upper

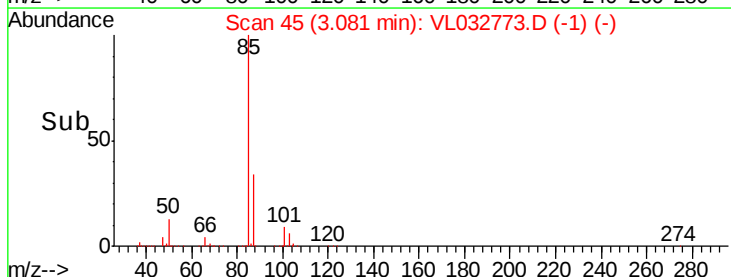
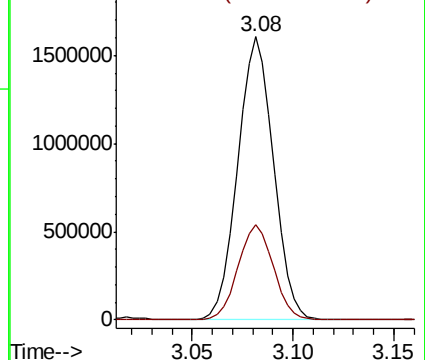
85 100

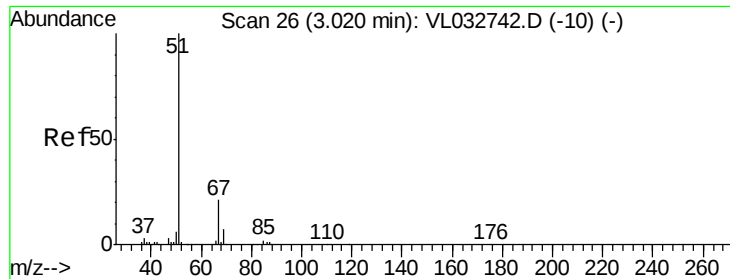
87 33.6 26.0 39.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 9.170 ppbv

RT: 3.02 min Scan# 25

Delta R.T. -0.00 min

Lab File: VL032773.D

Acq: 15 Nov 2018 00:19

Tot Ion: 51 Resp: 1151764

Ion Ratio Lower Upper

51 100

67 19.2 16.1 24.1

Instrument :

MSVOA_L

ClientSampleId :

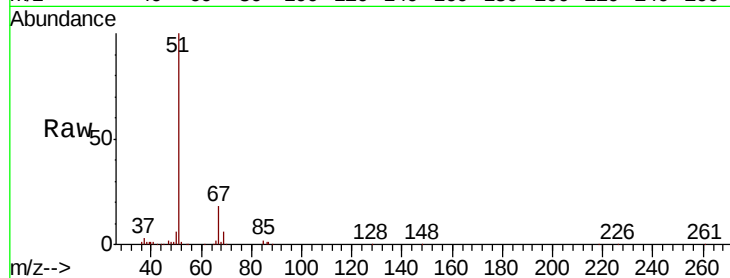
VL1114ABS05

Manual Integrations

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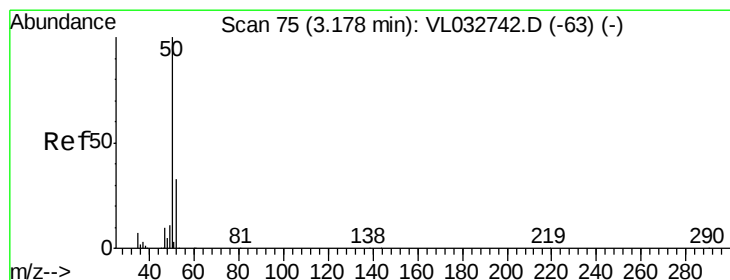
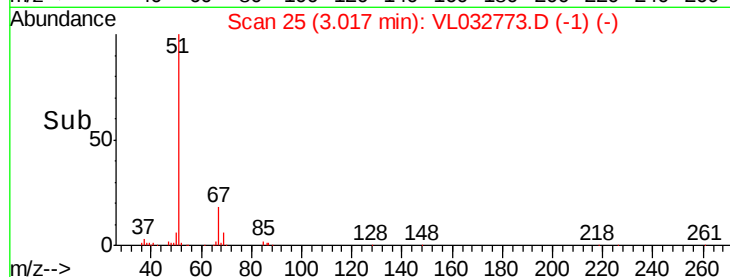
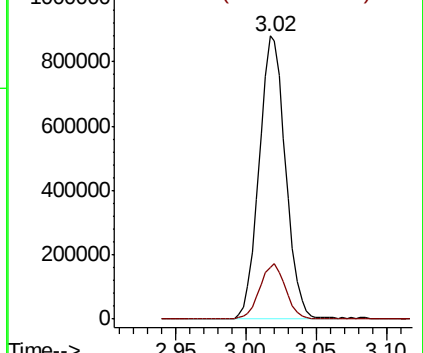
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 9.366 ppbv

RT: 3.17 min Scan# 74

Delta R.T. -0.00 min

Lab File: VL032773.D

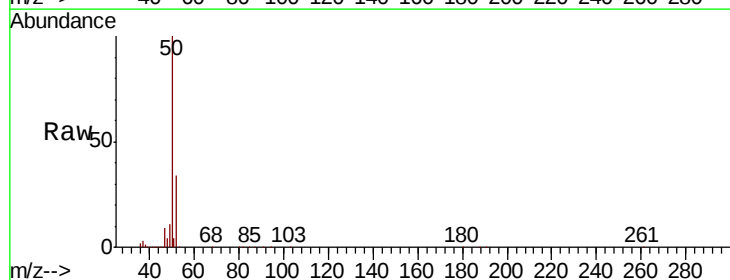
Acq: 15 Nov 2018 00:19

Tgt Ion: 50 Resp: 652293

Ion Ratio Lower Upper

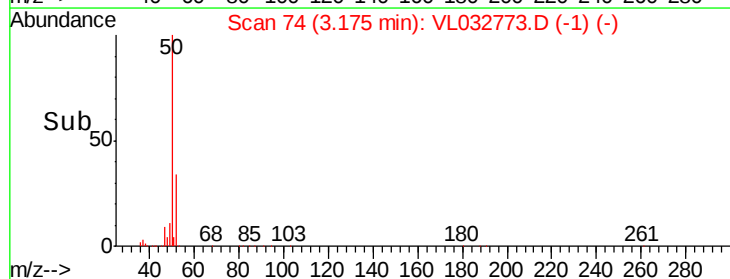
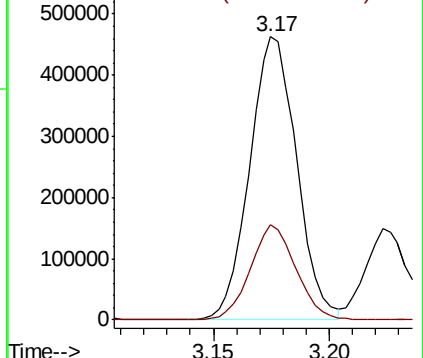
50 100

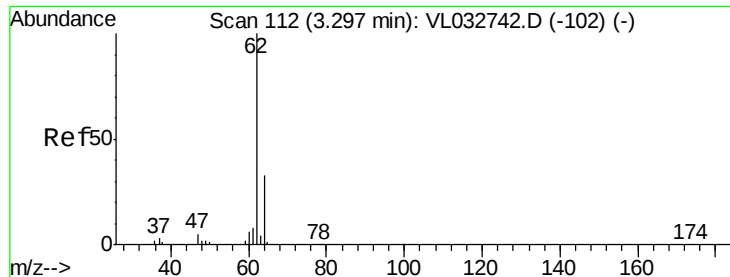
52 33.6 26.6 40.0



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 8.893 ppbv

RT: 3.30 min Scan# 112

Delta R.T. -0.00 min

Lab File: VL032773.D

Acq: 15 Nov 2018 00:19

Instrument :

MSVOA_L

ClientSampleId :

VL1114ABS05

Tot Ion: 62 Resp: 656301

Ion Ratio Lower Upper

62 100

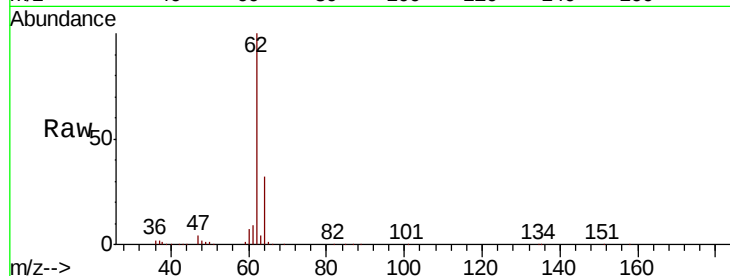
64 32.1 26.2 39.4

Manual Integrations

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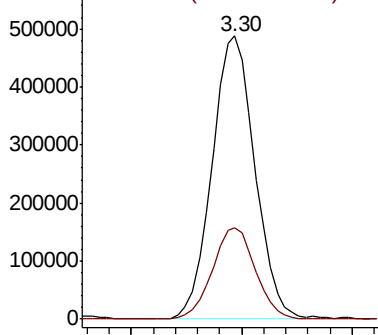
MMDadoda

11/16/2018 1:30:16 PM

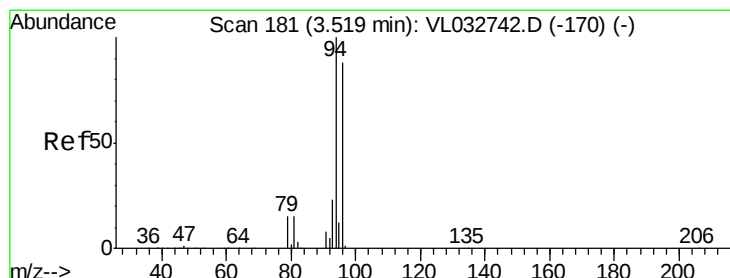
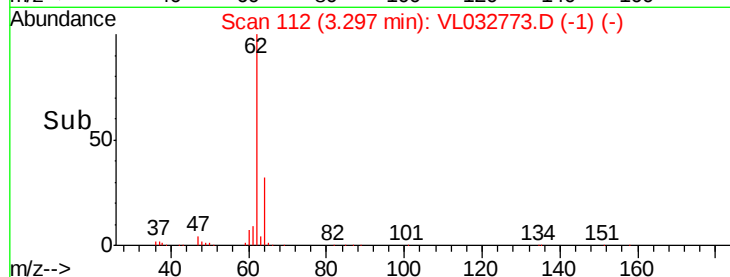


Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



Time-->



#6

Bromomethane

Concen: 9.166 ppbv

RT: 3.52 min Scan# 181

Delta R.T. -0.00 min

Lab File: VL032773.D

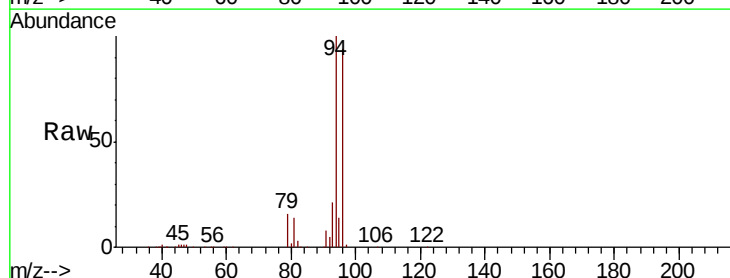
Acq: 15 Nov 2018 00:19

Tgt Ion: 94 Resp: 413784

Ion Ratio Lower Upper

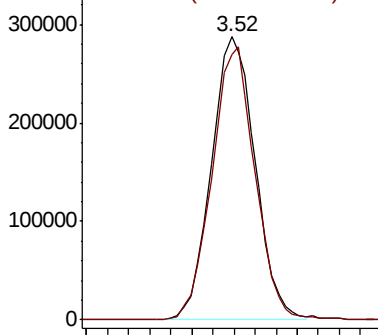
94 100

96 93.7 70.2 105.2

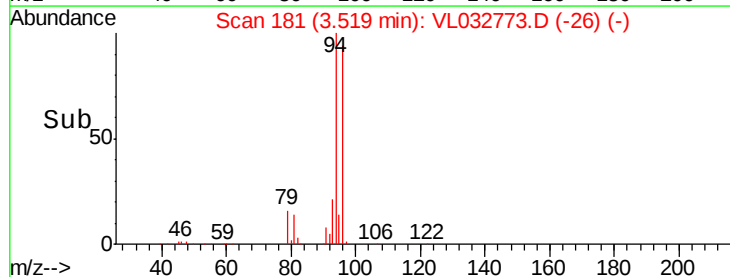


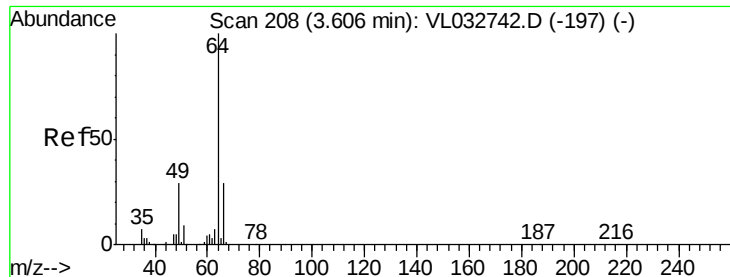
Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0



Time-->





#7

Chloroethane

Concen: 9.361 ppbv

RT: 3.61 min Scan# 208

Delta R.T. -0.00 min

Lab File: VL032773.D

Acq: 15 Nov 2018 00:19

Instrument :

MSVOA_L

ClientSampleId :

VL1114ABS05

Tot Ion: 64 Resp: 248988

Ion Ratio Lower Upper

64 100

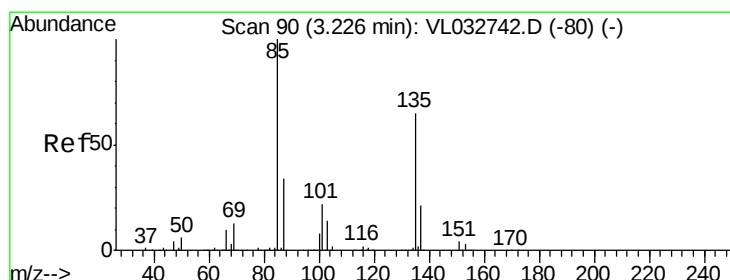
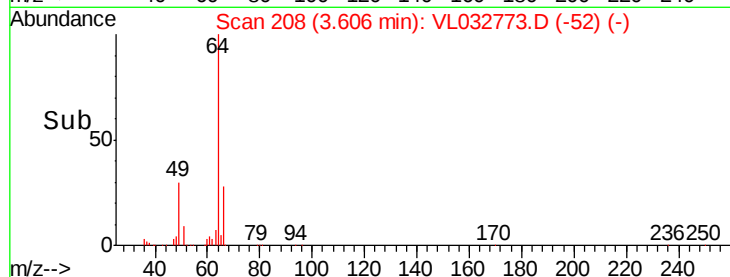
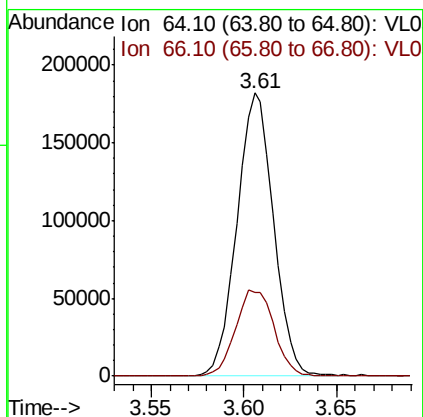
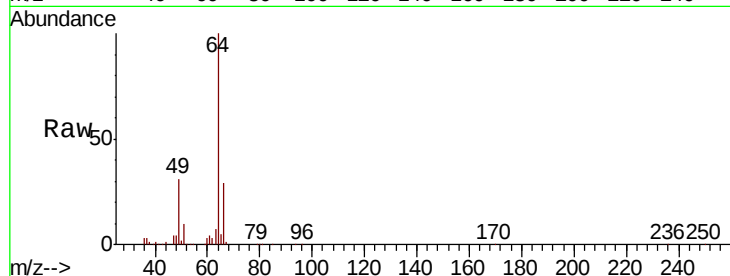
66 29.4 23.2 34.8

Manual Integrations

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#8

Dichlorotetrafluoroethane

Concen: 8.771 ppbv

RT: 3.22 min Scan# 89

Delta R.T. -0.00 min

Lab File: VL032773.D

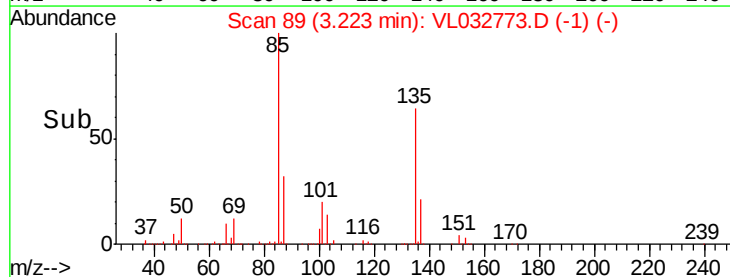
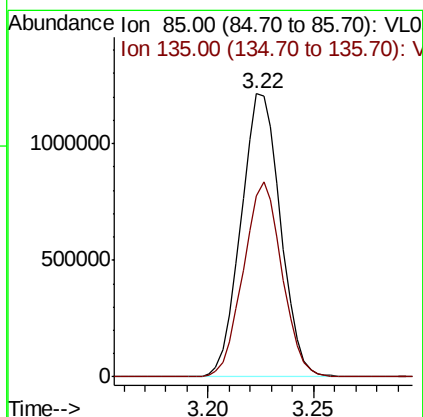
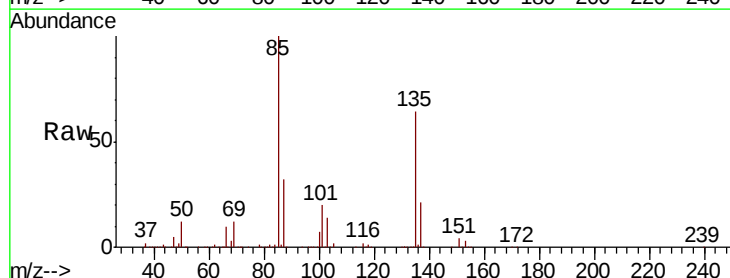
Acq: 15 Nov 2018 00:19

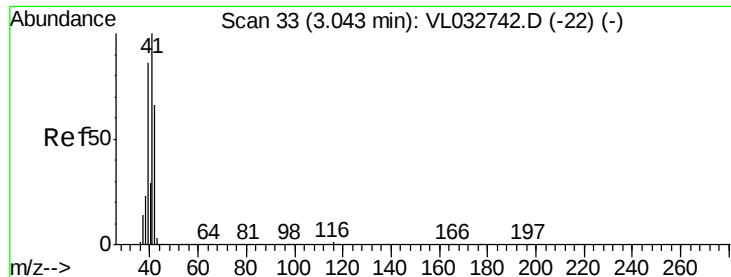
Tgt Ion: 85 Resp: 1573899

Ion Ratio Lower Upper

85 100

135 67.7 53.8 80.8





#9

Propene

Concen: 10.131 ppbv

RT: 3.04 min Scan# 32

Delta R.T. -0.00 min

Lab File: VL032773.D

Acq: 15 Nov 2018 00:19

Instrument :

MSVOA_L

ClientSampleId :

VL1114ABS05

Tot Ion: 41 Resp: 509204

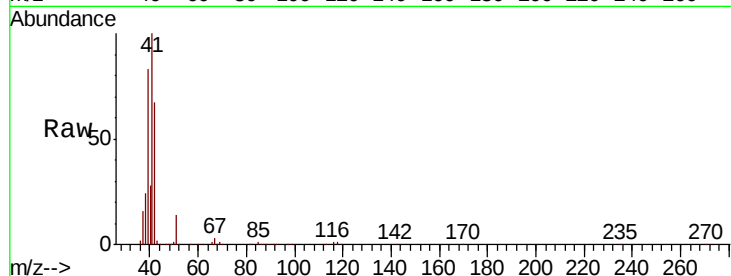
Ion Ratio Lower Upper

41 100

42 67.8 55.0 82.6

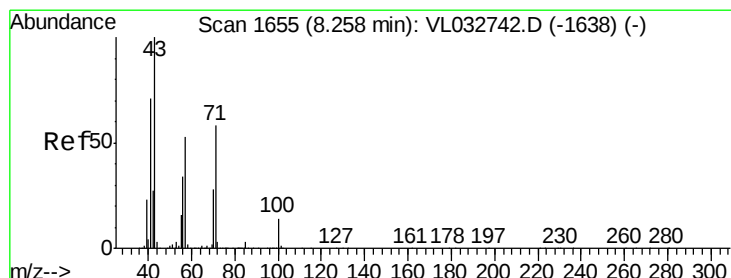
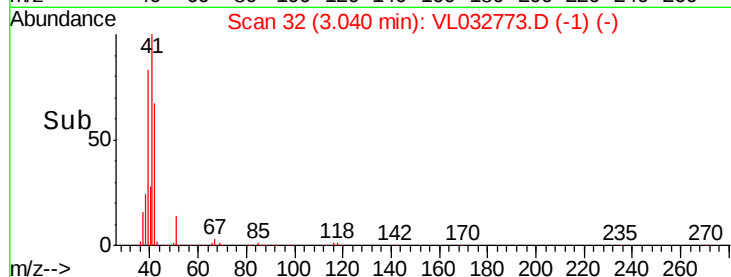
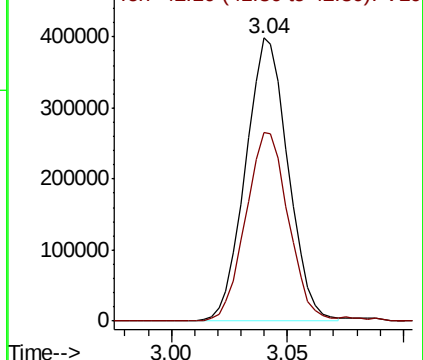
Manual Integrations
APPROVED

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11/16/2018 1:30:16 PM



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#10

Heptane

Concen: 10.232 ppbv

RT: 8.25 min Scan# 1654

Delta R.T. -0.00 min

Lab File: VL032773.D

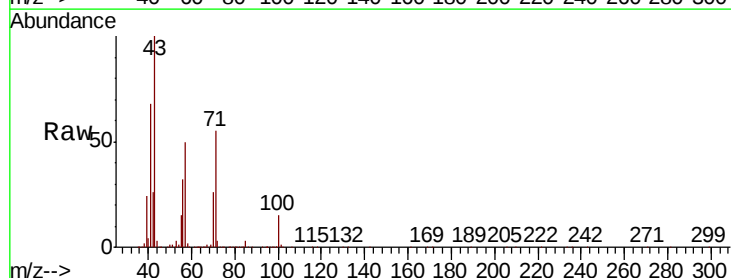
Acq: 15 Nov 2018 00:19

Tgt Ion: 43 Resp: 1963332

Ion Ratio Lower Upper

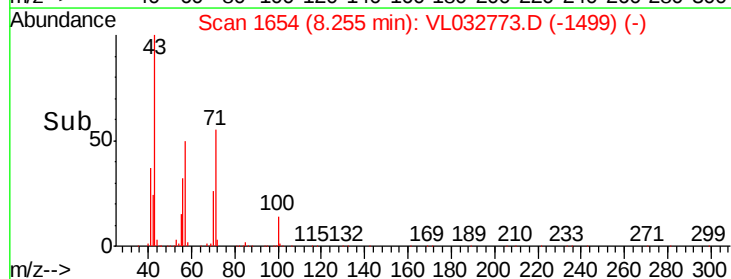
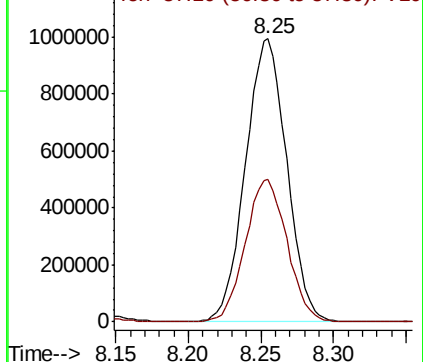
43 100

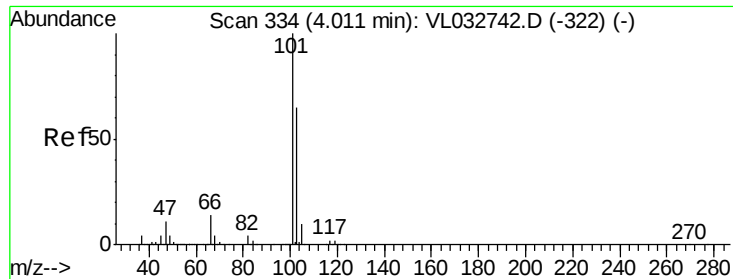
57 50.9 41.8 62.8



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





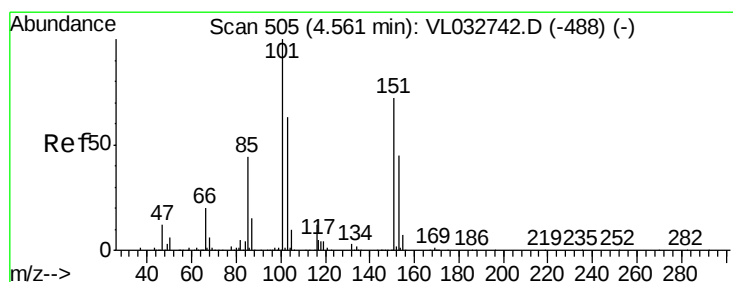
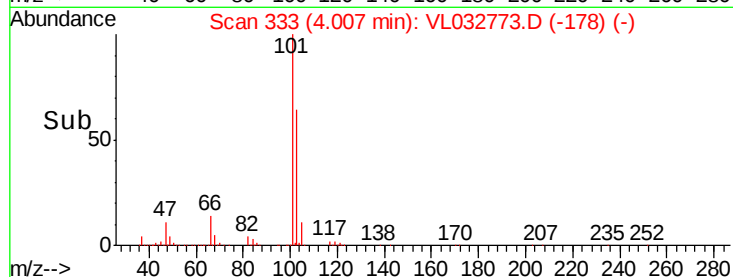
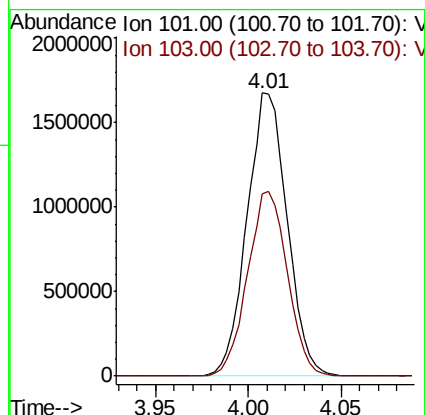
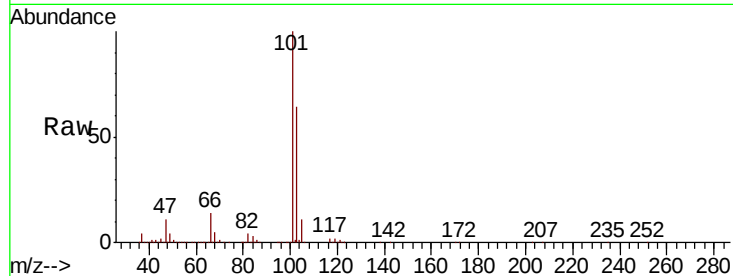
#11
 Trichlorofluoromethane
 Concen: 11.743 ppbv
 RT: 4.01 min Scan# 333
 Delta R.T. -0.00 min
 Lab File: VL032773.D
 Acq: 15 Nov 2018 00:19

