

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL120418\
 Data File : VL032903.D
 Acq On : 5 Dec 2018 9:07
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010EC

Manual Integrations
 APPROVED

MMDadoda
 12/10/2018 1:02:17 PM

Quant Time: Dec 05 09:42:56 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL111418AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Nov 14 07:00:23 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	1377155	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.30	114	3489427	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	3880899	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.59	95	2670375	9.20	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	92.00%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.08	85	1726872	8.723	ppbv	100
3) Chlorodifluoromethane	3.02	51	1011487	9.264	ppbv	96
4) Chloromethane	3.17	50	585139	9.665	ppbv	96
5) Vinyl Chloride	3.30	62	605689	9.442	ppbv	99
6) Bromomethane	3.52	94	384634	9.801	ppbv	95
7) Chloroethane	3.61	64	223245	9.656	ppbv	97
8) Dichlorotetrafluoroethane	3.22	85	1378474	8.837	ppbv	95
9) Propene	3.04	41	483048	11.056	ppbv	100
10) Heptane	8.25	43	1881667	11.280	ppbv	97
11) Trichlorofluoromethane	4.01	101	1597383	8.562	ppbv	98
12) 1,1,2-Trichlorotrifluoroet	4.56	101	1207923	7.927	ppbv	95
13) Ethanol	3.66	45	124667	8.711	ppbv	100
14) Bromoethene	3.80	108	490597	9.704	ppbv	99
15) Acetone	3.91	43	1077341	8.566	ppbv	99
16) 1,3-Butadiene	3.37	39	534264	10.970	ppbv	96
17) tert-Butyl alcohol	4.36	59	312343	7.919	ppbv	99
18) 1,1-Dichloroethene	4.36	96	525483	7.013	ppbv	98
19) Isopropyl Alcohol	4.03	45	861042	10.277	ppbv	# 99
20) Methylene Chloride	4.42	84	451107	6.929	ppbv	96
21) Allyl Chloride	4.48	41	851142	8.053	ppbv	98
22) trans-1,2-Dichloroethene	4.97	96	712535	9.738	ppbv	97
23) Vinyl Acetate	5.16	43	2390501	10.427	ppbv	99
24) 1,1-Dichloroethane	5.10	63	1692506	9.286	ppbv	99
25) Ethyl Acetate	5.78	43	3207324	10.942	ppbv	100
26) Hexane	5.79	57	1452443	11.131	ppbv	98
27) Carbon Disulfide	4.63	76	1829201	11.056	ppbv	99
28) Methyl tert-Butyl Ether	5.12	73	2166878	10.414	ppbv	98
29) Chloroform	5.86	83	2267509	9.750	ppbv	97
30) Cyclohexane	7.25	84	1270214	11.130	ppbv	98
31) cis-1,2-Dichloroethene	5.65	61	1313586	10.013	ppbv	96
32) 1,1,1-Trichloroethane	6.63	97	2295128	9.004	ppbv	98
34) 2-Butanone	5.34	43	1831121	10.118	ppbv	99
35) Carbon Tetrachloride	7.14	117	2454307	8.749	ppbv	99
36) Benzene	7.01	78	3032976	10.915	ppbv	98
37) 1,2-Dichloroethane	6.42	62	1670376	8.930	ppbv	# 97
38) Trichloroethene	7.97	130	1223738	10.882	ppbv	97
39) 1,2-Dichloropropane	7.74	63	1152882	10.890	ppbv	95
40) 1,4-Dioxane	7.96	88	433638	11.468	ppbv	# 1
41) Tetrahydrofuran	6.16	42	1225120	11.801	ppbv	98
42) Bromodichloromethane	7.93	83	2439853	9.622	ppbv	# 99
43) Methyl Methacrylate	8.15	69	1196274	11.532	ppbv	96

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 VSTDCCC010EC

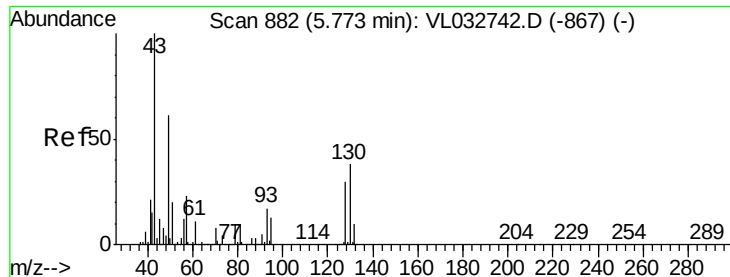
Manual Integrations
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 12/10/2018 1:02:17 PM

Quant Time: Dec 05 09:42:56 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL111418AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Nov 14 07:00:23 2018
 QLast Update : Wed Nov 14 07:00:23 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.00	57	5033134	10.839	ppbv	98
45) t-1,3-Dichloropropene	9.43	75	1662289	11.942	ppbv	97
46) cis-1,3-Dichloropropene	8.84	75	1847907	10.988	ppbv	97
47) 1,1,2-Trichloroethane	9.62	97	1218495	9.733	ppbv	98
48) Dibromochloromethane	10.46	129	2179772	10.245	ppbv	100
49) Bromoform	13.21	173	1876087	10.677	ppbv	100
50) 4-Methyl-2-Pentanone	8.88	43	2878364	10.182	ppbv	100
51) 2-Hexanone	10.28	43	2384120	13.091	ppbv #	99
52) Tetrachloroethene	11.38	164	1163189	12.034	ppbv	97
53) Toluene	9.96	91	3503281	12.085	ppbv	100
54) 1,2-Dibromoethane	10.77	107	1881322	10.631	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.29	131	1630852	9.010	ppbv	97
57) Chlorobenzene	12.31	112	2821751	9.498	ppbv	97
58) Ethyl Benzene	12.88	91	4961123	10.622	ppbv	97
59) m/p-Xylene	13.13	91	8158476m	19.622	ppbv	
60) o-Xylene	13.86	91	3864203	9.243	ppbv	97
61) Styrene	13.70	104	3082812	11.328	ppbv	97
62) Isopropylbenzene	14.84	105	5625409	9.955	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.85	83	2566112	7.874	ppbv	99
64) n-propylbenzene	15.74	120	1384605	9.316	ppbv	93
65) tert-Butylbenzene	16.92	119	4805524	9.487	ppbv	95
66) Benzyl Chloride	17.17	91	2650865	9.466	ppbv	98
67) sec-Butylbenzene	17.47	105	6433373	8.812	ppbv	100
69) p-Isopropyltoluene	17.83	119	5391474	9.288	ppbv	98
70) n-Butylbenzene	18.72	91	5473807	9.287	ppbv	99
71) 2-Chlorotoluene	15.63	91	4019001	9.537	ppbv	97
72) 4-Ethyltoluene	16.01	105	4262238	9.301	ppbv	98
73) 1,3,5-Trimethylbenzene	16.17	105	4020871	8.975	ppbv	97
74) 1,2,4-Trimethylbenzene	16.94	105	4268682	8.904	ppbv	92
75) 1,3-Dichlorobenzene	17.18	146	2397268	8.717	ppbv	99
76) 1,4-Dichlorobenzene	17.32	146	2381344	9.270	ppbv	99
77) 1,2-Dichlorobenzene	18.00	146	2370013	9.315	ppbv	99
78) Hexachloro-1,3-Butadiene	23.56	225	1889581	13.762	ppbv	99
79) Naphthalene	22.43	128	5016015	15.926	ppbv	99
80) Naphthalene, 2-methyl-	25.13	142	1261695	15.995	ppbv	96
81) 1,2,4-Trichlorobenzene	22.15	180	2304149	14.568	ppbv	99

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.77 min Scan# 882

Delta R.T. 0.00 min

Lab File: VL032903.D

Acq: 5 Dec 2018 9:07

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 49 Resp: 1377155

Ion Ratio Lower Upper

49 100

128 51.9 24.9 74.6

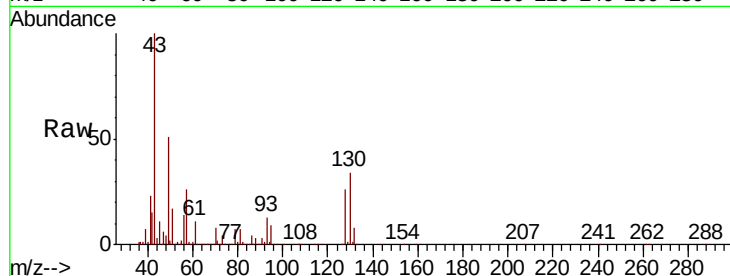
130 66.0 31.4 94.2

Manual Integrations

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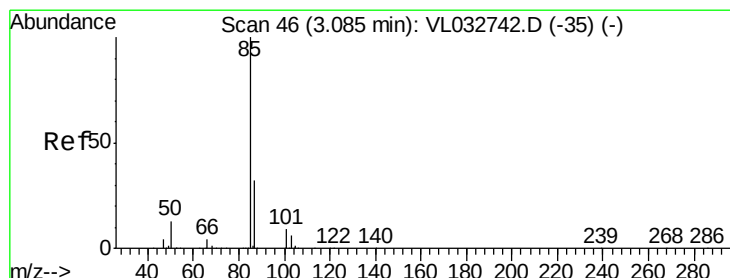
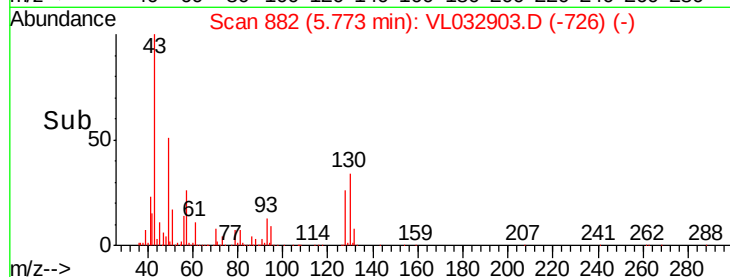
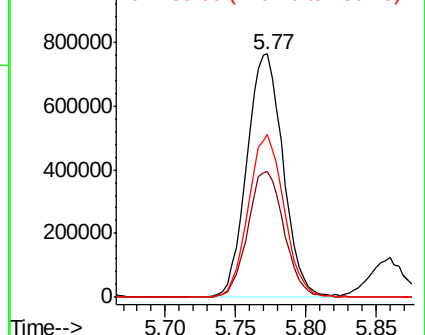
12/10/2018 1:02:17 PM



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: 8.723 ppbv

RT: 3.08 min Scan# 45

Delta R.T. -0.00 min

Lab File: VL032903.D

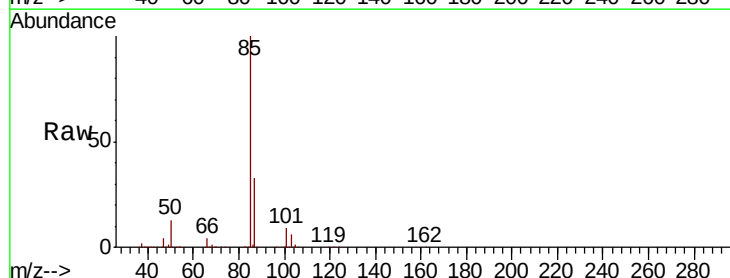
Acq: 5 Dec 2018 9:07

Tgt Ion: 85 Resp: 1726872

Ion Ratio Lower Upper

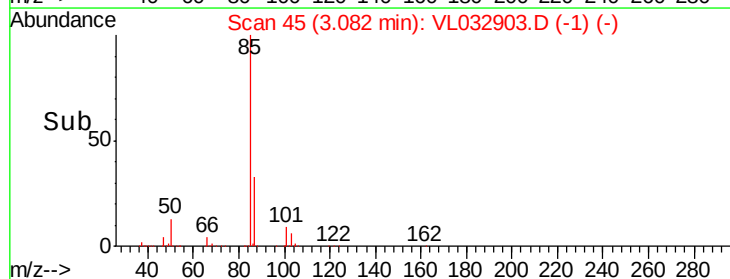
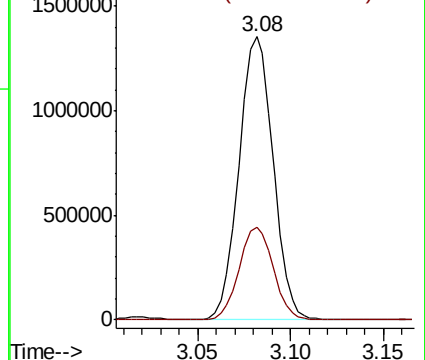
85 100

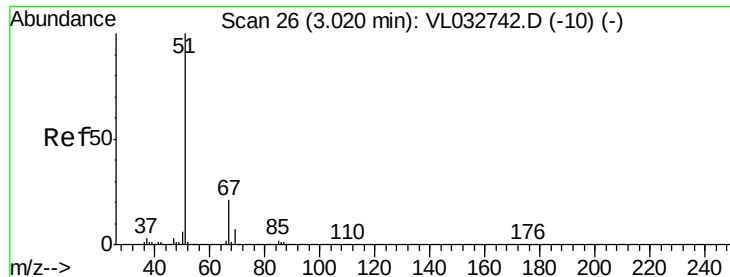
87 32.7 26.0 39.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 9.264 ppbv

RT: 3.02 min Scan# 25

Delta R.T. -0.00 min

Lab File: VL032903.D

Acq: 5 Dec 2018 9:07

Tot Ion: 51 Resp: 1011487

Ion Ratio Lower Upper

51 100

67 18.4 16.1 24.1

Instrument :

MSVOA_L

ClientSampleId :

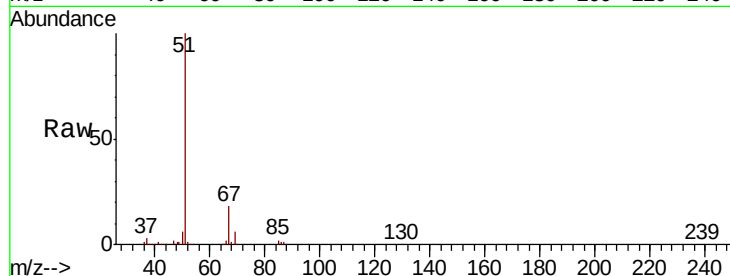
VSTDCCC010EC

Manual Integrations

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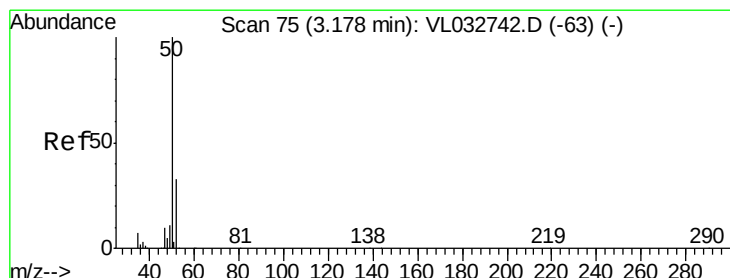
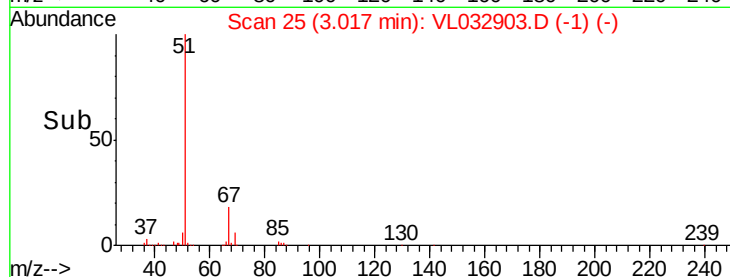
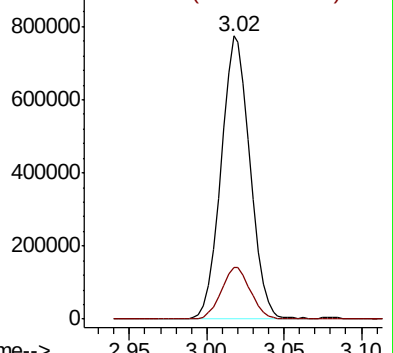
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 9.665 ppbv

RT: 3.17 min Scan# 74

Delta R.T. -0.00 min

Lab File: VL032903.D

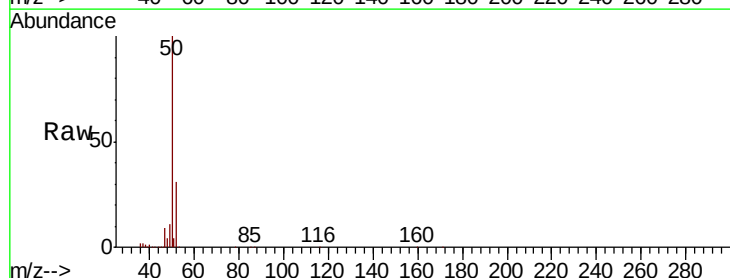
Acq: 5 Dec 2018 9:07

Tgt Ion: 50 Resp: 585139

Ion Ratio Lower Upper

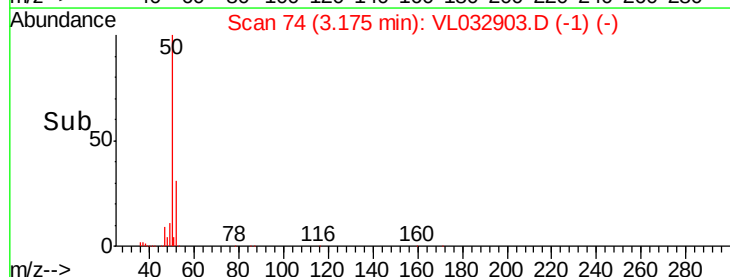
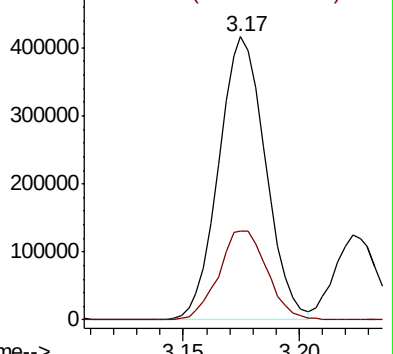
50 100

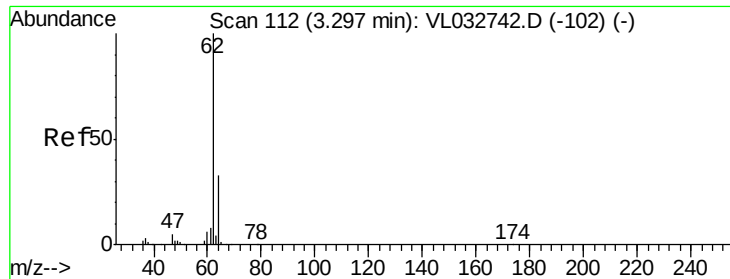
52 31.2 26.6 40.0



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 9.442 ppbv

RT: 3.30 min Scan# 112

Delta R.T. 0.00 min

Lab File: VL032903.D

Acq: 5 Dec 2018 9:07

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 62 Resp: 605689

Ion Ratio Lower Upper

62 100

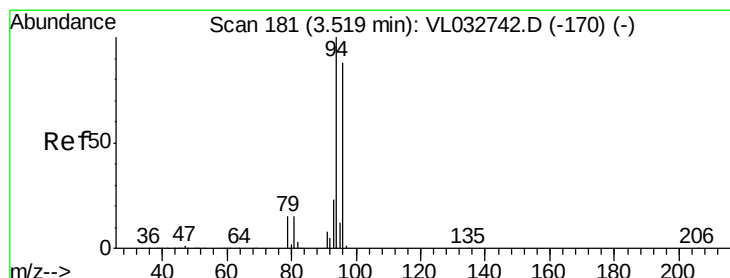
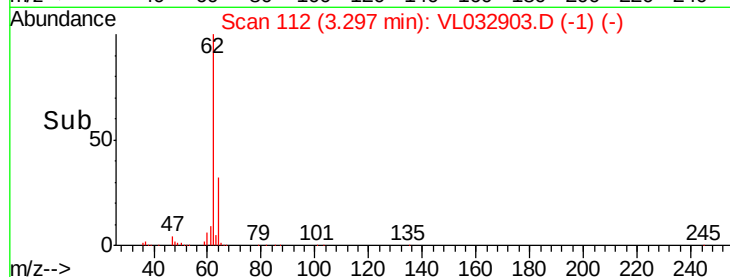
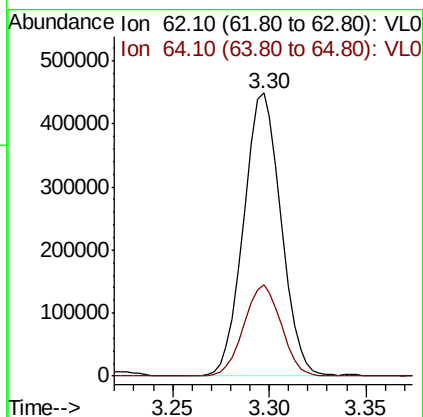
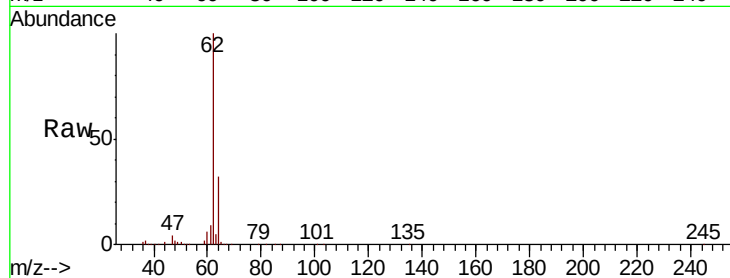
64 32.5 26.2 39.4

Manual Integrations

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#6

Bromomethane

Concen: 9.801 ppbv

RT: 3.52 min Scan# 181

Delta R.T. 0.00 min

Lab File: VL032903.D

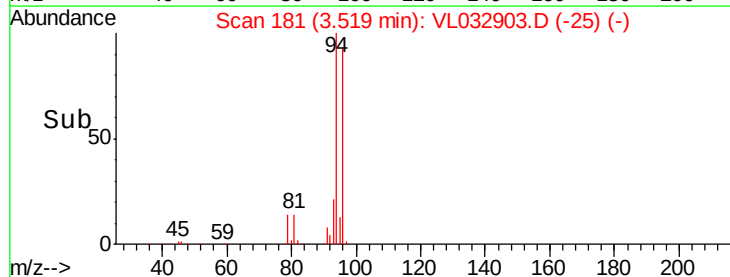
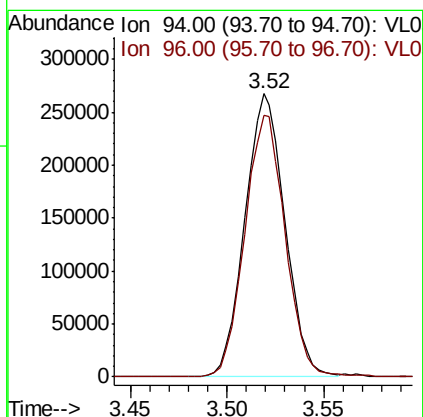
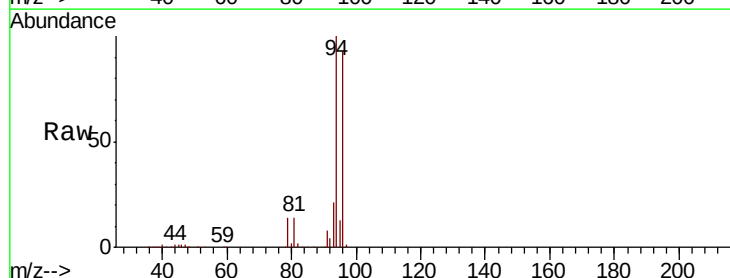
Acq: 5 Dec 2018 9:07

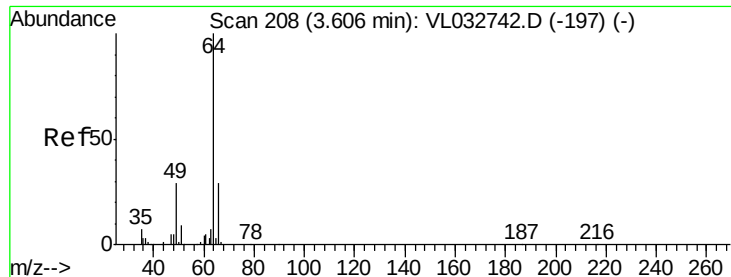
Tgt Ion: 94 Resp: 384634

Ion Ratio Lower Upper

94 100

96 92.7 70.2 105.2





#7

Chloroethane

Concen: 9.656 ppbv

RT: 3.61 min Scan# 208

Delta R.T. 0.00 min

Lab File: VL032903.D

Acq: 5 Dec 2018 9:07

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 64 Resp: 223245

Ion Ratio Lower Upper

64 100

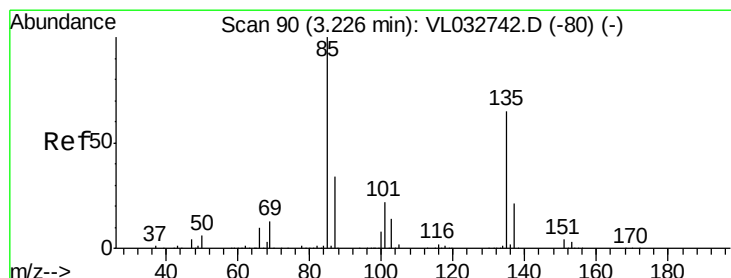
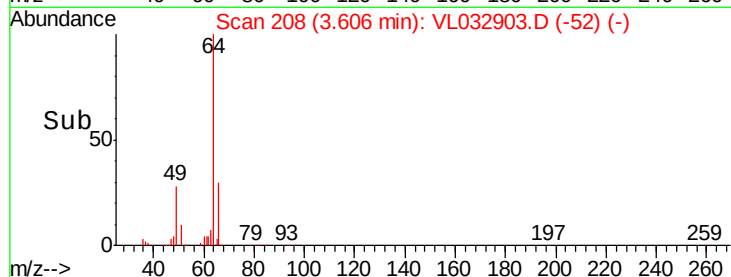
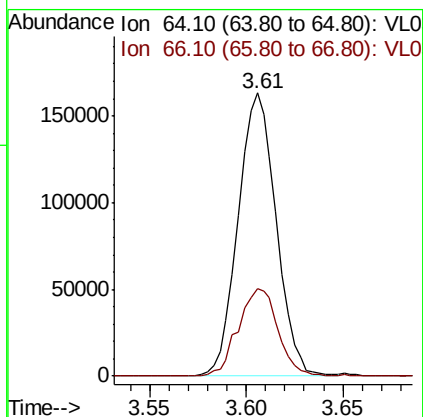
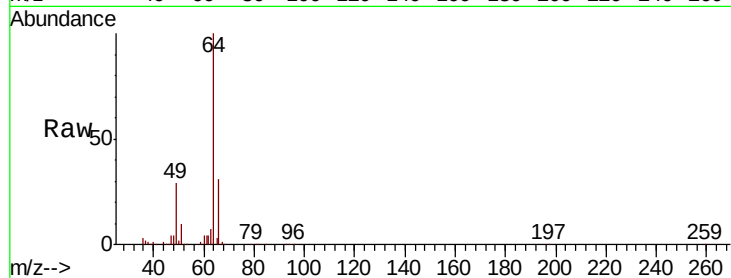
66 30.9 23.2 34.8