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1114ABS05

Tot Ion:101 Resp: 2520168
 Ion Ratio Lower Upper
 101 100
 103 64.2 51.6 77.4

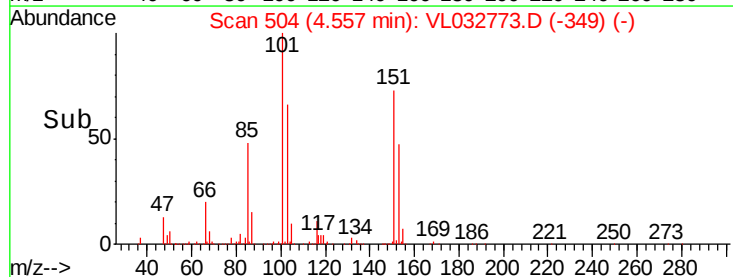
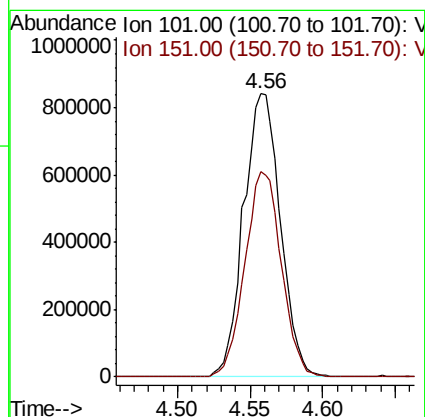
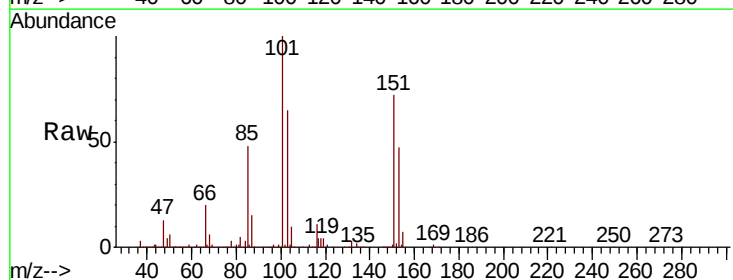
Manual Integrations
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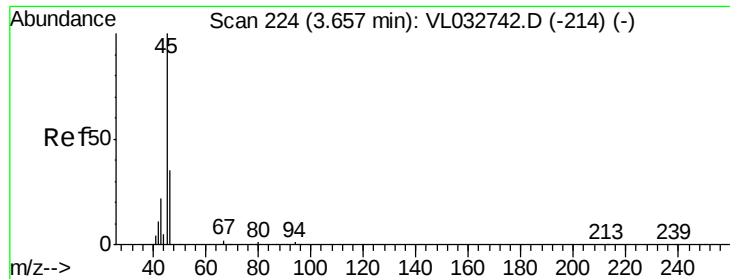
MMDadoda
 11/16/2018 1:30:16 PM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 8.489 ppbv
 RT: 4.56 min Scan# 504
 Delta R.T. -0.00 min
 Lab File: VL032773.D
 Acq: 15 Nov 2018 00:19

Tgt Ion:101 Resp: 1488139
 Ion Ratio Lower Upper
 101 100
 151 72.1 56.7 85.1





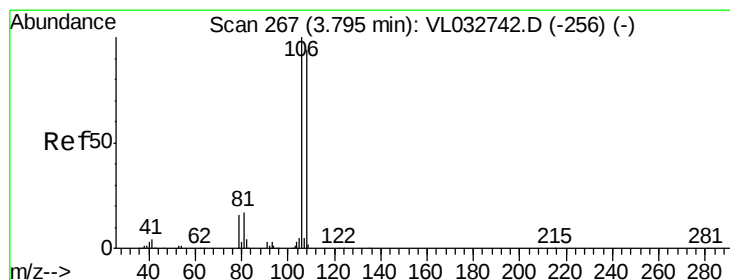
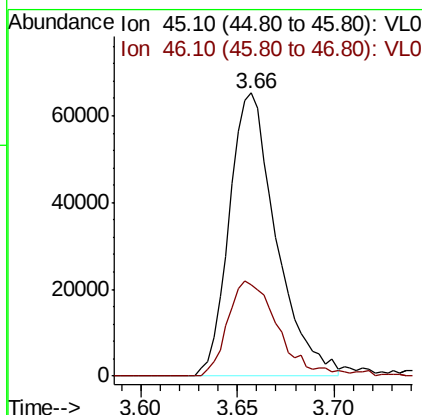
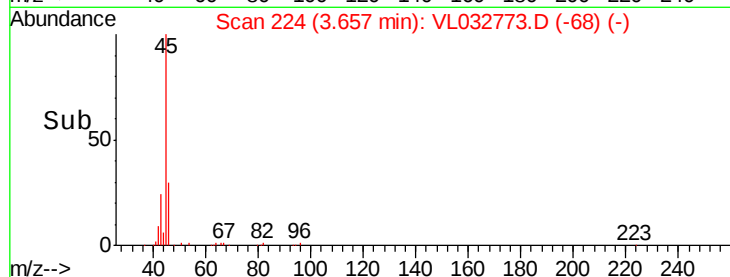
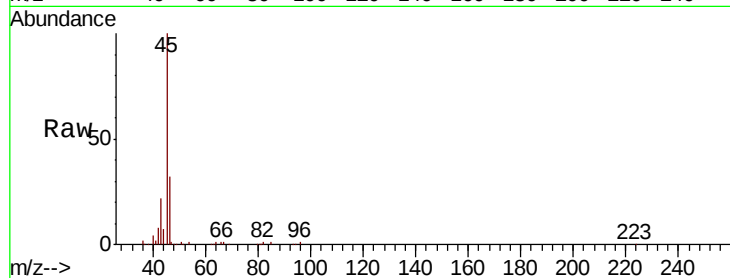
#13
Ethanol
Concen: 6.684 ppbv
RT: 3.66 min Scan# 224
Delta R.T. -0.00 min
Lab File: VL032773.D
Acq: 15 Nov 2018 00:19

Instrument :
MSVOA_L
ClientSampleId :
VL1114ABS05

Tot Ion	45	46	Ratio	Lower	Upper
45	100				
46	36.6		14.5	57.9	

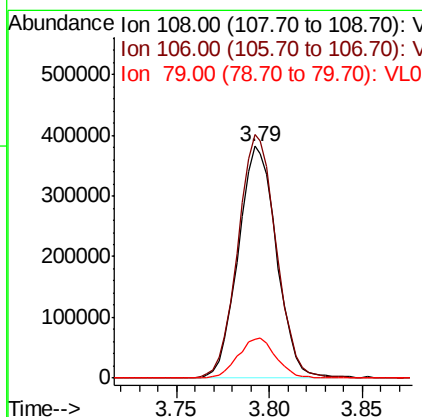
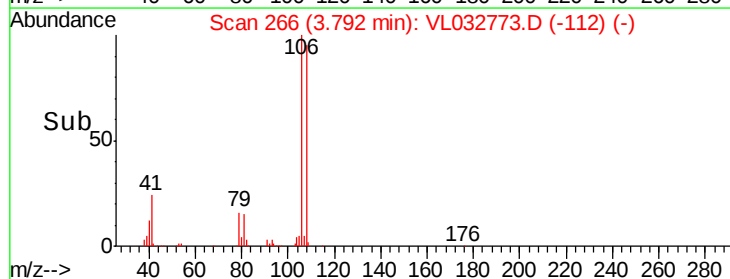
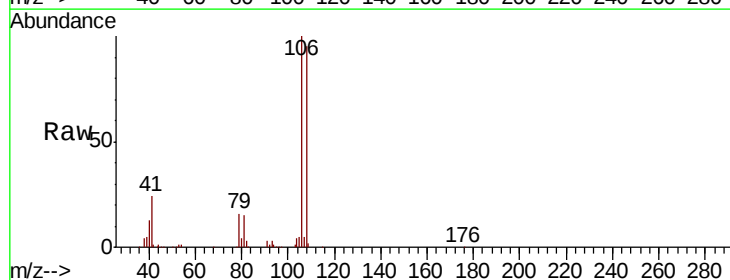
Manual Integrations
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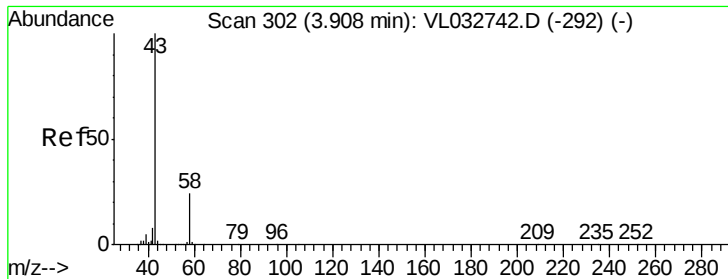
MMDadoda
11/16/2018 1:30:16 PM



#14
Bromoethene
Concen: 9.365 ppbv
RT: 3.79 min Scan# 266
Delta R.T. -0.00 min
Lab File: VL032773.D
Acq: 15 Nov 2018 00:19

Tgt Ion	108	106	79	Ratio	Lower	Upper
108	100					
106	106.2			84.9	127.3	
79	17.5			14.2	21.4	





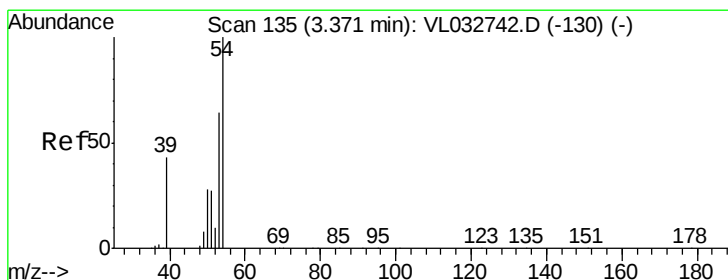
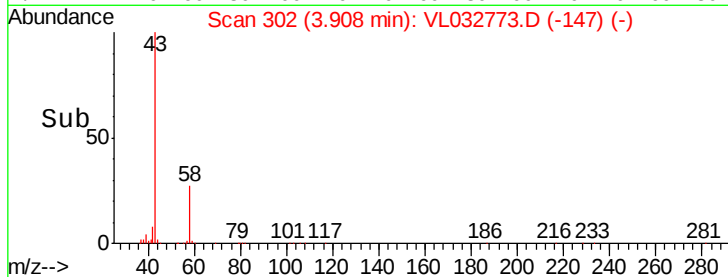
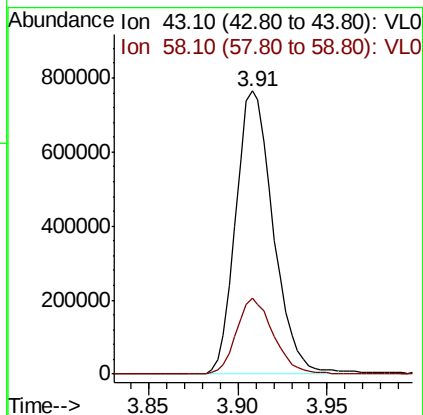
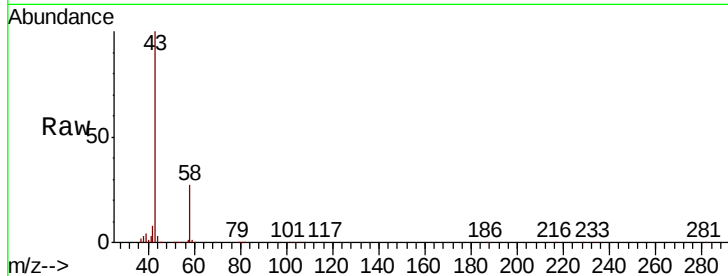
#15
Acetone
Concen: 7.758 ppbv
RT: 3.91 min Scan# 302
Delta R.T. -0.00 min
Lab File: VL032773.D
Acq: 15 Nov 2018 00:19

Instrument :
MSVOA_L
ClientSampleId :
VL1114ABS05

Tot Ion: 43 Resp: 1122341
Ion Ratio Lower Upper
43 100
58 26.9 21.1 31.7

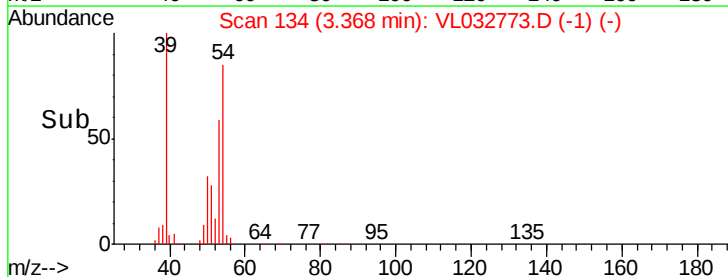
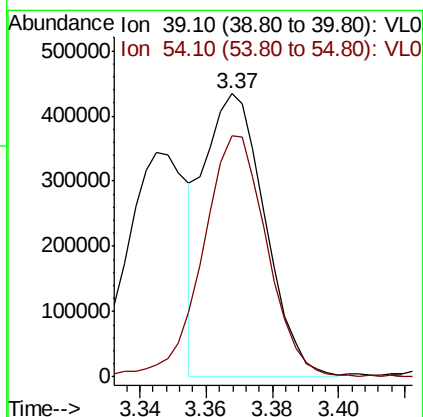
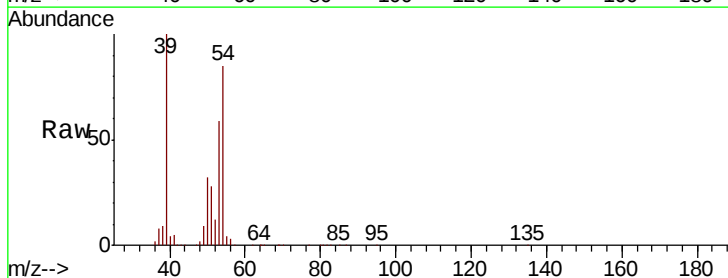
Manual Integrations
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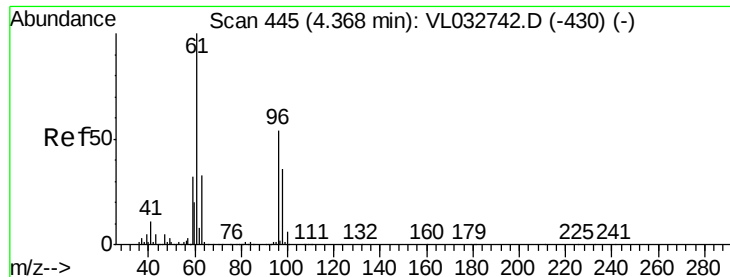
MMDadoda
11/16/2018 1:30:16 PM



#16
1,3-Butadiene
Concen: 9.846 ppbv
RT: 3.37 min Scan# 134
Delta R.T. -0.00 min
Lab File: VL032773.D
Acq: 15 Nov 2018 00:19

Tgt Ion: 39 Resp: 551646
Ion Ratio Lower Upper
39 100
54 91.0 68.9 103.3





#17

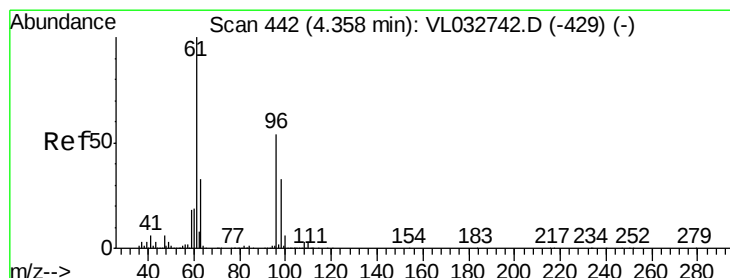
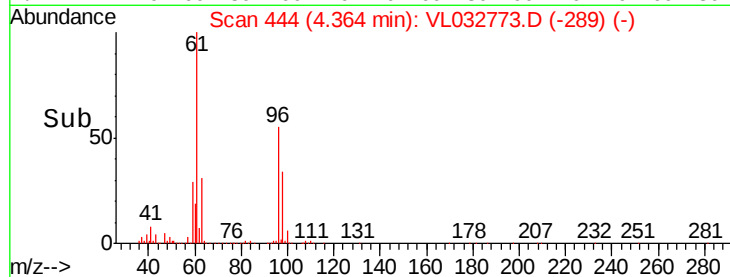
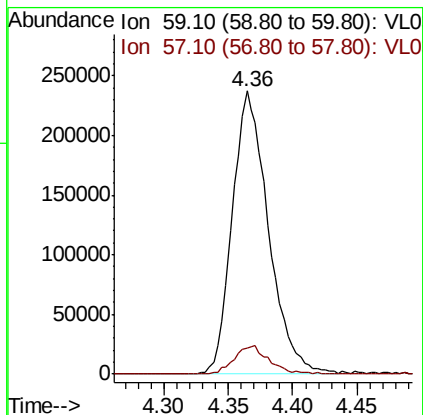
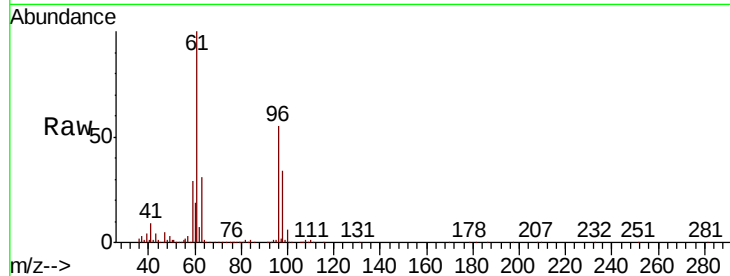
tert-Butyl alcohol
Concen: 10.170 ppbv
RT: 4.36 min Scan# 444
Delta R.T. -0.00 min
Lab File: VL032773.D
Acq: 15 Nov 2018 00:19

Instrument :
MSVOA_L
ClientSampleId :
VL1114ABS05

Tot Ion	59	Resp	461491
Ion	Ratio	Lower	Upper
59	100		
57	9.8	7.8	11.8

Manual Integrations
APPROVED

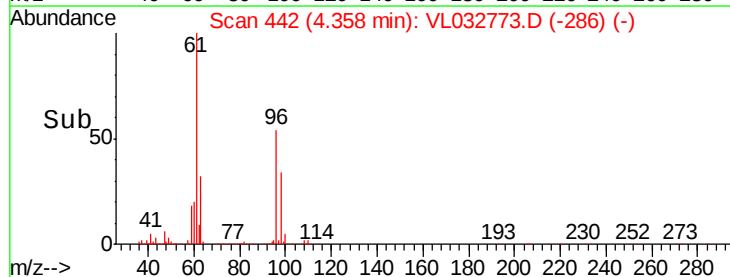
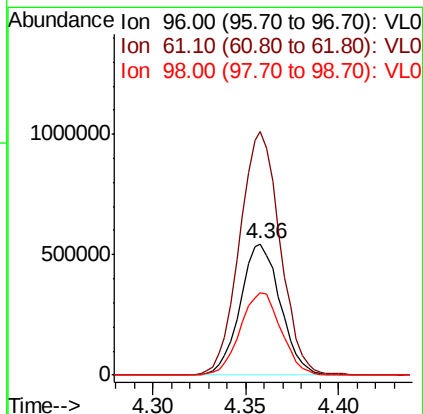
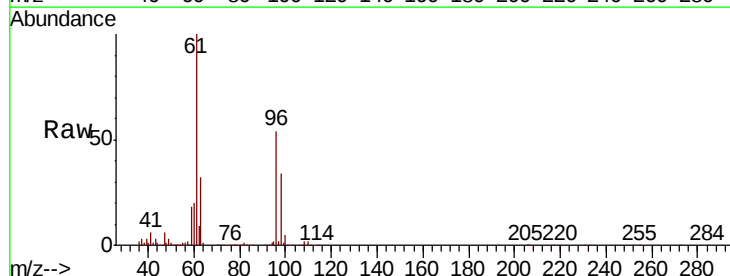
MMDadoda
11/16/2018 1:30:16 PM

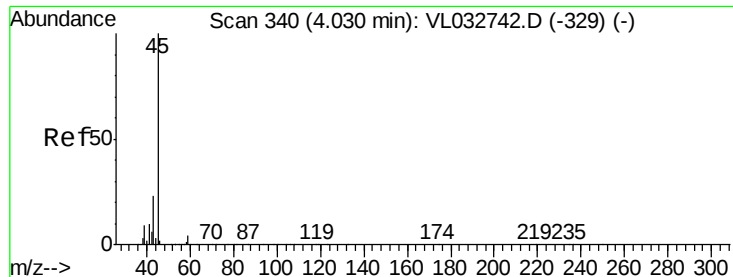


#18

1,1-Dichloroethene
Concen: 9.528 ppbv
RT: 4.36 min Scan# 442
Delta R.T. -0.00 min
Lab File: VL032773.D
Acq: 15 Nov 2018 00:19

Tgt Ion	96	Resp	821303
Ion	Ratio	Lower	Upper
96	100		
61	184.7	148.5	222.7
98	62.9	48.6	72.8





#19

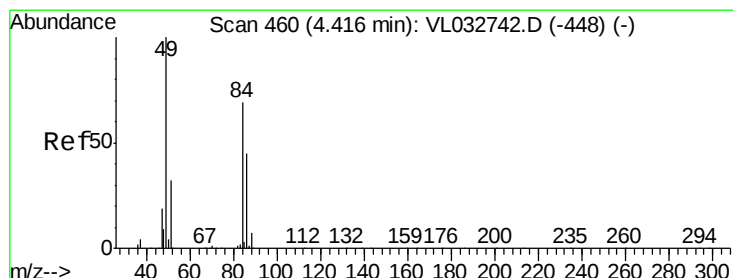
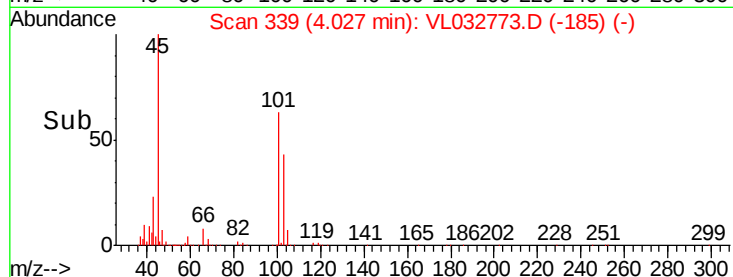
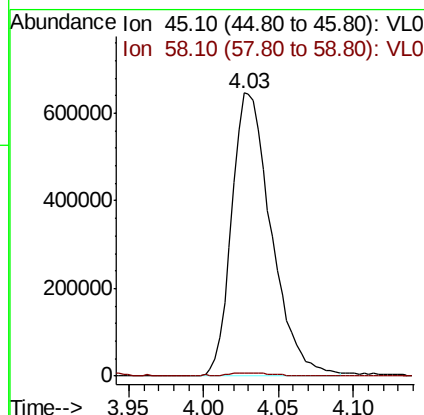
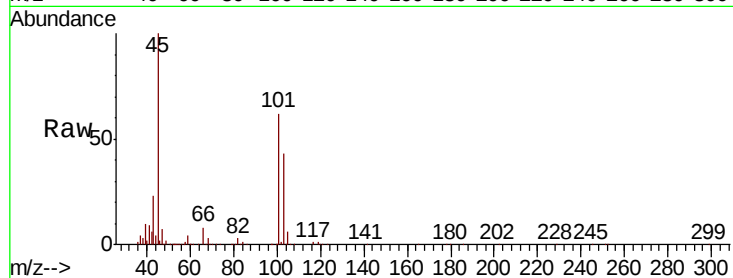
Isopropyl Alcohol
 Concen: 12.381 ppbv
 RT: 4.03 min Scan# 339
 Delta R.T. -0.00 min
 Lab File: VL032773.D
 Acq: 15 Nov 2018 00:19

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1114ABS05

Tot Ion: 45 Resp: 1193249
 Ion Ratio Lower Upper
 45 100
 58 1.6 1.4 2.0

Manual Integrations
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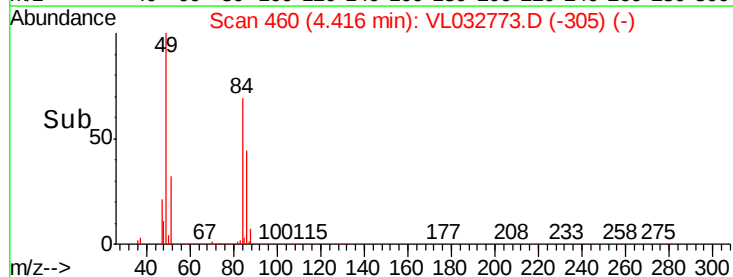
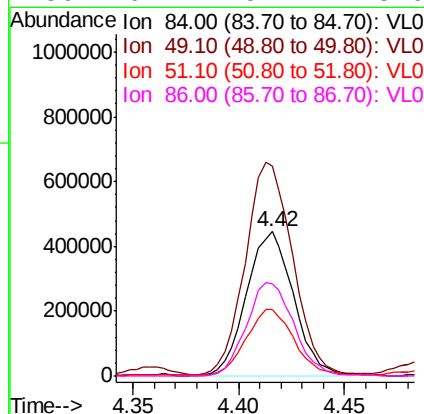
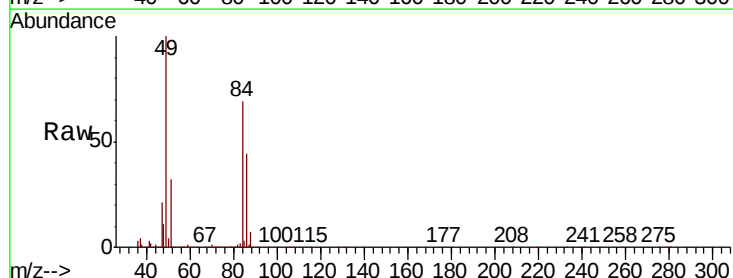
MMDadoda
 11/16/2018 1:30:16 PM

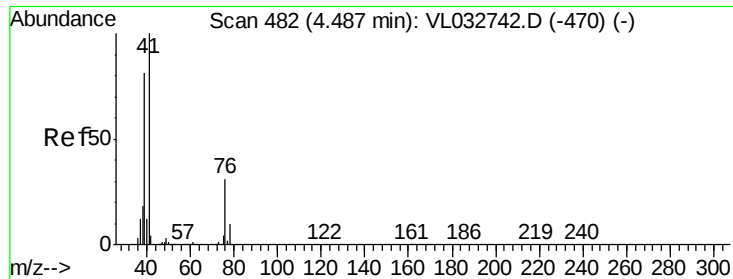


#20

Methylene Chloride
 Concen: 9.197 ppbv
 RT: 4.42 min Scan# 460
 Delta R.T. -0.00 min
 Lab File: VL032773.D
 Acq: 15 Nov 2018 00:19

Tgt Ion: 84 Resp: 688802
 Ion Ratio Lower Upper
 84 100
 49 144.4 115.8 173.6
 51 45.5 36.9 55.3
 86 64.2 52.4 78.6





#21

Allvl Chloride

Concen: 10.522 ppbv

RT: 4.48 min Scan# 481

Delta R.T. -0.00 min

Lab File: VL032773.D

Acq: 15 Nov 2018 00:19

Instrument :

MSVOA_L

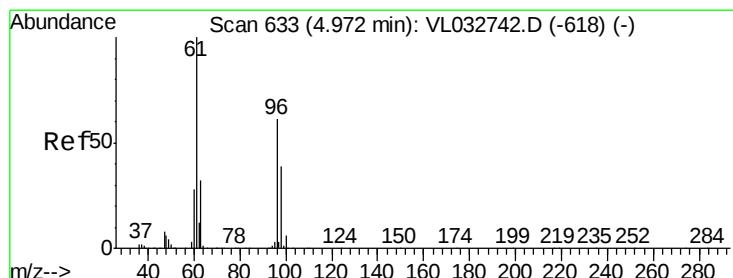
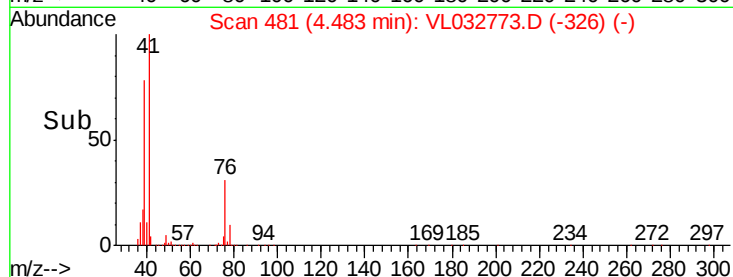
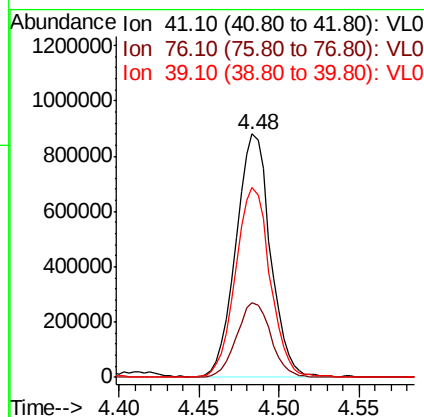
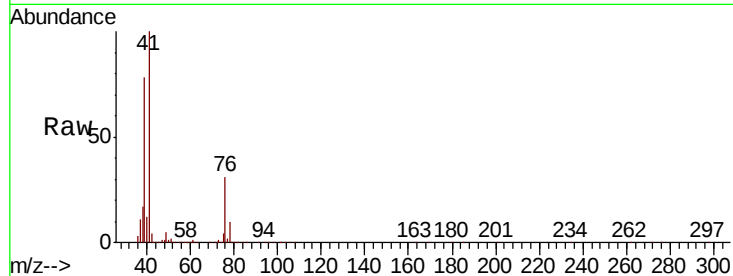
ClientSampleId :

VL1114ABS05

Tot Ion:	41	Resp:	1279250
Ion	Ratio	Lower	Upper
41	100		
76	30.8	24.4	36.6
39	78.3	63.5	95.3

Manual Integrations
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11/16/2018 1:30:16 PM



#22

trans-1,2-Dichloroethene

Concen: 8.933 ppbv

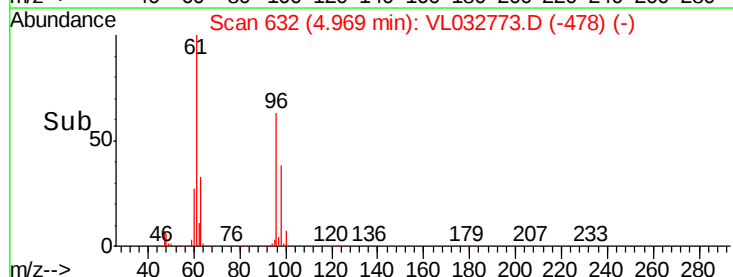
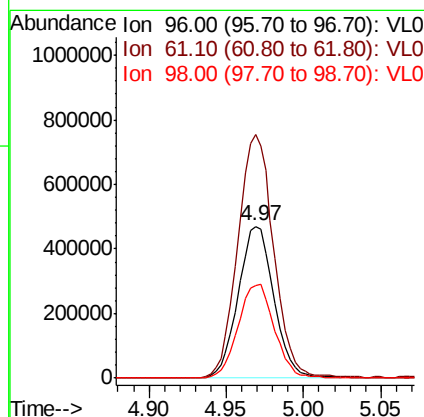
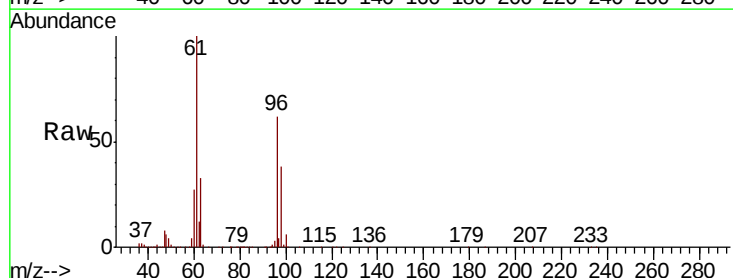
RT: 4.97 min Scan# 632

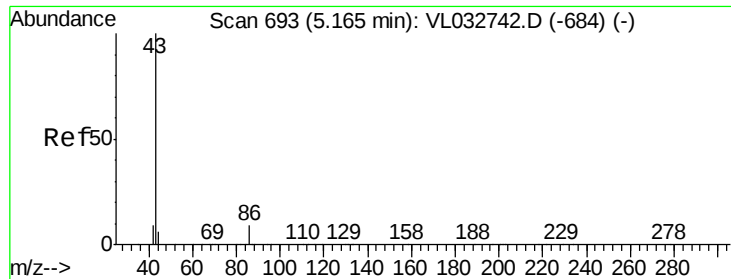
Delta R.T. -0.00 min

Lab File: VL032773.D

Acq: 15 Nov 2018 00:19

Tgt Ion:	96	Resp:	751863
Ion	Ratio	Lower	Upper
96	100		
61	160.3	130.2	195.2
98	61.3	50.2	75.2





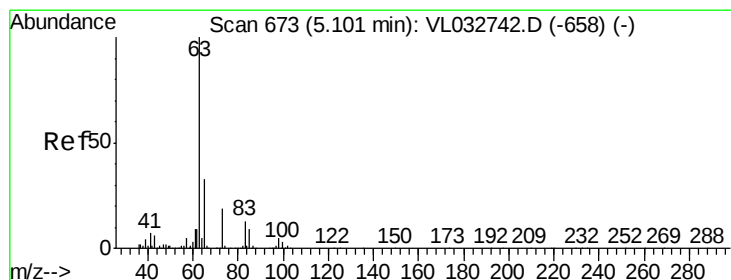
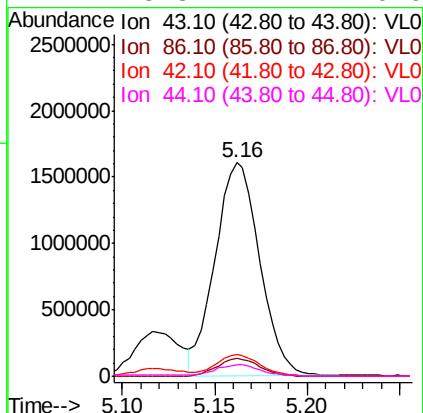
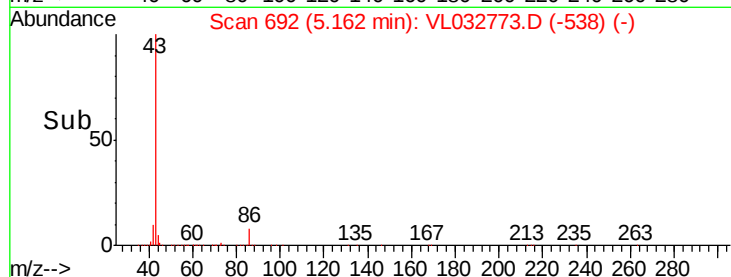
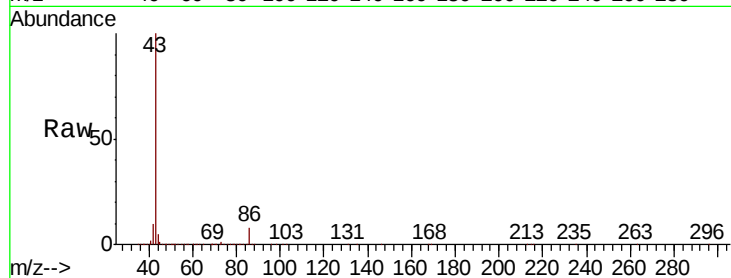
#23
 Vinyl Acetate
 Concen: 10.132 ppbv
 RT: 5.16 min Scan# 692
 Delta R.T. -0.00 min
 Lab File: VL032773.D
 Acq: 15 Nov 2018 00:19

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1114ABS05

Tot Ion	43	Resp	2672007
Ion	Ratio	Lower	Upper
43	100		
86	8.4	6.2	9.4
42	10.0	7.8	11.6
44	5.3	4.4	6.6

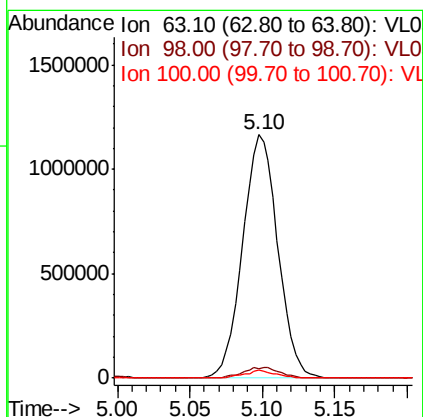
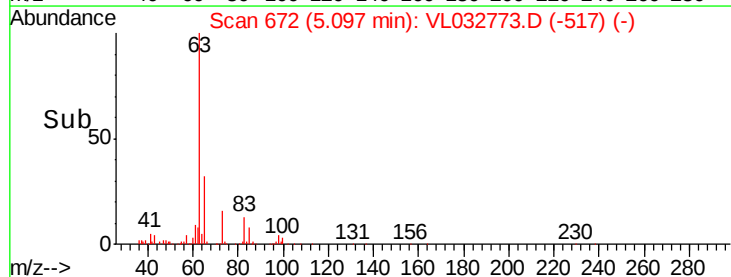
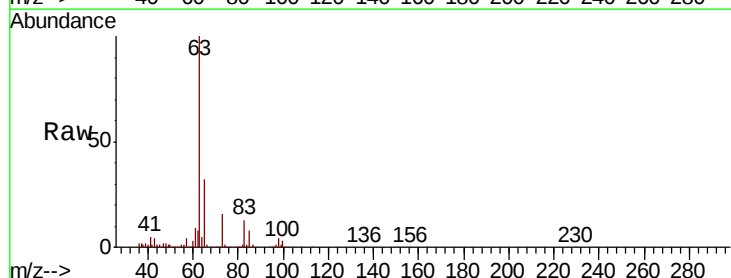
Manual Integrations
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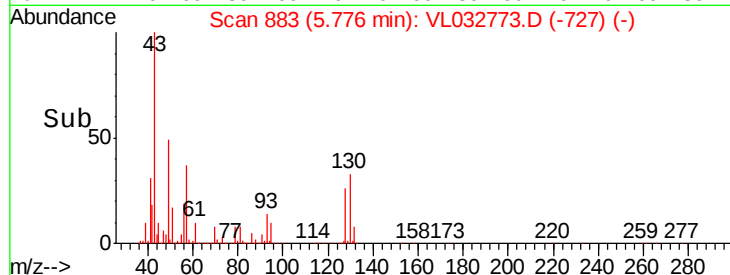
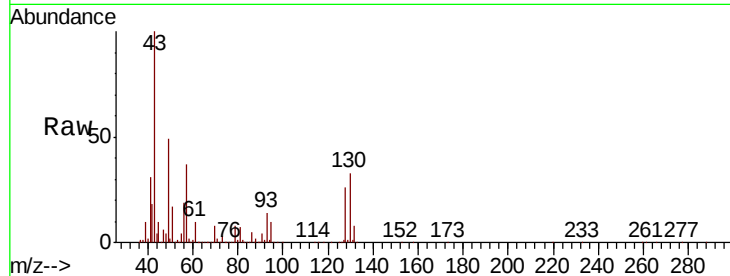
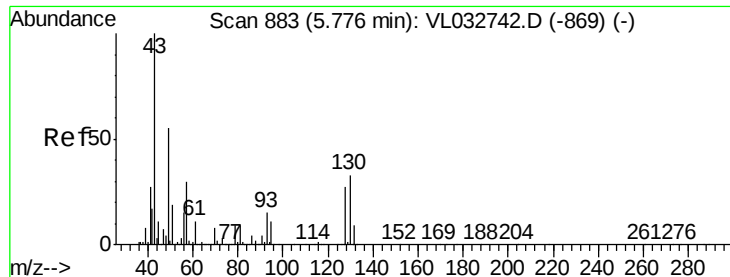
MMDadoda
 11/16/2018 1:30:16 PM



#24
 1,1-Dichloroethane
 Concen: 9.358 ppbv
 RT: 5.10 min Scan# 672
 Delta R.T. -0.00 min
 Lab File: VL032773.D
 Acq: 15 Nov 2018 00:19

Tgt Ion	63	Resp	1962105
Ion	Ratio	Lower	Upper
63	100		
98	3.9	2.3	6.8
100	3.2	1.4	4.2





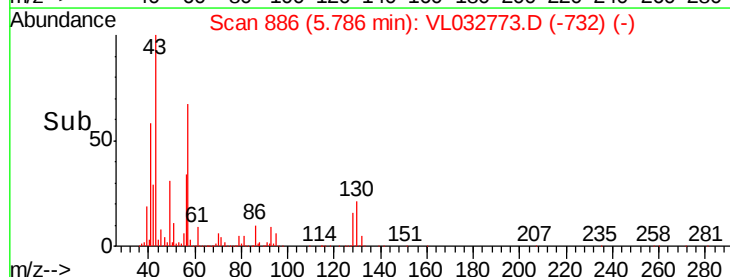
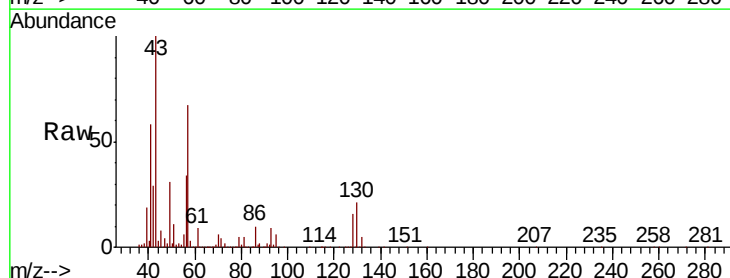
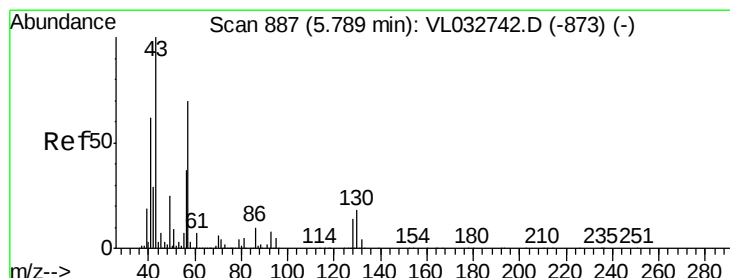
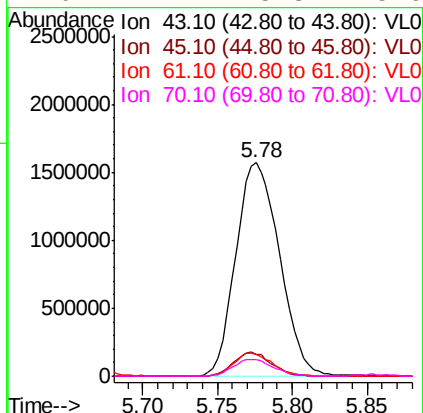
#25
Ethyl Acetate
Concen: 9.461 ppbv
RT: 5.78 min Scan# 883
Delta R.T. -0.00 min
Lab File: VL032773.D
Acq: 15 Nov 2018 00:19

Tot Ion	43	Resp	3190050
Ion	Ratio	Lower	Upper
43	100		
45	9.9	7.9	11.9
61	9.7	7.8	11.6
70	7.4	5.8	8.6

Instrument :
MSVOA_L
ClientSampleId :
VL1114ABS05

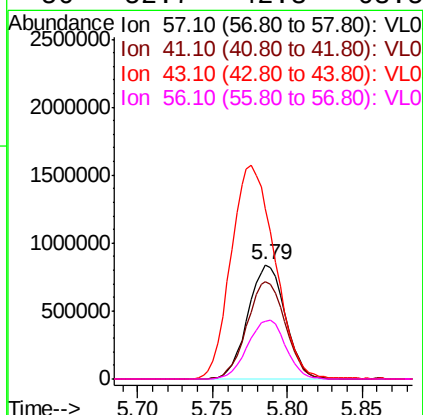
Manual Integrations
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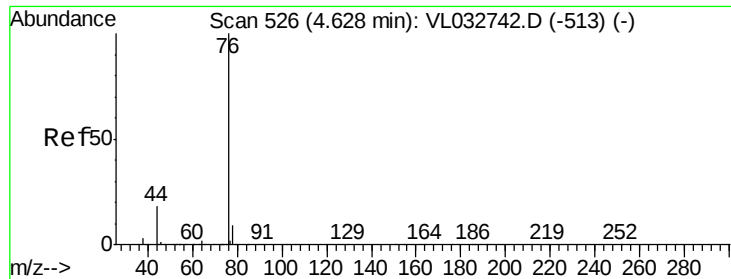
MMDadoda
11/16/2018 1:30:16 PM



#26
Hexane
Concen: 9.750 ppbv
RT: 5.79 min Scan# 886
Delta R.T. -0.00 min
Lab File: VL032773.D
Acq: 15 Nov 2018 00:19

Tgt Ion	57	Resp	1463534
Ion	Ratio	Lower	Upper
57	100		
41	87.3	70.3	105.5
43	219.0	174.0	261.0
56	52.7	42.3	63.5





#27

Carbon Disulfide

Concen: 10.222 ppbv

RT: 4.62 min Scan# 525

Delta R.T. -0.00 min

Lab File: VL032773.D

Acq: 15 Nov 2018 00:19

Instrument :

MSVOA_L

ClientSampleId :

VL1114ABS05

Tot Ion: 76 Resp: 1945583

Ion Ratio Lower Upper

76 100

44 18.0 14.4 21.6

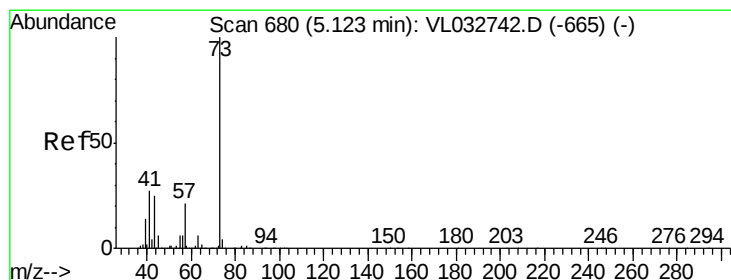
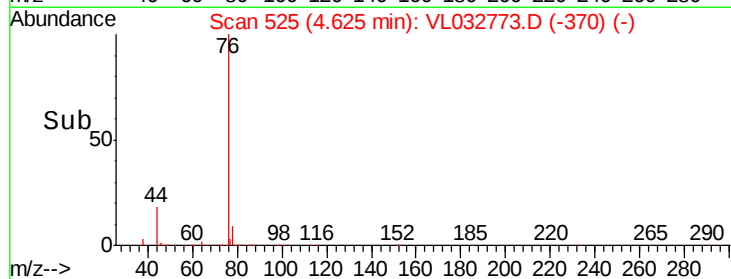
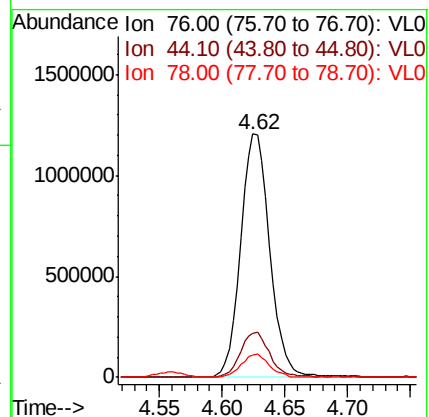
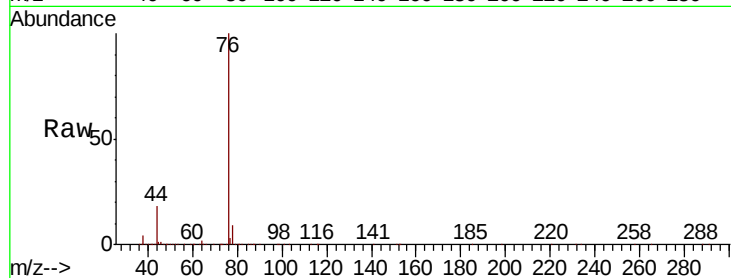
78 9.2 7.7 11.5

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#28

Methyl tert-Butyl Ether

Concen: 10.312 ppbv

RT: 5.12 min Scan# 679

Delta R.T. -0.00 min

Lab File: VL032773.D

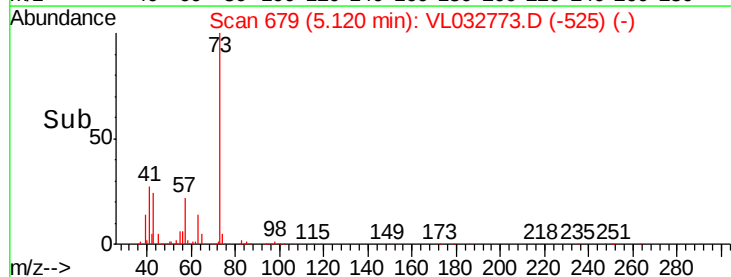
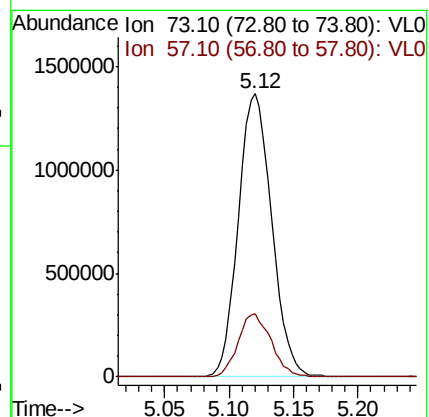
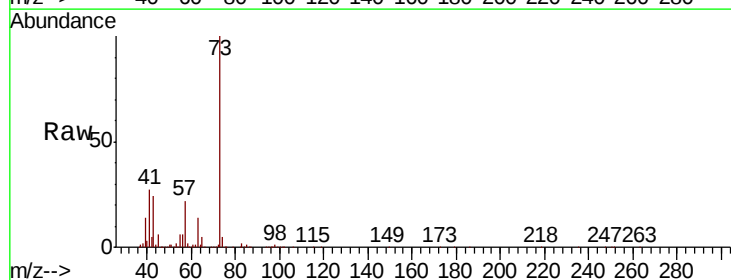
Acq: 15 Nov 2018 00:19

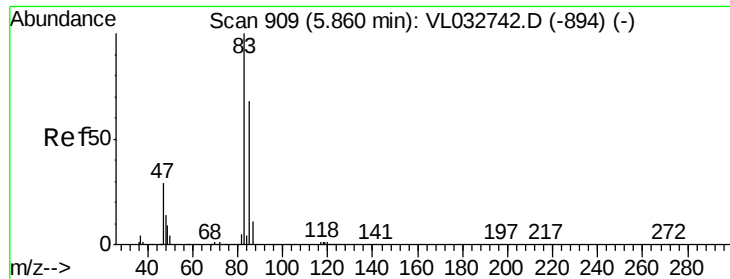
Tgt Ion: 73 Resp: 2468295

Ion Ratio Lower Upper

73 100

57 22.1 17.5 26.3





#29

Chloroform

Concen: 9.018 ppbv

RT: 5.86 min Scan# 908

Delta R.T. -0.00 min

Lab File: VL032773.D

Acq: 15 Nov 2018 00:19

Instrument :

MSVOA_L

ClientSampleId :

VL1114ABS05

Tot Ion: 83 Resp: 2412677

Ion Ratio Lower Upper

83 100

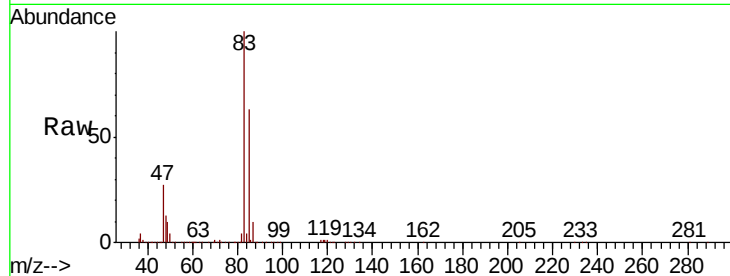
85 63.0 54.2 81.4

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Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

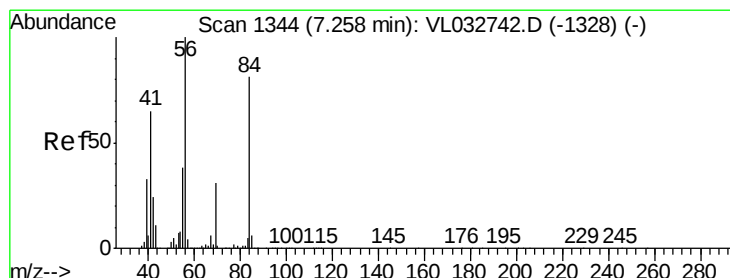
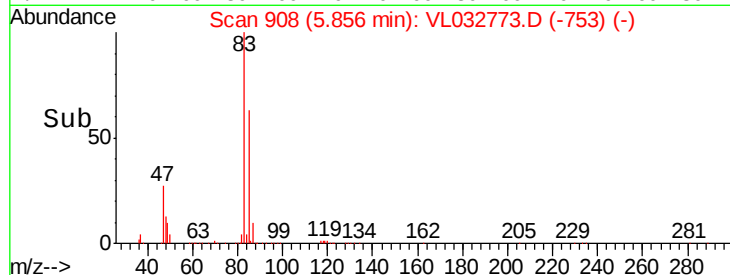
1500000

1000000

500000

0

5.75 5.80 5.85 5.90 5.95



#30

Cyclohexane

Concen: 10.422 ppbv

RT: 7.25 min Scan# 1343

Delta R.T. -0.00 min

Lab File: VL032773.D

Acq: 15 Nov 2018 00:19

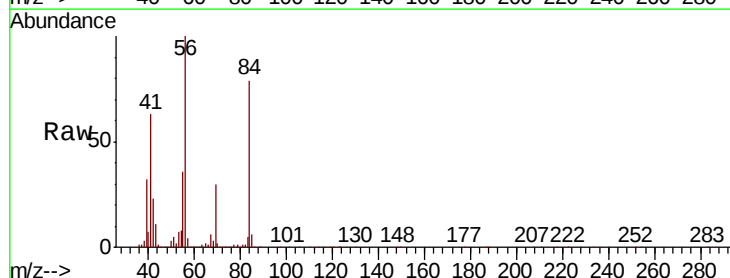
Tgt Ion: 84 Resp: 1368270

Ion Ratio Lower Upper

84 100

56 128.8 105.0 157.4

41 79.1 65.3 97.9



Abundance Ion 84.20 (83.90 to 84.90): VL0

Ion 56.10 (55.80 to 56.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

1000000

800000

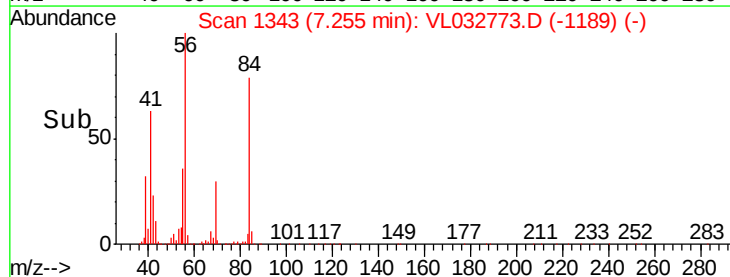
600000

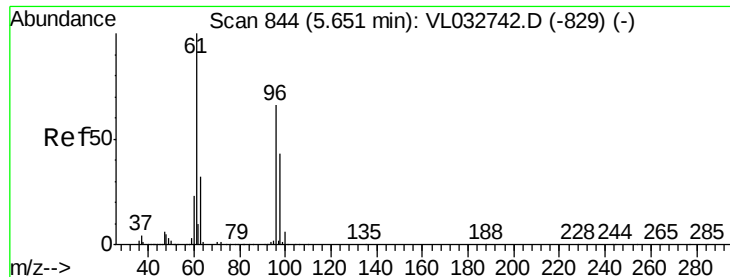
400000

200000

0

7.15 7.20 7.25 7.30





#31

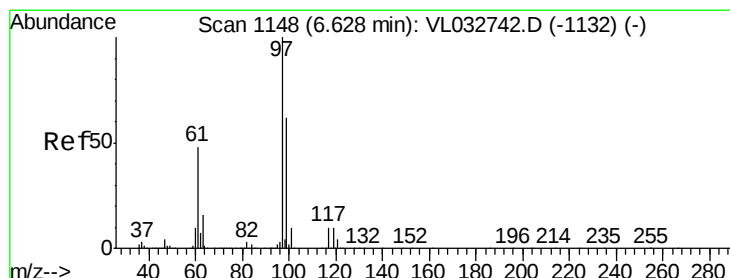
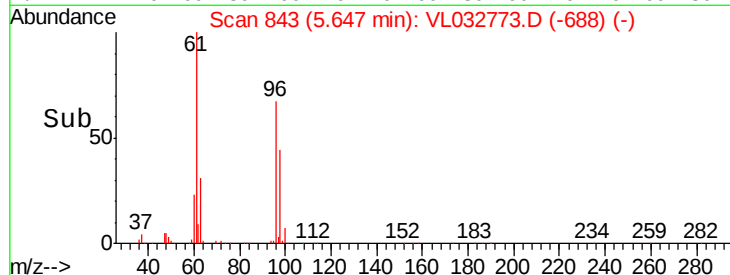
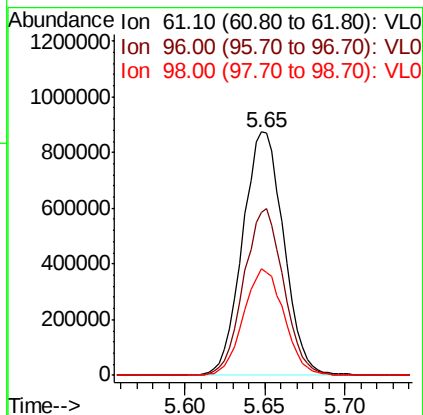
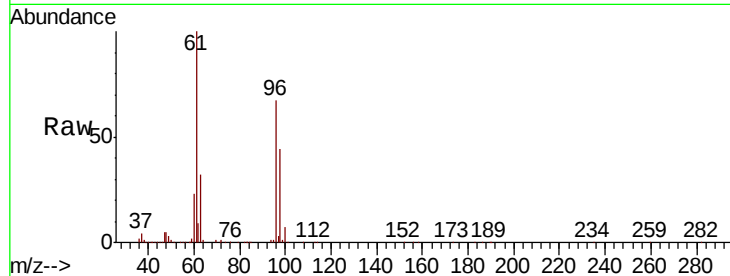
cis-1,2-Dichloroethene
 Concen: 10.176 ppbv
 RT: 5.65 min Scan# 843
 Delta R.T. -0.00 min
 Lab File: VL032773.D
 Acq: 15 Nov 2018 00:19