Manual Integrations

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#8

Dichlorotetrafluoroethane

Concen: 8.837 ppbv

RT: 3.22 min Scan# 89

Delta R.T. -0.00 min

Lab File: VL032903.D

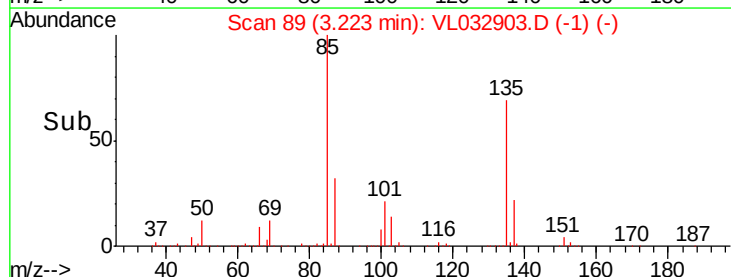
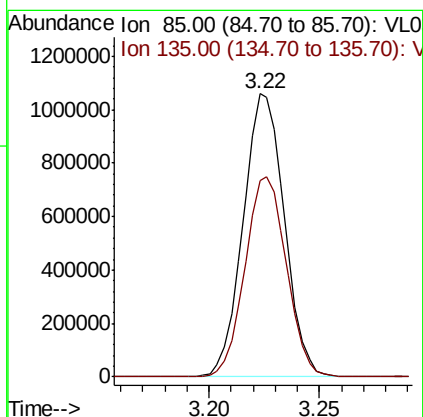
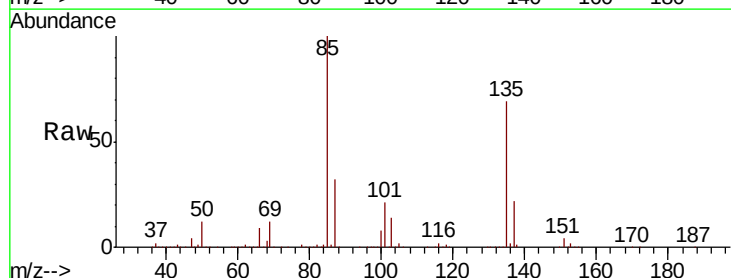
Acq: 5 Dec 2018 9:07

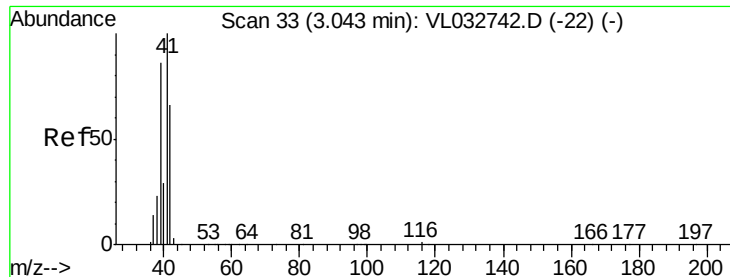
Tgt Ion: 85 Resp: 1378474

Ion Ratio Lower Upper

85 100

135 71.5 53.8 80.8





#9

Propene

Concen: 11.056 ppbv

RT: 3.04 min Scan# 32

Delta R.T. -0.00 min

Lab File: VL032903.D

Acq: 5 Dec 2018 9:07

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 41 Resp: 483048

Ion Ratio Lower Upper

41 100

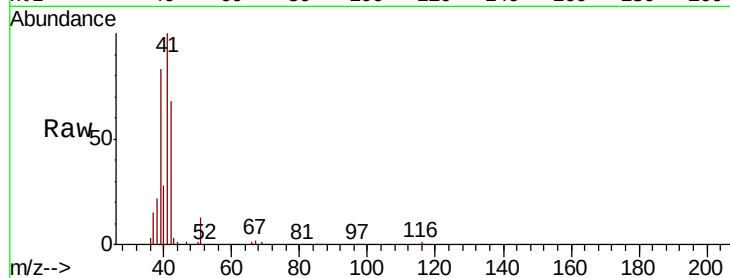
42 68.6 55.0 82.6

Manual Integrations

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Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

3.04

400000

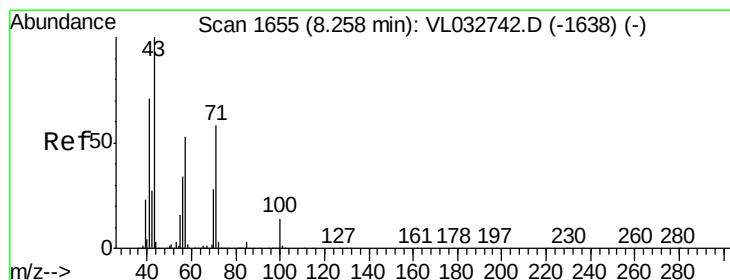
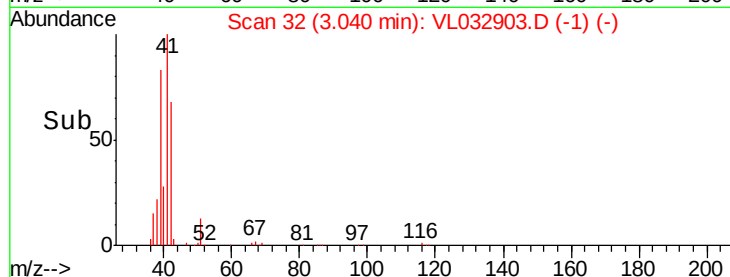
300000

200000

100000

0

Time-->



#10

Heptane

Concen: 11.280 ppbv

RT: 8.25 min Scan# 1654

Delta R.T. -0.00 min

Lab File: VL032903.D

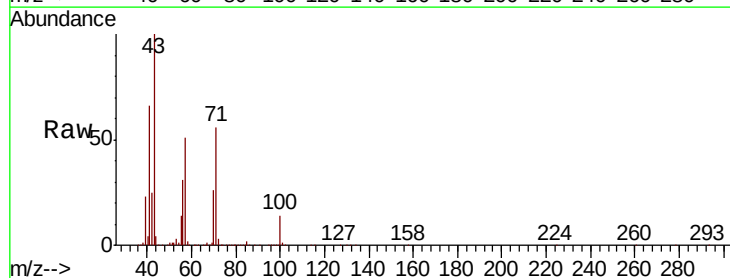
Acq: 5 Dec 2018 9:07

Tgt Ion: 43 Resp: 1881667

Ion Ratio Lower Upper

43 100

57 50.5 41.8 62.8



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

8.25

1000000

800000

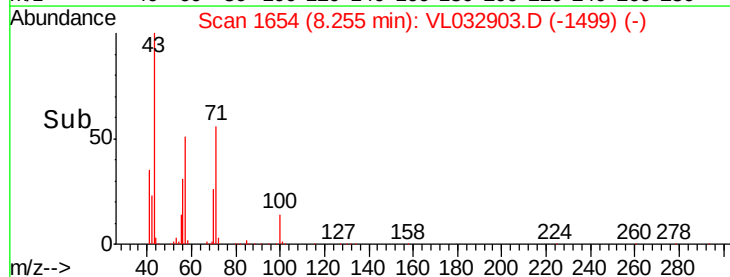
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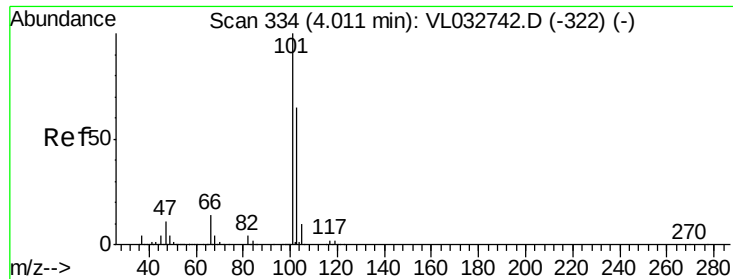
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200000

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Time-->





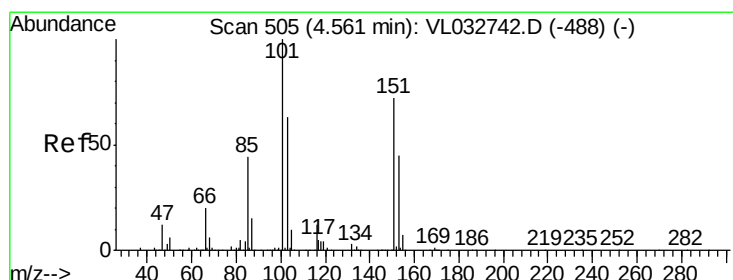
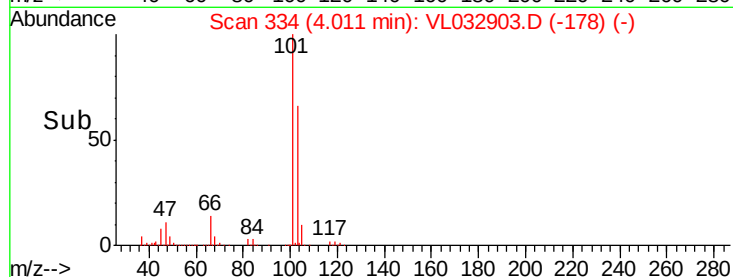
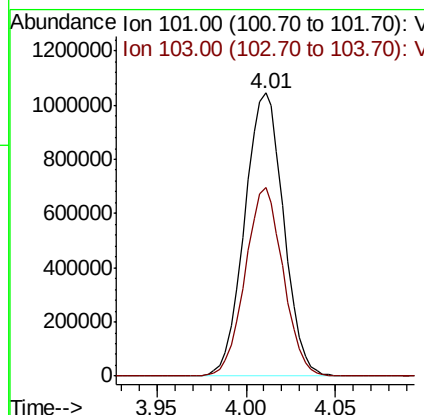
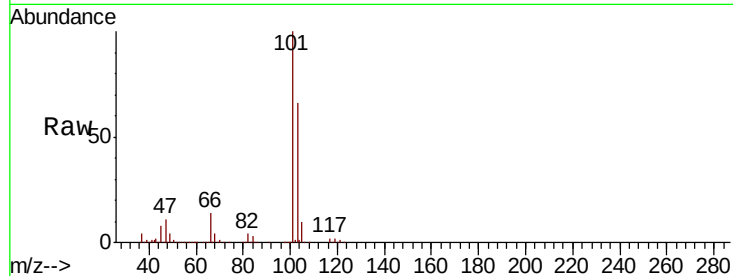
#11
 Trichlorofluoromethane
 Concen: 8.562 ppbv
 RT: 4.01 min Scan# 334
 Delta R.T. 0.00 min
 Lab File: VL032903.D
 Acq: 5 Dec 2018 9:07

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion:101 Resp: 1597383
 Ion Ratio Lower Upper
 101 100
 103 66.4 51.6 77.4

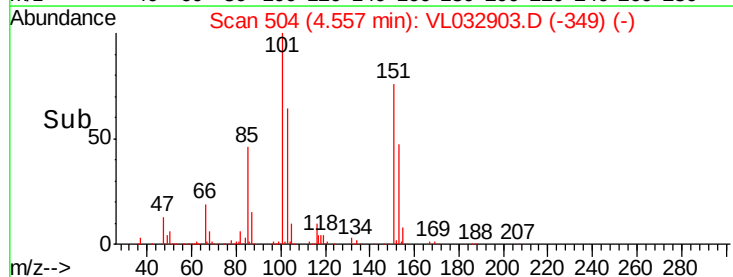
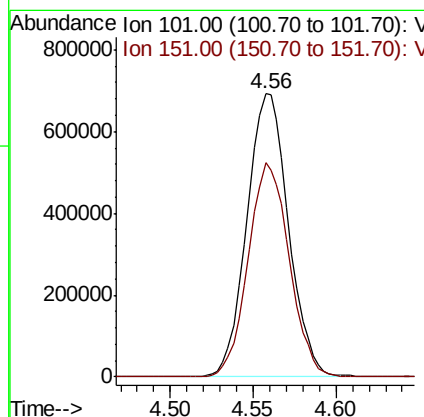
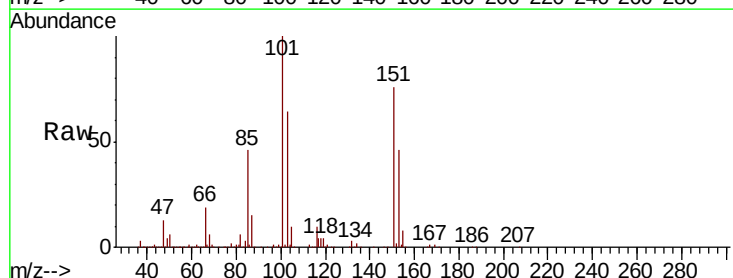
Manual Integrations
 APPROVED

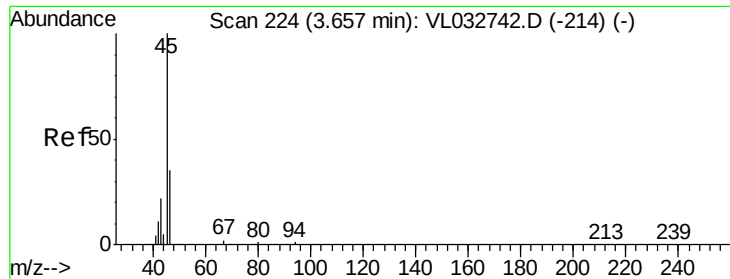
MMDadoda
 12/10/2018 1:02:17 PM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 7.927 ppbv
 RT: 4.56 min Scan# 504
 Delta R.T. -0.00 min
 Lab File: VL032903.D
 Acq: 5 Dec 2018 9:07

Tgt Ion:101 Resp: 1207923
 Ion Ratio Lower Upper
 101 100
 151 75.2 56.7 85.1





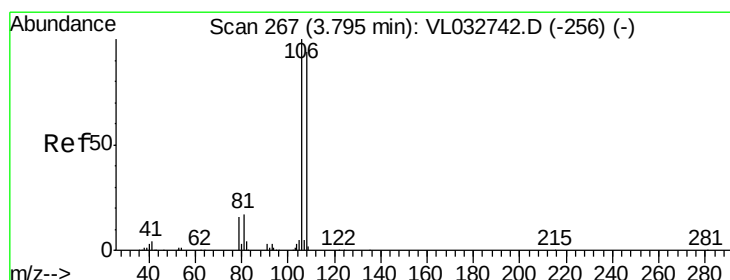
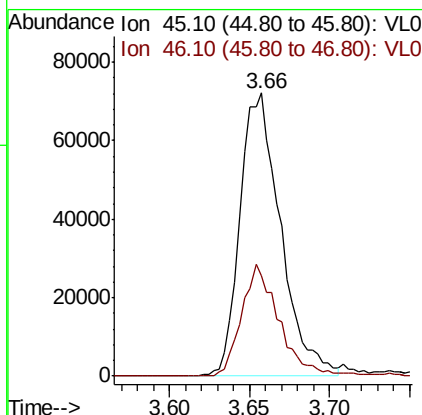
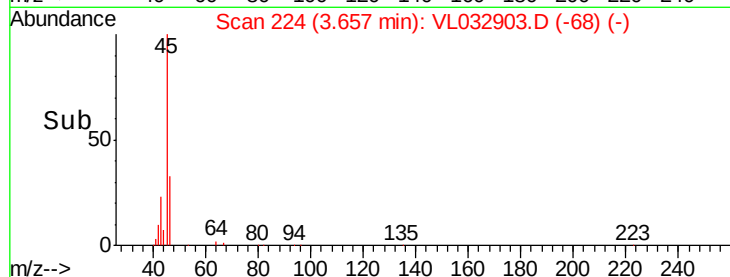
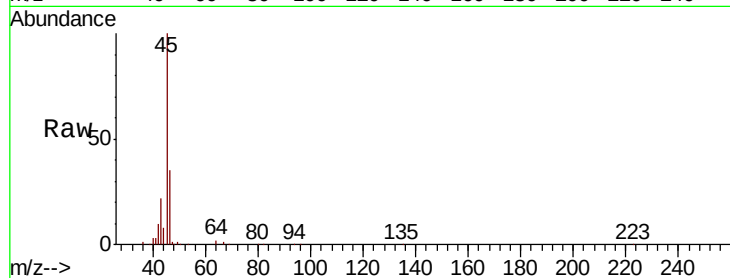
#13
Ethanol
Concen: 8.711 ppbv
RT: 3.66 min Scan# 224
Delta R.T. 0.00 min
Lab File: VL032903.D
Acq: 5 Dec 2018 9:07

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	45	46	Ratio	Lower	Upper
124667	100	36.3		14.5	57.9

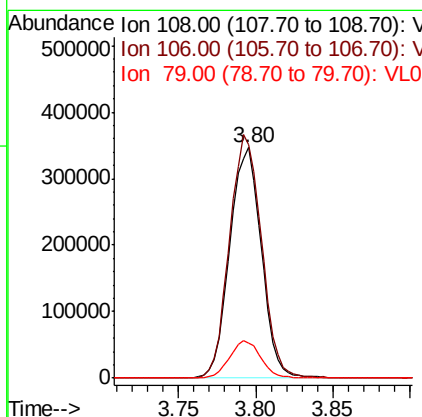
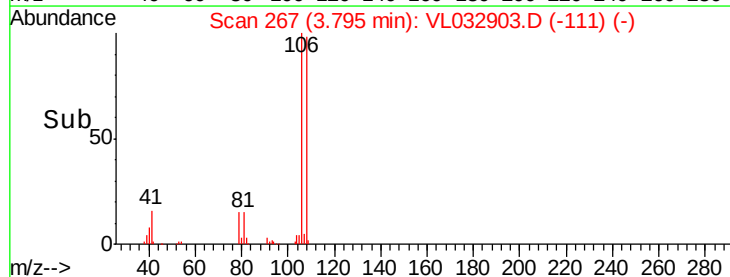
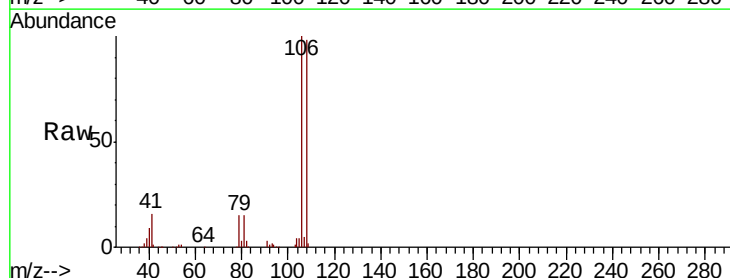
Manual Integrations
APPROVED

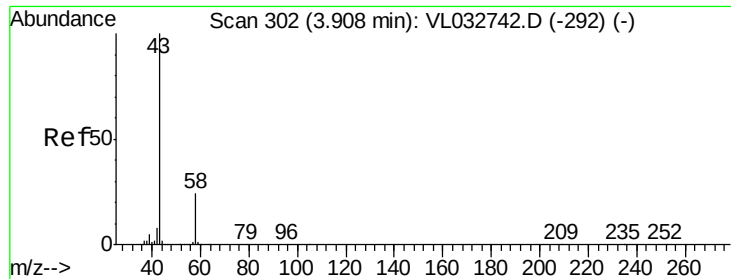
MMDadoda
12/10/2018 1:02:17 PM



#14
Bromoethene
Concen: 9.704 ppbv
RT: 3.80 min Scan# 267
Delta R.T. 0.00 min
Lab File: VL032903.D
Acq: 5 Dec 2018 9:07

Tgt Ion	108	106	79	Ratio	Lower	Upper
490597	100	107.2	16.2		84.9	127.3





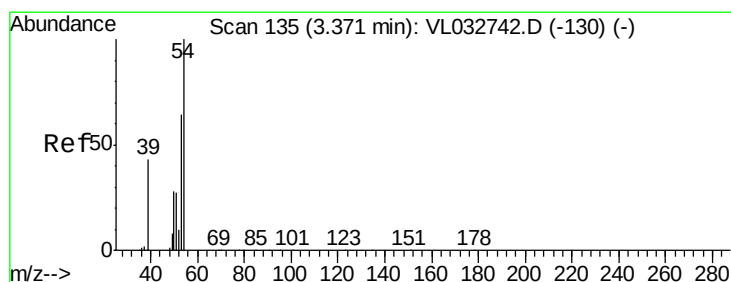
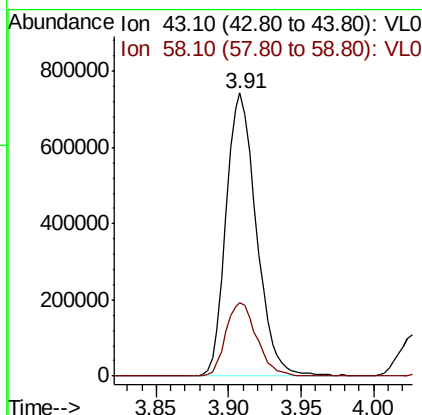
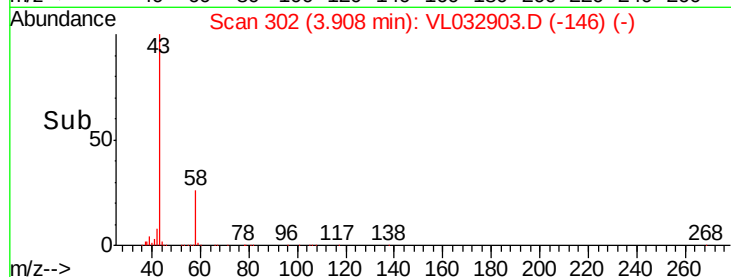
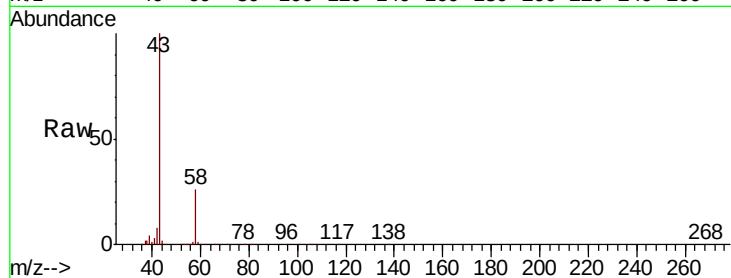
#15
Acetone
Concen: 8.566 ppbv
RT: 3.91 min Scan# 302
Delta R.T. 0.00 min
Lab File: VL032903.D
Acq: 5 Dec 2018 9:07

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 43 Resp: 1077341
Ion Ratio Lower Upper
43 100
58 26.7 21.1 31.7

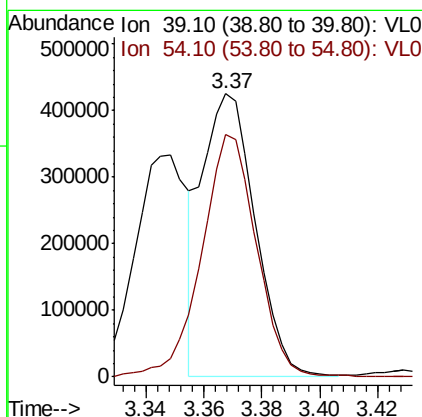
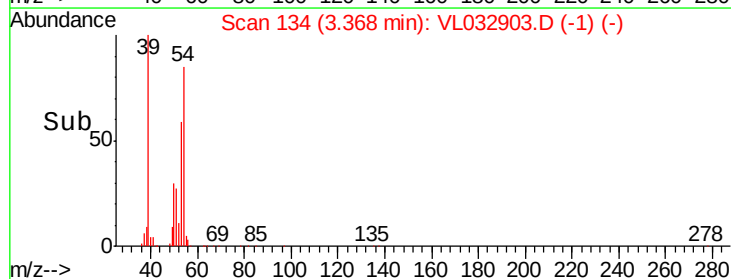
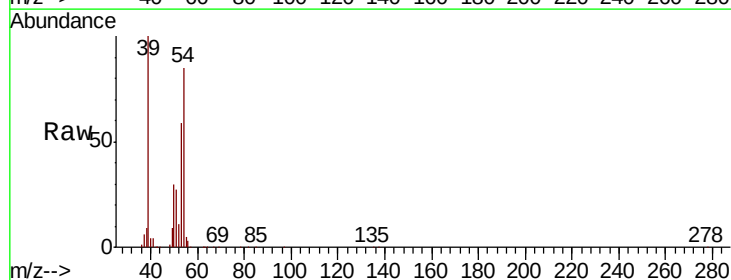
Manual Integrations
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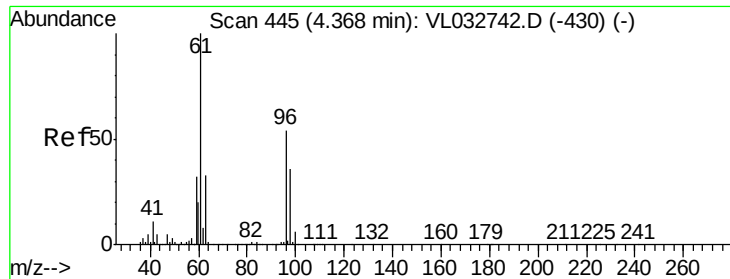
MMDadoda
12/10/2018 1:02:17 PM