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1114ABS05

Tot Ion	Ratio	Lower	Upper
61	100		
96	67.0	53.2	79.8
98	43.6	34.4	51.6

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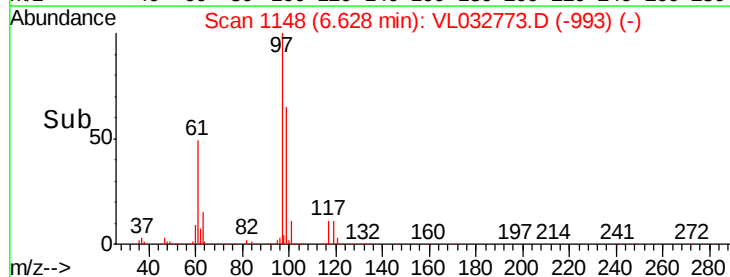
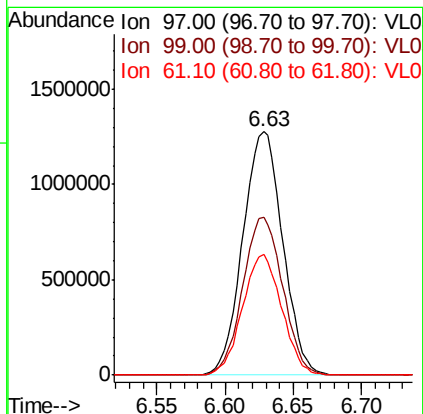
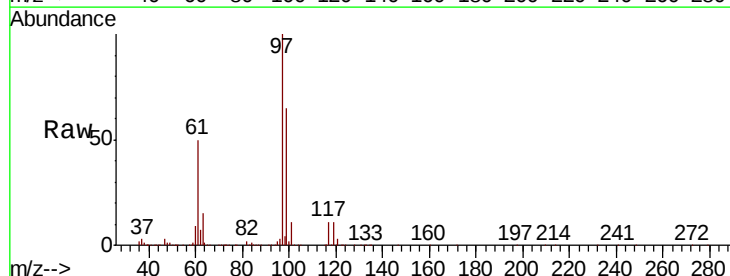
MMDadoda
 11/16/2018 1:30:16 PM

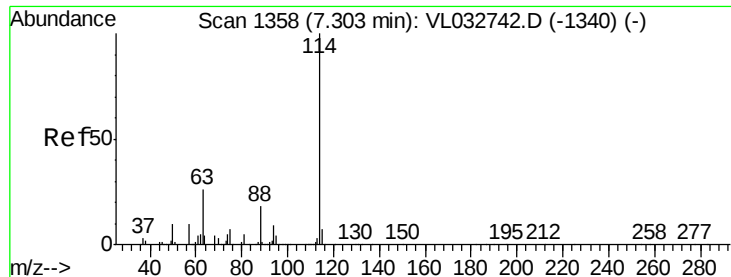


#32

1,1,1-Trichloroethane
 Concen: 8.862 ppbv
 RT: 6.63 min Scan# 1148
 Delta R.T. -0.00 min
 Lab File: VL032773.D
 Acq: 15 Nov 2018 00:19

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.8	51.8	77.6
61	48.8	39.7	59.5





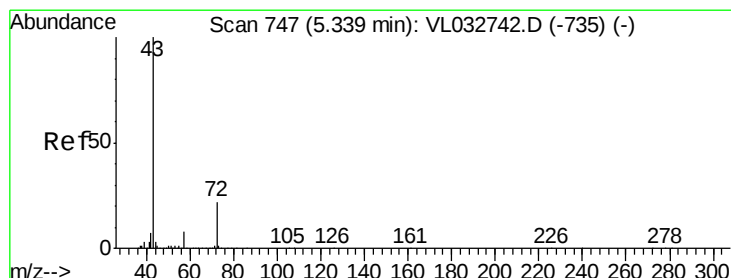
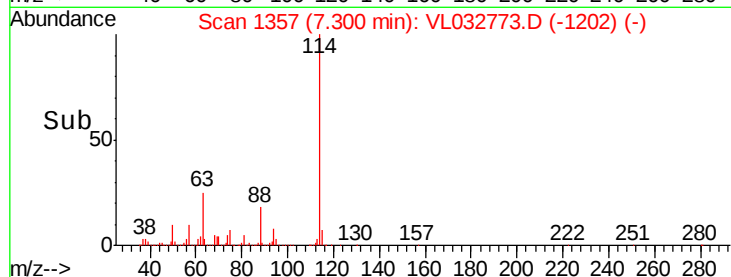
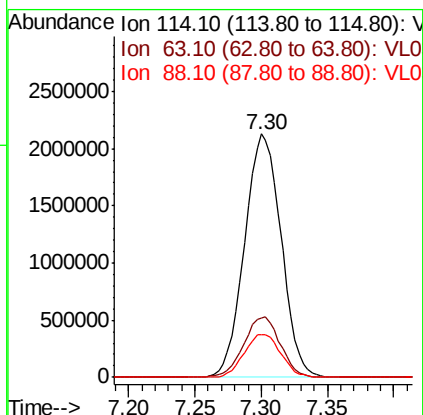
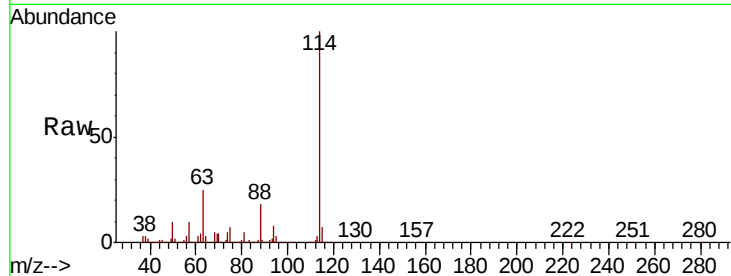
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.30 min Scan# 1357
 Delta R.T. -0.00 min
 Lab File: VL032773.D
 Acq: 15 Nov 2018 00:19

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1114ABS05

Tot Ion	Ratio	Lower	Upper
114	100		
63	25.1	20.9	31.3
88	17.8	14.4	21.6

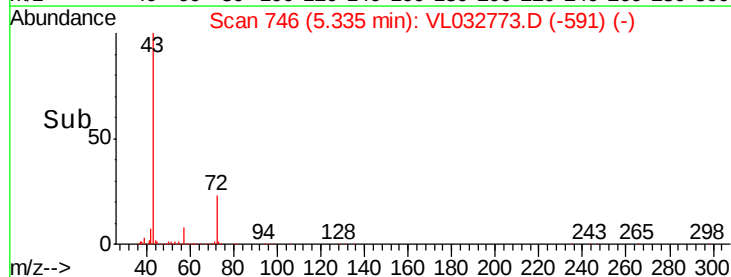
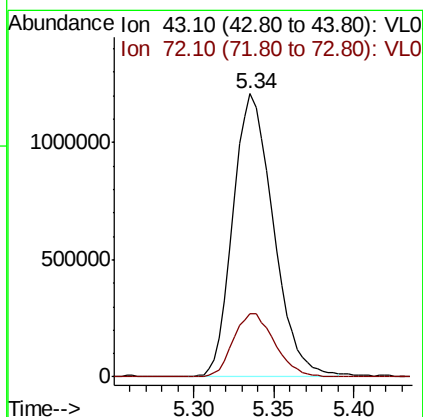
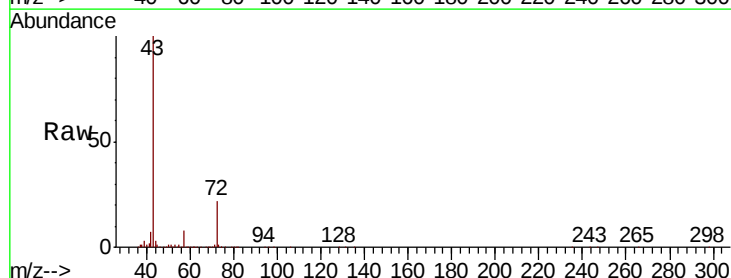
Manual Integrations
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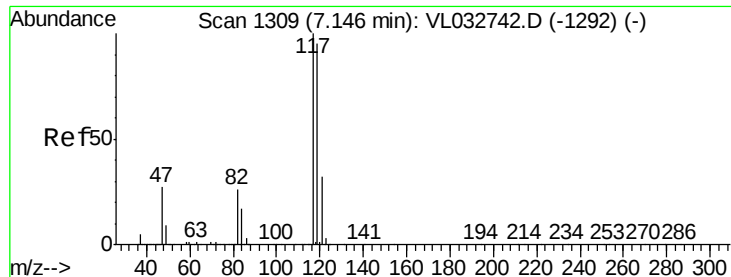
MMDadoda
 11/16/2018 1:30:16 PM



#34
 2-Butanone
 Concen: 9.774 ppbv
 RT: 5.34 min Scan# 746
 Delta R.T. -0.00 min
 Lab File: VL032773.D
 Acq: 15 Nov 2018 00:19

Tgt Ion	Ratio	Lower	Upper
43	100		
72	23.0	18.4	27.6





#35

Carbon Tetrachloride

Concen: 8.457 ppbv

RT: 7.14 min Scan# 1308

Delta R.T. -0.00 min

Lab File: VL032773.D

Acq: 15 Nov 2018 00:19

Instrument :

MSVOA_L

ClientSampleId :

VL1114ABS05

Tot Ion:117 Resp: 2778192

Ion Ratio Lower Upper

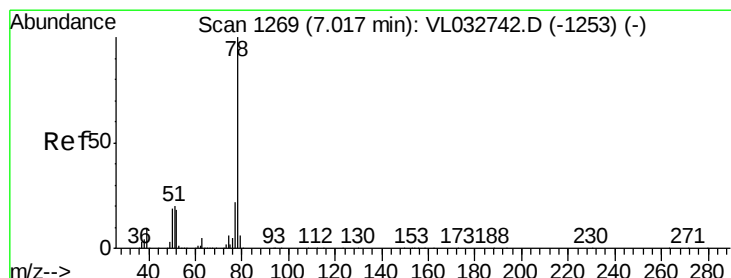
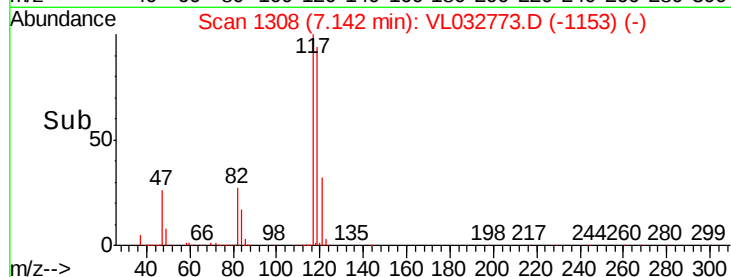
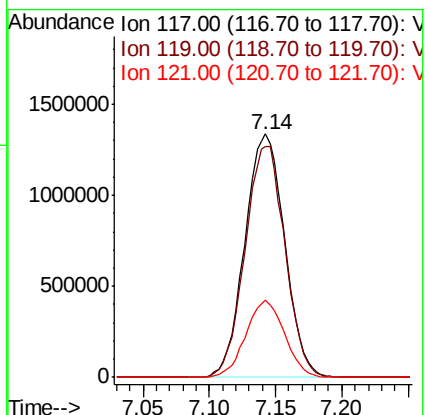
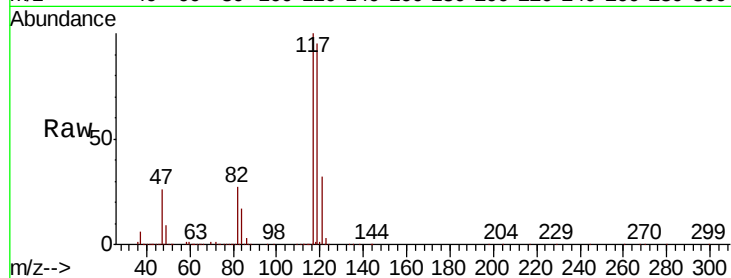
117 100

119 94.7 76.1 114.1

121 31.7 25.4 38.0

Manual Integrations
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MMDadoda
11/16/2018 1:30:16 PM



#36

Benzene

Concen: 10.001 ppbv

RT: 7.01 min Scan# 1268

Delta R.T. -0.00 min

Lab File: VL032773.D

Acq: 15 Nov 2018 00:19

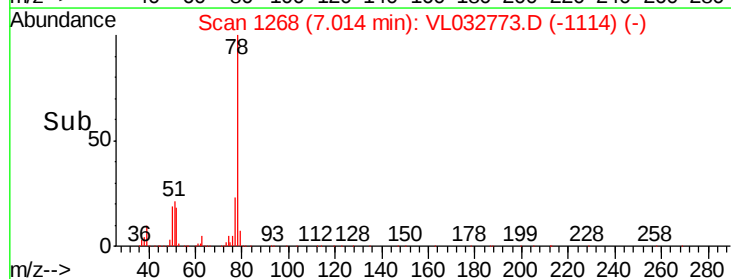
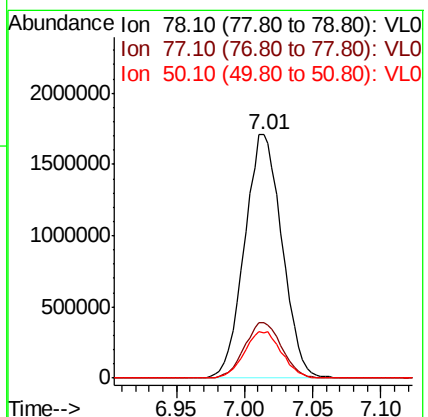
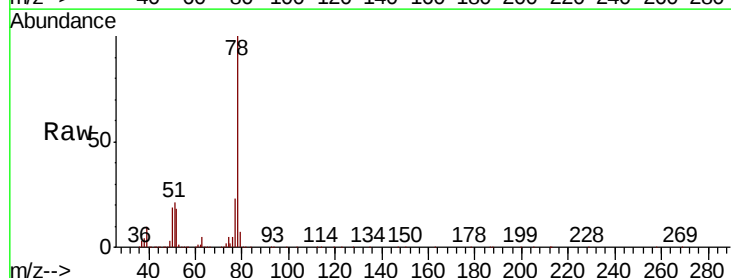
Tgt Ion: 78 Resp: 3254441

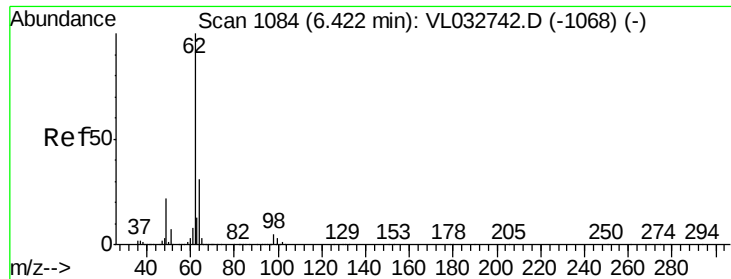
Ion Ratio Lower Upper

78 100

77 22.9 17.8 26.8

50 18.5 15.4 23.0





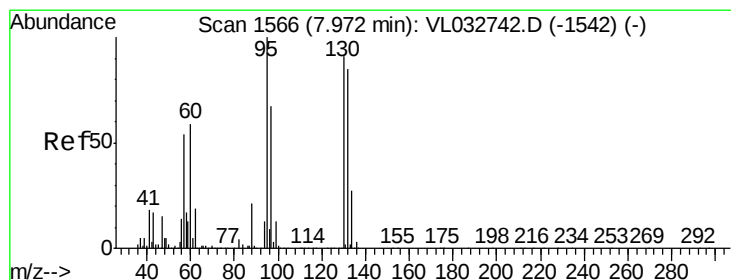
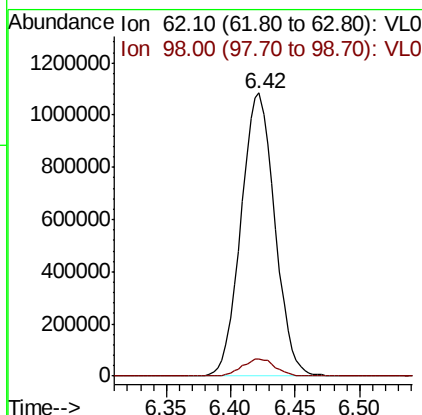
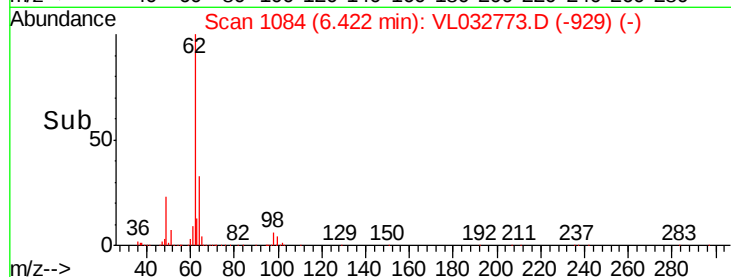
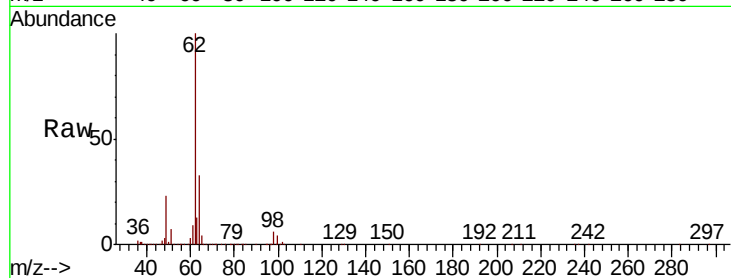
#37
 1,2-Dichloroethane
 Concen: 9.027 ppbv
 RT: 6.42 min Scan# 1084
 Delta R.T. -0.00 min
 Lab File: VL032773.D
 Acq: 15 Nov 2018 00:19

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1114ABS05

Tot Ion: 62 Resp: 1977521
 Ion Ratio Lower Upper
 62 100
 98 6.1 4.5 6.7

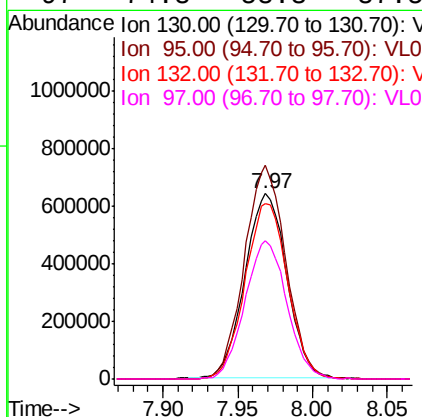
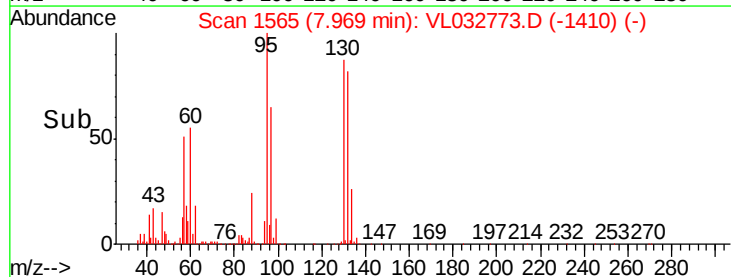
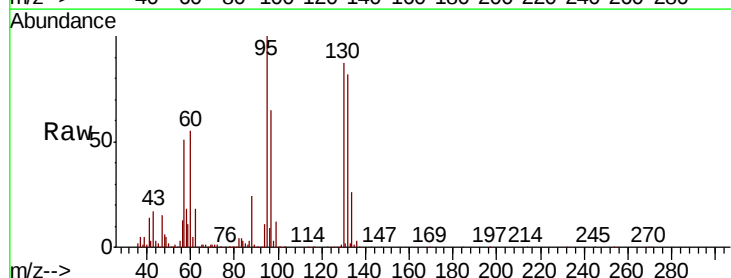
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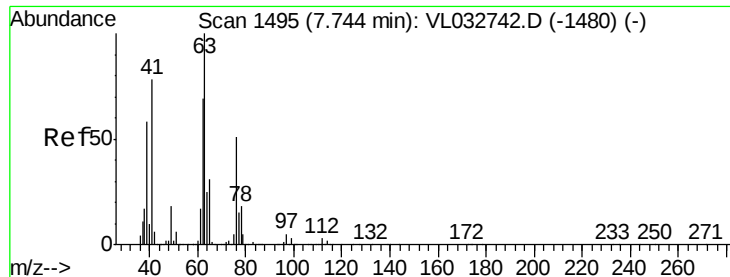
MMDadoda
 11/16/2018 1:30:16 PM



#38
 Trichloroethene
 Concen: 9.460 ppbv
 RT: 7.97 min Scan# 1565
 Delta R.T. -0.00 min
 Lab File: VL032773.D
 Acq: 15 Nov 2018 00:19

Tgt Ion:130 Resp: 1245845
 Ion Ratio Lower Upper
 130 100
 95 115.9 87.7 131.5
 132 95.2 74.6 111.8
 97 74.8 58.3 87.5





#39

1,2-Dichloropropane

Concen: 9.742 ppbv

RT: 7.74 min Scan# 1495

Delta R.T. -0.00 min

Lab File: VL032773.D

Acq: 15 Nov 2018 00:19

Instrument :

MSVOA_L

ClientSampleId :

VL1114ABS05

Tot Ion: 63 Resp: 1207864

Ion Ratio Lower Upper

63 100

41 74.2 62.0 93.0

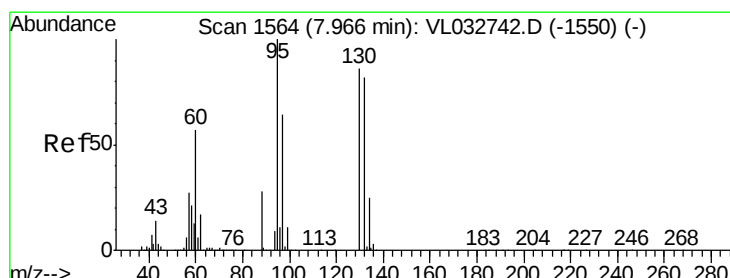
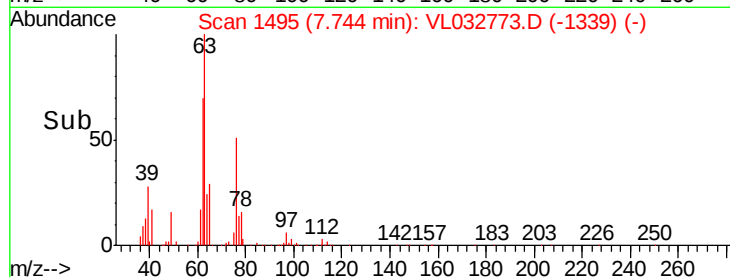
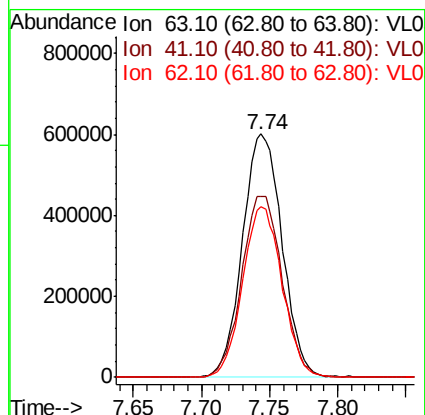
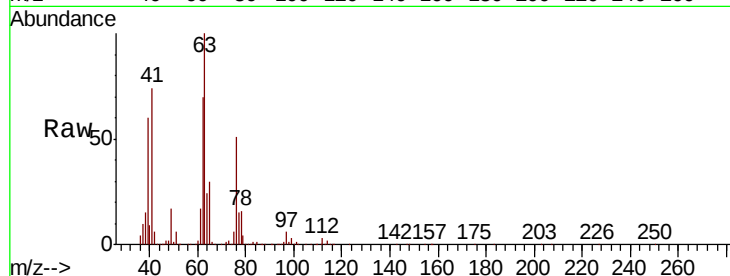
62 70.2 55.4 83.2

Manual Integrations

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#40

1,4-Dioxane

Concen: 9.738 ppbv m

RT: 7.96 min Scan# 1562

Delta R.T. -0.01 min

Lab File: VL032773.D

Acq: 15 Nov 2018 00:19

Tgt Ion: 88 Resp: 431225

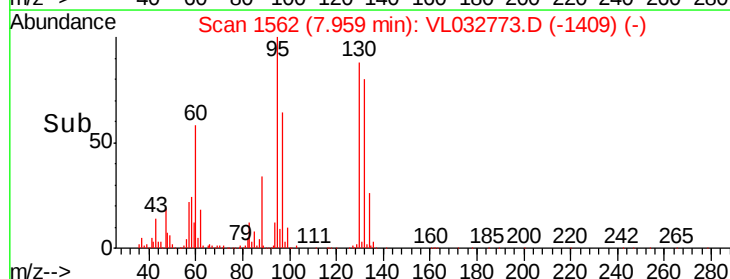
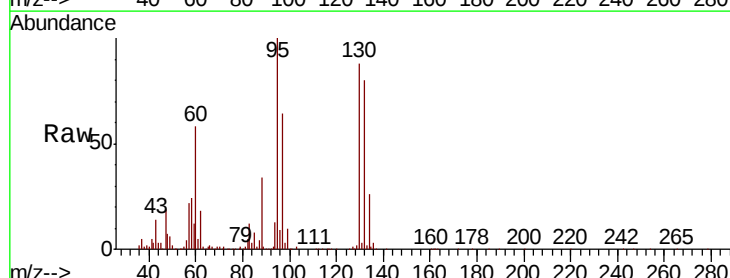
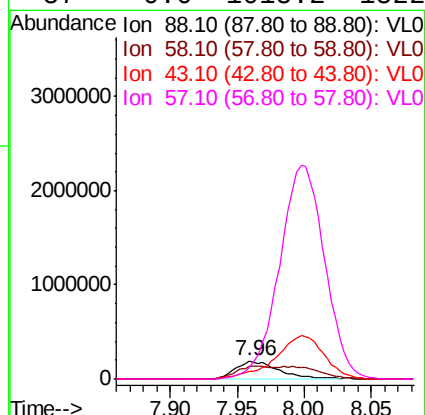
Ion Ratio Lower Upper

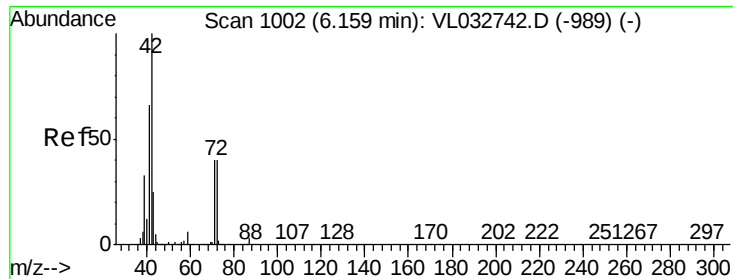
88 100

58 0.0 105.3 157.9#

43 0.0 226.1 339.1#

57 0.0 1015.2 1522.8#





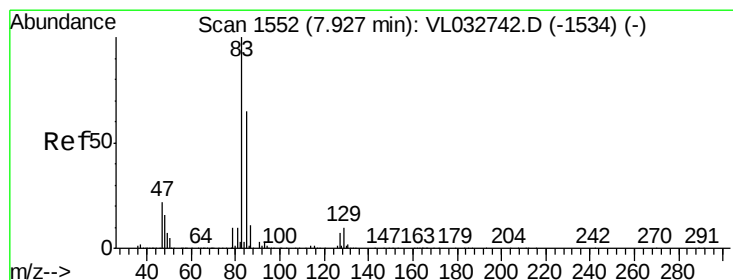
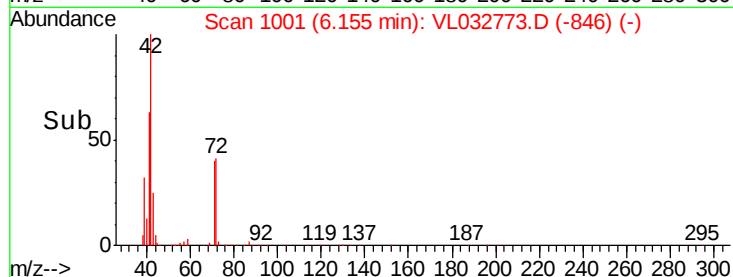
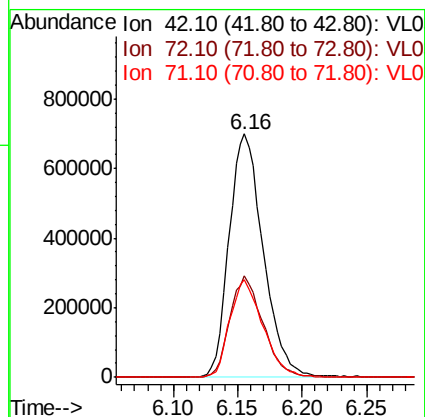
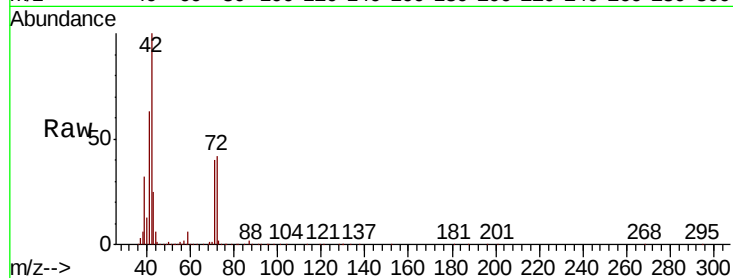
#41
Tetrahydrofuran
Concen: 10.544 ppbv
RT: 6.16 min Scan# 1001
Delta R.T. -0.00 min
Lab File: VL032773.D
Acq: 15 Nov 2018 00:19

Instrument :
MSVOA_L
ClientSampleId :
VL1114ABS05

Tot Ion: 42 Resp: 1281895
Ion Ratio Lower Upper
42 100
72 40.7 32.4 48.6
71 39.1 31.6 47.4

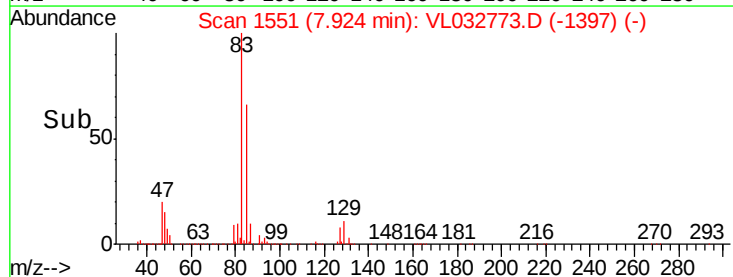
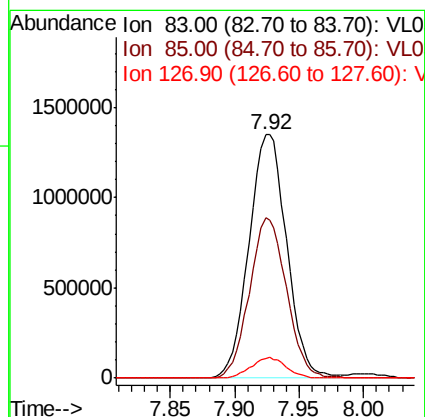
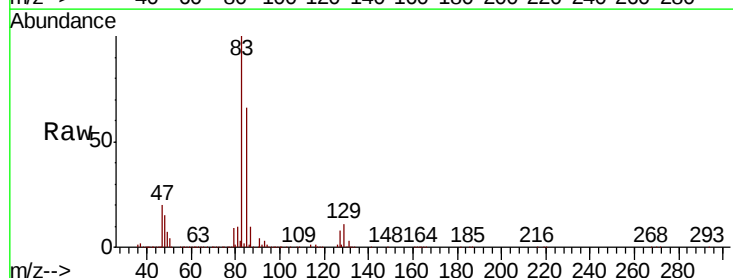
Manual Integrations
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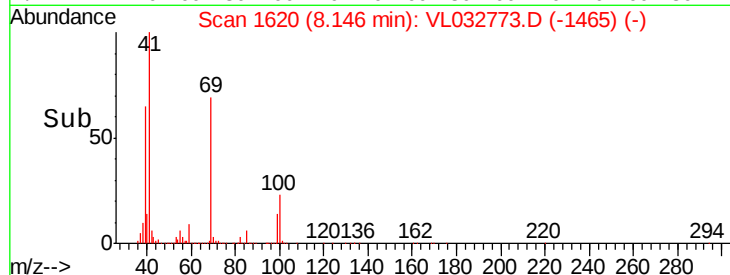
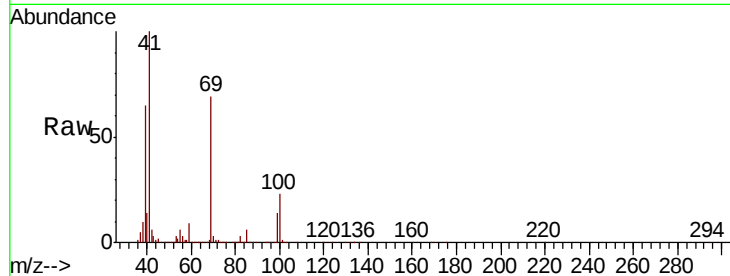
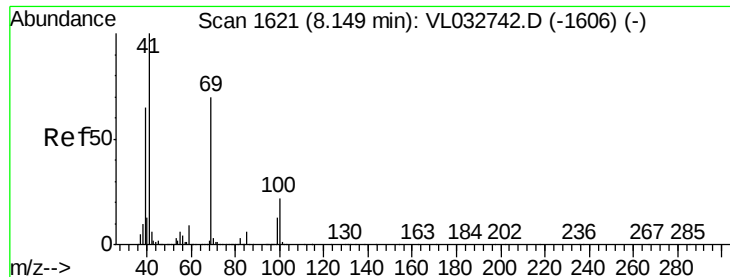
MMDadoda
11/16/2018 1:30:16 PM



#42
Bromodichloromethane
Concen: 9.298 ppbv
RT: 7.92 min Scan# 1551
Delta R.T. -0.00 min
Lab File: VL032773.D
Acq: 15 Nov 2018 00:19

Tgt Ion: 83 Resp: 2760969
Ion Ratio Lower Upper
83 100
85 65.7 51.8 77.8
127 8.0 5.9 8.9





#43

Methyl Methacrylate

Concen: 10.593 ppbv

RT: 8.15 min Scan# 1620

Delta R.T. -0.00 min

Lab File: VL032773.D

Acq: 15 Nov 2018 00:19

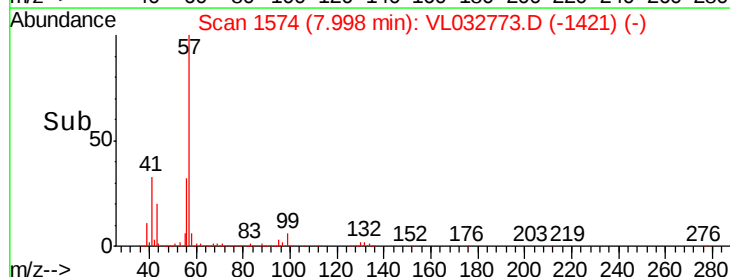
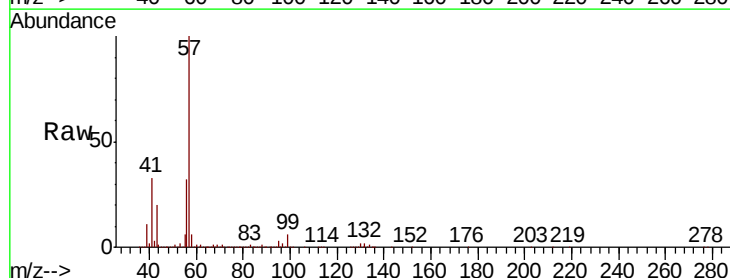
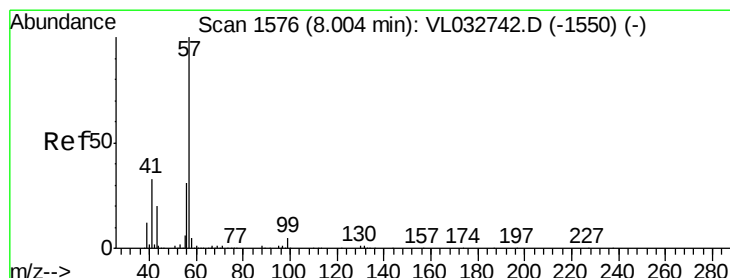
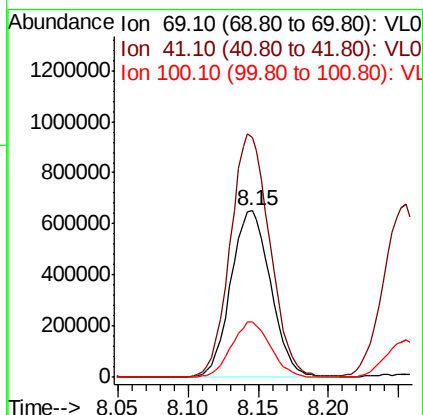
Tot Ion: 69 Resp: 1286966

Ion	Ratio	Lower	Upper
69	100		
41	144.9	115.0	172.4
100	32.6	25.4	38.0

Instrument :
MSVOA_L
ClientSampleId :
VL1114ABS05

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#44

2,2,4-Trimethylpentane

Concen: 9.774 ppbv

RT: 8.00 min Scan# 1574

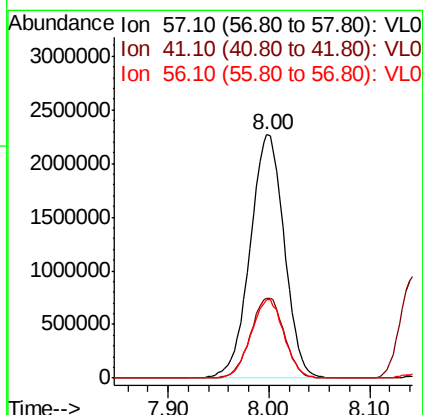
Delta R.T. -0.01 min

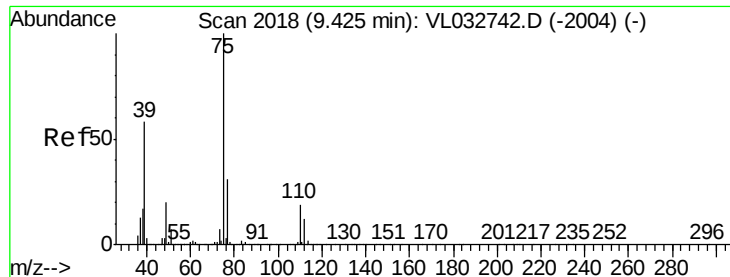
Lab File: VL032773.D

Acq: 15 Nov 2018 00:19

Tgt Ion: 57 Resp: 5315069

Ion	Ratio	Lower	Upper
57	100		
41	32.3	26.6	39.8
56	31.2	24.8	37.2





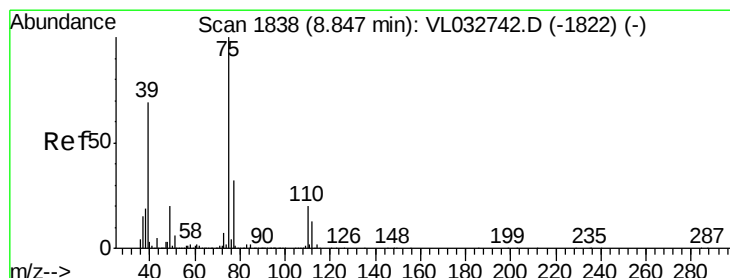
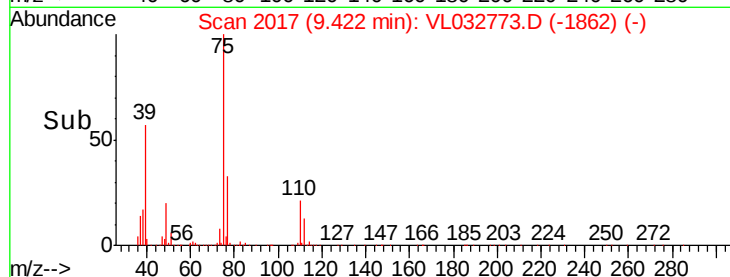
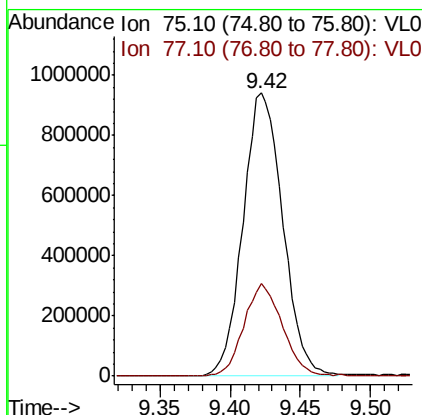
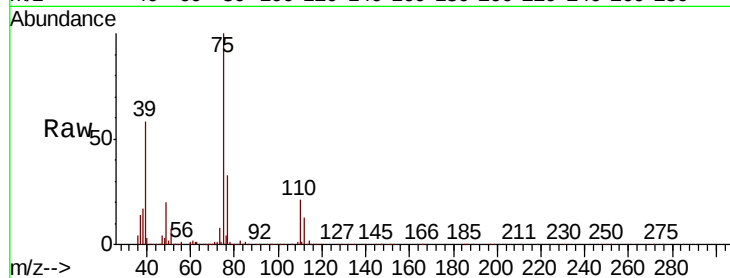
#45
t-1,3-Dichloropropene
Concen: 11.418 ppbv
RT: 9.42 min Scan# 2017
Delta R.T. -0.00 min
Lab File: VL032773.D
Acq: 15 Nov 2018 00:19

Instrument :
MSVOA_L
ClientSampleId :
VL1114ABS05

Tot Ion: 75 Resp: 1861336
Ion Ratio Lower Upper
75 100
77 32.6 24.6 36.8

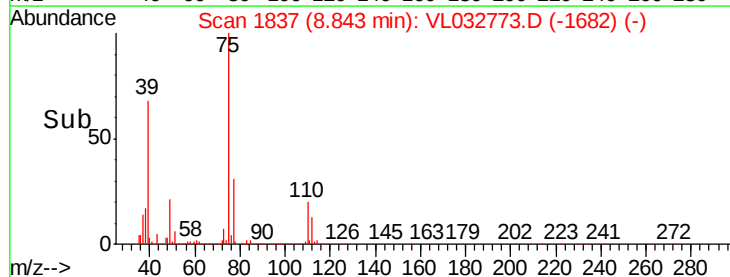
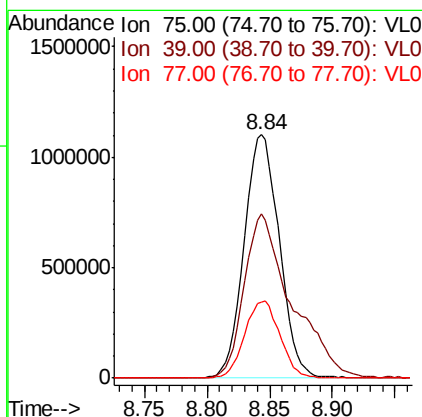
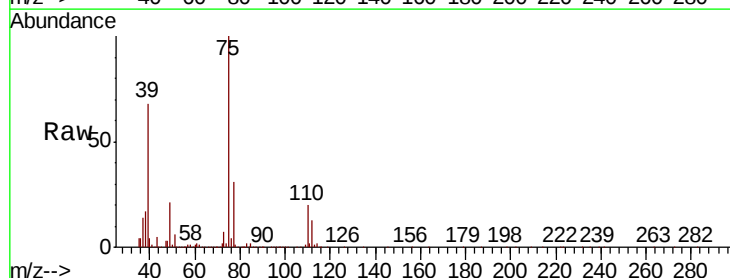
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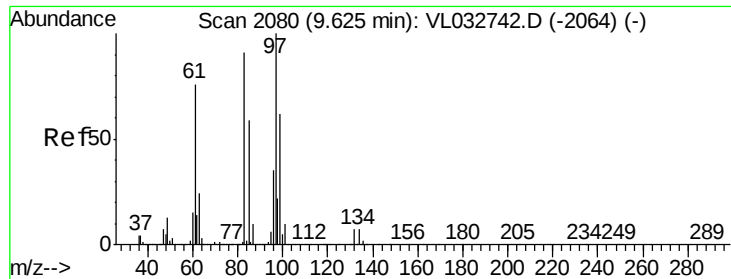
MMDadoda
11/16/2018 1:30:16 PM



#46
cis-1,3-Dichloropropene
Concen: 10.872 ppbv
RT: 8.84 min Scan# 1837
Delta R.T. -0.00 min
Lab File: VL032773.D
Acq: 15 Nov 2018 00:19

Tgt Ion: 75 Resp: 2141342
Ion Ratio Lower Upper
75 100
39 67.6 55.2 82.8
77 31.0 25.8 38.6





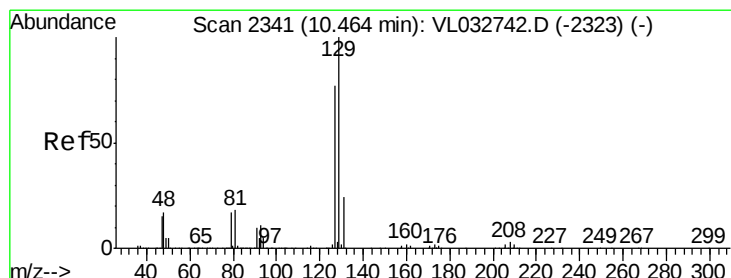
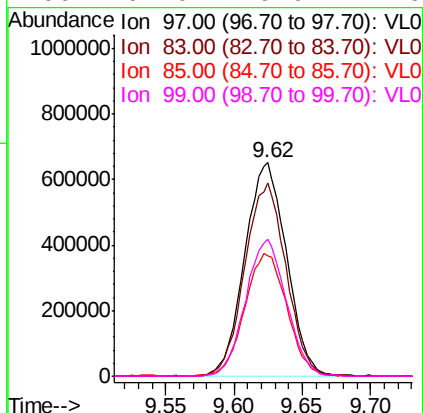
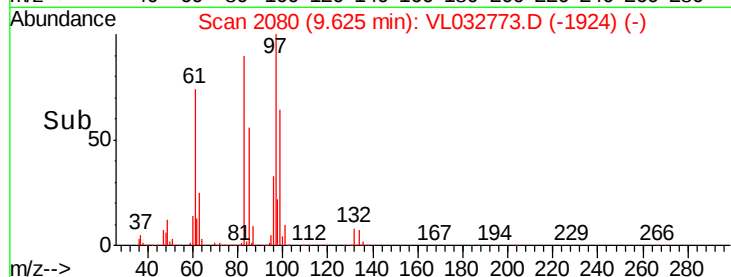
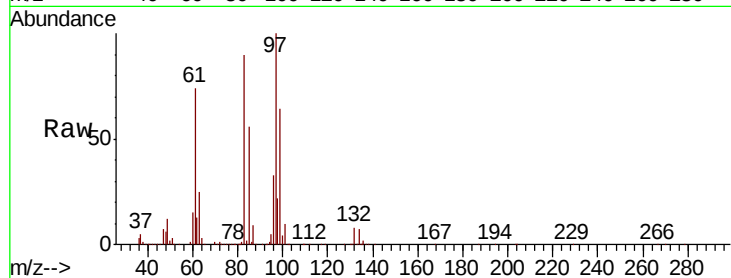
#47
 1,1,2-Trichloroethane
 Concen: 9.448 ppbv
 RT: 9.62 min Scan# 2080
 Delta R.T. -0.00 min
 Lab File: VL032773.D
 Acq: 15 Nov 2018 00:19

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1114ABS05

Tot Ion	Ratio	Lower	Upper
97	100		
83	90.1	73.0	109.4
85	56.1	47.0	70.4
99	64.0	49.9	74.9

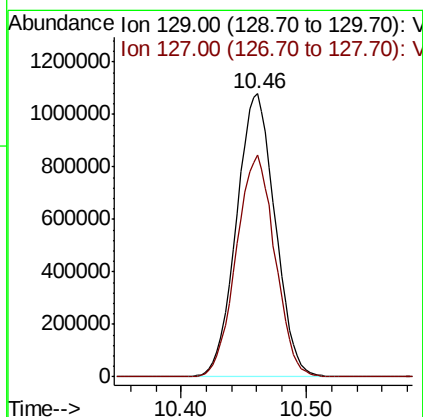
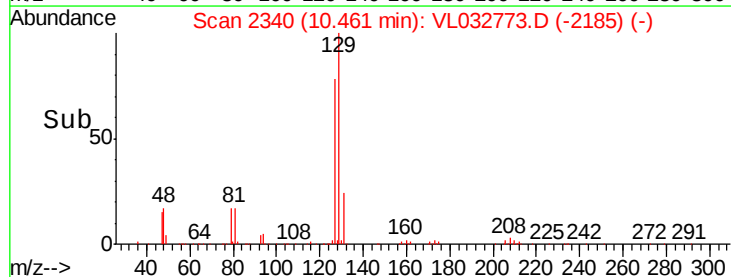
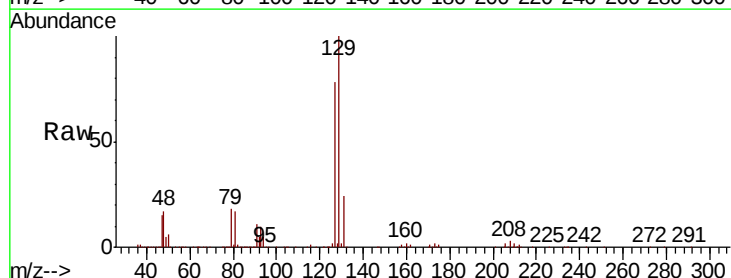
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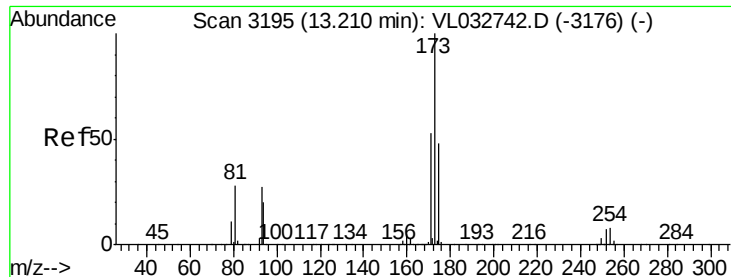
MMDadoda
 11/16/2018 1:30:16 PM



#48
 Dibromochloromethane
 Concen: 9.278 ppbv
 RT: 10.46 min Scan# 2340
 Delta R.T. -0.00 min
 Lab File: VL032773.D
 Acq: 15 Nov 2018 00:19

Tgt Ion	Ratio	Lower	Upper
129	100		
127	78.7	39.0	117.0





#49

Bromoform

Concen: 9.017 ppbv

RT: 13.21 min Scan# 3195

Delta R.T. -0.00 min

Lab File: VL032773.D

Acq: 15 Nov 2018 00:19

Instrument :

MSVOA_L

ClientSampleId :

VL1114ABS05

Tot Ion:173 Resp: 1855552

Ion Ratio Lower Upper

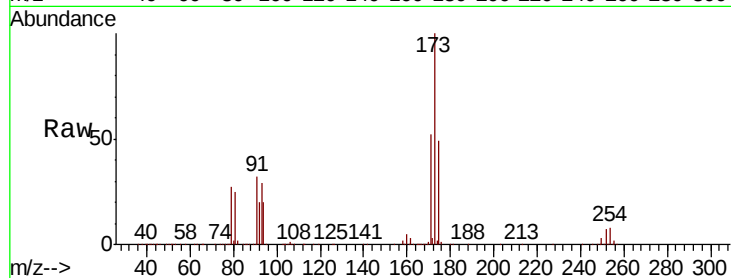
173 100

175 48.6 39.4 59.0

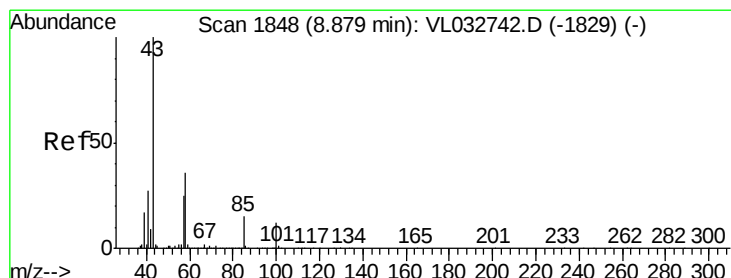
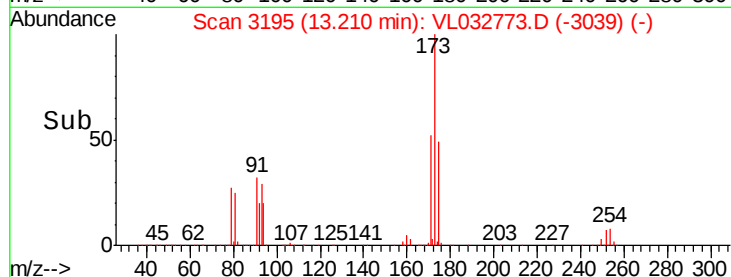
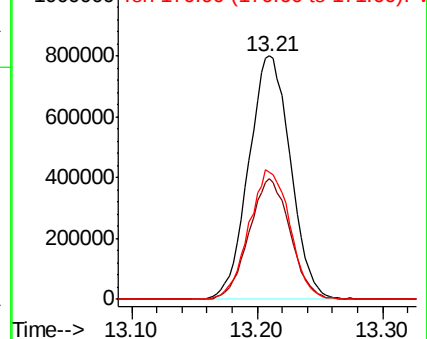
171 52.2 42.0 63.0

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Abundance Ion 172.90 (172.60 to 173.60): V
Ion 174.90 (174.60 to 175.60): V
Ion 170.90 (170.60 to 171.60): V



#50

4-Methyl-2-Pentanone

Concen: 9.988 ppbv

RT: 8.88 min Scan# 1848

Delta R.T. -0.00 min

Lab File: VL032773.D

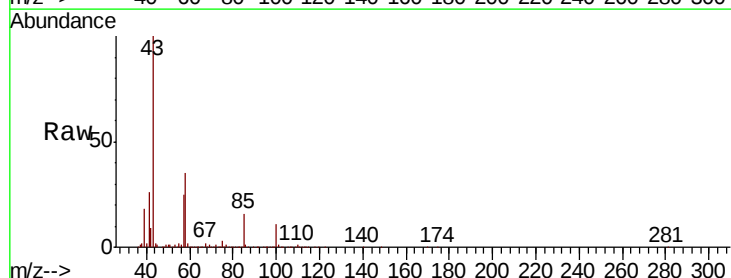
Acq: 15 Nov 2018 00:19

Tgt Ion: 43 Resp: 3306499

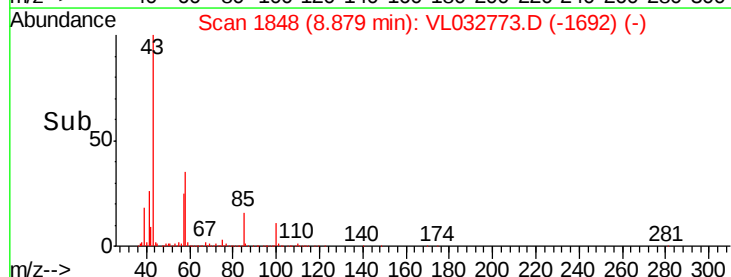
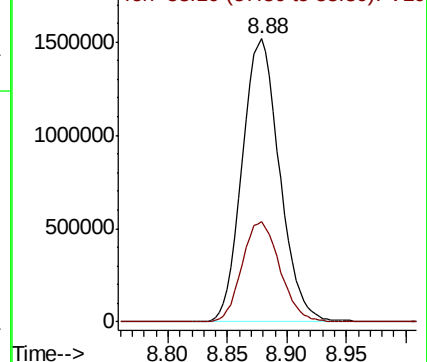
Ion Ratio Lower Upper

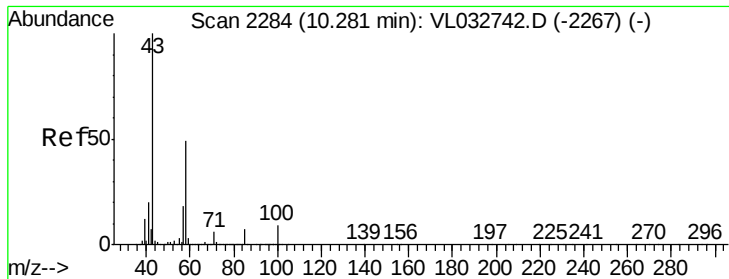
43 100

58 36.1 28.8 43.2



Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 58.10 (57.80 to 58.80): VL0





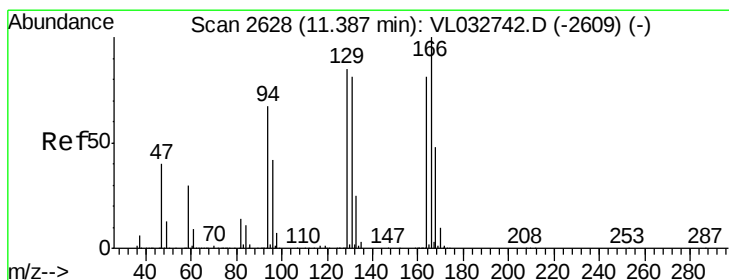
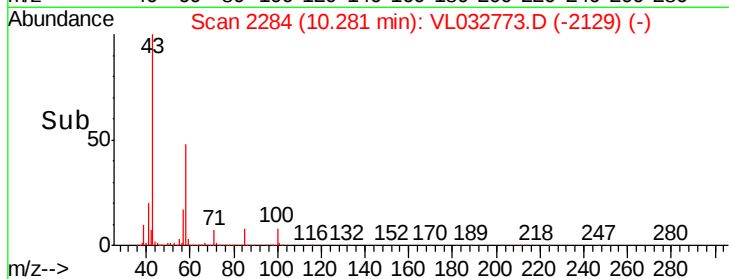
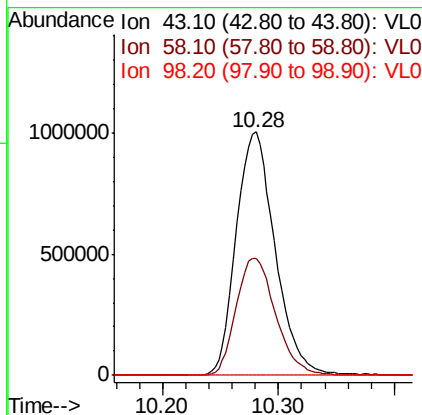
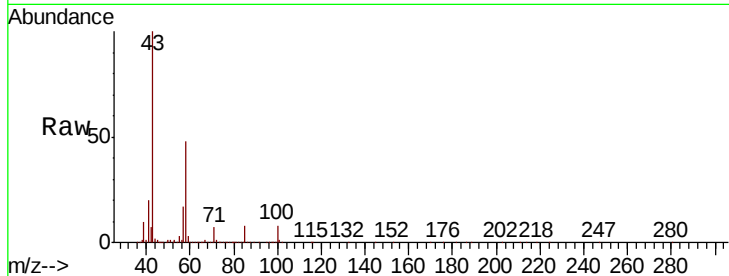
#51
2-Hexanone
Concen: 10.920 ppbv
RT: 10.28 min Scan# 2284
Delta R.T. -0.00 min
Lab File: VL032773.D
Acq: 15 Nov 2018 00:19