#16
1,3-Butadiene
Concen: 10.970 ppbv
RT: 3.37 min Scan# 134
Delta R.T. -0.00 min
Lab File: VL032903.D
Acq: 5 Dec 2018 9:07

Tgt Ion: 39 Resp: 534264
Ion Ratio Lower Upper
39 100
54 89.6 68.9 103.3





#17

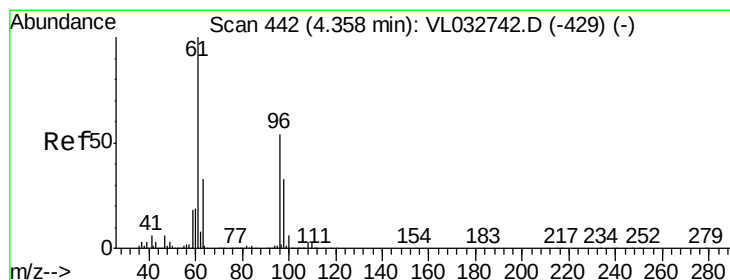
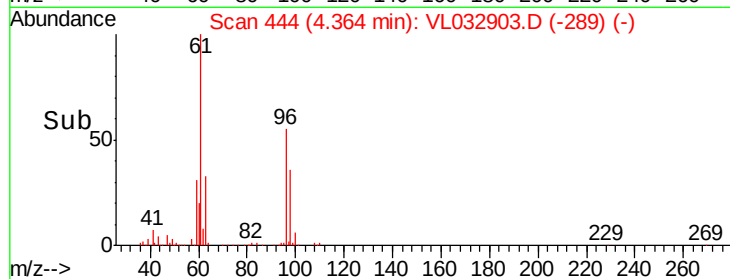
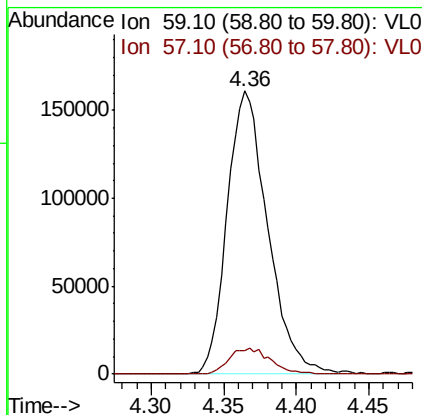
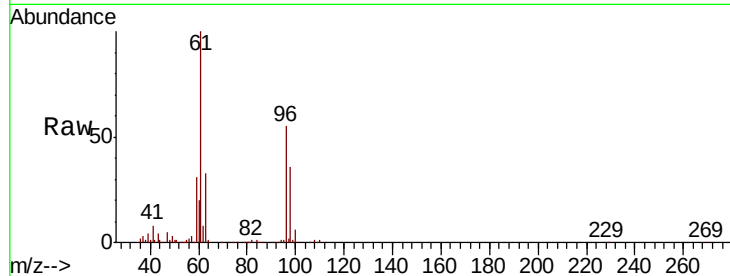
tert-Butyl alcohol
Concen: 7.919 ppbv
RT: 4.36 min Scan# 444
Delta R.T. -0.00 min
Lab File: VL032903.D
Acq: 5 Dec 2018 9:07

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
59	100		
57	9.4	7.8	11.8

Manual Integrations
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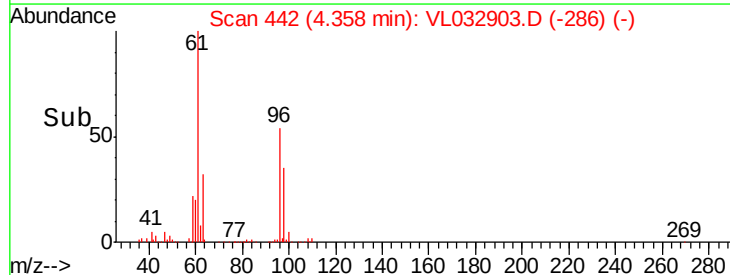
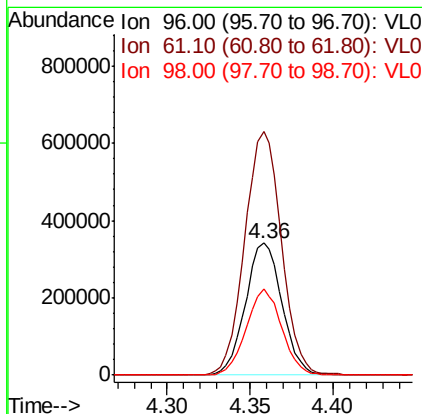
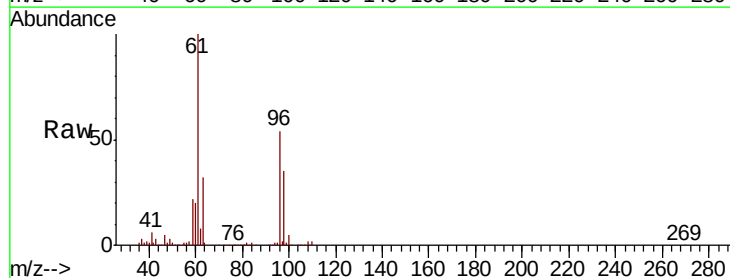
MMDadoda
12/10/2018 1:02:17 PM

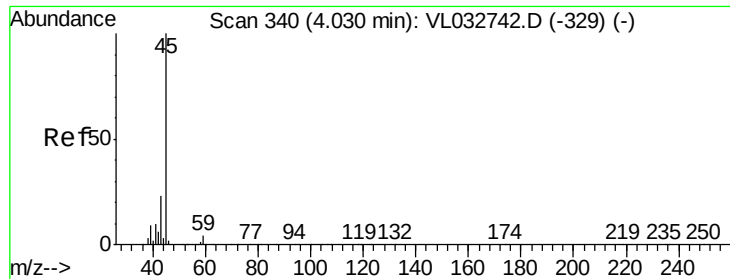


#18

1,1-Dichloroethene
Concen: 7.013 ppbv
RT: 4.36 min Scan# 442
Delta R.T. 0.00 min
Lab File: VL032903.D
Acq: 5 Dec 2018 9:07

Tgt Ion	Ratio	Lower	Upper
96	100		
61	184.5	148.5	222.7
98	65.5	48.6	72.8





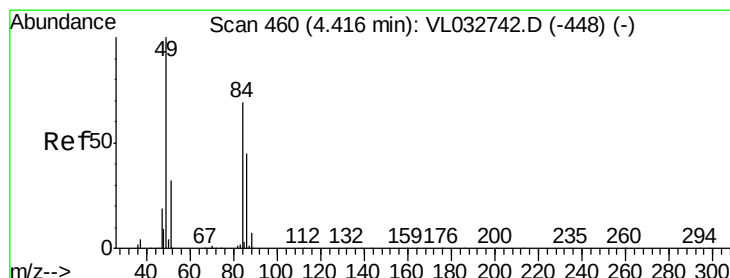
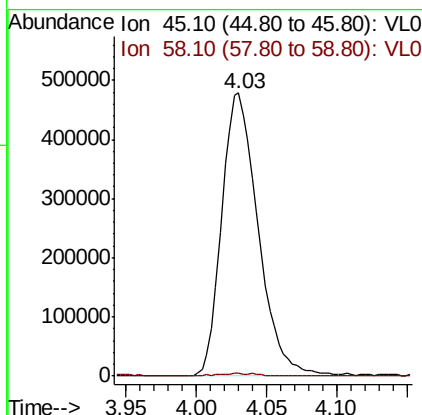
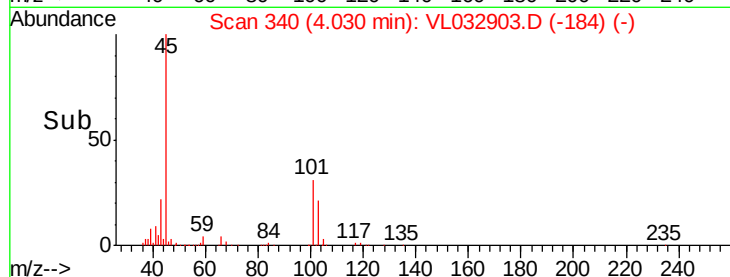
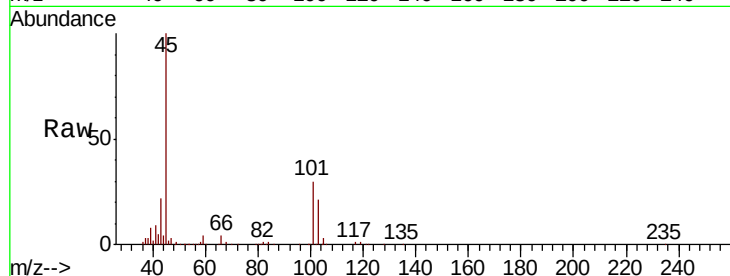
#19
Isopropyl Alcohol
Concen: 10.277 ppbv
RT: 4.03 min Scan# 340
Delta R.T. 0.00 min
Lab File: VL032903.D
Acq: 5 Dec 2018 9:07

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 45 Resp: 861042
Ion Ratio Lower Upper
45 100
58 1.3 1.4 2.0#

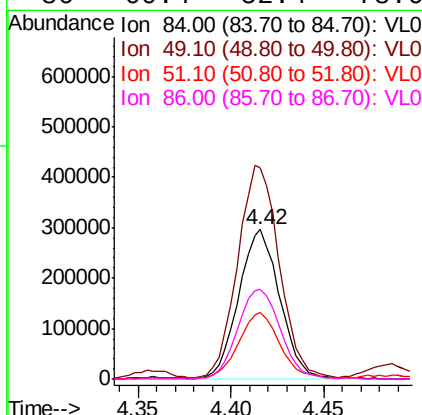
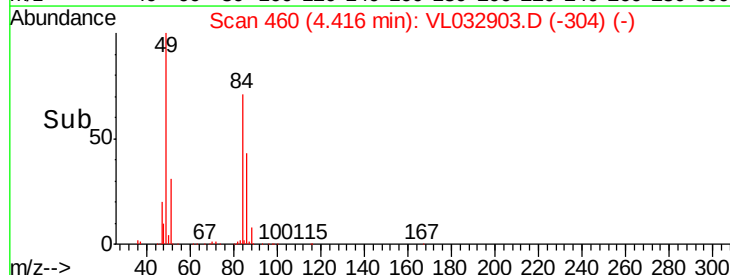
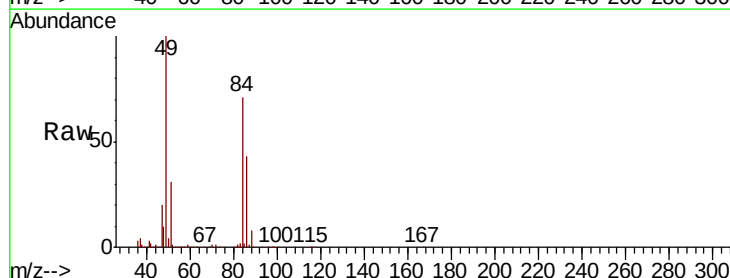
Manual Integrations
APPROVED

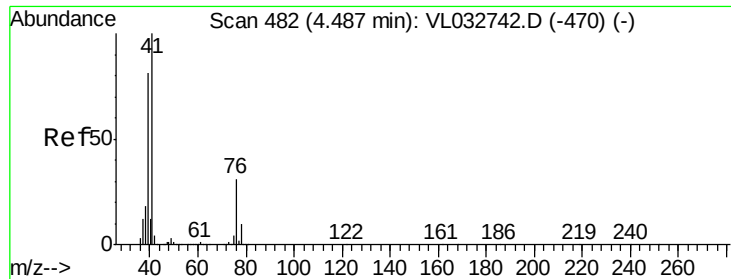
MMDadoda
12/10/2018 1:02:17 PM



#20
Methylene Chloride
Concen: 6.929 ppbv
RT: 4.42 min Scan# 460
Delta R.T. 0.00 min
Lab File: VL032903.D
Acq: 5 Dec 2018 9:07

Tgt Ion: 84 Resp: 451107
Ion Ratio Lower Upper
84 100
49 140.4 115.8 173.6
51 43.9 36.9 55.3
86 60.4 52.4 78.6





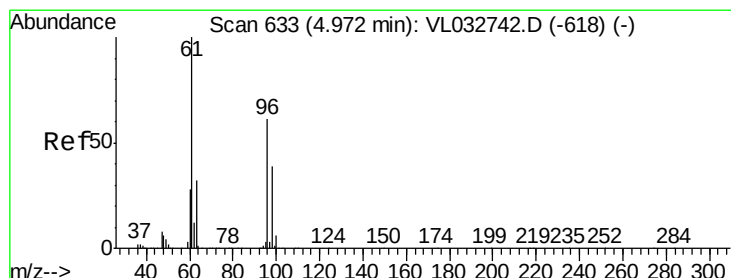
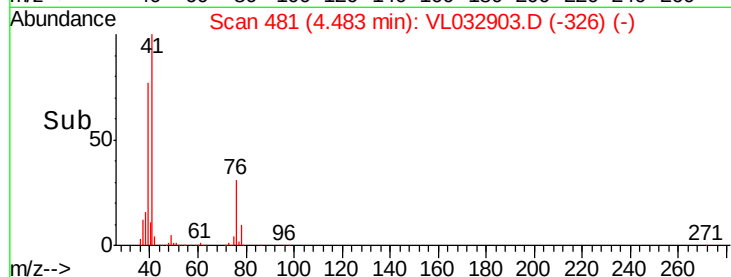
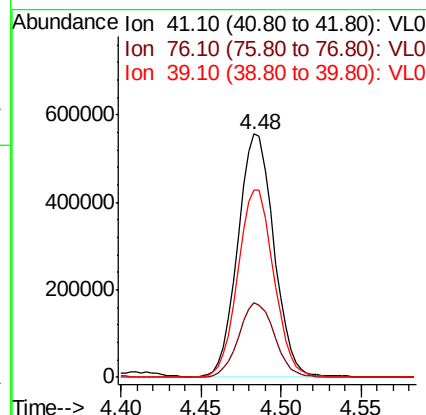
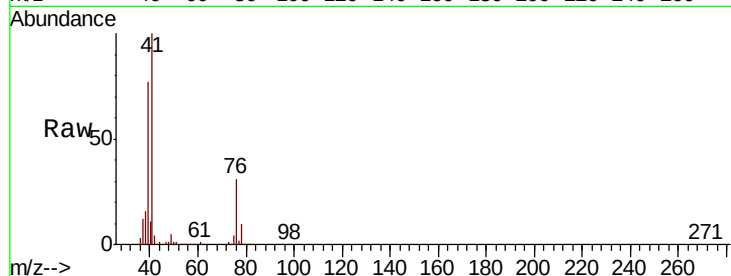
#21
 Allvl Chloride
 Concen: 8.053 ppbv
 RT: 4.48 min Scan# 481
 Delta R.T. -0.00 min
 Lab File: VL032903.D
 Acq: 5 Dec 2018 9:07

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
41	100		
76	30.7	24.4	36.6
39	76.7	63.5	95.3

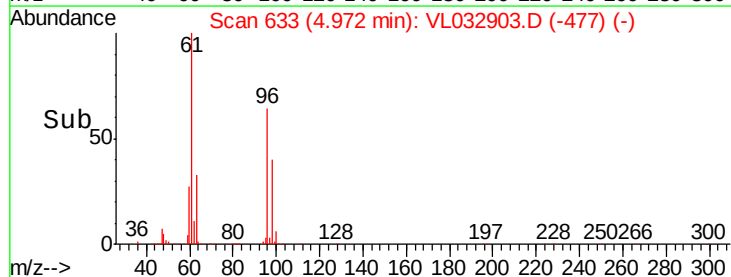
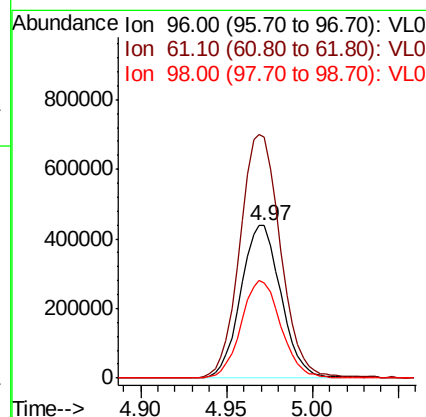
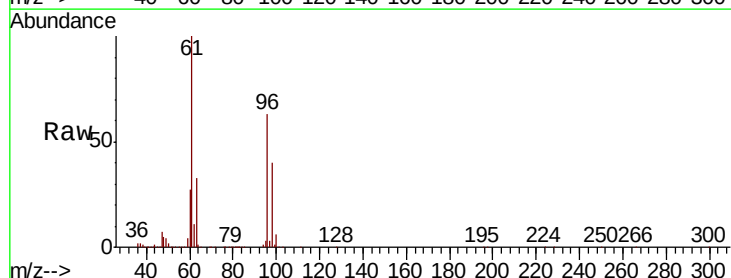
Manual Integrations
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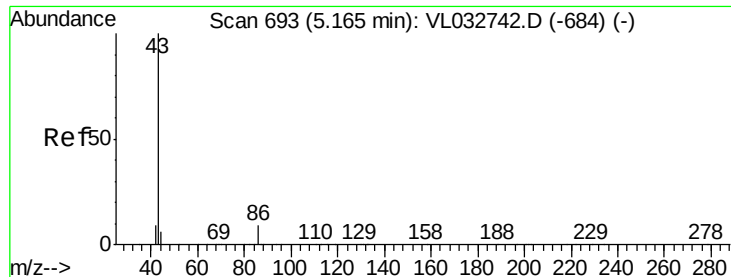
MMDadoda
 12/10/2018 1:02:17 PM



#22
 trans-1,2-Dichloroethene
 Concen: 9.738 ppbv
 RT: 4.97 min Scan# 633
 Delta R.T. 0.00 min
 Lab File: VL032903.D
 Acq: 5 Dec 2018 9:07

Tgt Ion	Ratio	Lower	Upper
96	100		
61	157.8	130.2	195.2
98	62.7	50.2	75.2





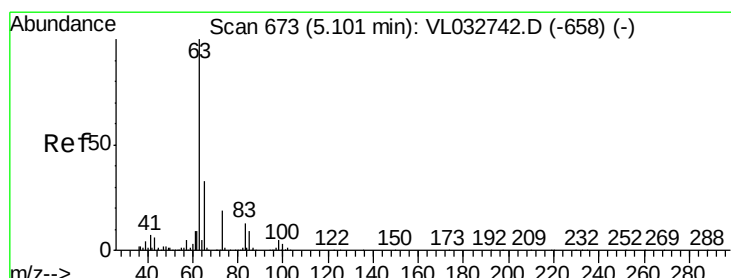
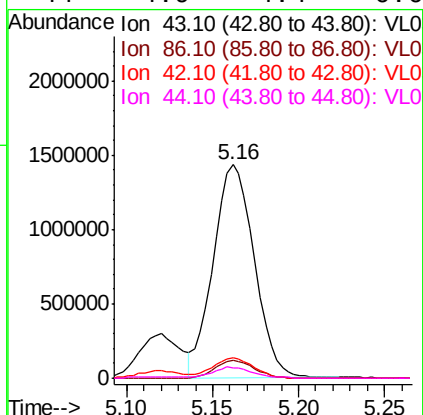
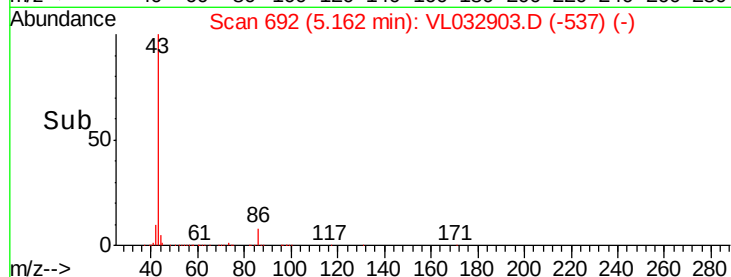
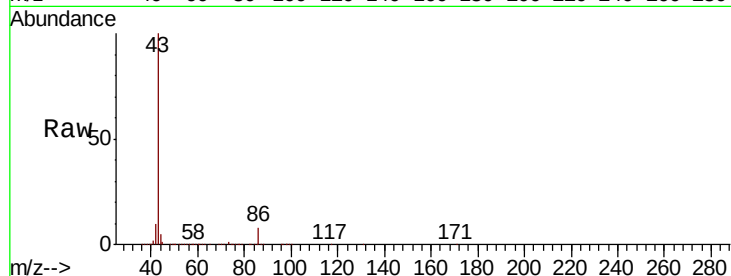
#23
 Vinyl Acetate
 Concen: 10.427 ppbv
 RT: 5.16 min Scan# 692
 Delta R.T. -0.00 min
 Lab File: VL032903.D
 Acq: 5 Dec 2018 9:07

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ion	Ratio	Lower	Upper
43	100			
86	8.4	6.2	9.4	
42	9.6	7.8	11.6	
44	4.9	4.4	6.6	

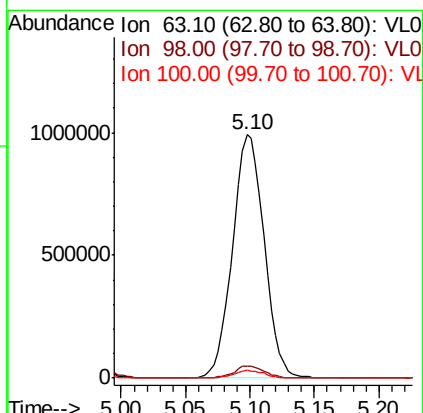
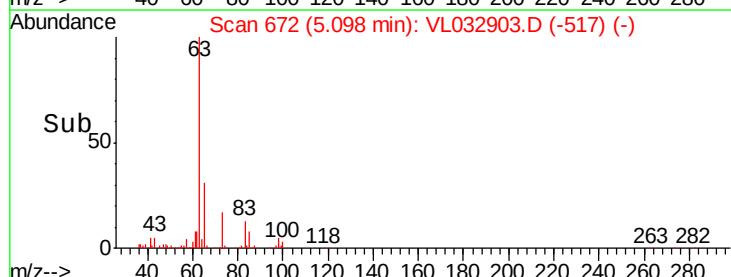
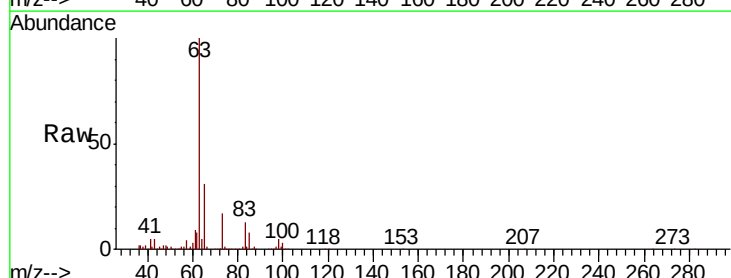
Manual Integrations
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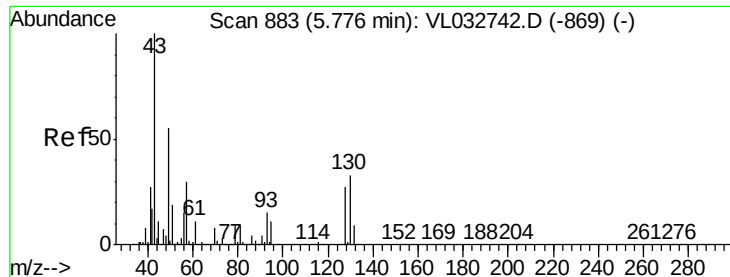
MMDadoda
 12/10/2018 1:02:17 PM



#24
 1,1-Dichloroethane
 Concen: 9.286 ppbv
 RT: 5.10 min Scan# 672
 Delta R.T. -0.00 min
 Lab File: VL032903.D
 Acq: 5 Dec 2018 9:07