Instrument :
MSVOA_L
ClientSampleId :
VL1114ABS05

Tot Ion	Ratio	Lower	Upper
43	100		
58	49.2	38.9	58.3
98	0.1	0.2	0.4#

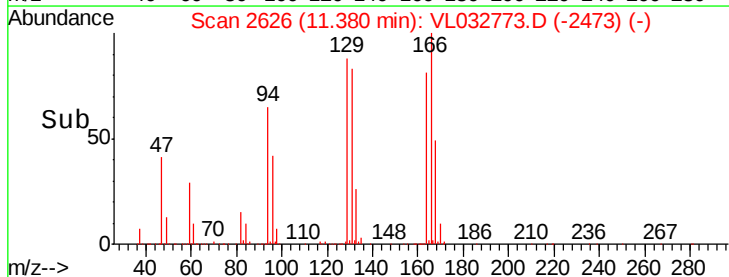
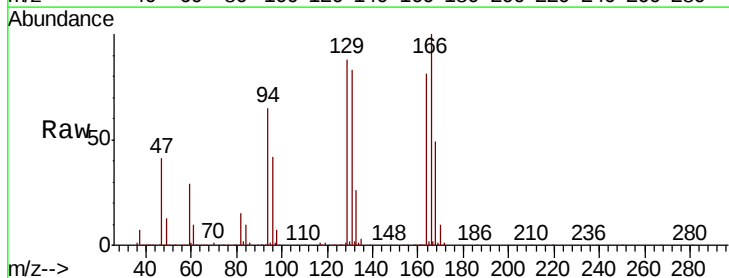
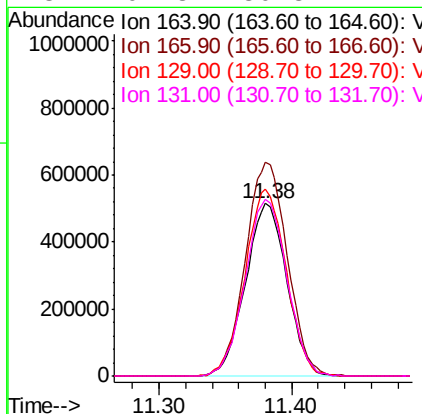
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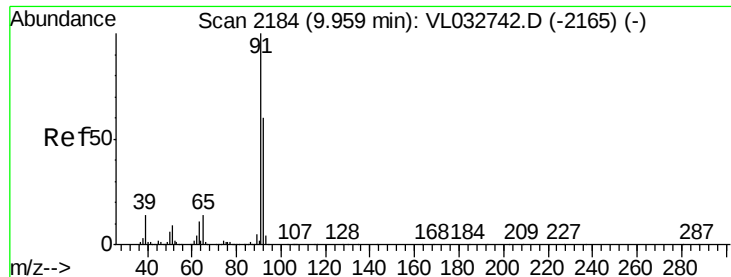
MMDadoda
11/16/2018 1:30:16 PM



#52
Tetrachloroethene
Concen: 9.825 ppbv
RT: 11.38 min Scan# 2626
Delta R.T. -0.01 min
Lab File: VL032773.D
Acq: 15 Nov 2018 00:19

Tgt Ion	Ratio	Lower	Upper
164	100		
166	123.6	99.3	148.9
129	108.4	83.9	125.9
131	102.3	80.8	121.2





#53

Toluene

Concen: 10.796 ppbv

RT: 9.96 min Scan# 2183

Delta R.T. -0.00 min

Lab File: VL032773.D

Acq: 15 Nov 2018 00:19

Instrument :

MSVOA_L

ClientSampleId :

VL1114ABS05

Tot Ion: 91 Resp: 3665020

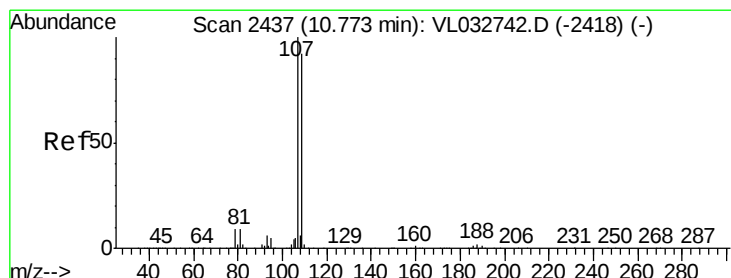
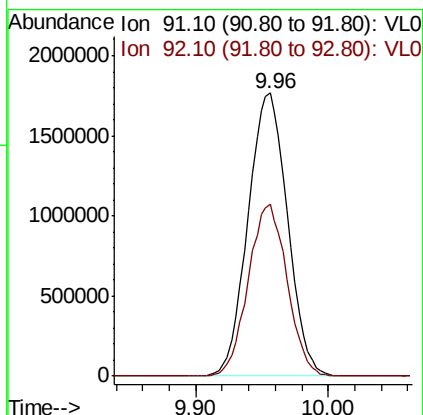
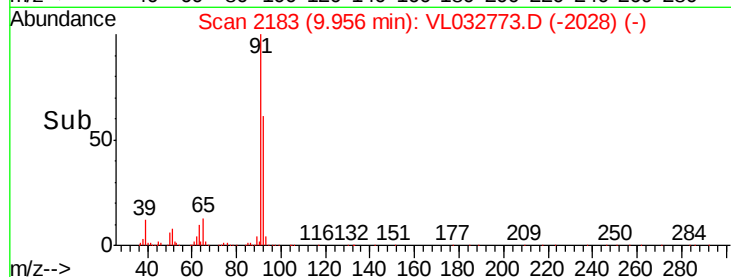
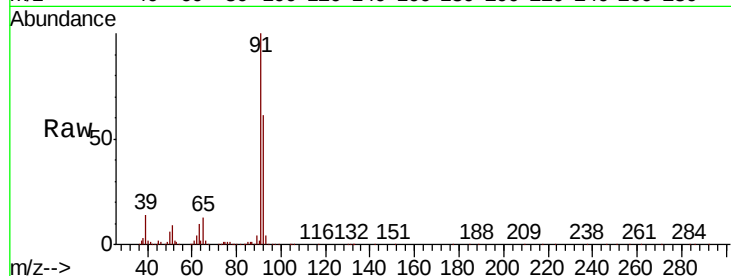
Ion Ratio Lower Upper

91 100

92 59.8 47.9 71.9

Manual Integrations
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#54

1,2-Dibromoethane

Concen: 9.737 ppbv

RT: 10.77 min Scan# 2435

Delta R.T. -0.01 min

Lab File: VL032773.D

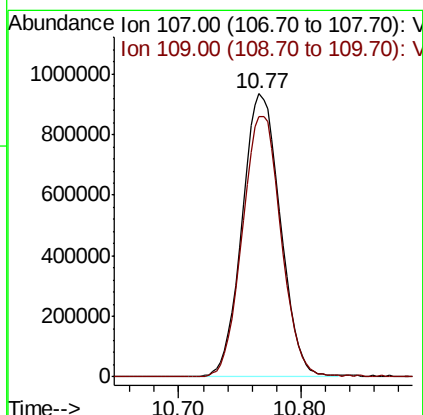
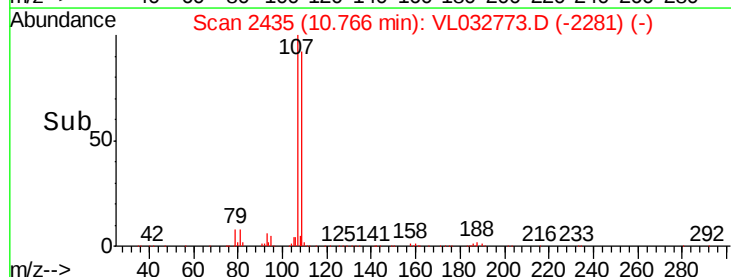
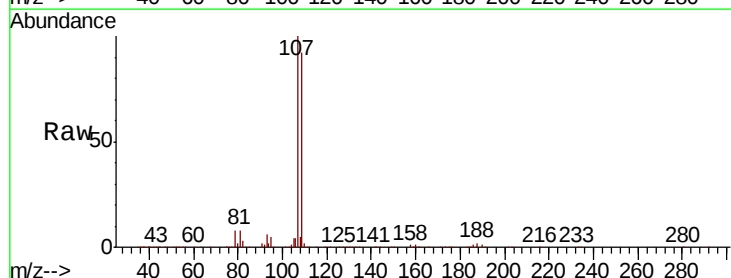
Acq: 15 Nov 2018 00:19

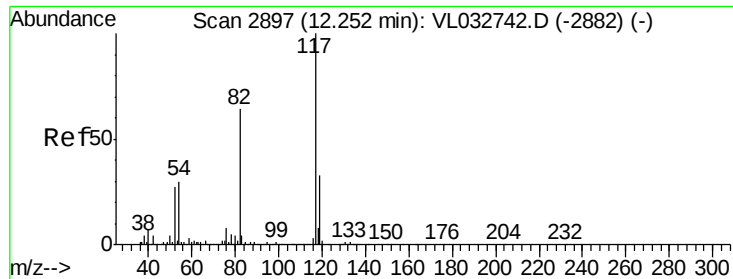
Tgt Ion: 107 Resp: 2017950

Ion Ratio Lower Upper

107 100

109 91.8 73.8 110.8





#55

Chlorobenzene-d5

Concen: 10.000 ppbv m

RT: 12.25 min Scan# 2896

Delta R.T. -0.00 min

Lab File: VL032773.D

Acq: 15 Nov 2018 00:19

Instrument :

MSVOA_L

ClientSampleId :

VL1114ABS05

Tot Ion:117 Resp: 4012320

Ion Ratio Lower Upper

117 100

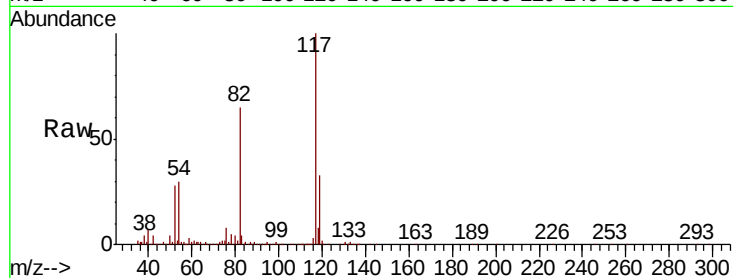
82 61.4 51.0 76.6

119 30.0 28.0 42.0

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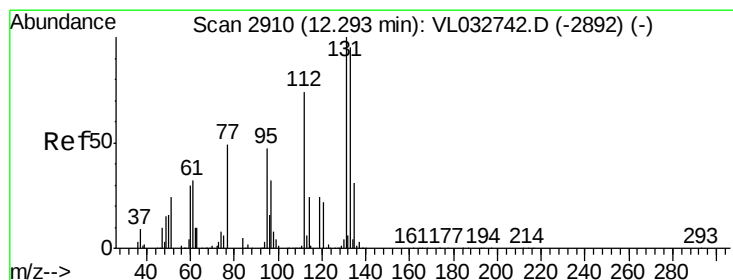
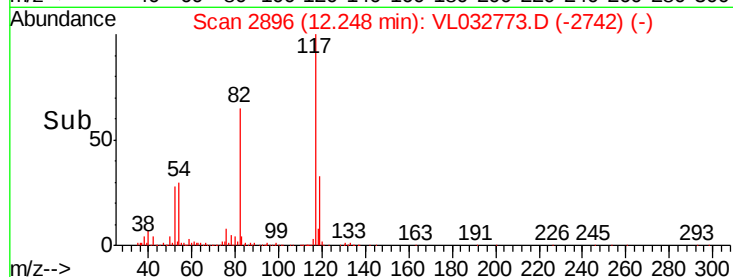
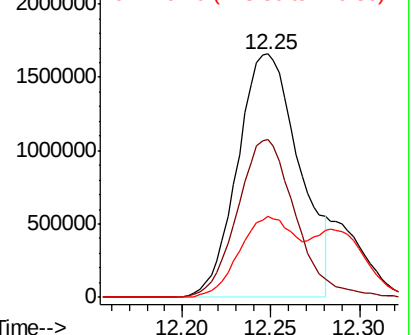
11/16/2018 1:30:16 PM



Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V



#56

1,1,1,2-Tetrachloroethane

Concen: 8.593 ppbv

RT: 12.29 min Scan# 2908

Delta R.T. -0.01 min

Lab File: VL032773.D

Acq: 15 Nov 2018 00:19

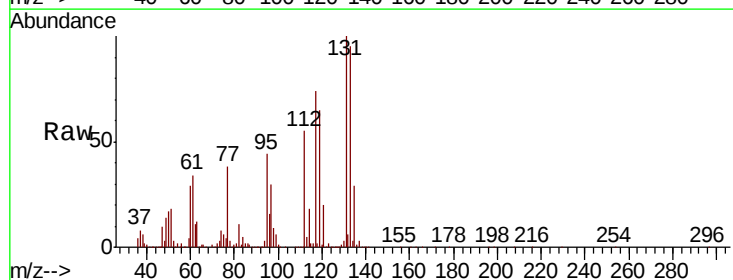
Tgt Ion:131 Resp: 1608120

Ion Ratio Lower Upper

131 100

133 94.8 75.8 113.6

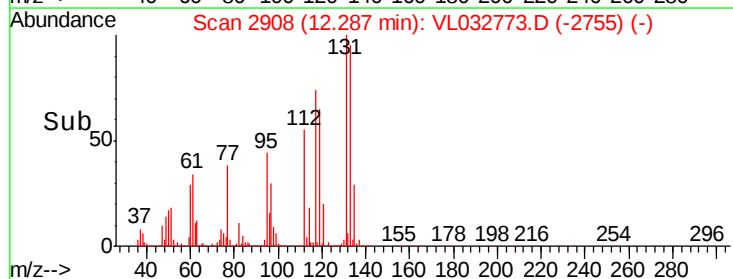
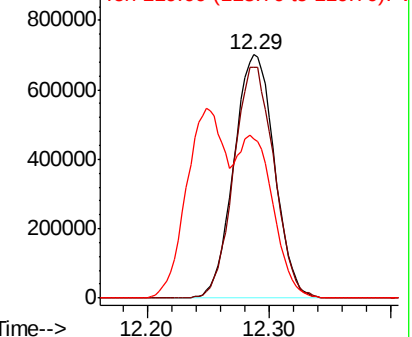
119 137.2 45.2 67.8#

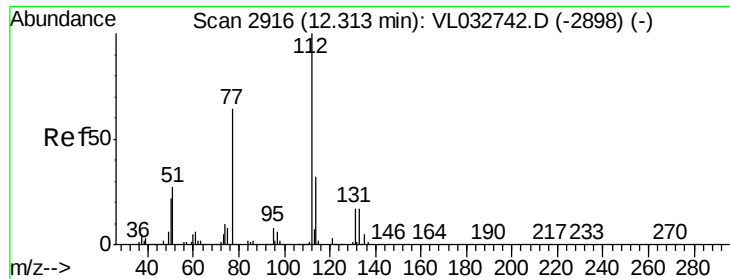


Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V





#57

Chlorobenzene

Concen: 8.833 ppbv

RT: 12.31 min Scan# 2915

Delta R.T. -0.00 min

Lab File: VL032773.D

Acq: 15 Nov 2018 00:19

Instrument :

MSVOA_L

ClientSampleId :

VL1114ABS05

Tot Ion: 112 Resp: 2713005

Ion Ratio Lower Upper

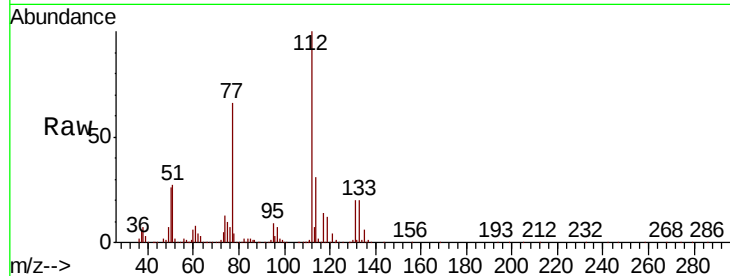
112 100

77 65.6 52.3 78.5

114 31.2 28.4 34.8

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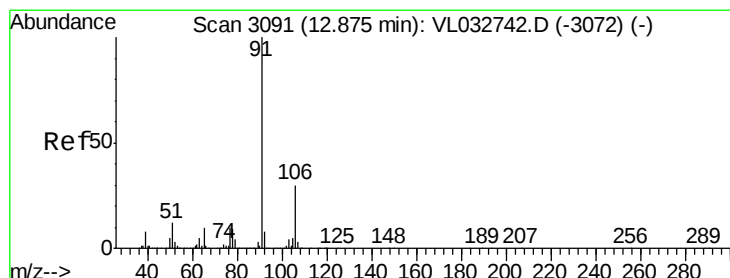
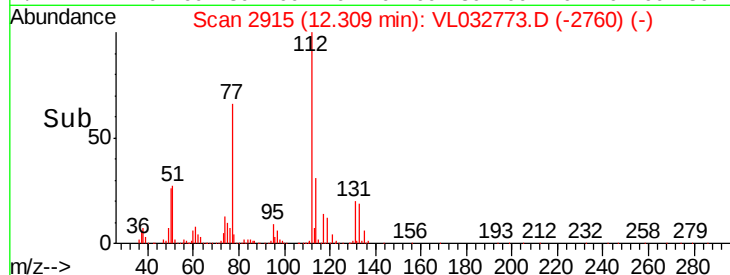
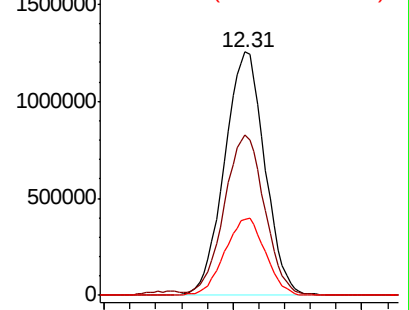
MMDadoda
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Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 10.008 ppbv

RT: 12.87 min Scan# 3090

Delta R.T. -0.00 min

Lab File: VL032773.D

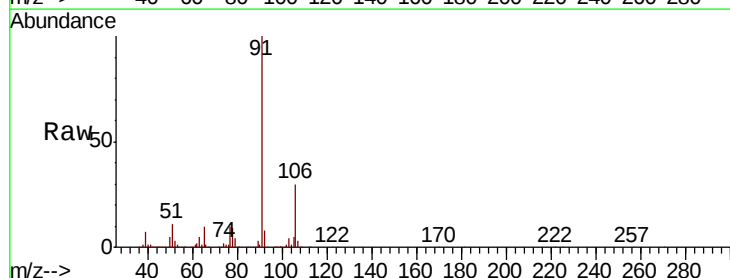
Acq: 15 Nov 2018 00:19

Tgt Ion: 91 Resp: 4832792

Ion Ratio Lower Upper

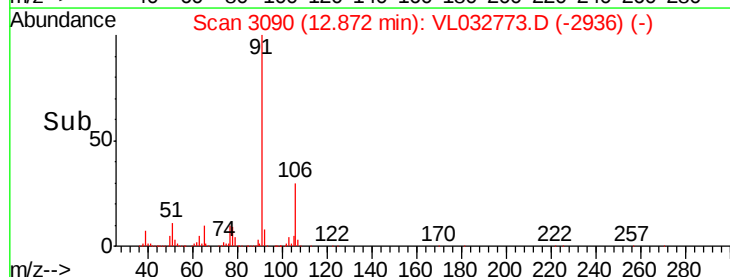
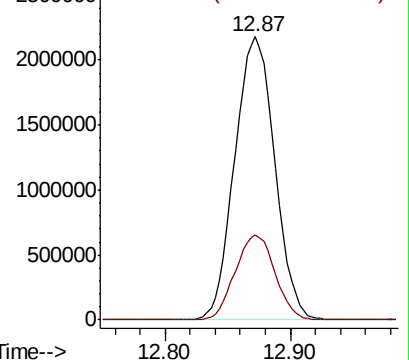
91 100

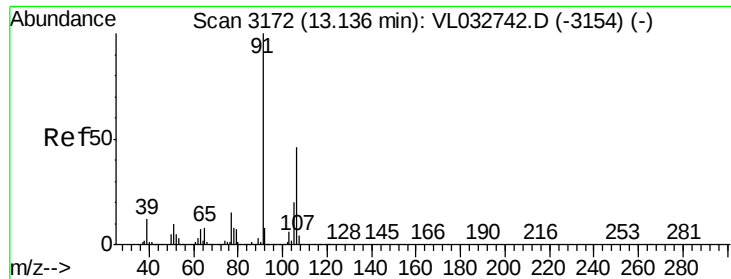
106 29.8 23.6 35.4



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





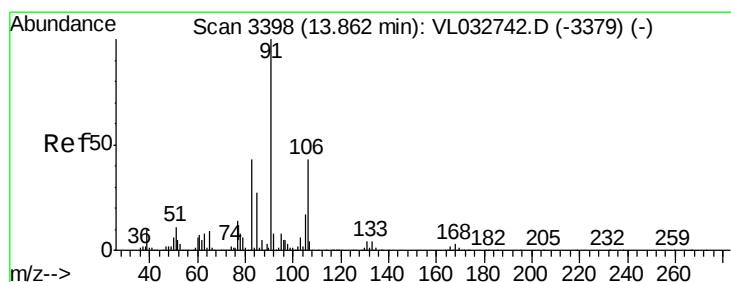
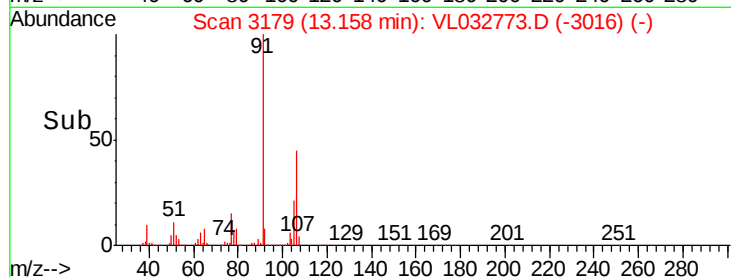
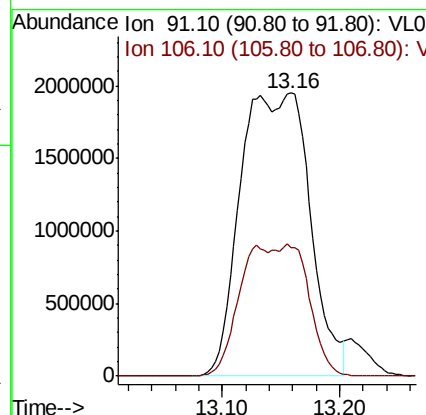
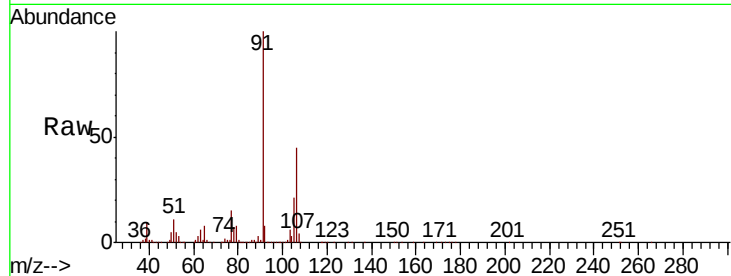
#59
m/p-Xylene
Concen: 18.614 ppbv m
RT: 13.16 min Scan# 3179
Delta R.T. 0.02 min
Lab File: VL032773.D
Acq: 15 Nov 2018 00:19

Instrument :
MSVOA_L
ClientSampleId :
VL1114ABS05

Tot Ion: 91 Resp: 8001247
Ion Ratio Lower Upper
91 100
106 0.0 36.1 54.1#

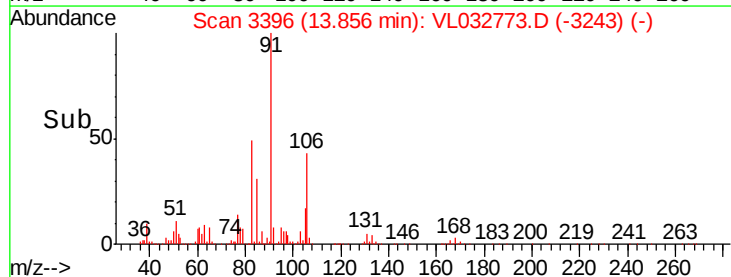
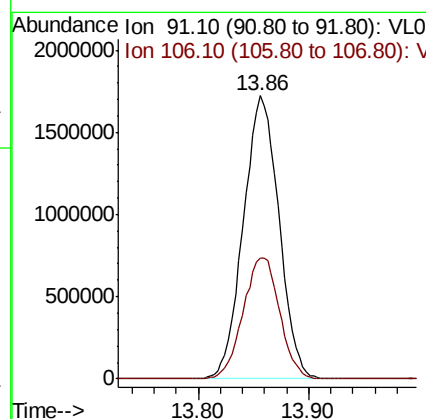
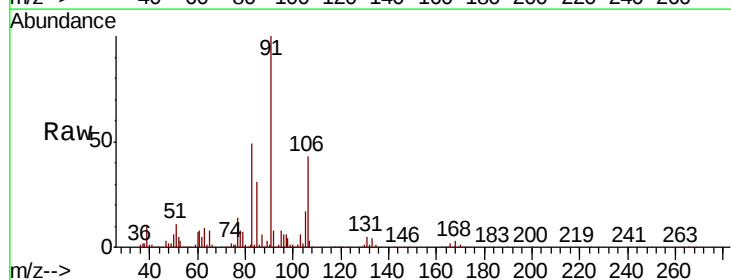
Manual Integrations
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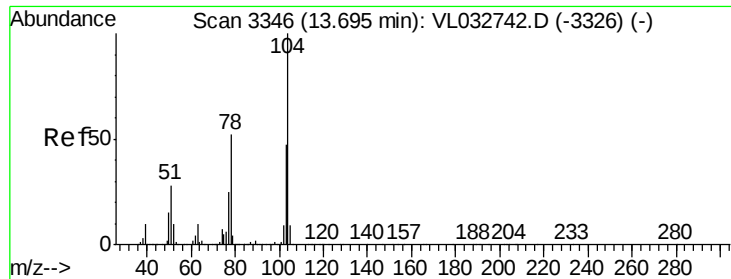
MMDadoda
11/16/2018 1:30:16 PM



#60
o-Xylene
Concen: 8.903 ppbv
RT: 13.86 min Scan# 3396
Delta R.T. -0.01 min
Lab File: VL032773.D
Acq: 15 Nov 2018 00:19

Tgt Ion: 91 Resp: 3848292
Ion Ratio Lower Upper
91 100
106 43.9 21.9 65.7





#61

Stvrene

Concen: 10.315 ppbv

RT: 13.69 min Scan# 3345

Delta R.T. -0.00 min

Lab File: VL032773.D

Acq: 15 Nov 2018 00:19

Instrument :

MSVOA_L

ClientSampleId :

VL1114ABS05

Tot Ion:104 Resp: 2902183

Ion Ratio Lower Upper

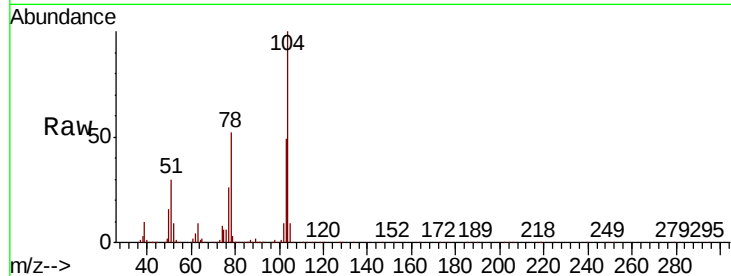
104 100

78 52.4 42.2 63.4

103 48.3 38.2 57.2

Manual Integrations
APPROVED

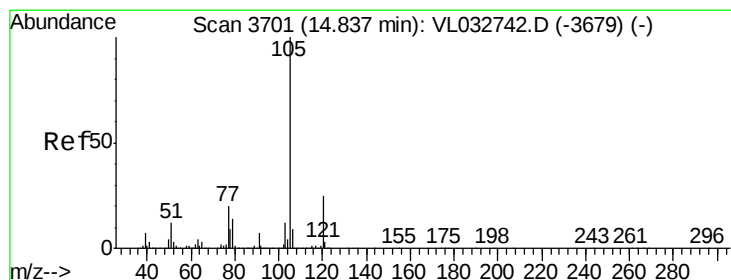
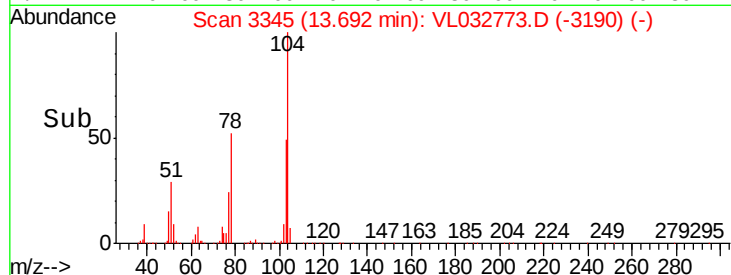
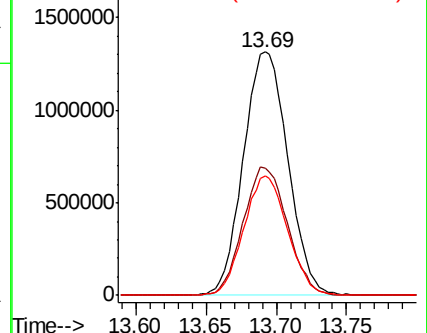
MMDadoda
11/16/2018 1:30:16 PM