Tgt Ion	Ion	Ratio	Lower	Upper
63	100			
98	5.0	2.3	6.8	
100	3.1	1.4	4.2	





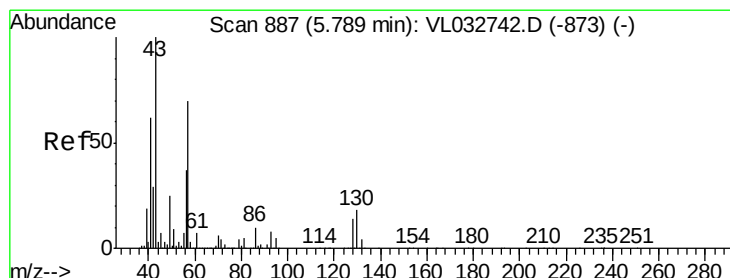
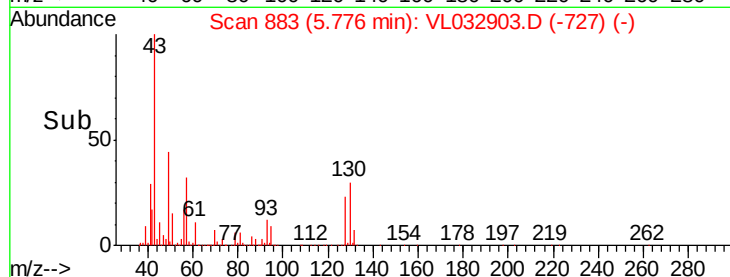
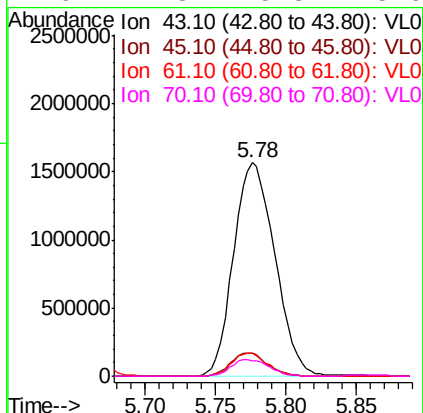
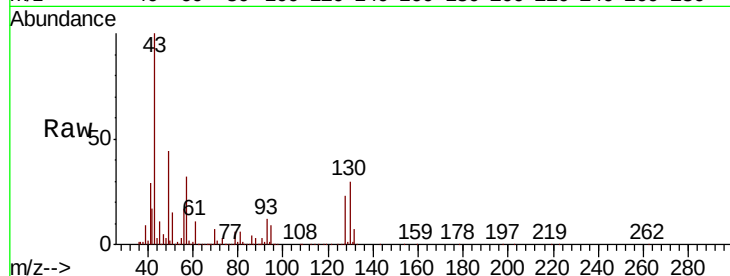
#25
Ethyl Acetate
Concen: 10.942 ppbv
RT: 5.78 min Scan# 883
Delta R.T. 0.00 min
Lab File: VL032903.D
Acq: 5 Dec 2018 9:07

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
43	100		
45	9.8	7.9	11.9
61	9.5	7.8	11.6
70	7.3	5.8	8.6

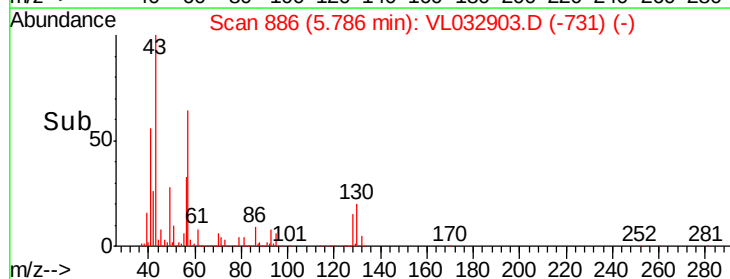
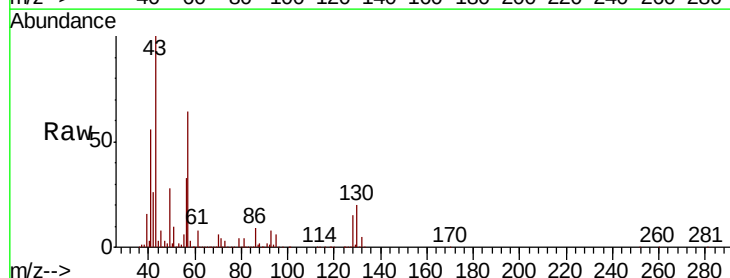
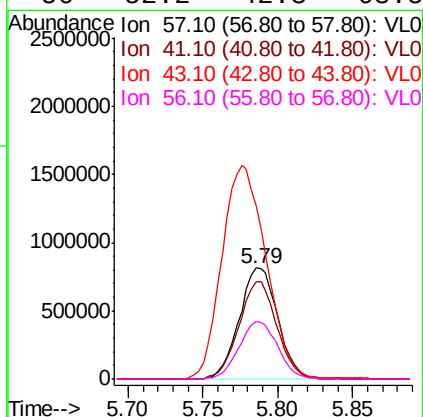
Manual Integrations
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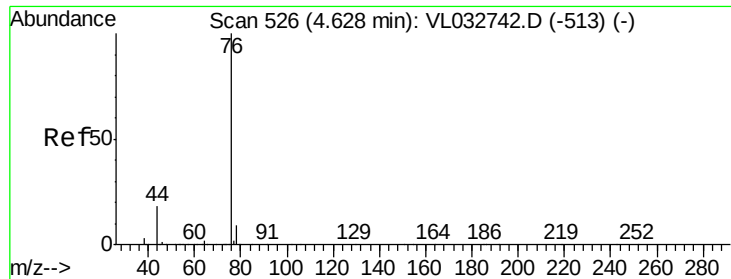
MMDadoda
12/10/2018 1:02:17 PM



#26
Hexane
Concen: 11.131 ppbv
RT: 5.79 min Scan# 886
Delta R.T. -0.00 min
Lab File: VL032903.D
Acq: 5 Dec 2018 9:07

Tgt Ion	Ratio	Lower	Upper
57	100		
41	87.5	70.3	105.5
43	221.6	174.0	261.0
56	52.2	42.3	63.5





#27

Carbon Disulfide

Concen: 11.056 ppbv

RT: 4.63 min Scan# 526

Delta R.T. 0.00 min

Lab File: VL032903.D

Acq: 5 Dec 2018 9:07

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 76 Resp: 1829201

Ion Ratio Lower Upper

76 100

44 18.4 14.4 21.6

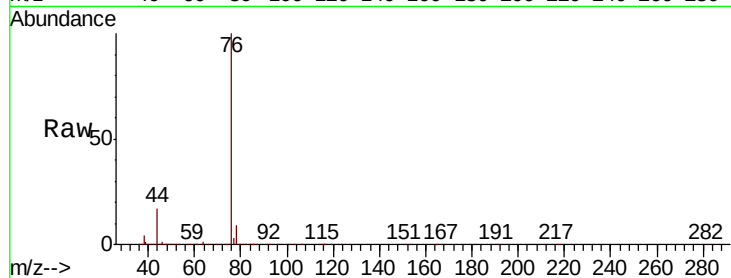
78 9.3 7.7 11.5

Manual Integrations

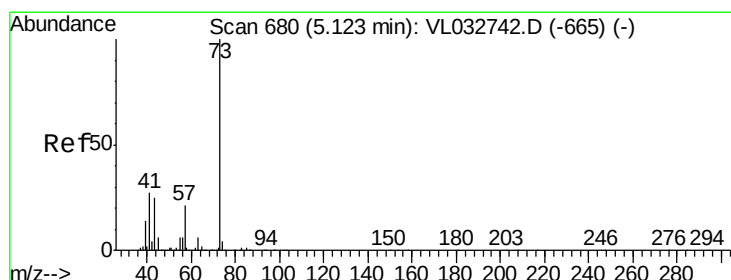
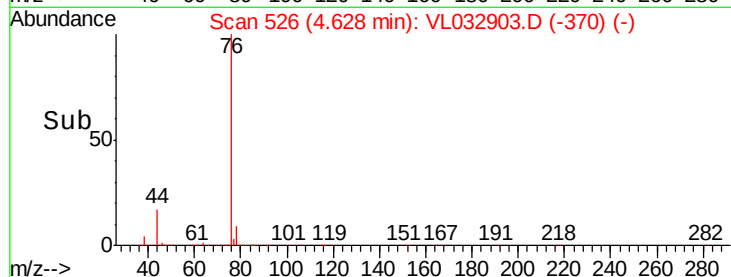
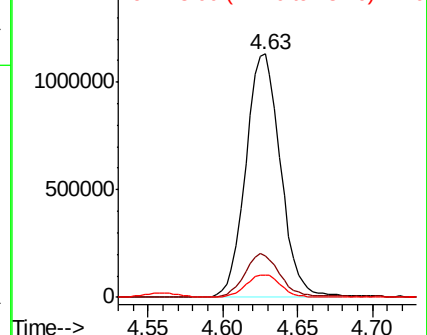
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12/10/2018 1:02:17 PM



Abundance Ion 76.00 (75.70 to 76.70): VL0
Ion 44.10 (43.80 to 44.80): VL0
Ion 78.00 (77.70 to 78.70): VL0



#28

Methyl tert-Butyl Ether

Concen: 10.414 ppbv

RT: 5.12 min Scan# 679

Delta R.T. -0.00 min

Lab File: VL032903.D

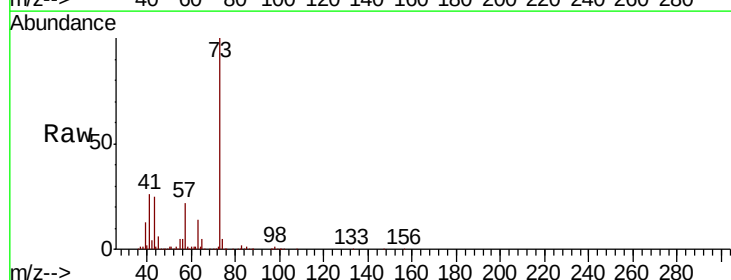
Acq: 5 Dec 2018 9:07

Tgt Ion: 73 Resp: 2166878

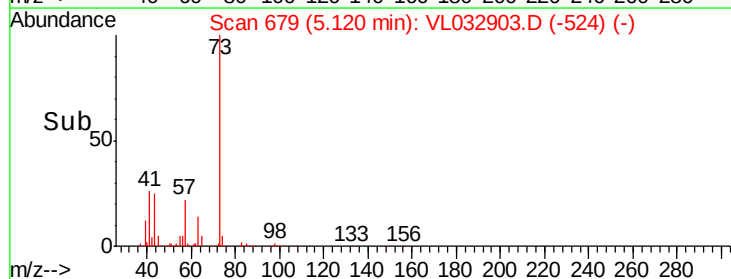
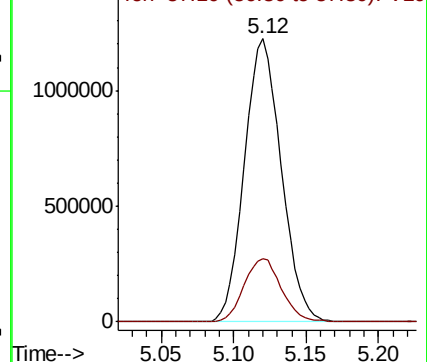
Ion Ratio Lower Upper

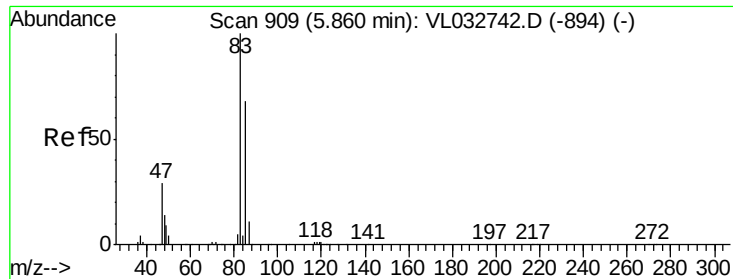
73 100

57 22.7 17.5 26.3



Abundance Ion 73.10 (72.80 to 73.80): VL0
Ion 57.10 (56.80 to 57.80): VL0





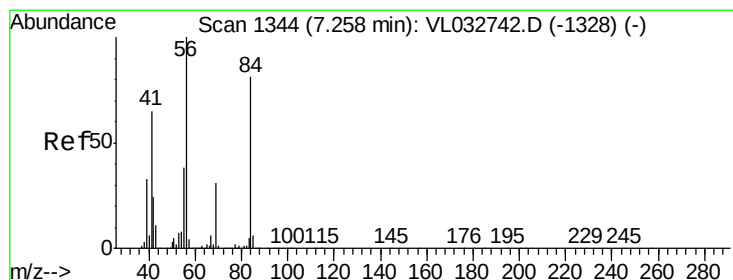
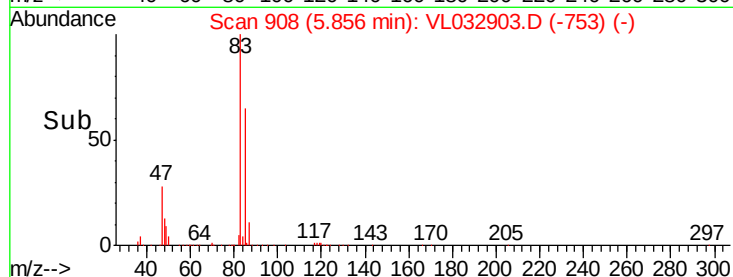
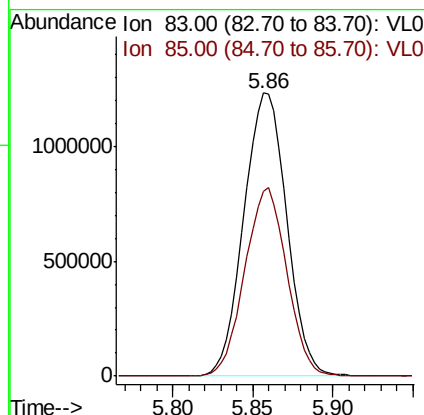
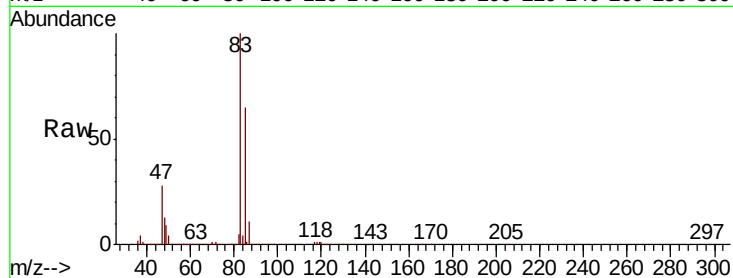
#29
Chloroform
Concen: 9.750 ppbv
RT: 5.86 min Scan# 908
Delta R.T. -0.00 min
Lab File: VL032903.D
Acq: 5 Dec 2018 9:07

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 83 Resp: 2267509
Ion Ratio Lower Upper
83 100
85 65.3 54.2 81.4

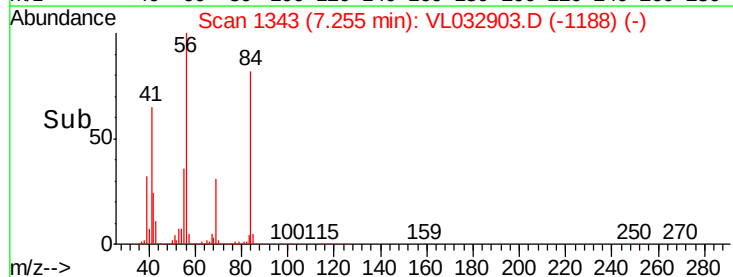
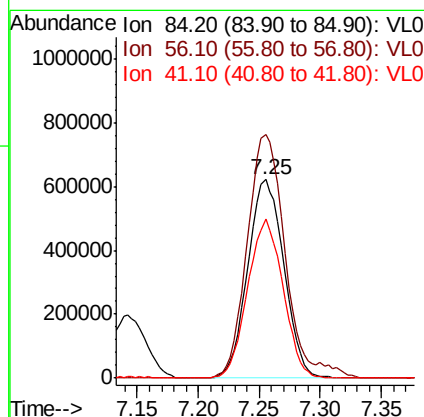
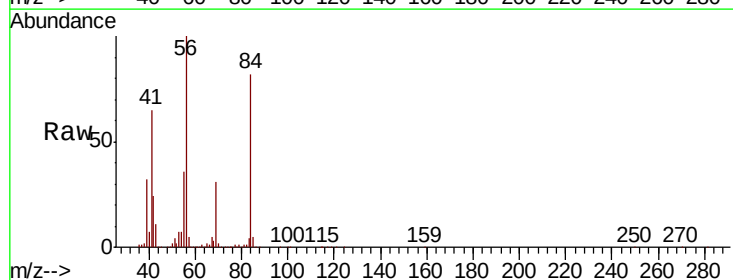
Manual Integrations
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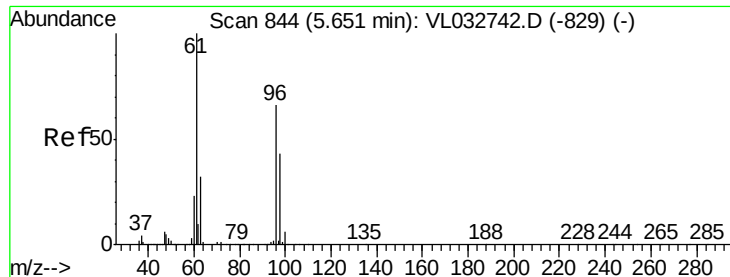
MMDadoda
12/10/2018 1:02:17 PM



#30
Cyclohexane
Concen: 11.130 ppbv
RT: 7.25 min Scan# 1343
Delta R.T. -0.00 min
Lab File: VL032903.D
Acq: 5 Dec 2018 9:07

Tgt Ion: 84 Resp: 1270214
Ion Ratio Lower Upper
84 100
56 129.4 105.0 157.4
41 78.6 65.3 97.9





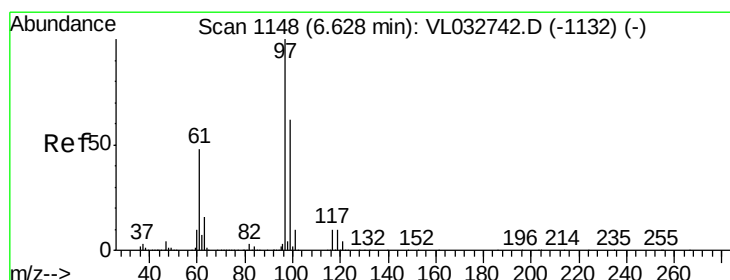
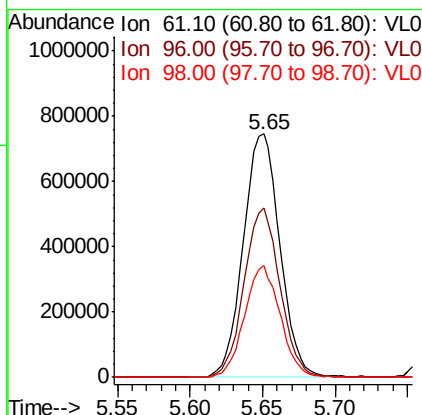
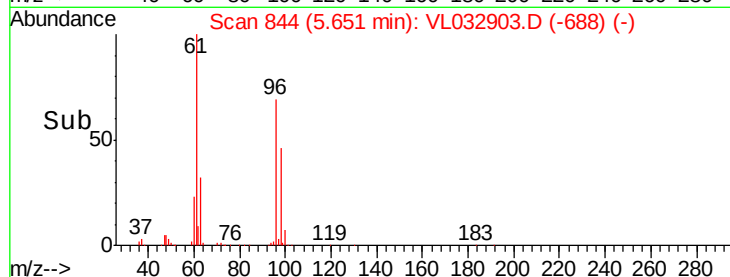
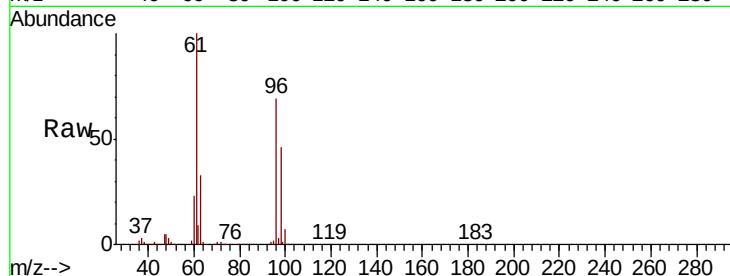
#31
 cis-1,2-Dichloroethene
 Concen: 10.013 ppbv
 RT: 5.65 min Scan# 844
 Delta R.T. 0.00 min
 Lab File: VL032903.D
 Acq: 5 Dec 2018 9:07

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
61	100		
96	69.3	53.2	79.8
98	45.8	34.4	51.6

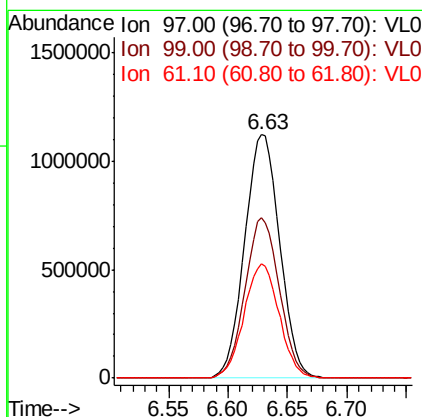
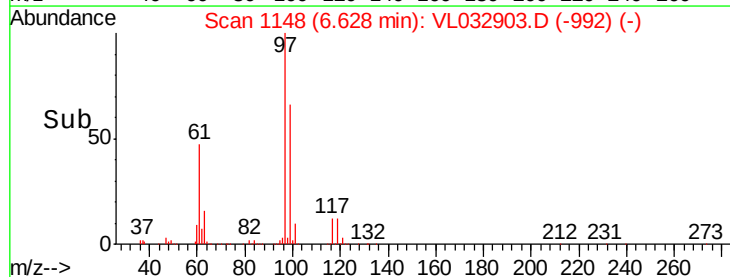
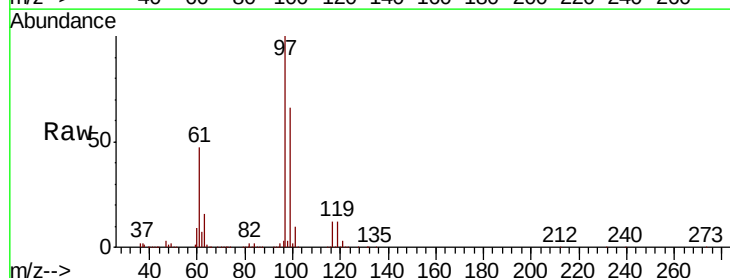
Manual Integrations
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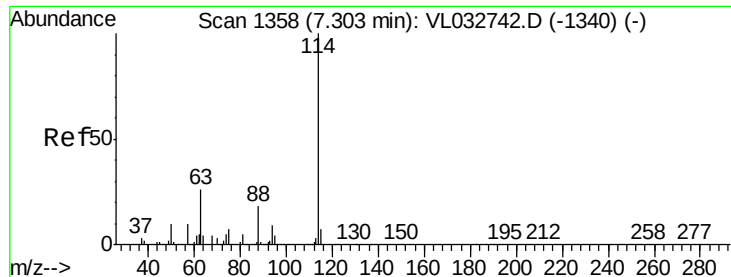
MMDadoda
 12/10/2018 1:02:17 PM



#32
 1,1,1-Trichloroethane
 Concen: 9.004 ppbv
 RT: 6.63 min Scan# 1148
 Delta R.T. 0.00 min
 Lab File: VL032903.D
 Acq: 5 Dec 2018 9:07

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.7	51.8	77.6
61	47.0	39.7	59.5





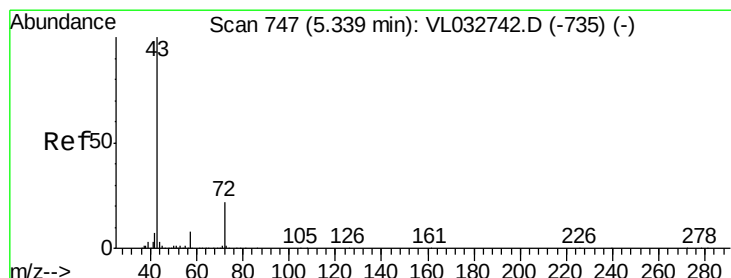
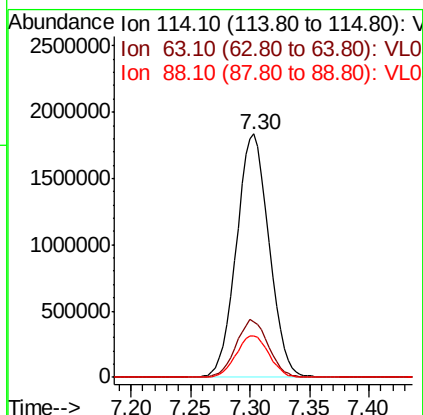
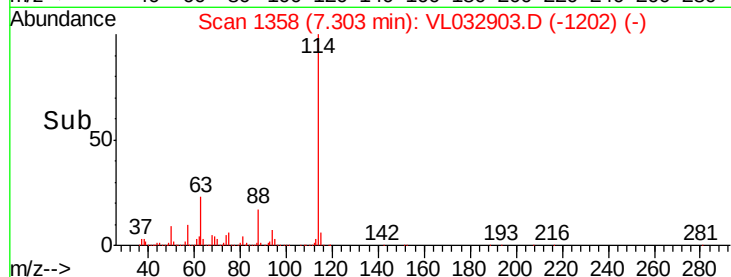
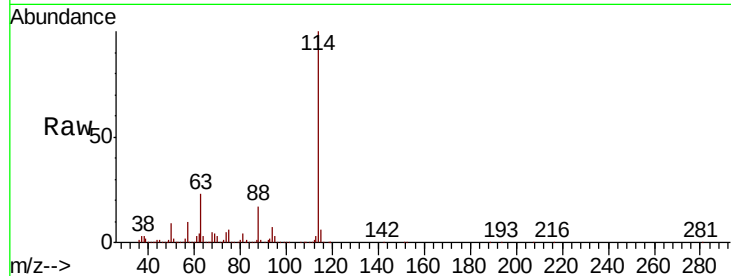
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.30 min Scan# 1358
 Delta R.T. 0.00 min
 Lab File: VL032903.D
 Acq: 5 Dec 2018 9:07

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
114	100		
63	23.7	20.9	31.3
88	17.2	14.4	21.6

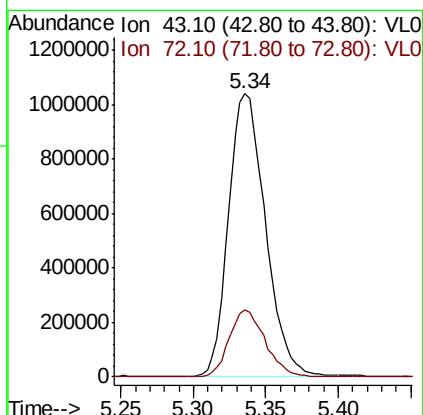
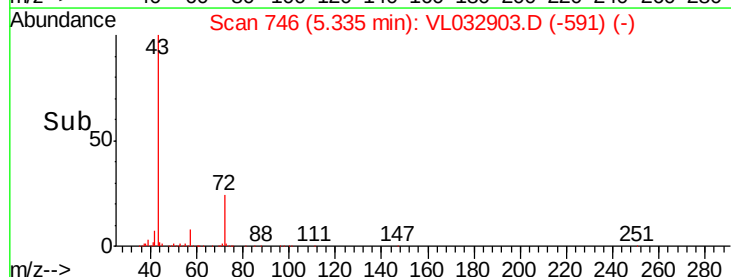
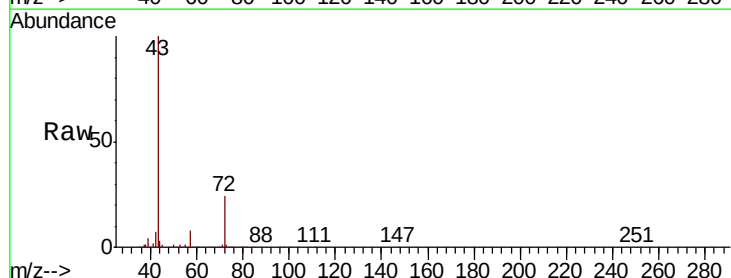
Manual Integrations
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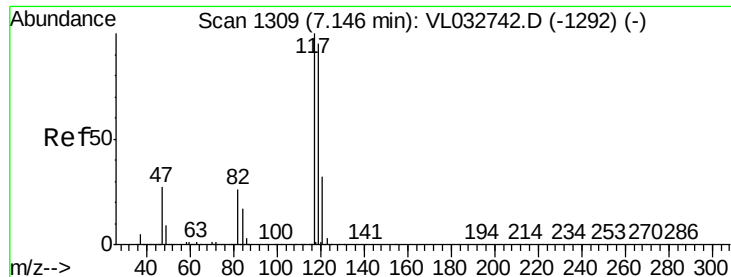
MMDadoda
 12/10/2018 1:02:17 PM



#34
 2-Butanone
 Concen: 10.118 ppbv
 RT: 5.34 min Scan# 746
 Delta R.T. -0.00 min
 Lab File: VL032903.D
 Acq: 5 Dec 2018 9:07

Tgt Ion	Ratio	Lower	Upper
43	100		
72	23.5	18.4	27.6





#35

Carbon Tetrachloride

Concen: 8.749 ppbv

RT: 7.14 min Scan# 1308

Delta R.T. -0.00 min

Lab File: VL032903.D

Acq: 5 Dec 2018 9:07

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 117 Resp: 2454307

Ion Ratio Lower Upper

117 100

119 94.5 76.1 114.1

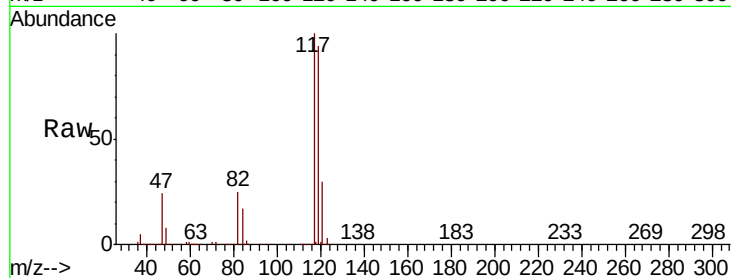
121 30.4 25.4 38.0

Manual Integrations

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MMDadoda

12/10/2018 1:02:17 PM

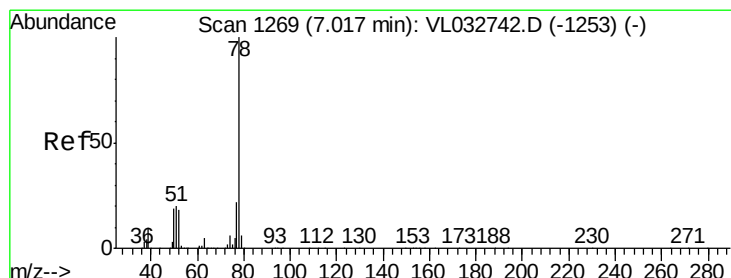
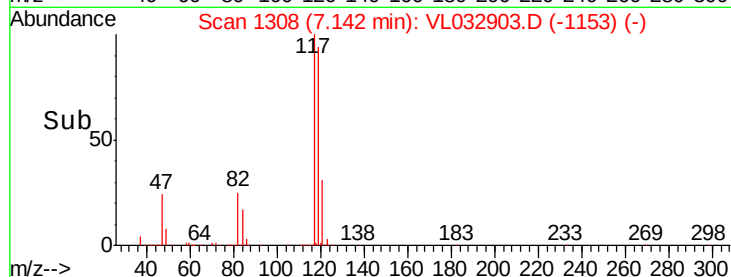
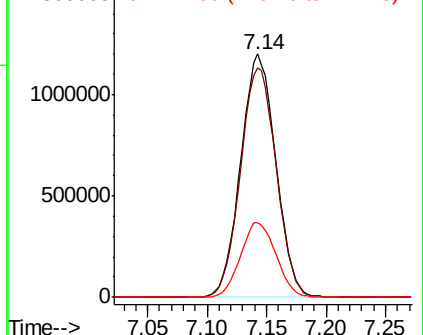


Abundance

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: 10.915 ppbv

RT: 7.01 min Scan# 1268

Delta R.T. -0.00 min

Lab File: VL032903.D

Acq: 5 Dec 2018 9:07

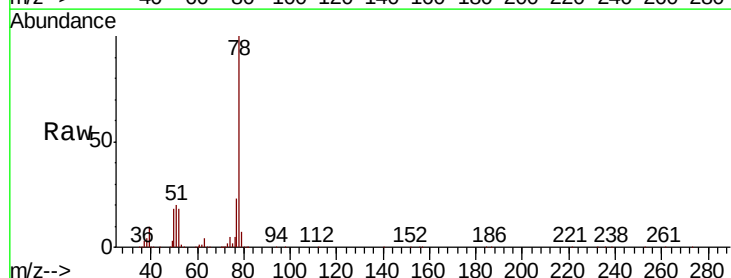
Tgt Ion: 78 Resp: 3032976

Ion Ratio Lower Upper

78 100

77 22.9 17.8 26.8

50 17.9 15.4 23.0

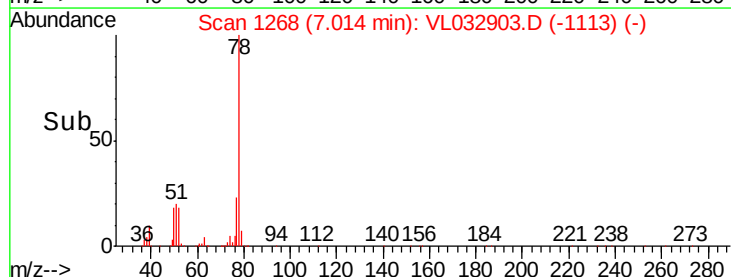
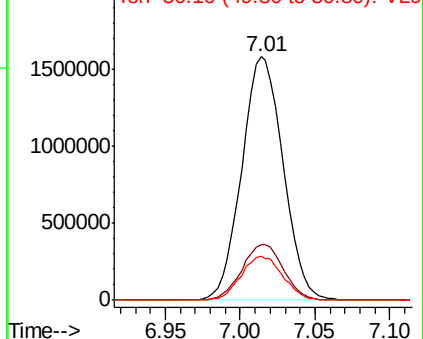


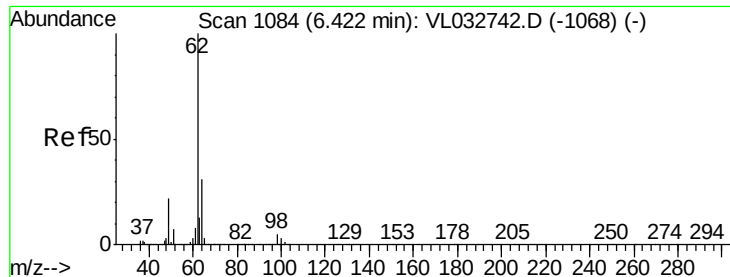
Abundance

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





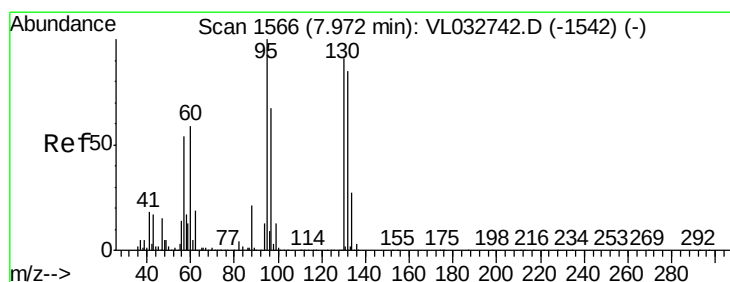
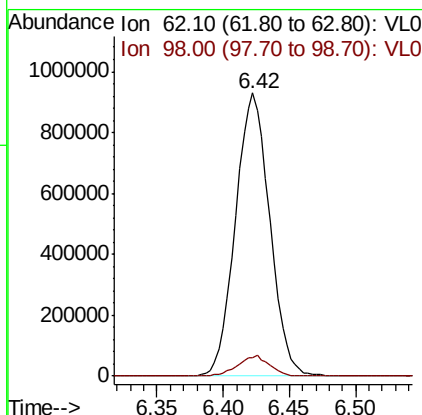
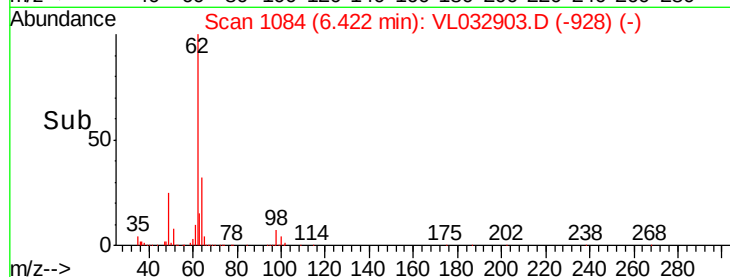
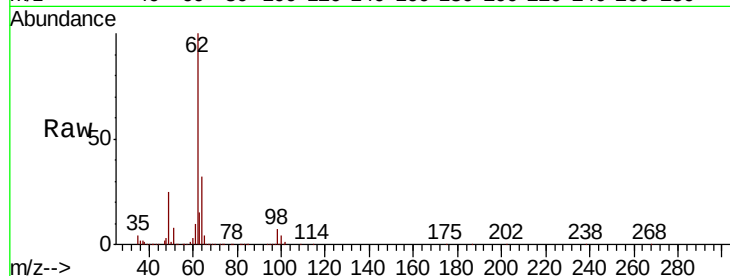
#37
 1,2-Dichloroethane
 Concen: 8.930 ppbv
 RT: 6.42 min Scan# 1084
 Delta R.T. 0.00 min
 Lab File: VL032903.D
 Acq: 5 Dec 2018 9:07

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion: 62 Resp: 1670376
 Ion Ratio Lower Upper
 62 100
 98 6.7 4.5 6.7#

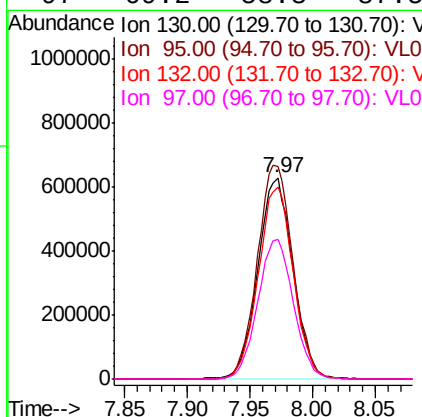
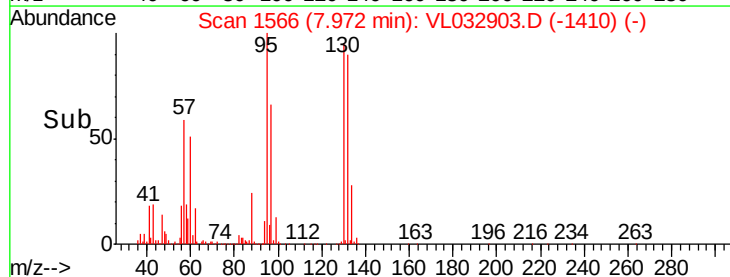
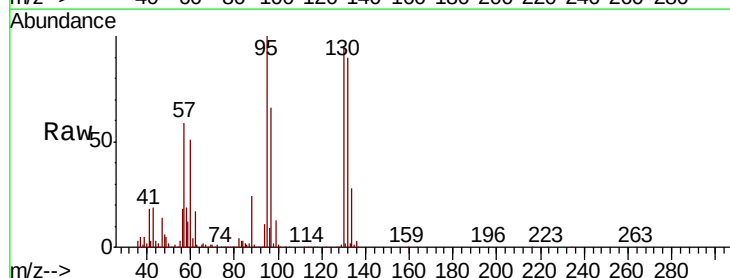
Manual Integrations
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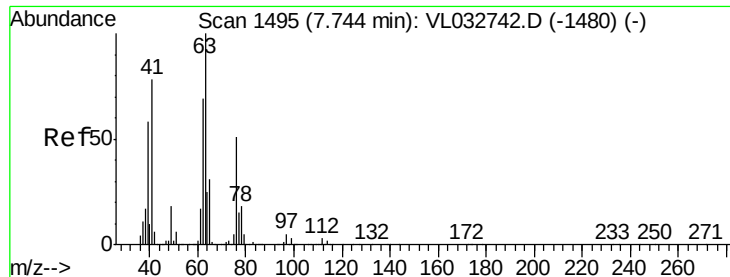
MMDadoda
 12/10/2018 1:02:17 PM



#38
 Trichloroethene
 Concen: 10.882 ppbv
 RT: 7.97 min Scan# 1566
 Delta R.T. 0.00 min
 Lab File: VL032903.D
 Acq: 5 Dec 2018 9:07

Tgt Ion: 130 Resp: 1223738
 Ion Ratio Lower Upper
 130 100
 95 105.7 87.7 131.5
 132 95.6 74.6 111.8
 97 69.2 58.3 87.5





#39

1,2-Dichloropropane

Concen: 10.890 ppbv

RT: 7.74 min Scan# 1495

Delta R.T. 0.00 min

Lab File: VL032903.D

Acq: 5 Dec 2018 9:07

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 63 Resp: 1152882

Ion Ratio Lower Upper

63 100

41 70.9 62.0 93.0

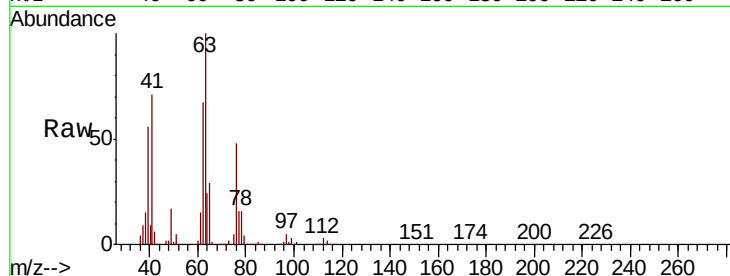
62 66.9 55.4 83.2

Manual Integrations

APPROVED

MMDadoda

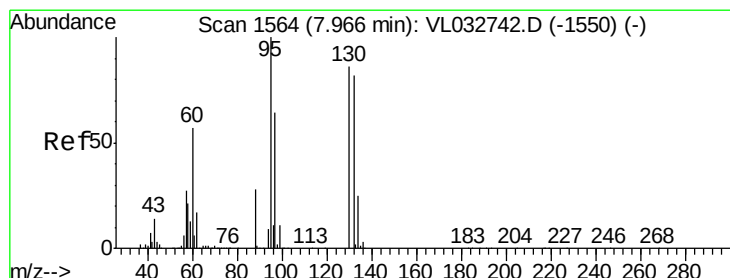
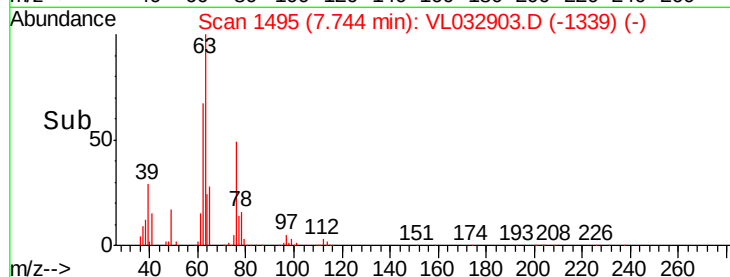
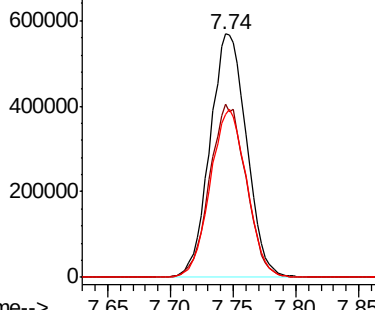
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Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0



#40

1,4-Dioxane

Concen: 11.468 ppbv

RT: 7.96 min Scan# 1563

Delta R.T. -0.00 min

Lab File: VL032903.D

Acq: 5 Dec 2018 9:07

Tgt Ion: 88 Resp: 433638

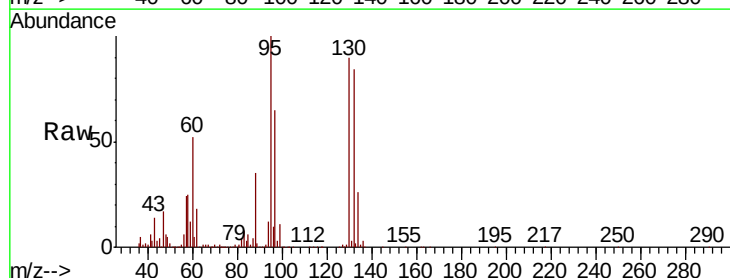
Ion Ratio Lower Upper

88 100

58 124.7 105.3 157.9

43 0.0 226.1 339.1#

57 0.0 1015.2 1522.8#

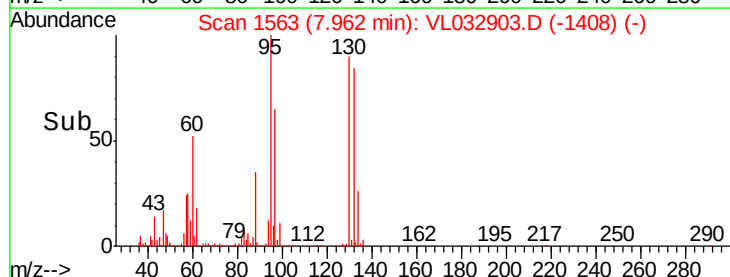
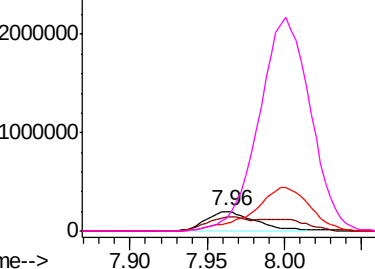


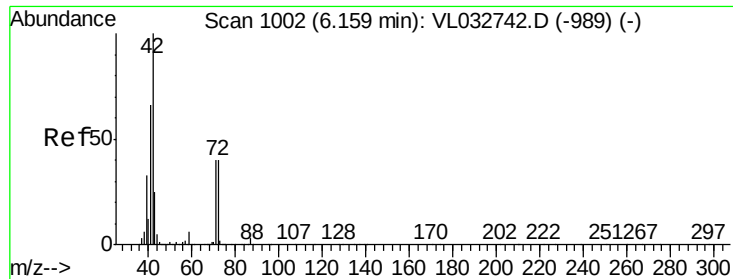
Abundance Ion 88.10 (87.80 to 88.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





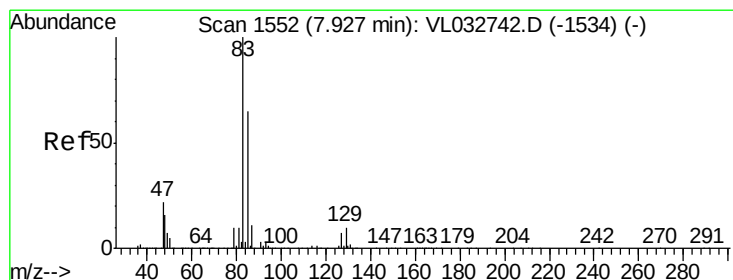
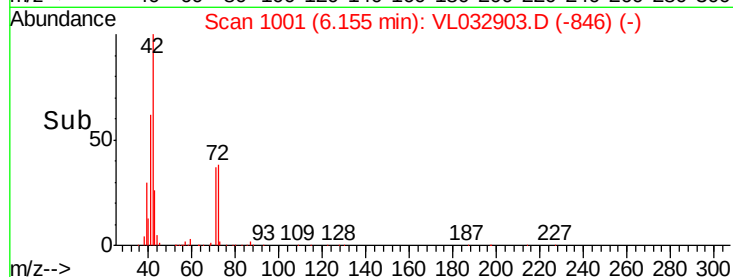
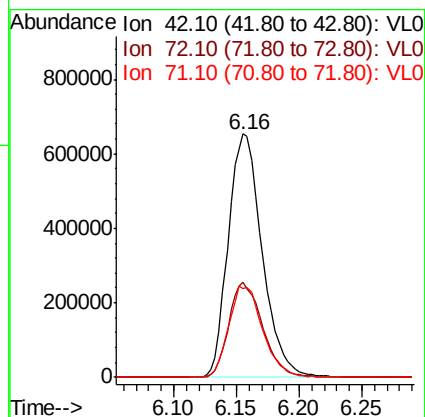
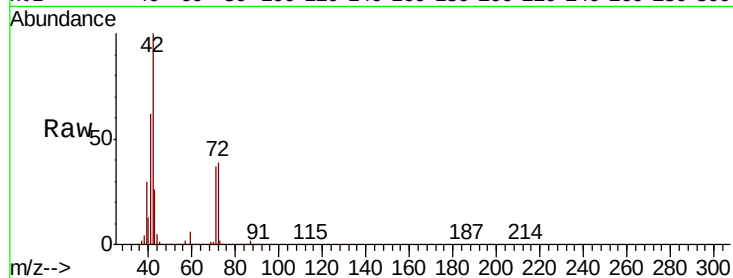
#41
Tetrahydrofuran
Concen: 11.801 ppbv
RT: 6.16 min Scan# 1001
Delta R.T. -0.00 min
Lab File: VL032903.D
Acq: 5 Dec 2018 9:07

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 42 Resp: 1225120
Ion Ratio Lower Upper
42 100
72 39.3 32.4 48.6
71 37.8 31.6 47.4

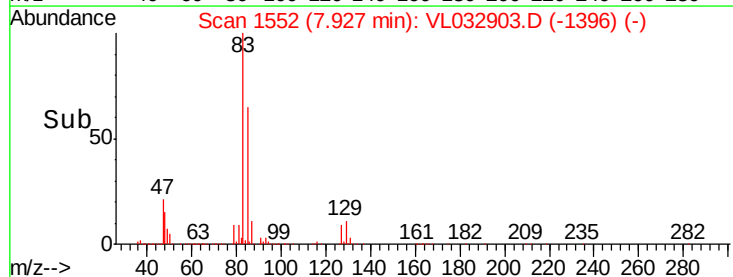
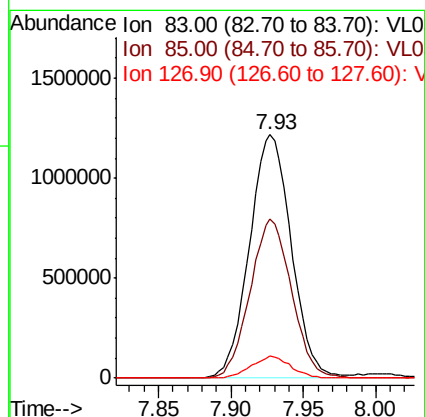
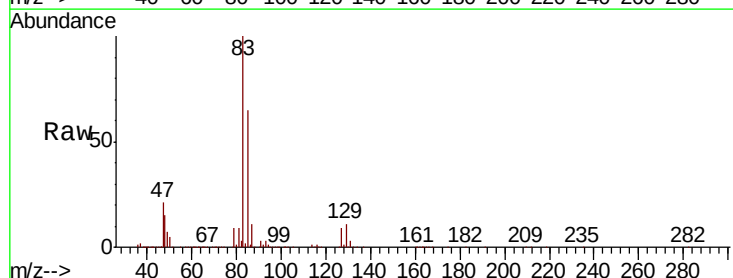
Manual Integrations
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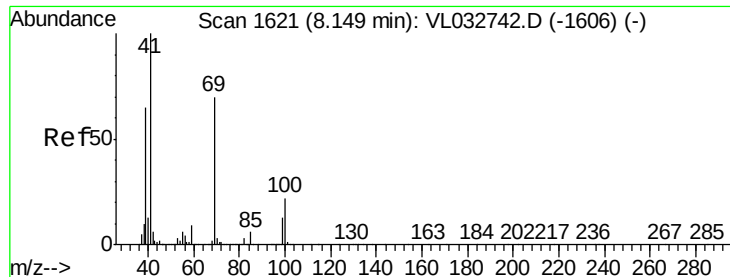
MMDadoda
12/10/2018 1:02:17 PM