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: 9.268 ppbv

RT: 14.83 min Scan# 3700

Delta R.T. -0.00 min

Lab File: VL032773.D

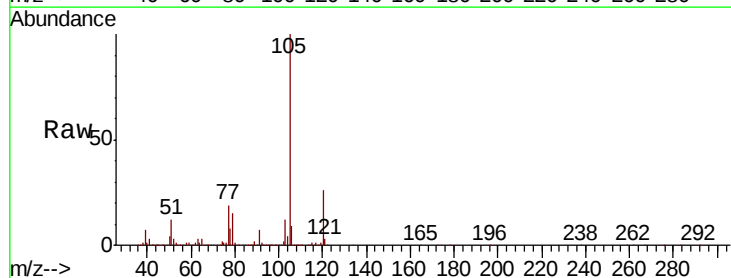
Acq: 15 Nov 2018 00:19

Tgt Ion:105 Resp: 5414451

Ion Ratio Lower Upper

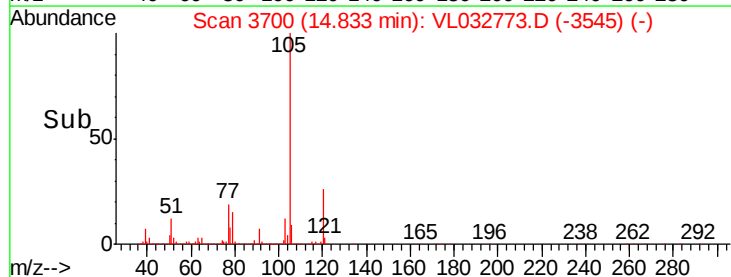
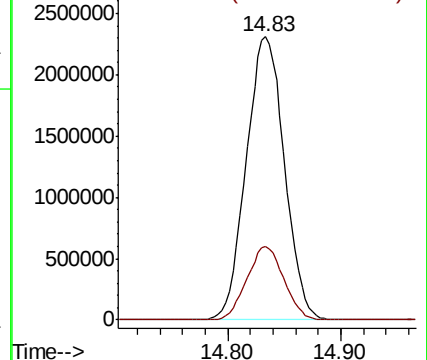
105 100

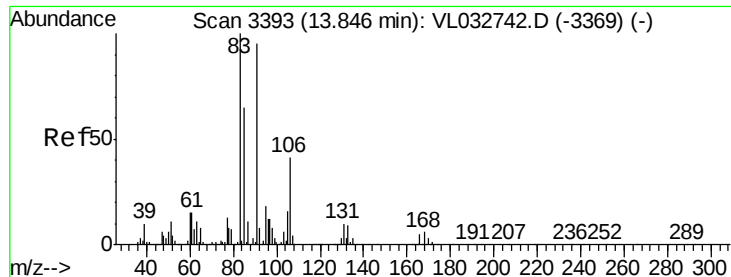
120 25.2 20.1 30.1



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: 7.599 ppbv

RT: 13.84 min Scan# 3391

Delta R.T. -0.01 min

Lab File: VL032773.D

Acq: 15 Nov 2018 00:19

Instrument :

MSVOA_L

ClientSampleId :

VL1114ABS05

Tot Ion: 83 Resp: 2560524

Ion Ratio Lower Upper

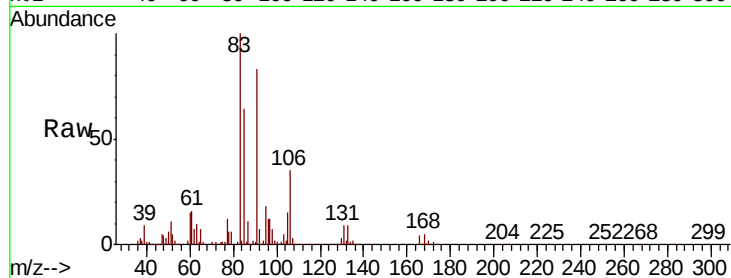
83 100

131 9.4 4.7 14.1

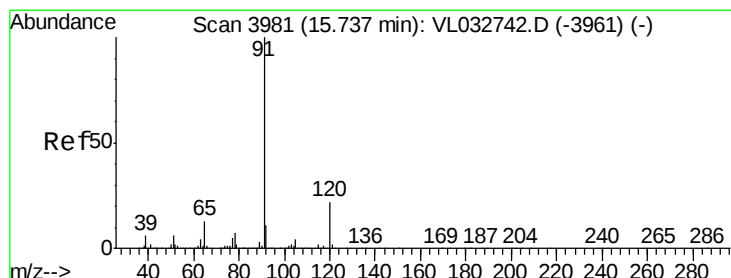
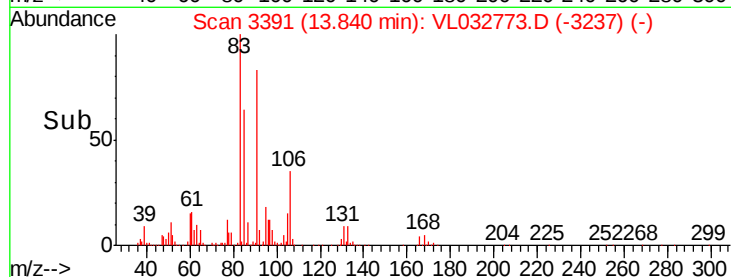
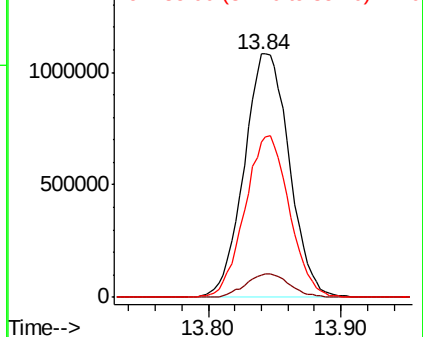
85 65.6 32.5 97.4

Manual Integrations
APPROVED

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11/16/2018 1:30:16 PM



Abundance Ion 83.00 (82.70 to 83.70): VL0
Ion 131.00 (130.70 to 131.70): V
Ion 85.00 (84.70 to 85.70): VL0



#64

n-propylbenzene

Concen: 8.893 ppbv

RT: 15.73 min Scan# 3979

Delta R.T. -0.01 min

Lab File: VL032773.D

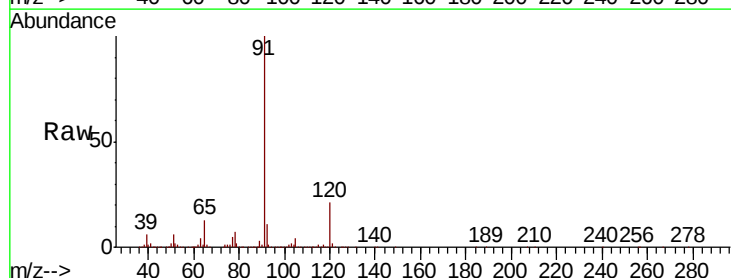
Acq: 15 Nov 2018 00:19

Tgt Ion:120 Resp: 1366629

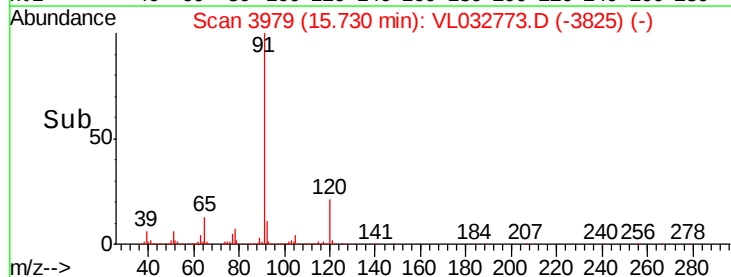
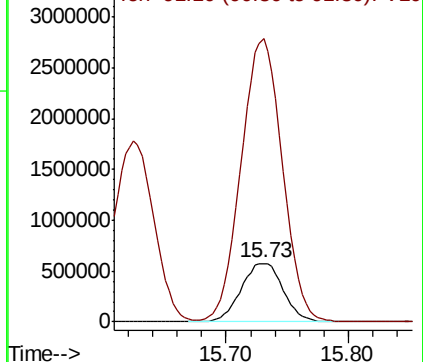
Ion Ratio Lower Upper

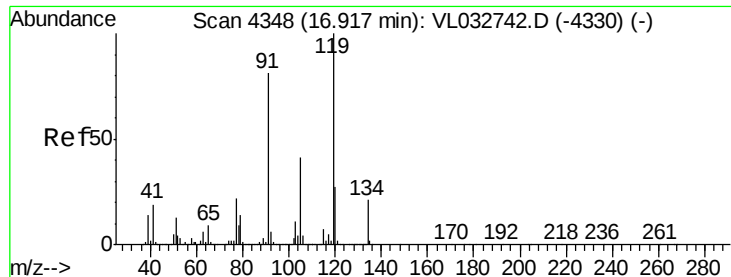
120 100

91 476.2 381.7 572.5



Abundance Ion 120.20 (119.90 to 120.90): V
Ion 91.10 (90.80 to 91.80): VL0





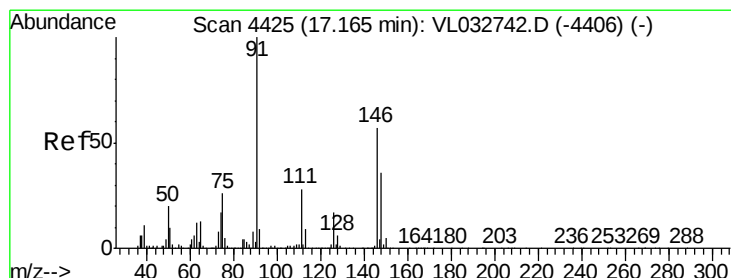
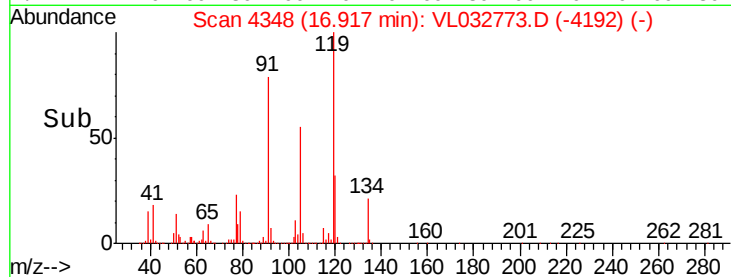
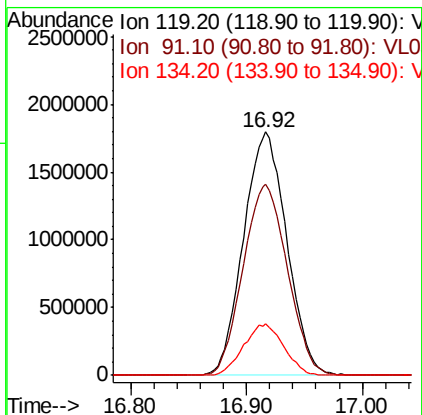
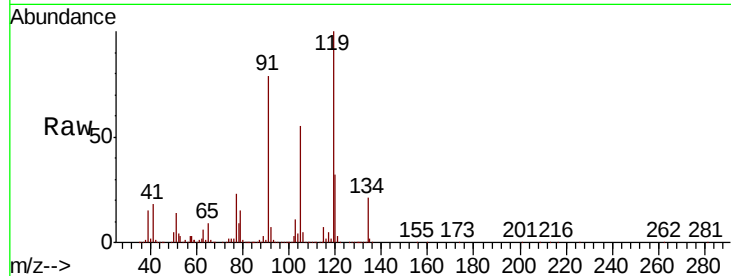
#65
tert-Butylbenzene
Concen: 8.881 ppbv
RT: 16.92 min Scan# 4348
Delta R.T. -0.00 min
Lab File: VL032773.D
Acq: 15 Nov 2018 00:19

Instrument :
MSVOA_L
ClientSampleId :
VL1114ABS05

Tot Ion	Ratio	Lower	Upper
119	100		
91	80.6	65.6	98.4
134	19.7	15.9	23.9

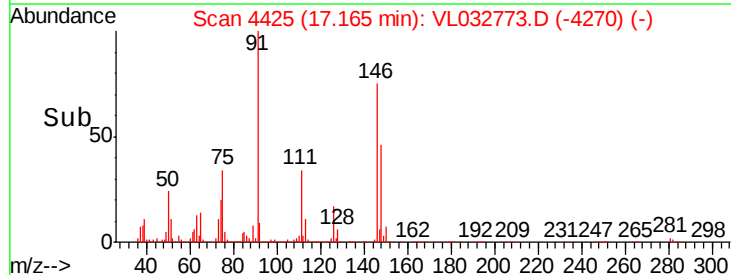
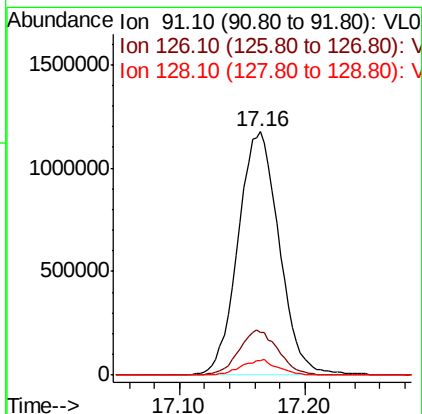
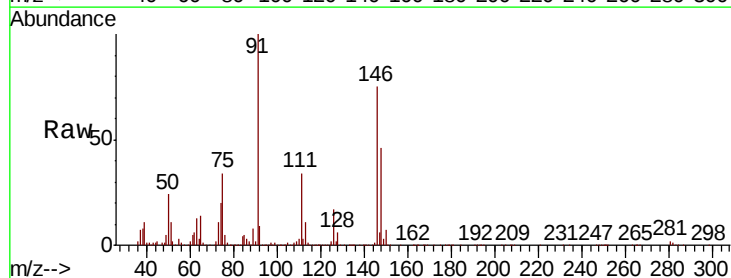
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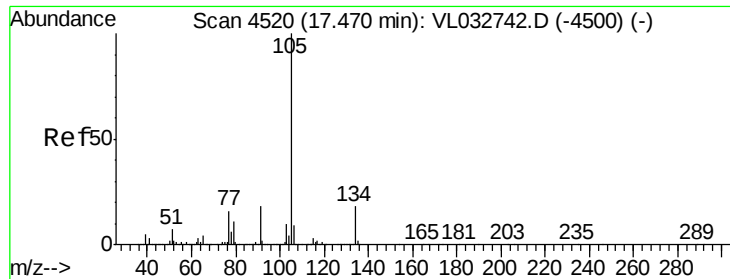
MMDadoda
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#66
Benzyl Chloride
Concen: 9.199 ppbv
RT: 17.16 min Scan# 4425
Delta R.T. -0.00 min
Lab File: VL032773.D
Acq: 15 Nov 2018 00:19

Tgt Ion	Ratio	Lower	Upper
91	100		
126	17.9	14.2	21.2
128	5.7	4.5	6.7





#67

sec-Butylbenzene

Concen: 8.713 ppbv

RT: 17.47 min Scan# 4519

Delta R.T. -0.00 min

Lab File: VL032773.D

Acq: 15 Nov 2018 00:19

Instrument :

MSVOA_L

ClientSampleId :

VL1114ABS05

Tot Ion: 105 Resp: 6575972

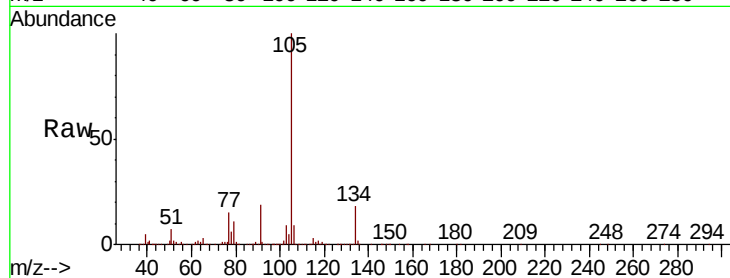
Ion Ratio Lower Upper

105 100

134 18.4 14.6 21.8

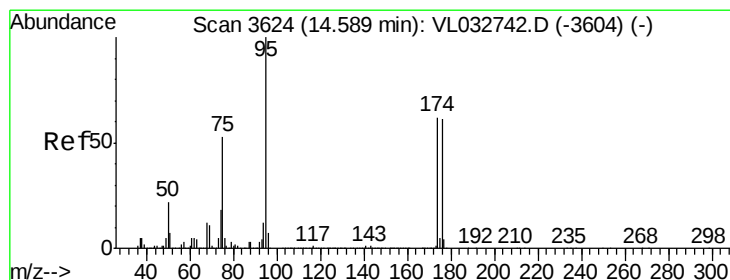
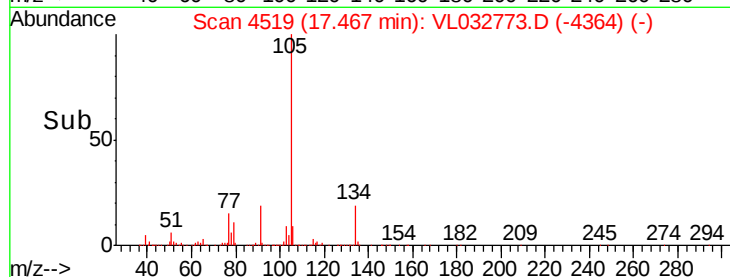
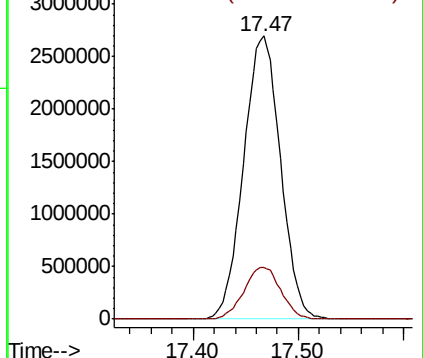
Manual Integrations
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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 9.581 ppbv

RT: 14.58 min Scan# 3622

Delta R.T. -0.01 min

Lab File: VL032773.D

Acq: 15 Nov 2018 00:19

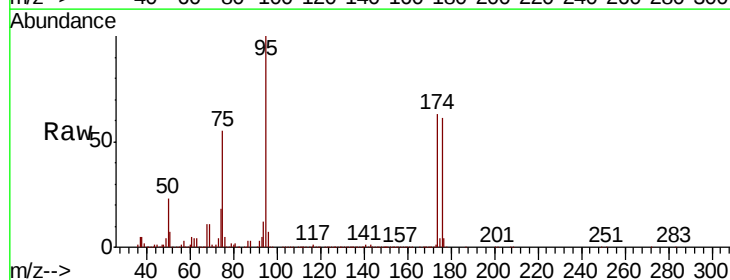
Tgt Ion: 95 Resp: 2875137

Ion Ratio Lower Upper

95 100

174 62.9 50.7 76.1

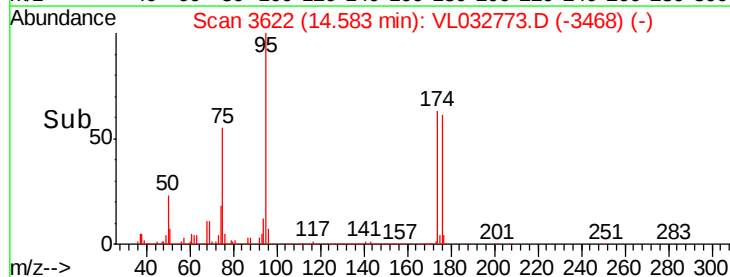
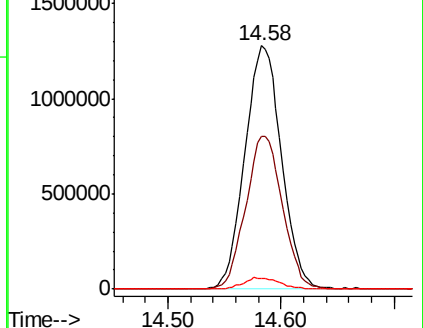
175 4.7 3.8 5.6

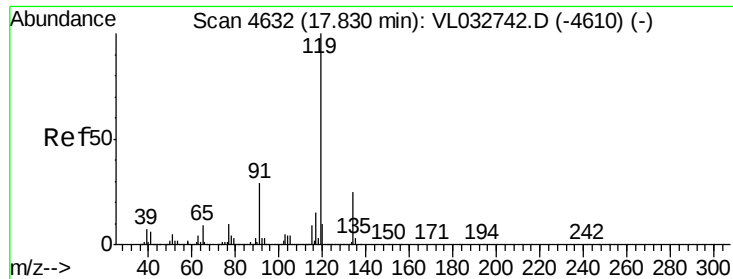


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





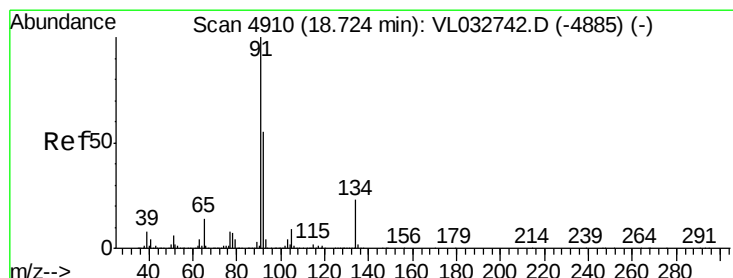
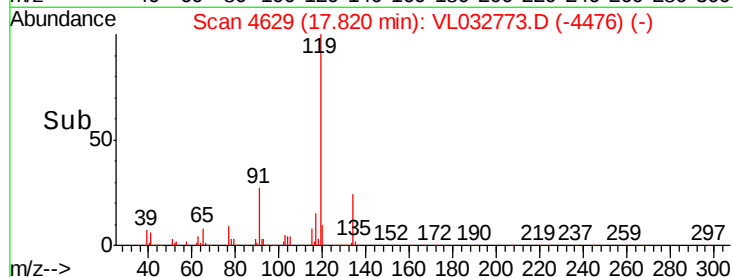
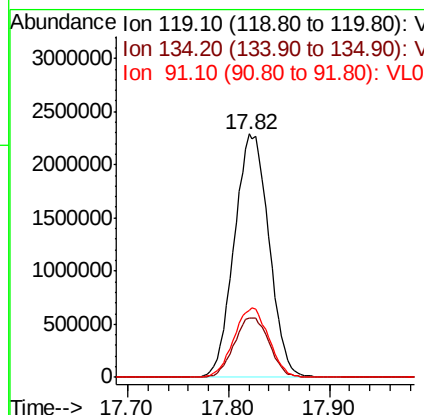
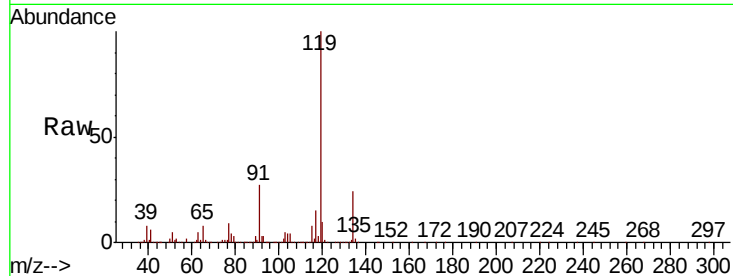
#69
 p-Isopropyltoluene
 Concen: 9.100 ppbv
 RT: 17.82 min Scan# 4629
 Delta R.T. -0.01 min
 Lab File: VL032773.D
 Acq: 15 Nov 2018 00:19

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1114ABS05

Tot Ion	Ratio	Lower	Upper
119	100		
134	24.9	20.2	30.4
91	28.7	23.5	35.3

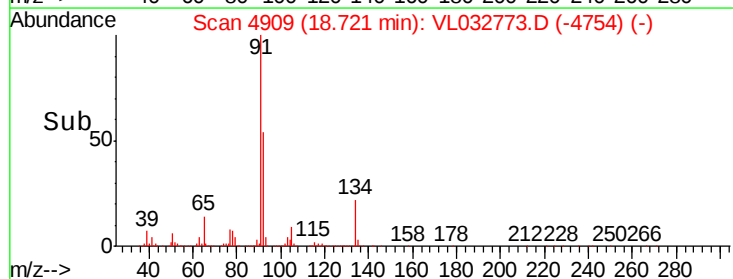
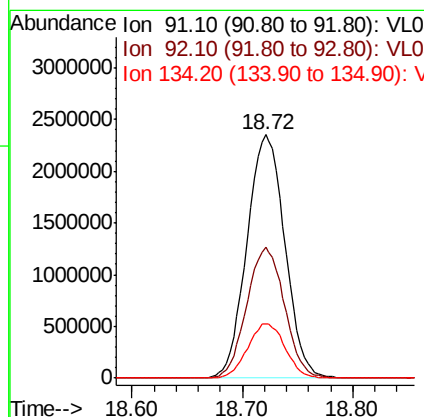
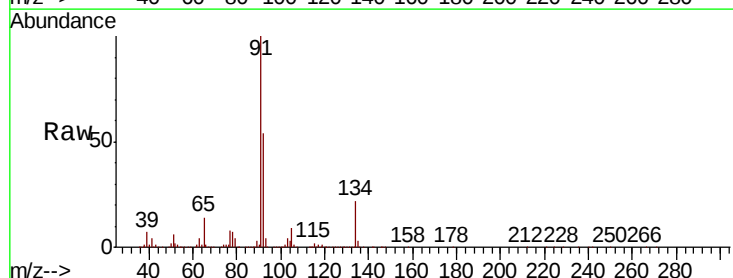
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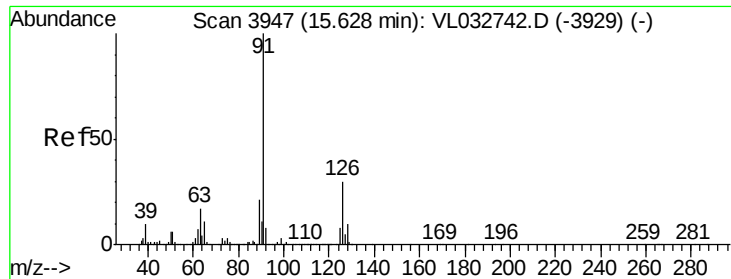
MMDadoda
 11/16/2018 1:30:16 PM



#70
 n-Butylbenzene
 Concen: 9.209 ppbv
 RT: 18.72 min Scan# 4909
 Delta R.T. -0.00 min
 Lab File: VL032773.D
 Acq: 15 Nov 2018 00:19

Tgt Ion	Ratio	Lower	Upper
91	100		
92	53.4	42.9	64.3
134	22.3	17.8	26.8





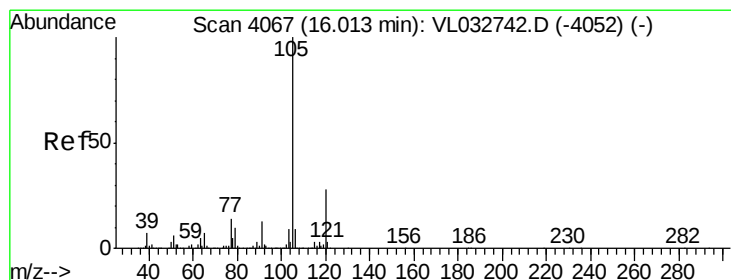
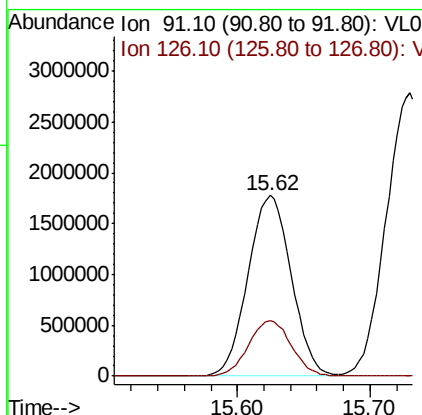
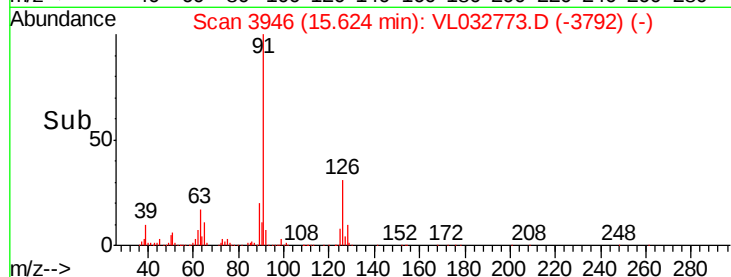
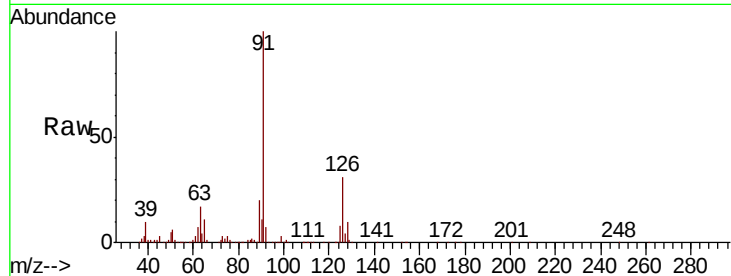
#71
2-Chlorotoluene
Concen: 9.290 ppbv
RT: 15.62 min Scan# 3946
Delta R.T. -0.00 min
Lab File: VL032773.D
Acq: 15 Nov 2018 00:19