#42
Bromodichloromethane
Concen: 9.622 ppbv
RT: 7.93 min Scan# 1552
Delta R.T. 0.00 min
Lab File: VL032903.D
Acq: 5 Dec 2018 9:07

Tgt Ion: 83 Resp: 2439853
Ion Ratio Lower Upper
83 100
85 65.3 51.8 77.8
127 9.1 5.9 8.9#





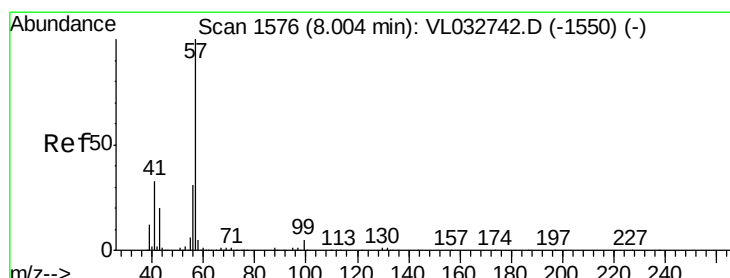
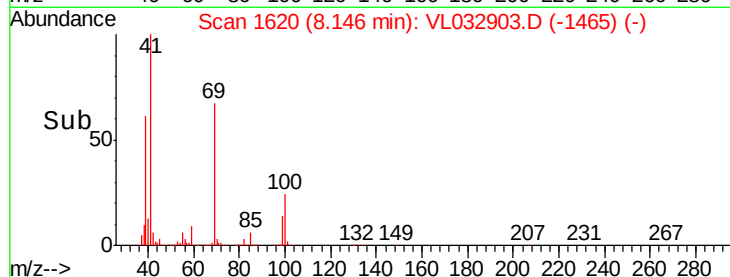
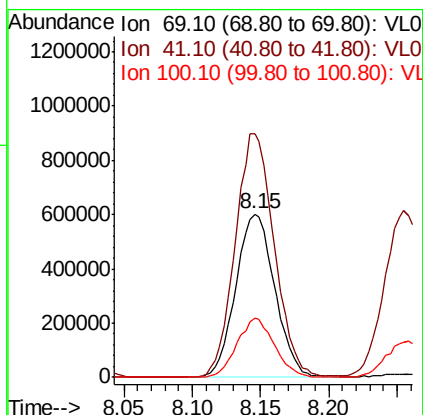
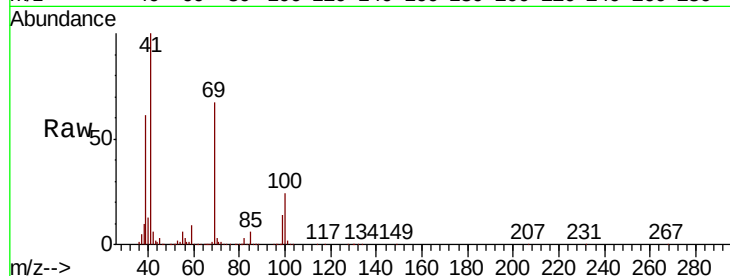
#43
Methyl Methacrylate
Concen: 11.532 ppbv
RT: 8.15 min Scan# 1620
Delta R.T. -0.00 min
Lab File: VL032903.D
Acq: 5 Dec 2018 9:07

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 69 Resp: 1196274
Ion Ratio Lower Upper
69 100
41 148.8 115.0 172.4
100 34.7 25.4 38.0

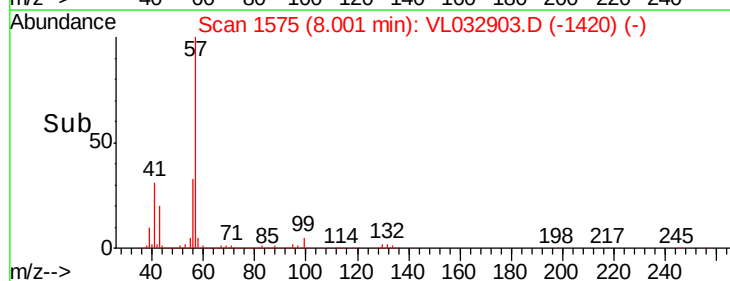
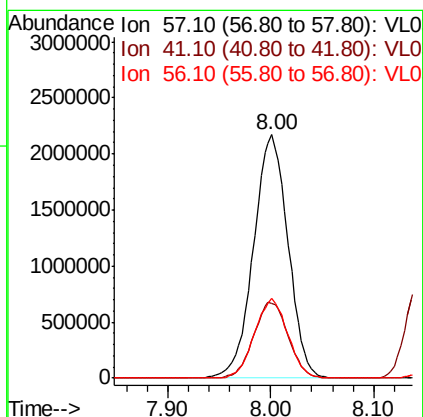
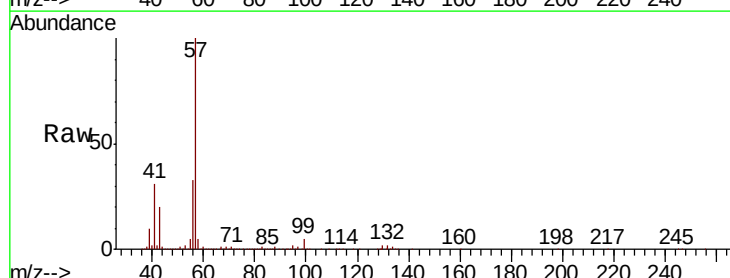
Manual Integrations
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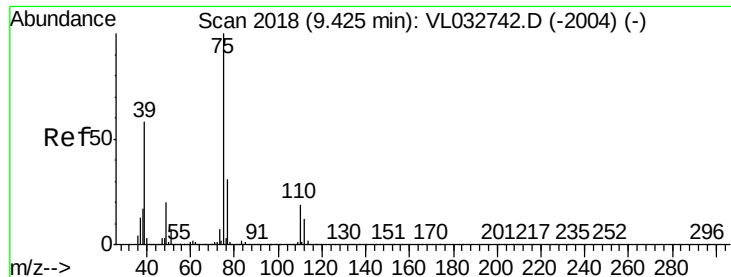
MMDadoda
12/10/2018 1:02:17 PM



#44
2,2,4-Trimethylpentane
Concen: 10.839 ppbv
RT: 8.00 min Scan# 1575
Delta R.T. -0.00 min
Lab File: VL032903.D
Acq: 5 Dec 2018 9:07

Tgt Ion: 57 Resp: 5033134
Ion Ratio Lower Upper
57 100
41 31.2 26.6 39.8
56 31.3 24.8 37.2





#45

t-1,3-Dichloropropene

Concen: 11.942 ppbv

RT: 9.43 min Scan# 2018

Delta R.T. 0.00 min

Lab File: VL032903.D

Acq: 5 Dec 2018 9:07

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 75 Resp: 1662289

Ion Ratio Lower Upper

75 100

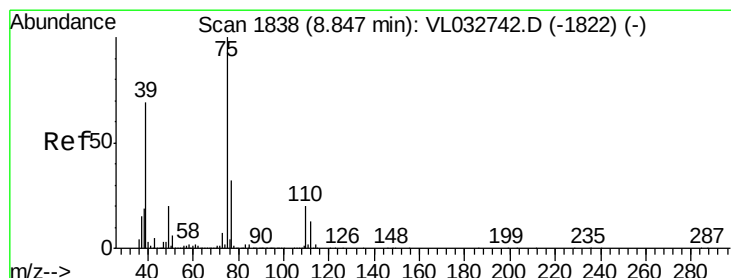
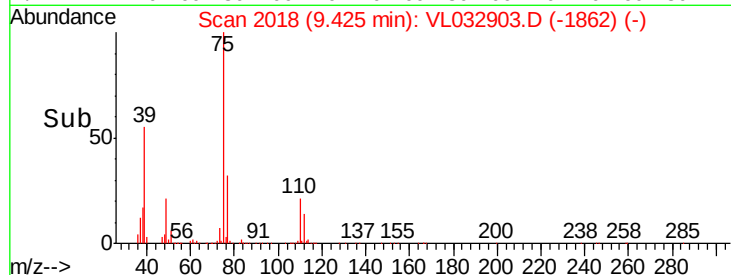
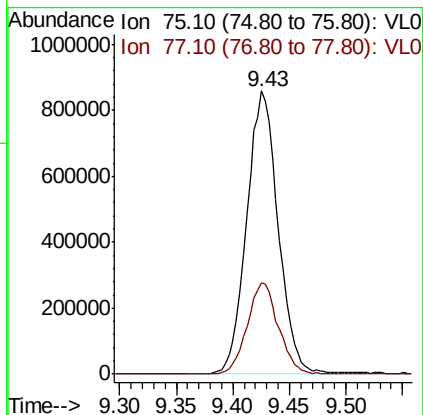
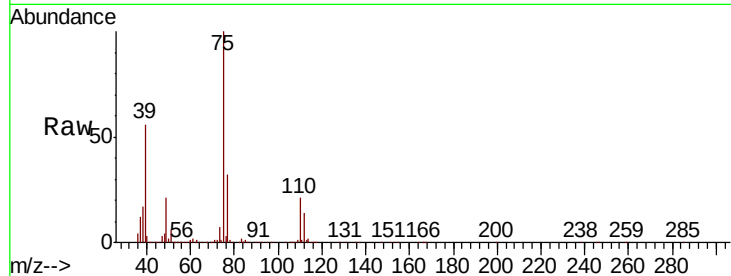
77 32.2 24.6 36.8

Manual Integrations

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12/10/2018 1:02:17 PM



#46

cis-1,3-Dichloropropene

Concen: 10.988 ppbv

RT: 8.84 min Scan# 1837

Delta R.T. -0.00 min

Lab File: VL032903.D

Acq: 5 Dec 2018 9:07

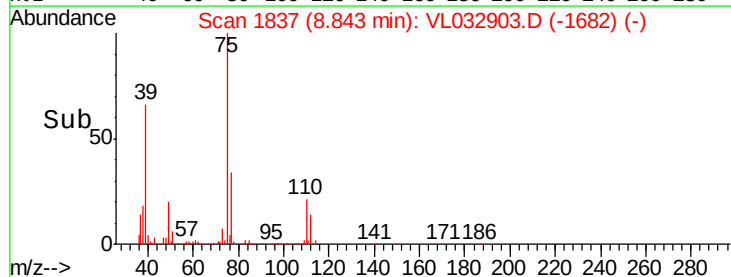
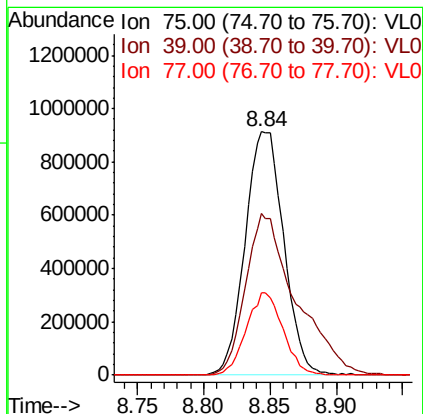
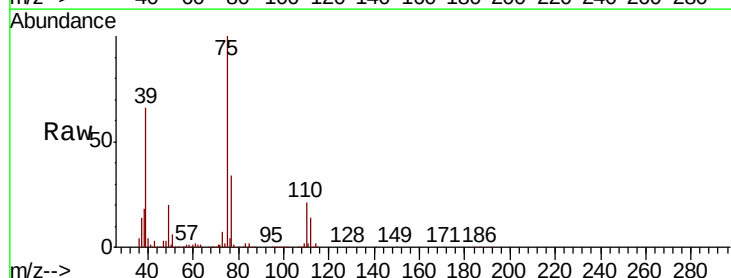
Tgt Ion: 75 Resp: 1847907

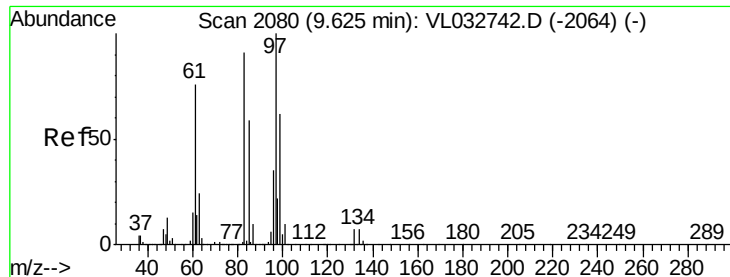
Ion Ratio Lower Upper

75 100

39 66.4 55.2 82.8

77 33.9 25.8 38.6





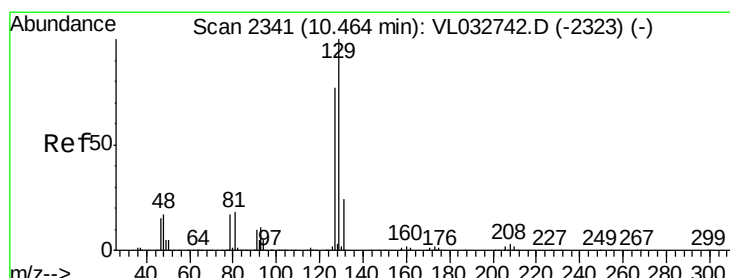
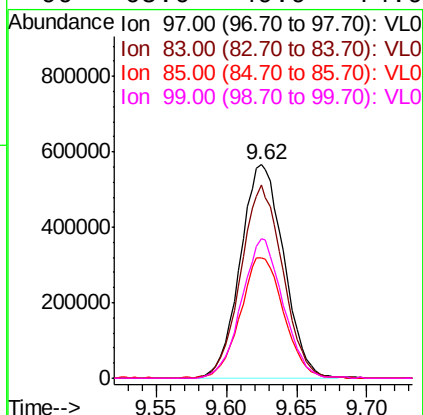
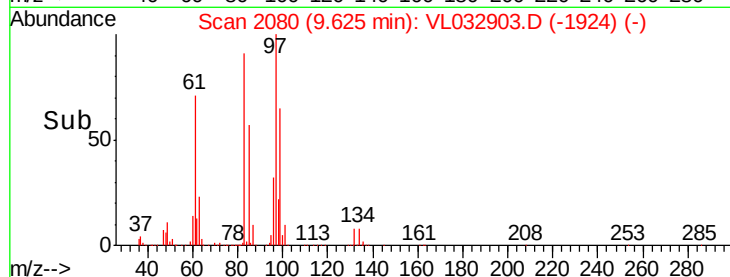
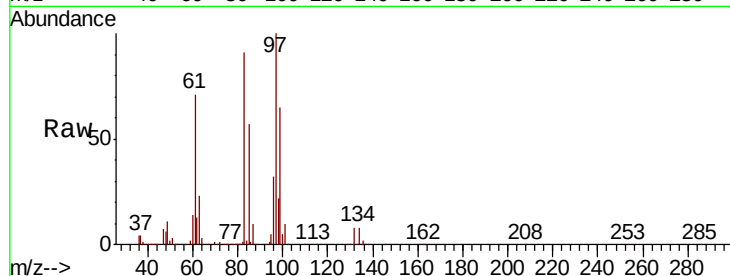
#47
 1,1,2-Trichloroethane
 Concen: 9.733 ppbv
 RT: 9.62 min Scan# 2080
 Delta R.T. 0.00 min
 Lab File: VL032903.D
 Acq: 5 Dec 2018 9:07

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ion	Ratio	Lower	Upper
97	100			
83	90.7	73.0	109.4	
85	56.3	47.0	70.4	
99	65.0	49.9	74.9	

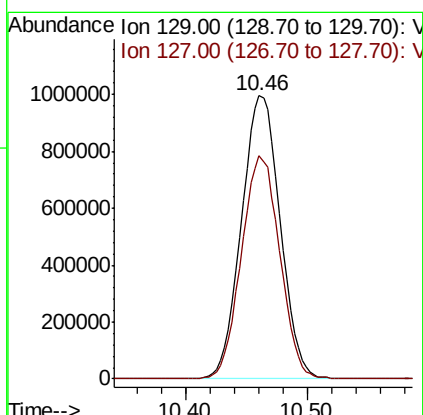
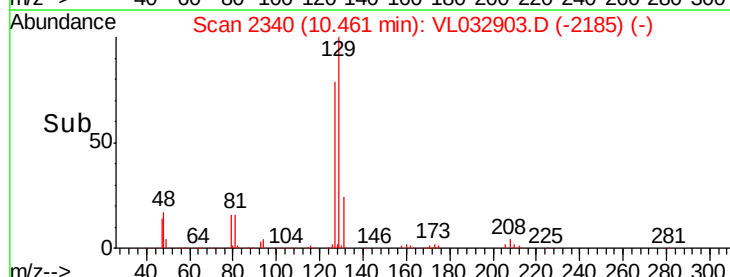
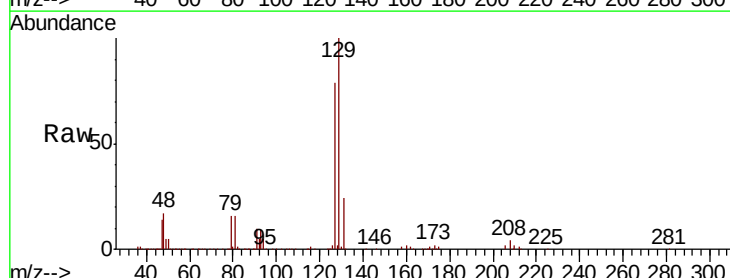
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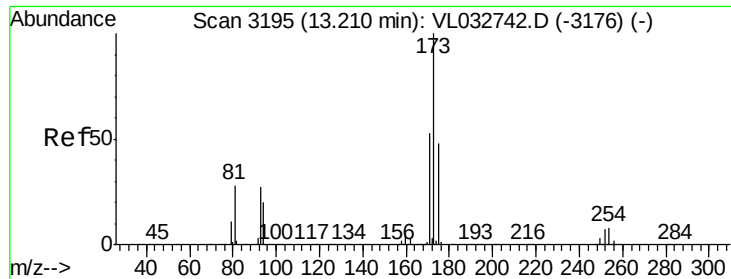
MMDadoda
 12/10/2018 1:02:17 PM



#48
 Dibromochloromethane
 Concen: 10.245 ppbv
 RT: 10.46 min Scan# 2340
 Delta R.T. -0.00 min
 Lab File: VL032903.D
 Acq: 5 Dec 2018 9:07

Tgt Ion	Ion	Ratio	Lower	Upper
129	100			
127	78.4	39.0	117.0	





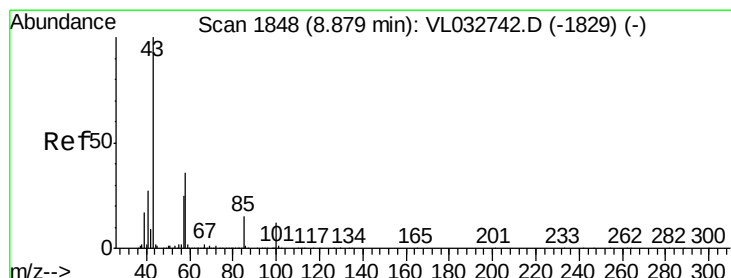
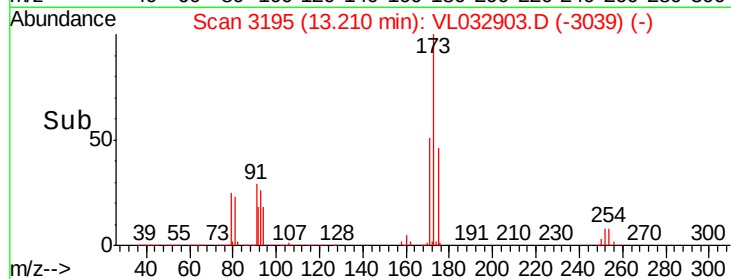
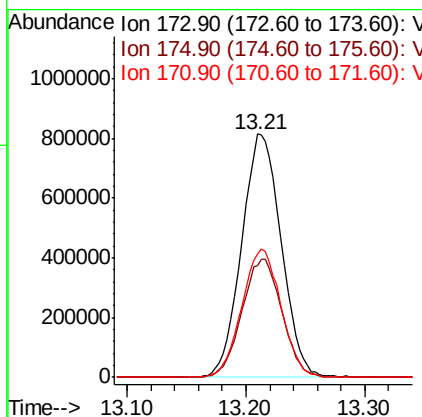
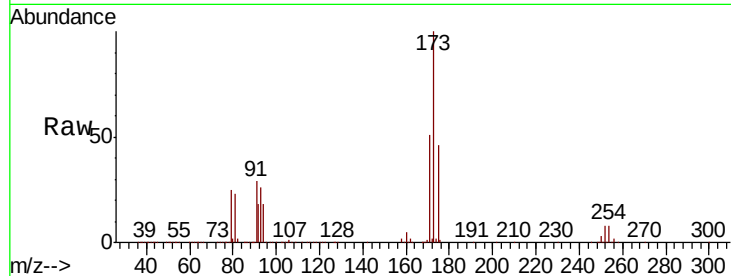
#49
Bromoform
Concen: 10.677 ppbv
RT: 13.21 min Scan# 3195
Delta R.T. 0.00 min
Lab File: VL032903.D
Acq: 5 Dec 2018 9:07

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion:173 Resp: 1876087
Ion Ratio Lower Upper
173 100
175 49.1 39.4 59.0
171 52.4 42.0 63.0

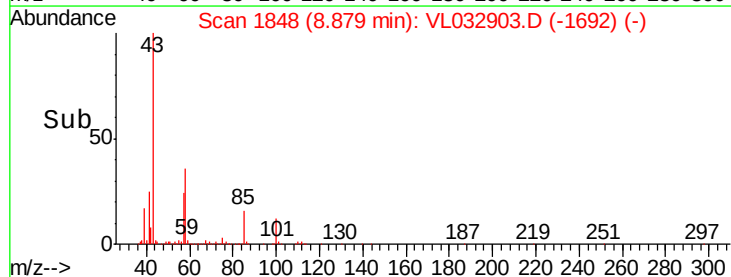
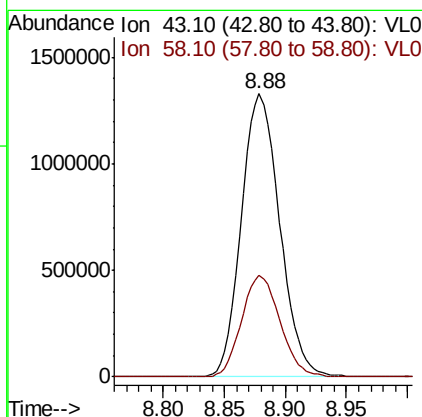
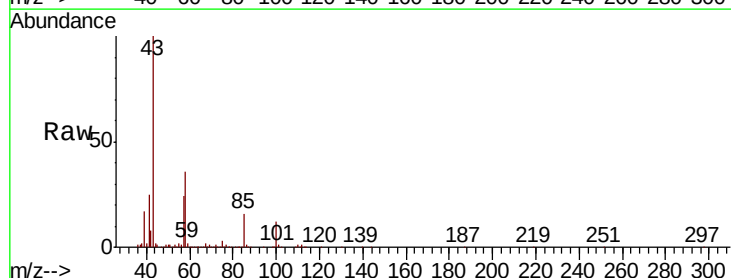
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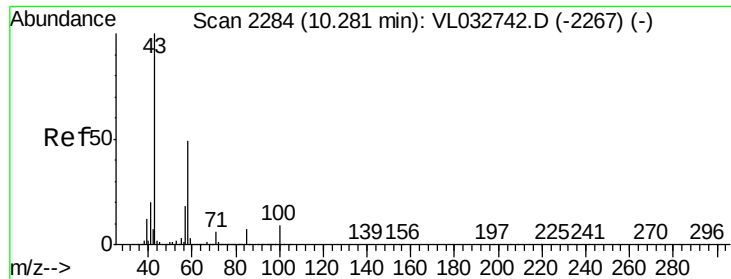
MMDadoda
12/10/2018 1:02:17 PM



#50
4-Methyl-2-Pentanone
Concen: 10.182 ppbv
RT: 8.88 min Scan# 1848
Delta R.T. 0.00 min
Lab File: VL032903.D
Acq: 5 Dec 2018 9:07

Tgt Ion: 43 Resp: 2878364
Ion Ratio Lower Upper
43 100
58 36.1 28.8 43.2





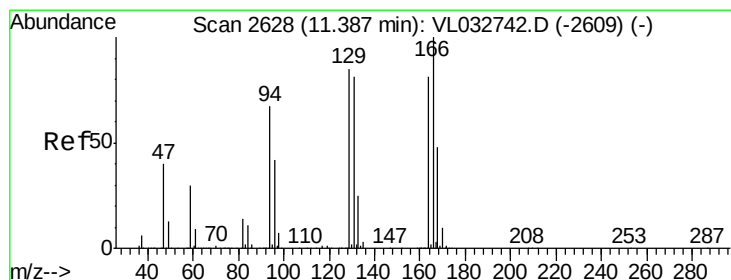
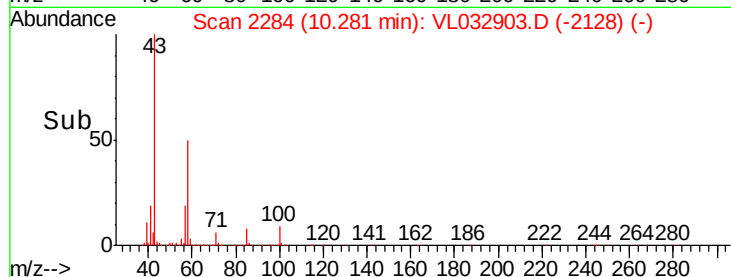
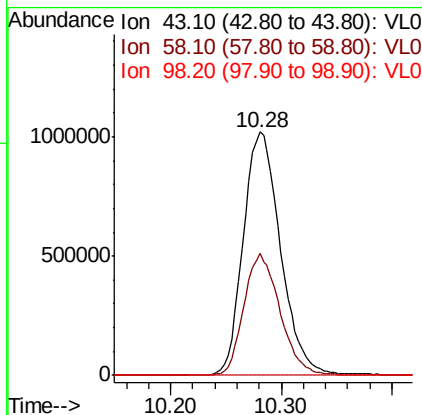
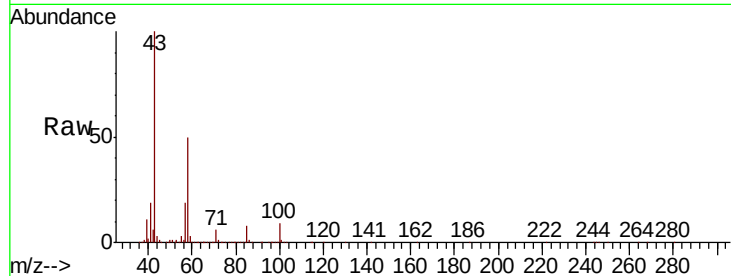
#51
2-Hexanone
Concen: 13.091 ppbv
RT: 10.28 min Scan# 2284
Delta R.T. 0.00 min
Lab File: VL032903.D
Acq: 5 Dec 2018 9:07

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 43 Resp: 2384120
Ion Ratio Lower Upper
43 100
58 49.0 38.9 58.3
98 0.2 0.2 0.4#

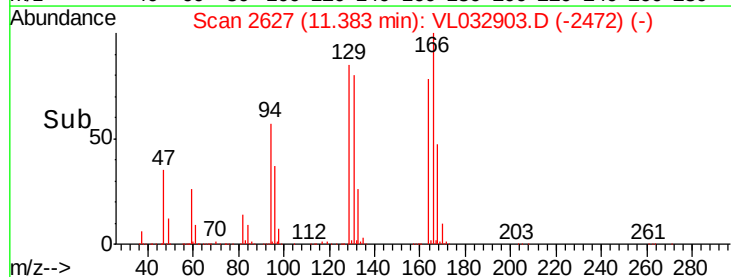
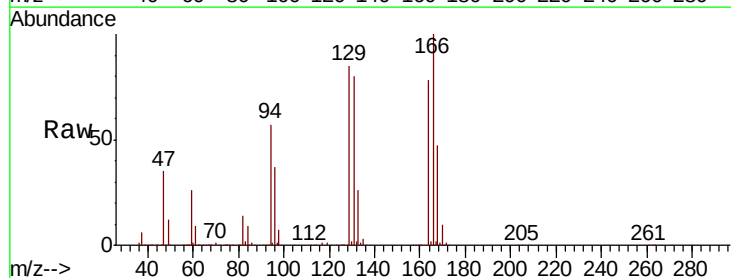
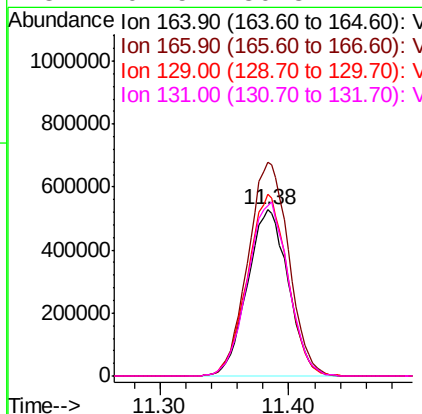
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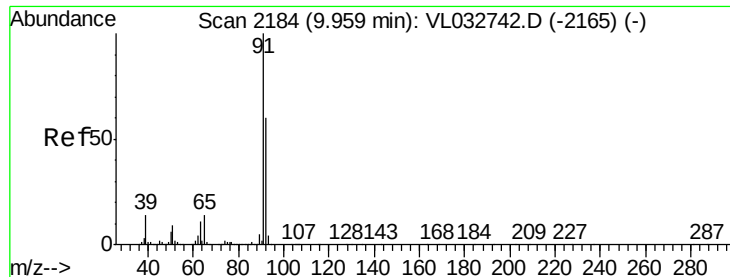
MMDadoda
12/10/2018 1:02:17 PM



#52
Tetrachloroethene
Concen: 12.034 ppbv
RT: 11.38 min Scan# 2627
Delta R.T. -0.00 min
Lab File: VL032903.D
Acq: 5 Dec 2018 9:07

Tgt Ion:164 Resp: 1163189
Ion Ratio Lower Upper
164 100
166 128.5 99.3 148.9
129 109.1 83.9 125.9
131 102.5 80.8 121.2





#53

Toluene

Concen: 12.085 ppbv

RT: 9.96 min Scan# 2183

Delta R.T. -0.00 min

Lab File: VL032903.D

Acq: 5 Dec 2018 9:07

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 91 Resp: 3503281

Ion Ratio Lower Upper

91 100

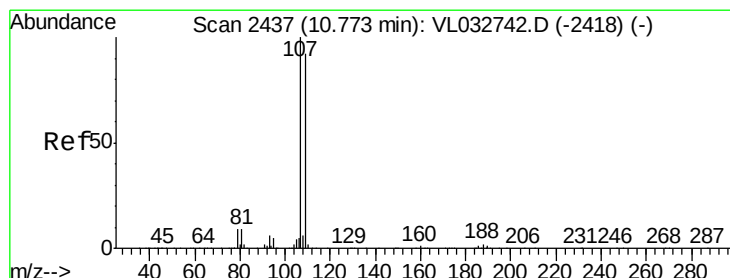
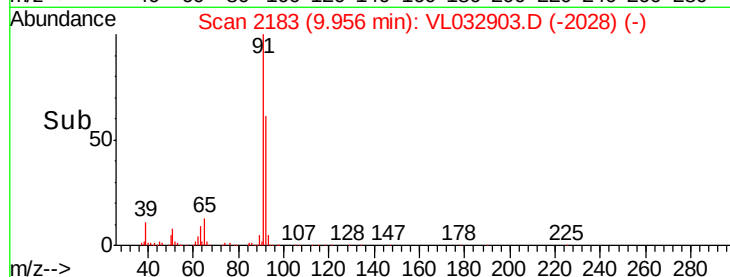
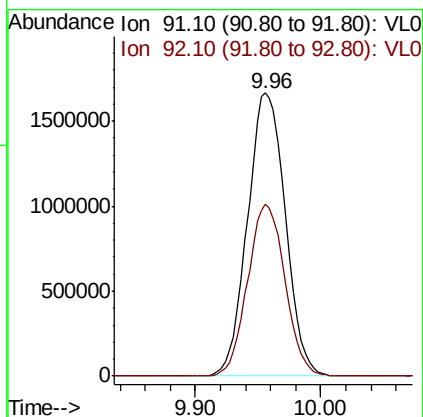
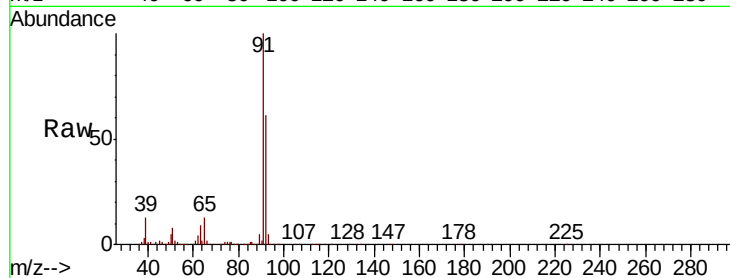
92 60.0 47.9 71.9

Manual Integrations

APPROVED

MMDadoda

12/10/2018 1:02:17 PM



#54

1,2-Dibromoethane

Concen: 10.631 ppbv

RT: 10.77 min Scan# 2436

Delta R.T. -0.00 min

Lab File: VL032903.D

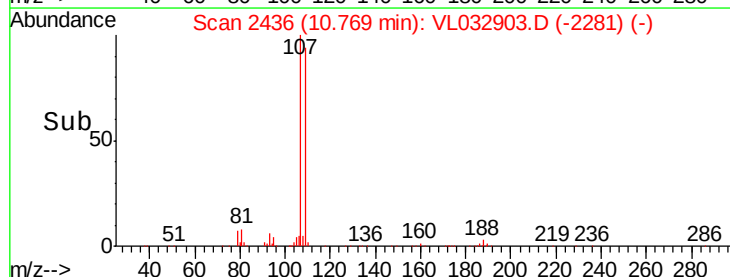
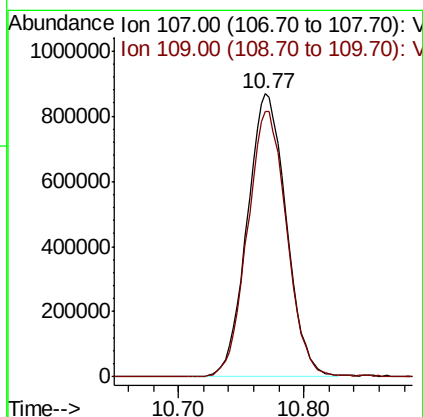
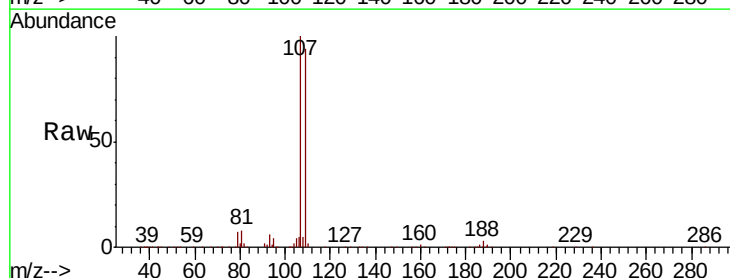
Acq: 5 Dec 2018 9:07

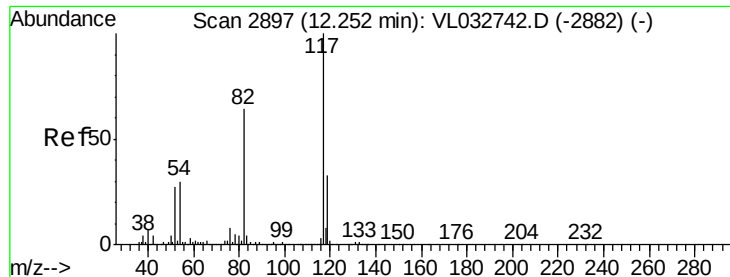
Tgt Ion: 107 Resp: 1881322

Ion Ratio Lower Upper

107 100

109 93.9 73.8 110.8





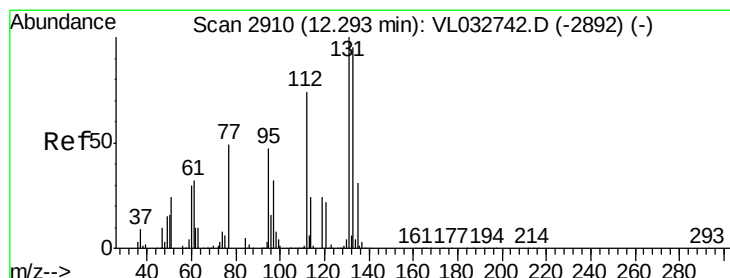
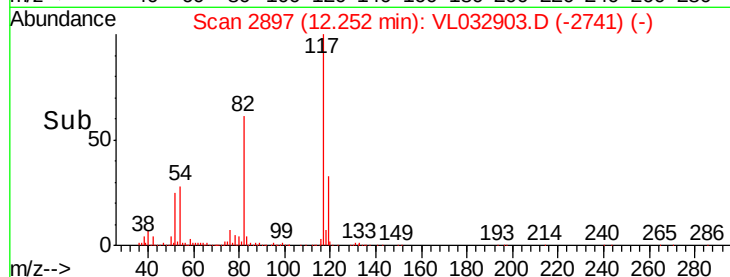
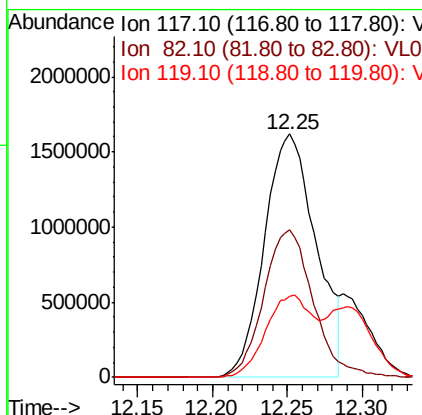
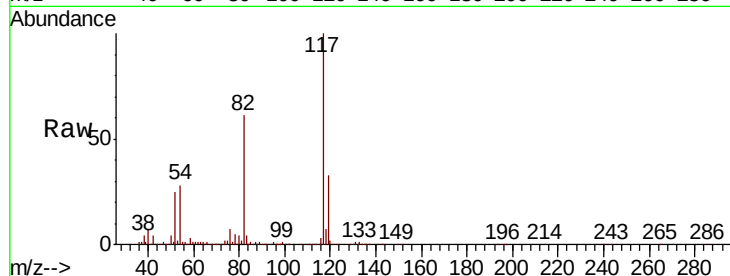
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.25 min Scan# 2897
Delta R.T. 0.00 min
Lab File: VL032903.D
Acq: 5 Dec 2018 9:07

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
117	100		
82	58.4	51.0	76.6
119	32.5	28.0	42.0

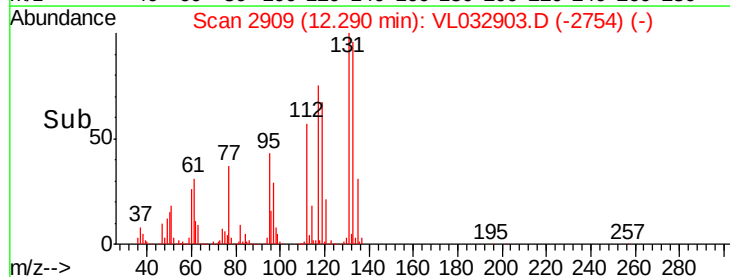
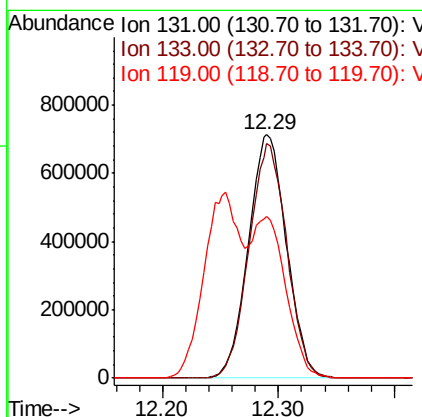
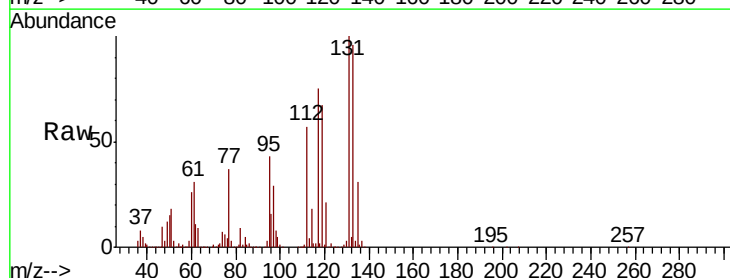
Manual Integrations
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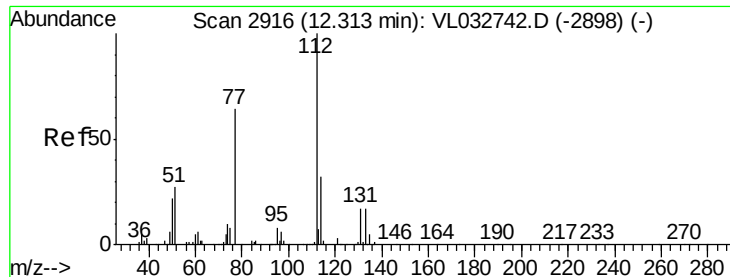
MMDadoda
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#56
1,1,1,2-Tetrachloroethane
Concen: 9.010 ppbv
RT: 12.29 min Scan# 2909
Delta R.T. -0.00 min
Lab File: VL032903.D
Acq: 5 Dec 2018 9:07

Tgt Ion	Ratio	Lower	Upper
131	100		
133	95.7	75.8	113.6
119	52.4	45.2	67.8





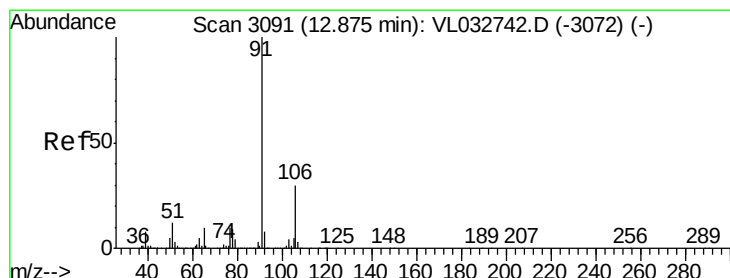
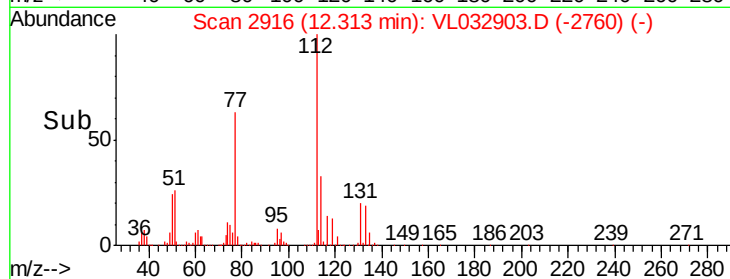
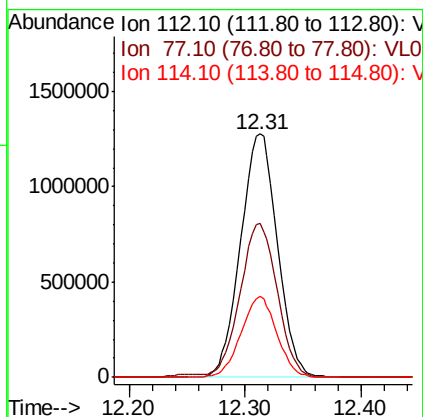
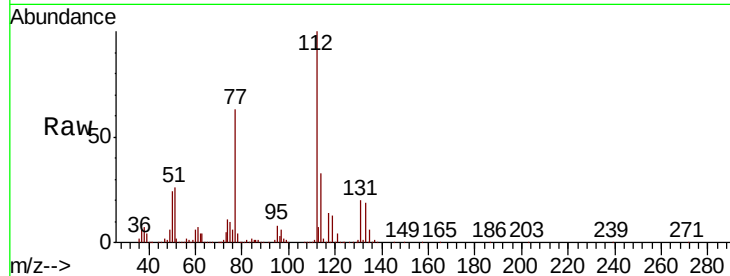
#57
Chlorobenzene
Concen: 9.498 ppbv
RT: 12.31 min Scan# 2916
Delta R.T. 0.00 min
Lab File: VL032903.D
Acq: 5 Dec 2018 9:07

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
112	100		
77	63.3	52.3	78.5
114	33.1	28.4	34.8

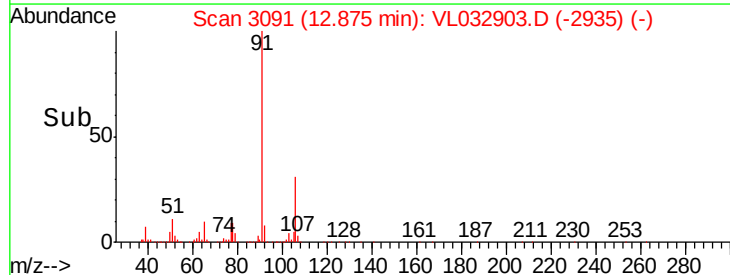
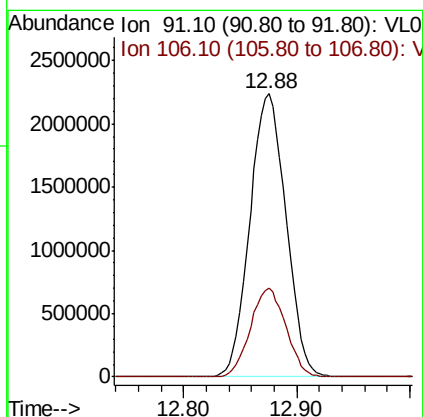
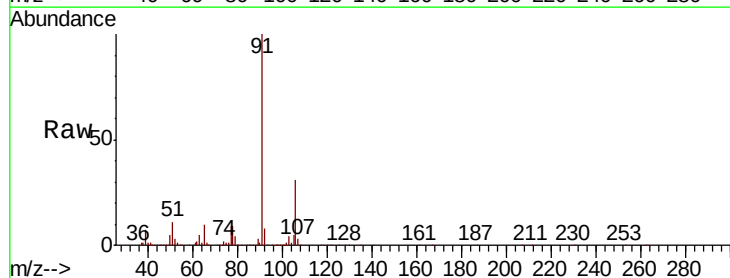
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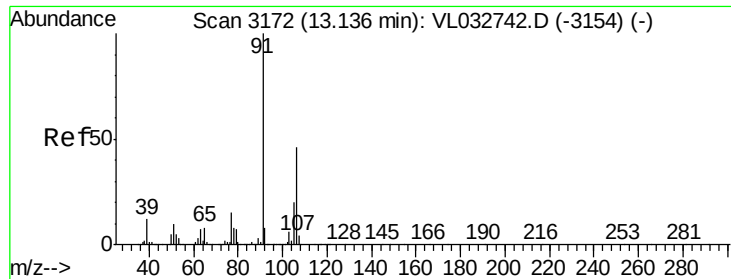
MMDadoda
12/10/2018 1:02:17 PM



#58
Ethyl Benzene
Concen: 10.622 ppbv
RT: 12.88 min Scan# 3091
Delta R.T. 0.00 min
Lab File: VL032903.D
Acq: 5 Dec 2018 9:07

Tgt Ion	Ratio	Lower	Upper
91	100		
106	31.3	23.6	35.4





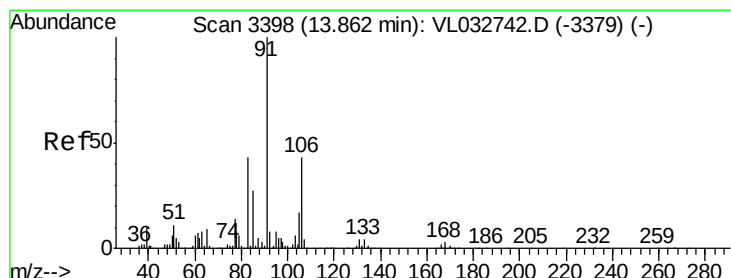
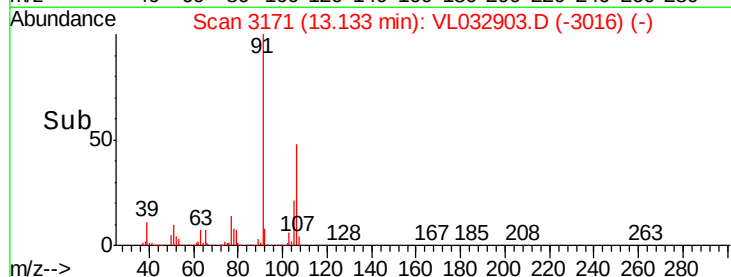
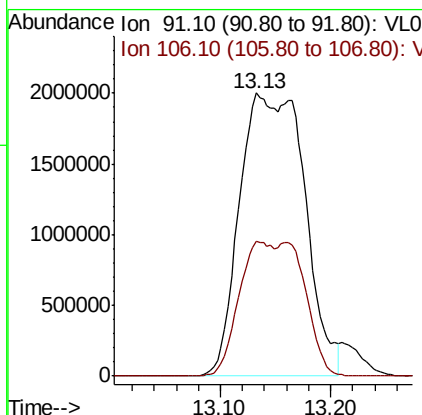
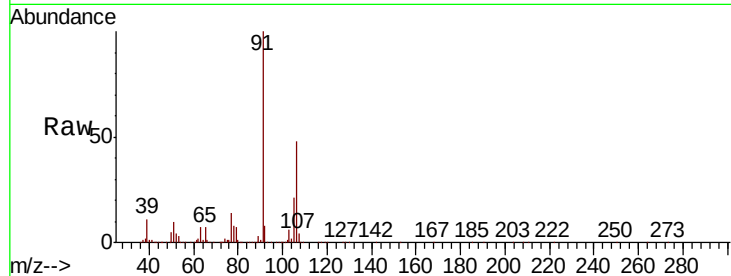
#59
m/p-Xylene
Concen: 19.622 ppbv m
RT: 13.13 min Scan# 3171
Delta R.T. -0.00 min
Lab File: VL032903.D
Acq: 5 Dec 2018 9:07

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 91 Resp: 8158476
Ion Ratio Lower Upper
91 100
106 47.1 36.1 54.1