Instrument :
MSVOA_L
ClientSampleId :
VL1114ABS05

Tot Ion: 91 Resp: 4047554
Ion Ratio Lower Upper
91 100
126 30.4 12.1 48.5

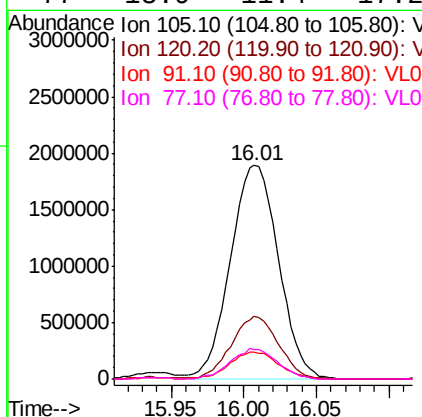
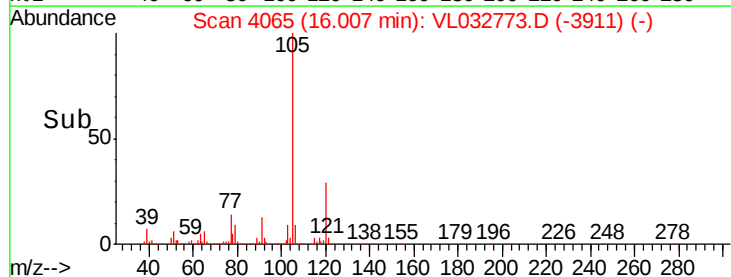
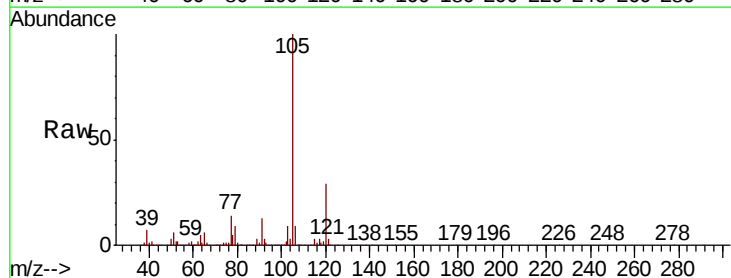
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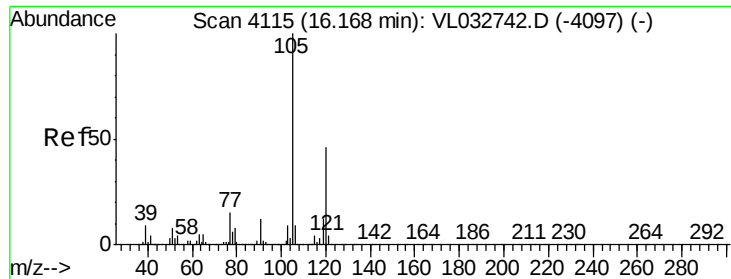
MMDadoda
11/16/2018 1:30:16 PM



#72
4-Ethyltoluene
Concen: 9.178 ppbv
RT: 16.01 min Scan# 4065
Delta R.T. -0.01 min
Lab File: VL032773.D
Acq: 15 Nov 2018 00:19

Tgt Ion: 105 Resp: 4348220
Ion Ratio Lower Upper
105 100
120 29.1 22.9 34.3
91 12.9 10.6 15.8
77 13.9 11.4 17.2





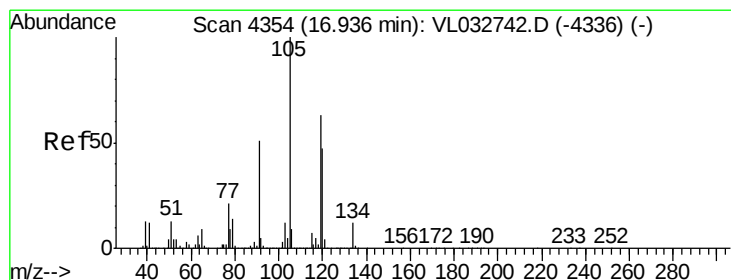
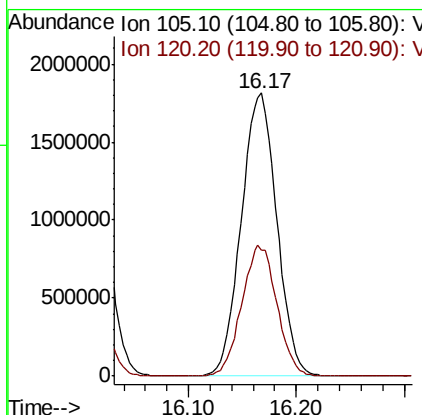
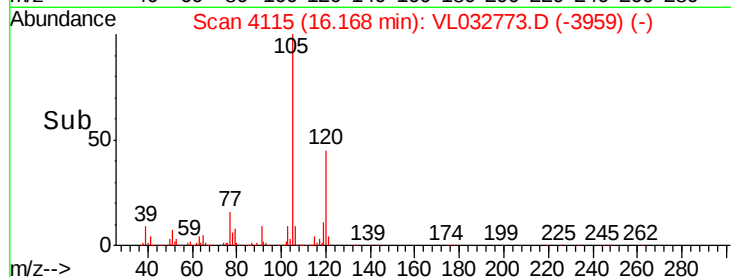
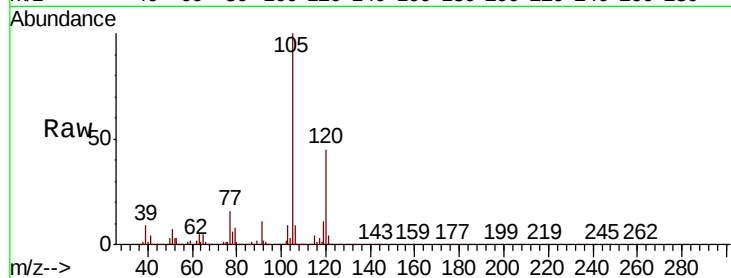
#73
 1,3,5-Trimethylbenzene
 Concen: 8.951 ppbv
 RT: 16.17 min Scan# 4115
 Delta R.T. -0.00 min
 Lab File: VL032773.D
 Acq: 15 Nov 2018 00:19

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1114ABS05

Tot Ion:105 Resp: 4146164
 Ion Ratio Lower Upper
 105 100
 120 44.6 36.6 55.0

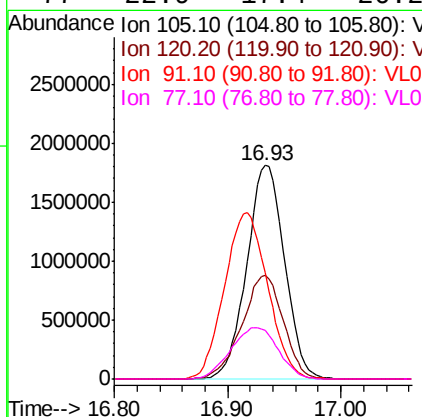
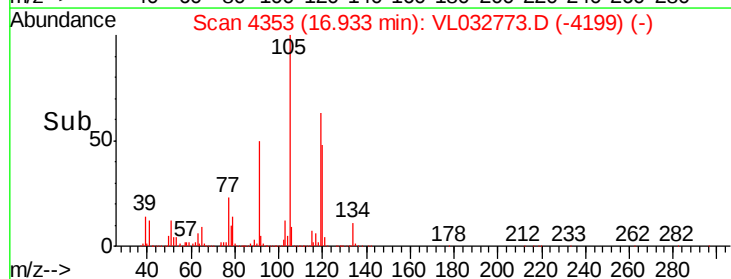
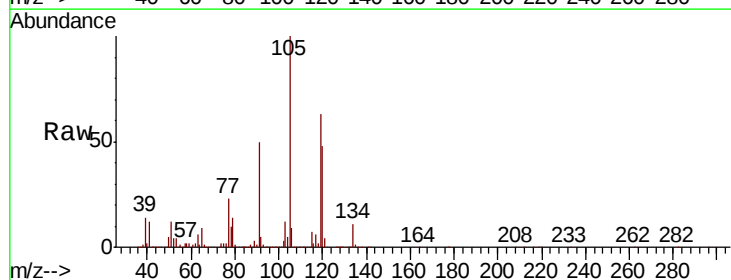
Manual Integrations
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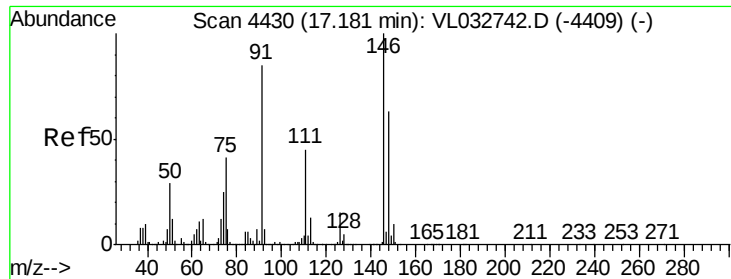
MMDadoda
 11/16/2018 1:30:16 PM



#74
 1,2,4-Trimethylbenzene
 Concen: 8.484 ppbv
 RT: 16.93 min Scan# 4353
 Delta R.T. -0.00 min
 Lab File: VL032773.D
 Acq: 15 Nov 2018 00:19

Tgt Ion:105 Resp: 4205399
 Ion Ratio Lower Upper
 105 100
 120 48.2 37.6 56.4
 91 49.6 42.5 63.7
 77 22.9 17.4 26.2





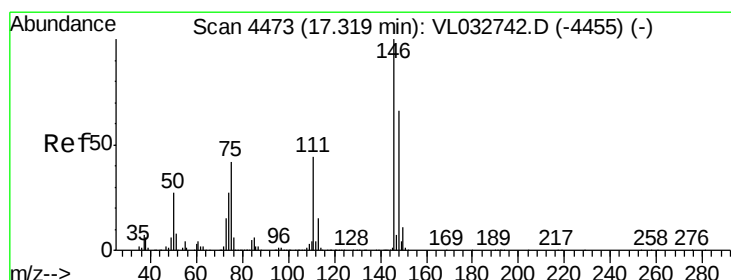
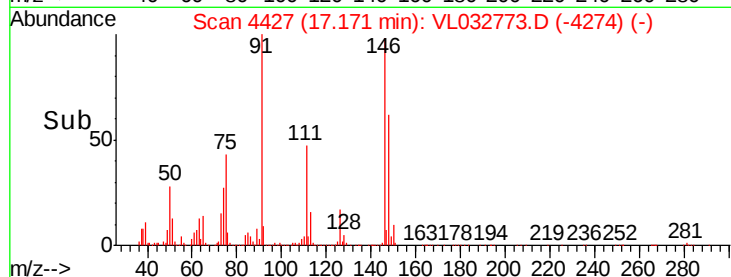
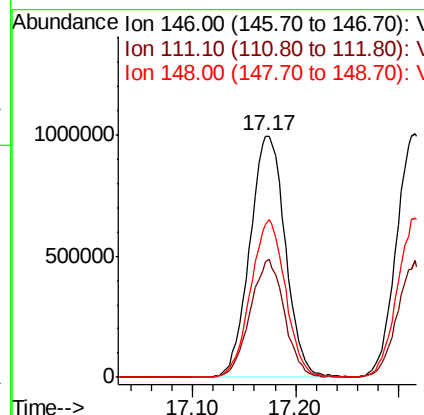
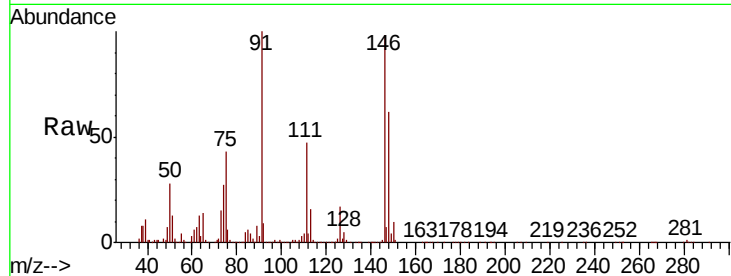
#75
 1,3-Dichlorobenzene
 Concen: 8.370 ppbv
 RT: 17.17 min Scan# 4427
 Delta R.T. -0.01 min
 Lab File: VL032773.D
 Acq: 15 Nov 2018 00:19

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1114ABS05

Tot Ion	Ratio	Lower	Upper
146	100		
111	47.3	23.5	70.6
148	64.1	31.8	95.3

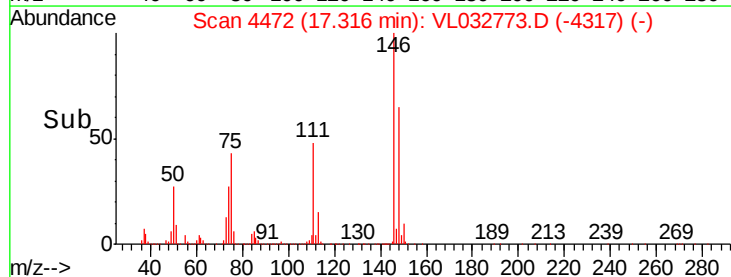
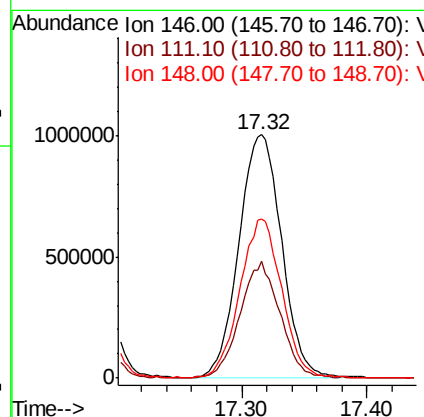
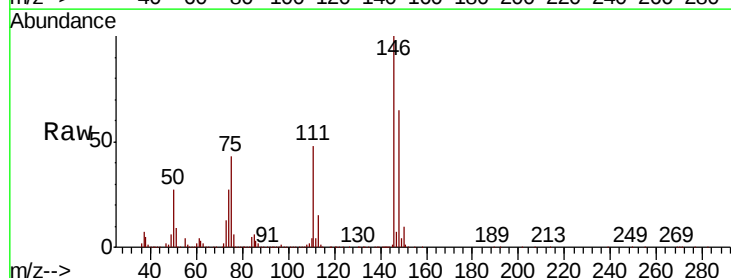
Manual Integrations
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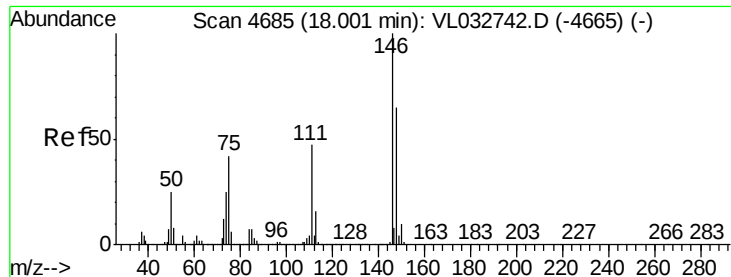
MMDadoda
 11/16/2018 1:30:16 PM



#76
 1,4-Dichlorobenzene
 Concen: 8.881 ppbv
 RT: 17.32 min Scan# 4472
 Delta R.T. -0.00 min
 Lab File: VL032773.D
 Acq: 15 Nov 2018 00:19

Tgt Ion	Ratio	Lower	Upper
146	100		
111	45.6	22.5	67.5
148	64.7	32.5	97.5





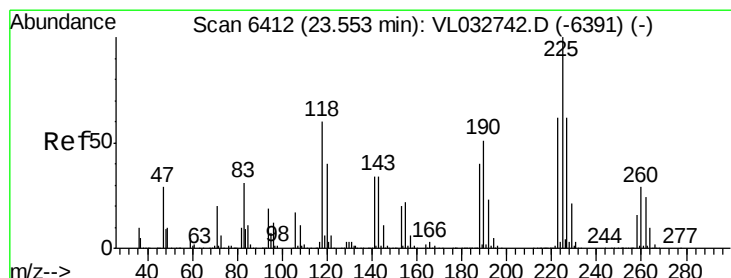
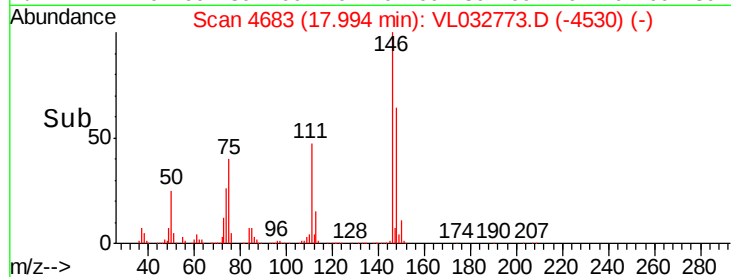
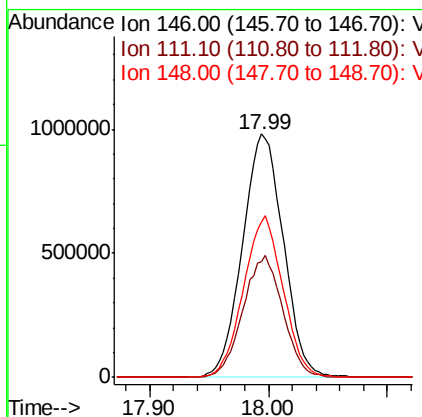
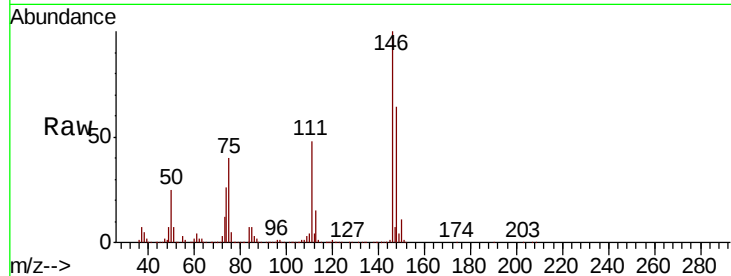
#77
 1,2-Dichlorobenzene
 Concen: 8.842 ppbv
 RT: 17.99 min Scan# 4683
 Delta R.T. -0.01 min
 Lab File: VL032773.D
 Acq: 15 Nov 2018 00:19

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1114ABS05

Tot Ion	Ratio	Lower	Upper
146	100		
111	49.1	24.4	73.2
148	64.4	32.2	96.6

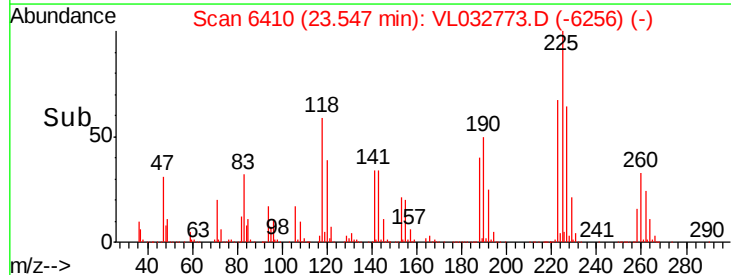
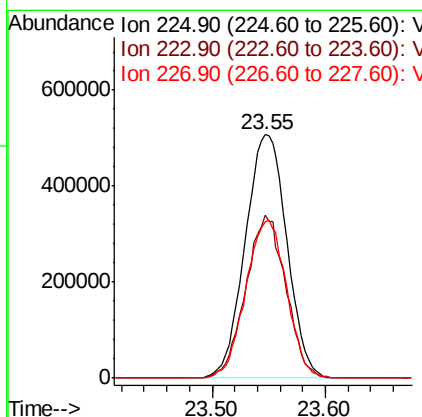
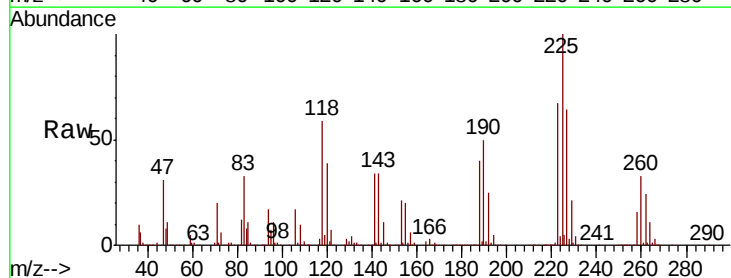
Manual Integrations
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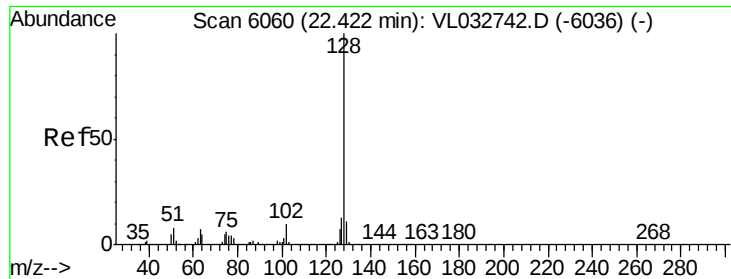
MMDadoda
 11/16/2018 1:30:16 PM



#78
 Hexachloro-1,3-Butadiene
 Concen: 9.146 ppbv
 RT: 23.55 min Scan# 6410
 Delta R.T. -0.01 min
 Lab File: VL032773.D
 Acq: 15 Nov 2018 00:19

Tgt Ion	Ratio	Lower	Upper
225	100		
223	64.0	50.3	75.5
227	63.7	50.2	75.4





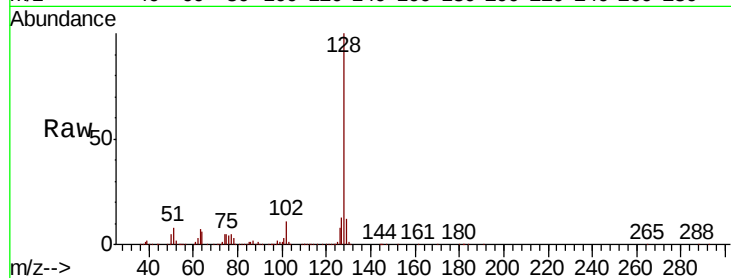
#79
Naphthalene
Concen: 12.796 ppbv
RT: 22.42 min Scan# 6060
Delta R.T. -0.00 min
Lab File: VL032773.D
Acq: 15 Nov 2018 00:19

Instrument :
MSVOA_L
ClientSampleId :
VL1114ABS05

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.5	10.1	15.1
129	11.6	8.9	13.3

Manual Integrations
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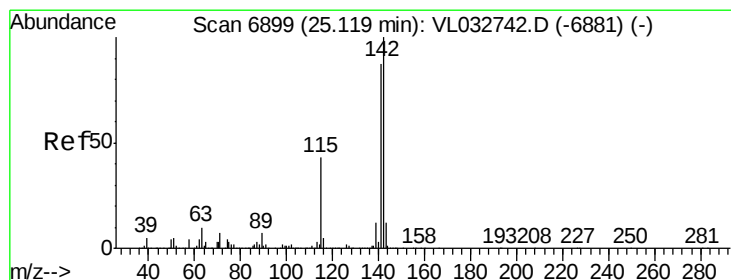
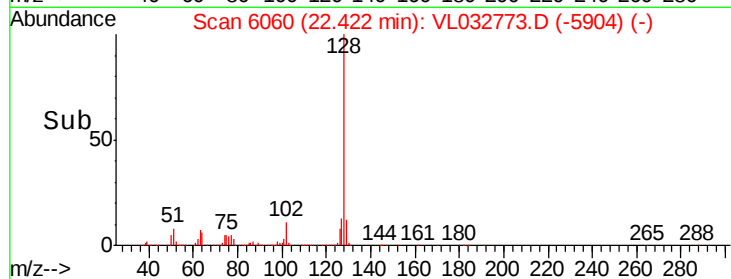
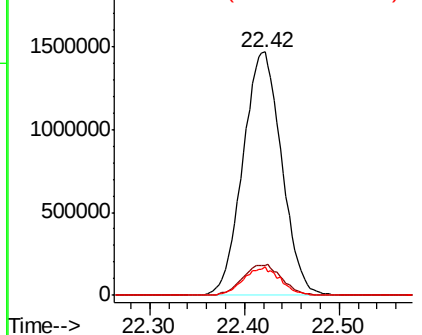


Abundance

Ion 128.10 (127.80 to 128.80): V

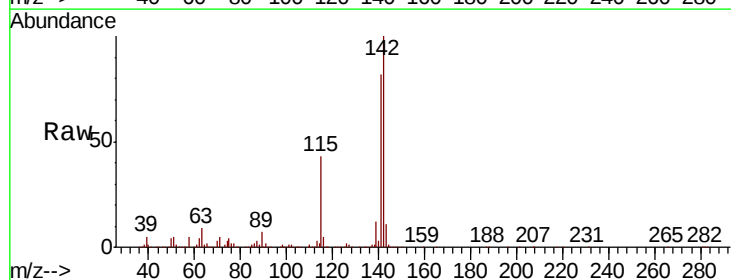
Ion 127.10 (126.80 to 127.80): V

Ion 129.10 (128.80 to 129.80): V



#80
Naphthalene, 2-methyl-
Concen: 12.720 ppbv
RT: 25.12 min Scan# 6899
Delta R.T. -0.00 min
Lab File: VL032773.D
Acq: 15 Nov 2018 00:19

Tgt Ion	Ratio	Lower	Upper
142	100		
141	83.7	68.7	103.1
115	43.5	35.5	53.3

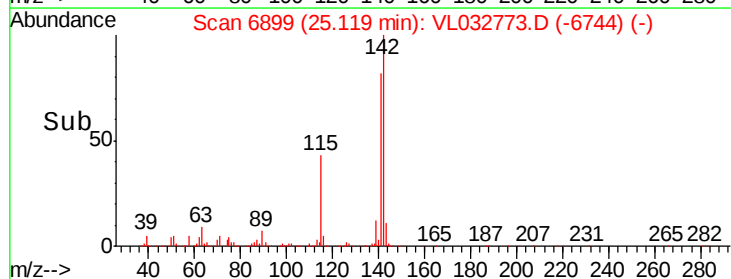
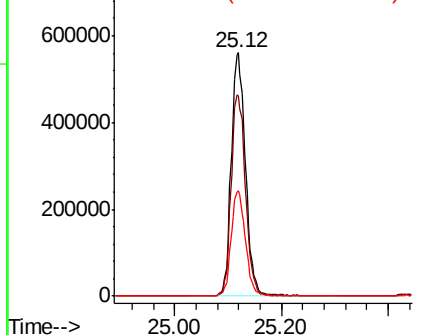


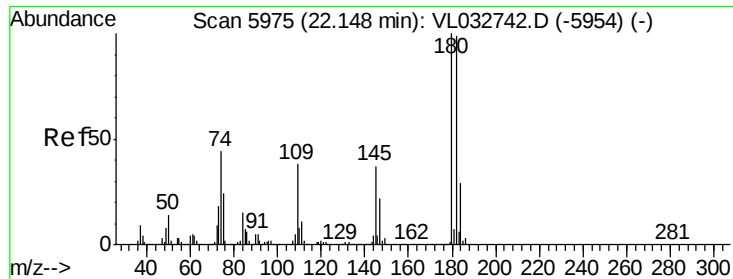
Abundance

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





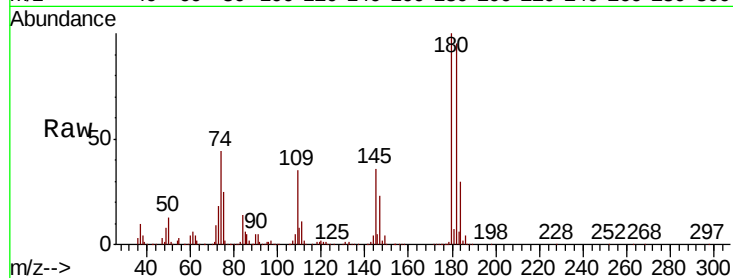
#81
 1,2,4-Trichlorobenzene
 Concen: 11.966 ppbv
 RT: 22.15 min Scan# 5974
 Delta R.T. -0.00 min
 Lab File: VL032773.D
 Acq: 15 Nov 2018 00:19

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1114ABS05

Tot Ion	Ratio	Lower	Upper
180	100		
182	96.1	77.3	115.9
184	30.5	24.2	36.4

Manual Integrations
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Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 184.00 (183.70 to 184.70): V