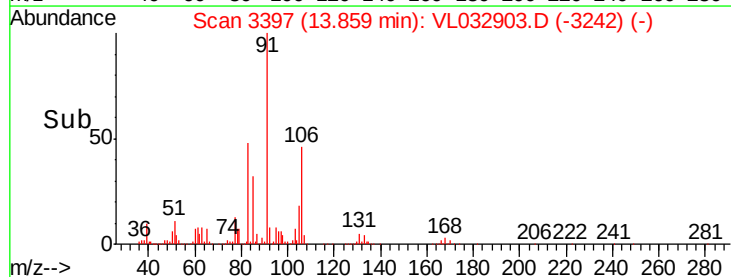
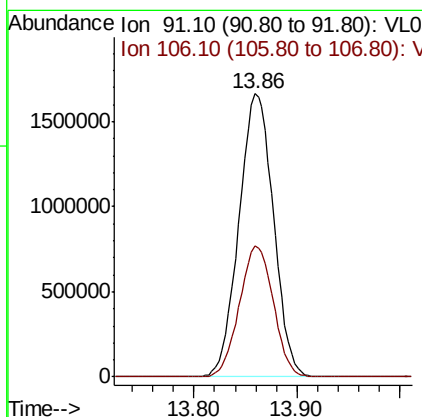
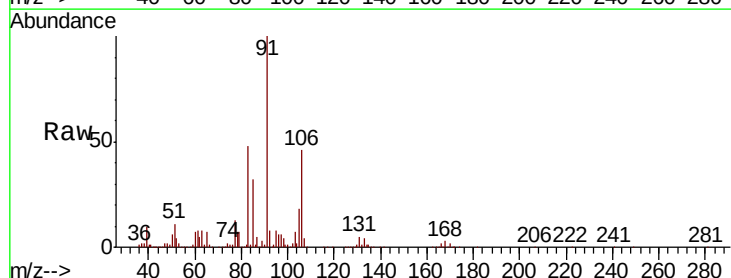
Manual Integrations
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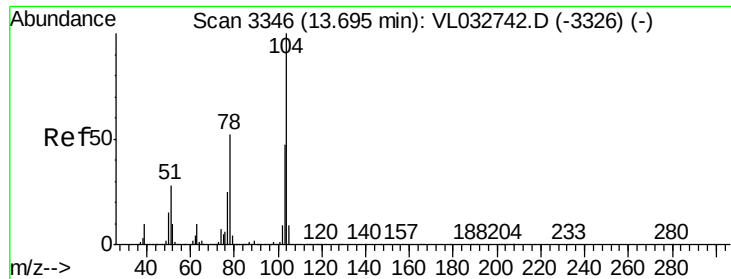
MMDadoda
12/10/2018 1:02:17 PM



#60
o-Xylene
Concen: 9.243 ppbv
RT: 13.86 min Scan# 3397
Delta R.T. -0.00 min
Lab File: VL032903.D
Acq: 5 Dec 2018 9:07

Tgt Ion: 91 Resp: 3864203
Ion Ratio Lower Upper
91 100
106 45.6 21.9 65.7





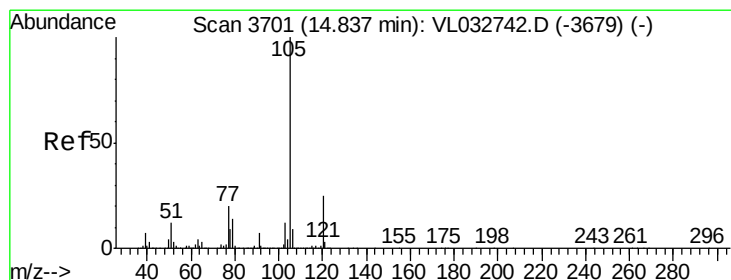
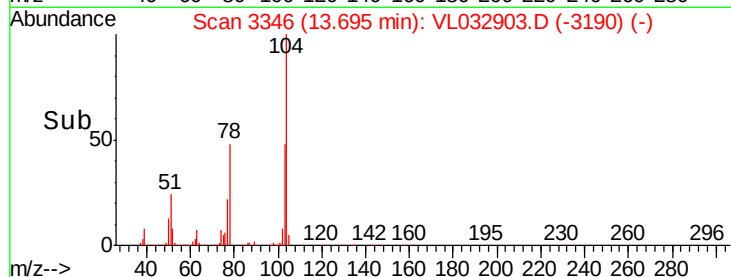
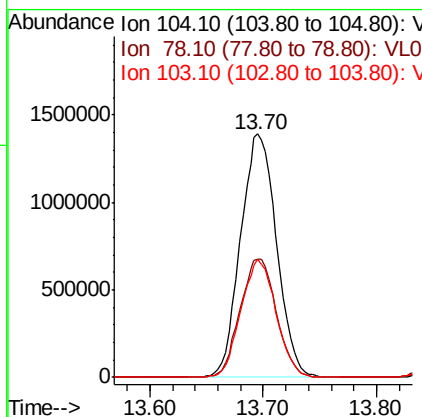
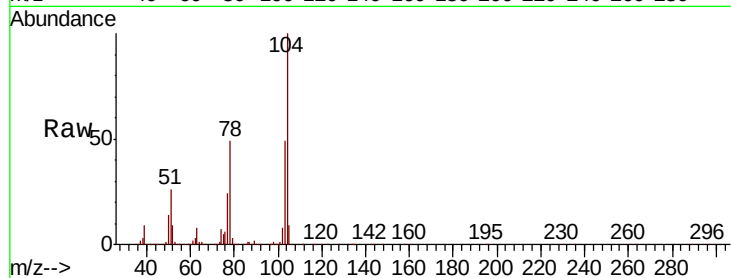
#61
Stvrene
Concen: 11.328 ppbv
RT: 13.70 min Scan# 3346
Delta R.T. 0.00 min
Lab File: VL032903.D
Acq: 5 Dec 2018 9:07

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
104	100		
78	49.2	42.2	63.4
103	47.4	38.2	57.2

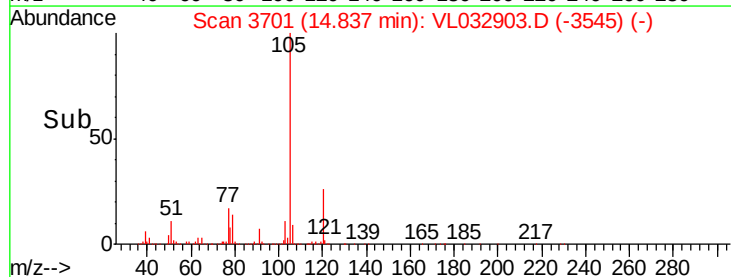
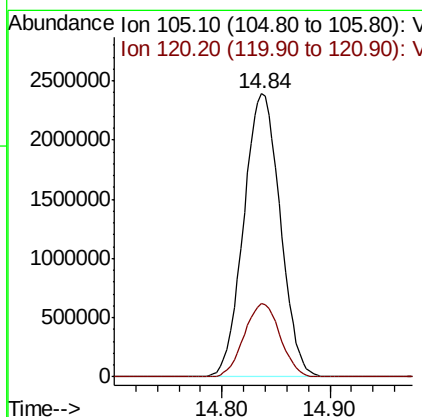
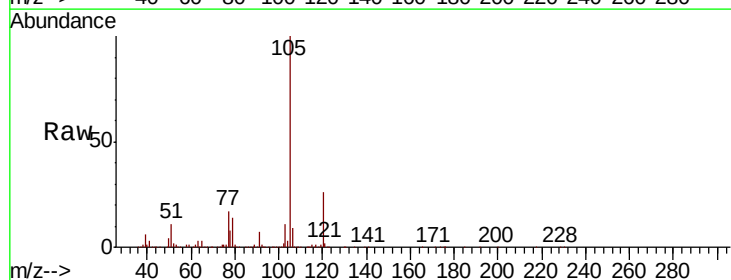
Manual Integrations
APPROVED

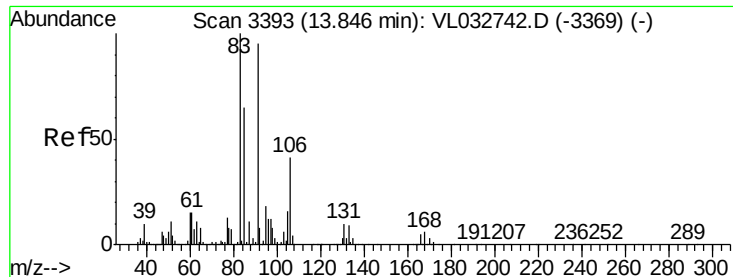
MMDadoda
12/10/2018 1:02:17 PM



#62
Isopropylbenzene
Concen: 9.955 ppbv
RT: 14.84 min Scan# 3701
Delta R.T. 0.00 min
Lab File: VL032903.D
Acq: 5 Dec 2018 9:07

Tgt Ion	Ratio	Lower	Upper
105	100		
120	25.6	20.1	30.1





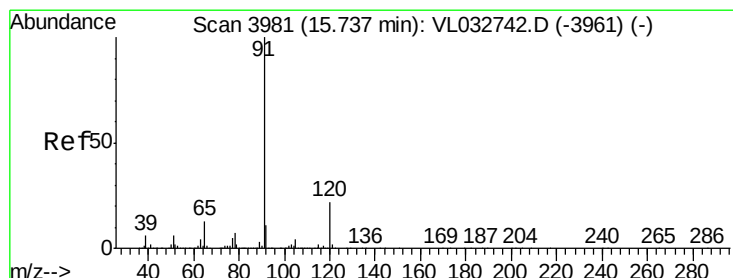
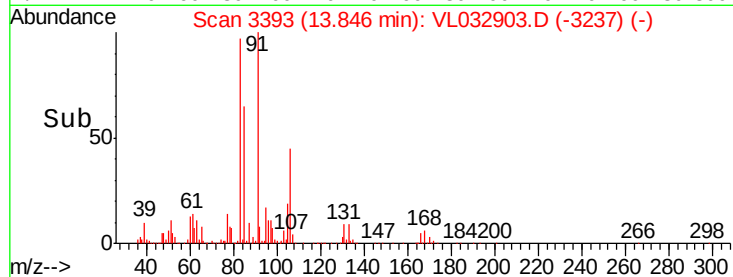
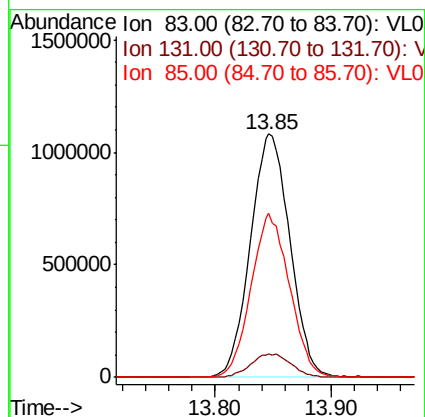
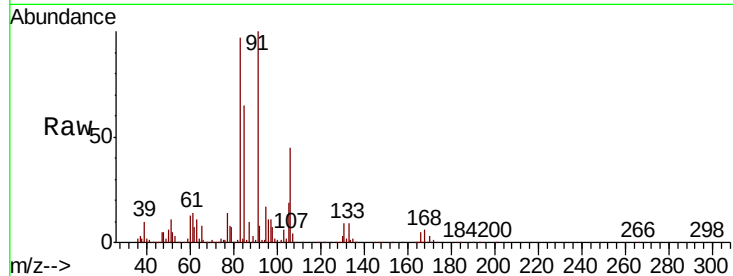
#63
 1,1,2,2-Tetrachloroethane
 Concen: 7.874 ppbv
 RT: 13.85 min Scan# 3393
 Delta R.T. 0.00 min
 Lab File: VL032903.D
 Acq: 5 Dec 2018 9:07

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	83	Resp	2566112
Ion Ratio	100	Lower	Upper
83	100		
131	9.9	4.7	14.1
85	65.6	32.5	97.4

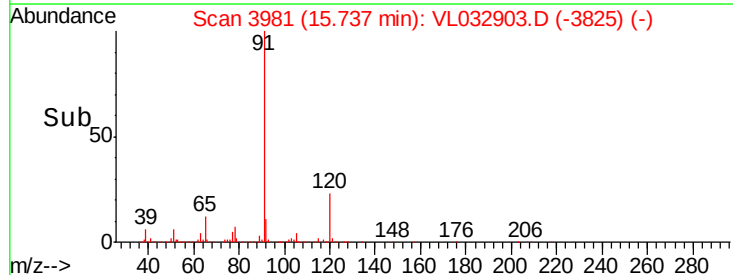
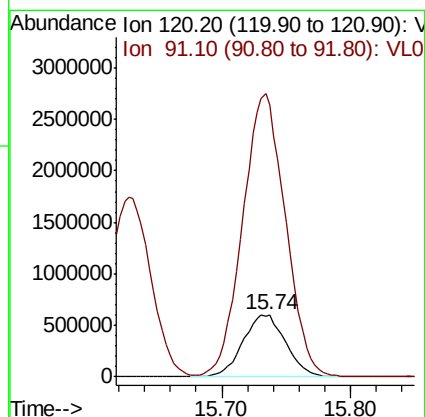
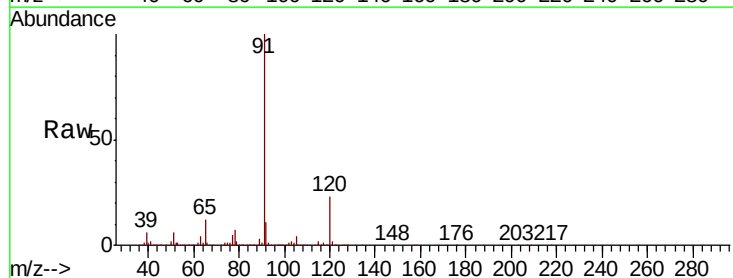
Manual Integrations
 APPROVED

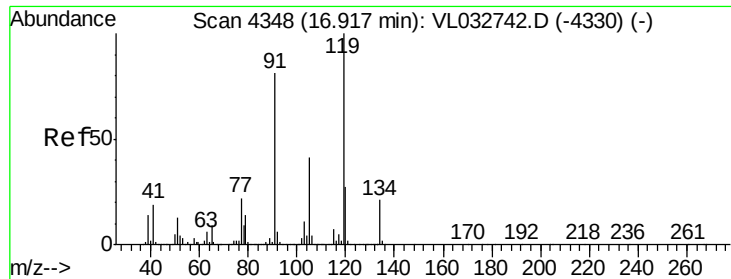
MMDadoda
 12/10/2018 1:02:17 PM



#64
 n-propylbenzene
 Concen: 9.316 ppbv
 RT: 15.74 min Scan# 3981
 Delta R.T. 0.00 min
 Lab File: VL032903.D
 Acq: 5 Dec 2018 9:07

Tgt Ion	120	Resp	1384605
Ion Ratio	100	Lower	Upper
120	100		
91	459.1	381.7	572.5





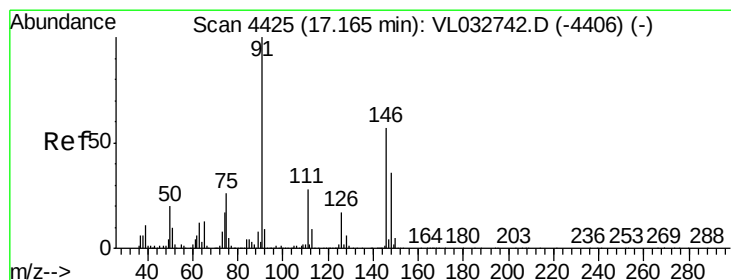
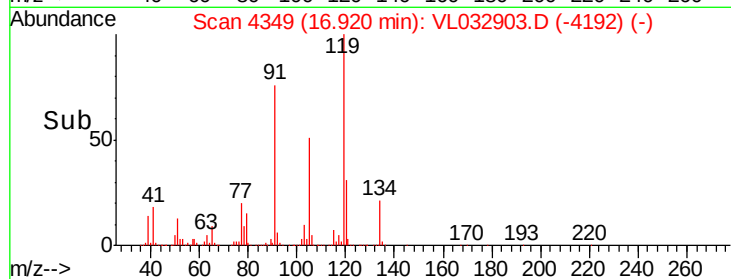
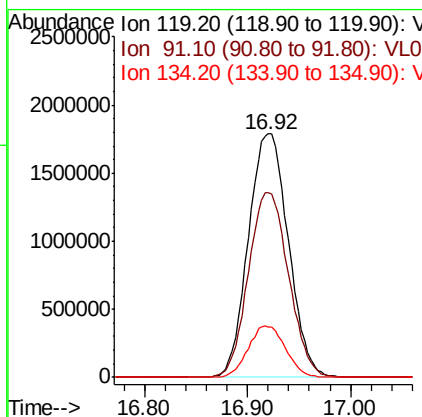
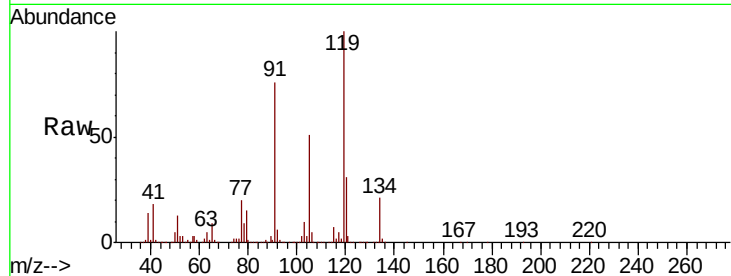
#65
tert-Butylbenzene
Concen: 9.487 ppbv
RT: 16.92 min Scan# 4349
Delta R.T. 0.00 min
Lab File: VL032903.D
Acq: 5 Dec 2018 9:07

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
119	100		
91	76.6	65.6	98.4
134	19.8	15.9	23.9

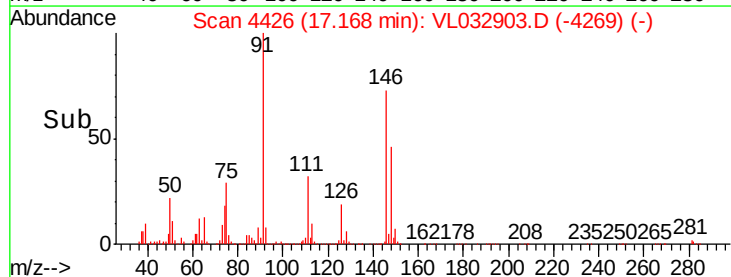
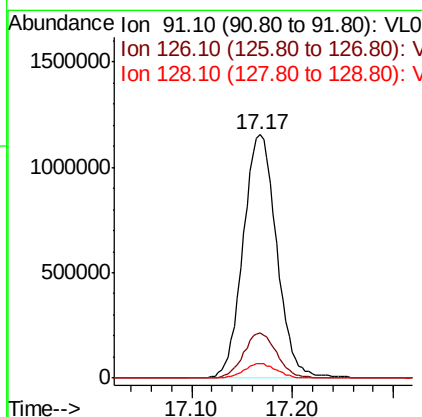
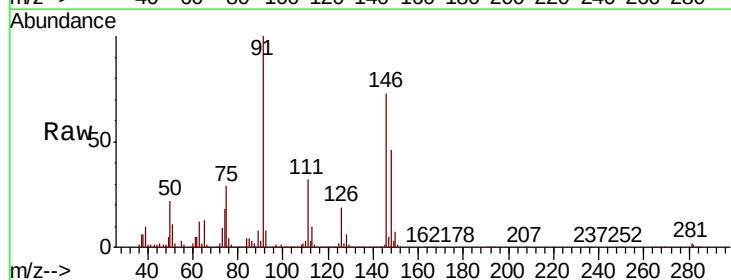
Manual Integrations
APPROVED

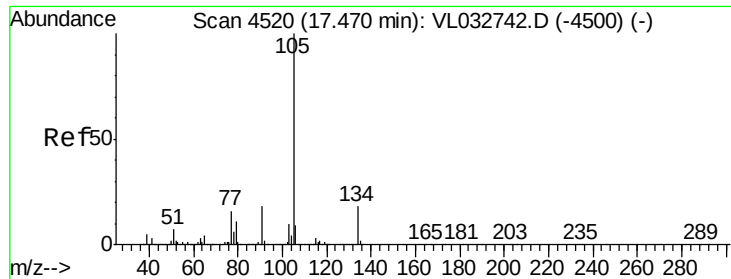
MMDadoda
12/10/2018 1:02:17 PM



#66
Benzyl Chloride
Concen: 9.466 ppbv
RT: 17.17 min Scan# 4426
Delta R.T. 0.00 min
Lab File: VL032903.D
Acq: 5 Dec 2018 9:07

Tgt Ion	Ratio	Lower	Upper
91	100		
126	18.5	14.2	21.2
128	5.9	4.5	6.7





#67

sec-Butylbenzene

Concen: 8.812 ppbv

RT: 17.47 min Scan# 4520

Delta R.T. 0.00 min

Lab File: VL032903.D

Acq: 5 Dec 2018 9:07

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 105 Resp: 6433373

Ion Ratio Lower Upper

105 100

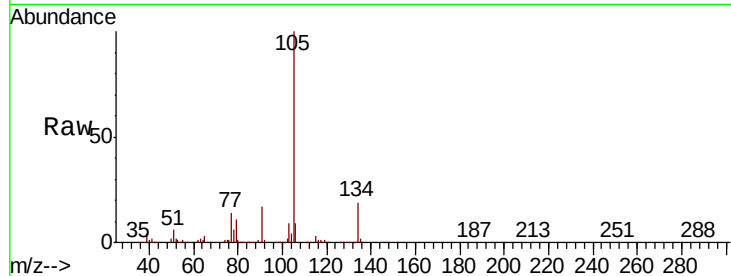
134 18.4 14.6 21.8

Manual Integrations

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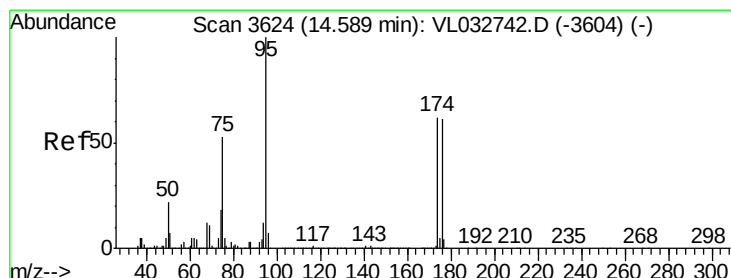
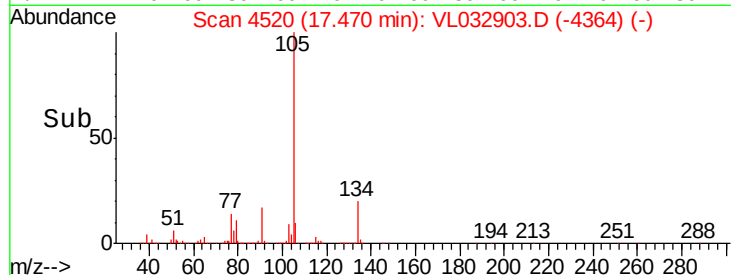
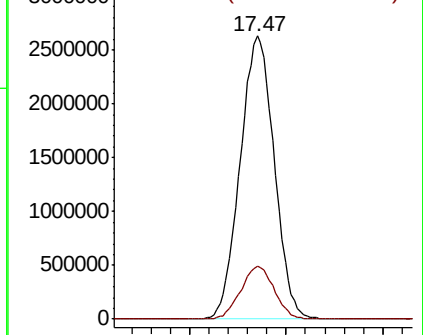
MMDadoda

12/10/2018 1:02:17 PM



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: 9.200 ppbv

RT: 14.59 min Scan# 3624

Delta R.T. 0.00 min

Lab File: VL032903.D

Acq: 5 Dec 2018 9:07

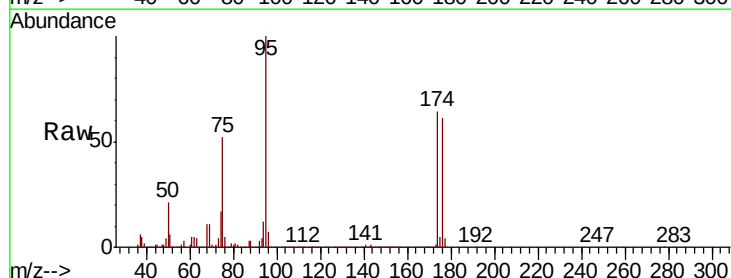
Tgt Ion: 95 Resp: 2670375

Ion Ratio Lower Upper

95 100

174 65.9 50.7 76.1

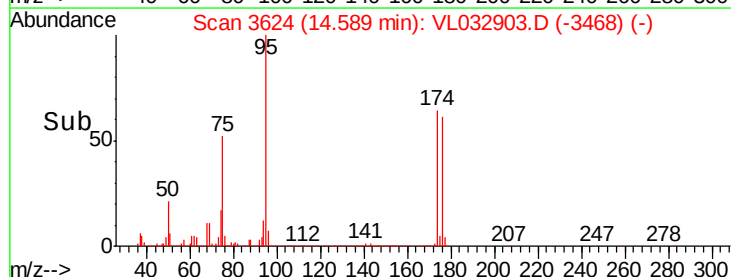
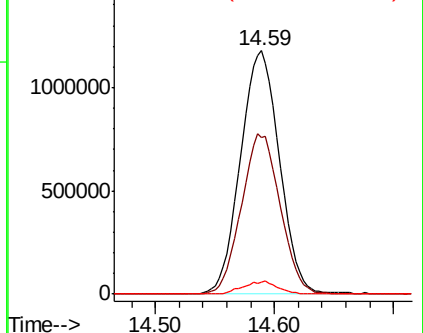
175 4.9 3.8 5.6

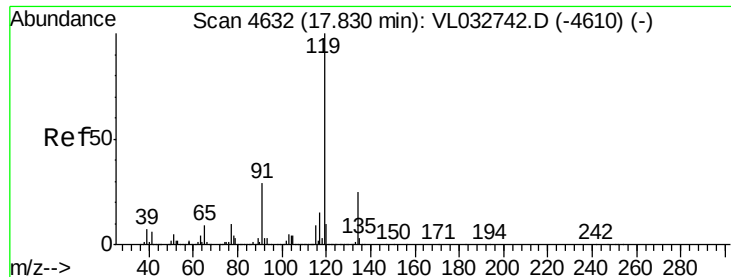


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





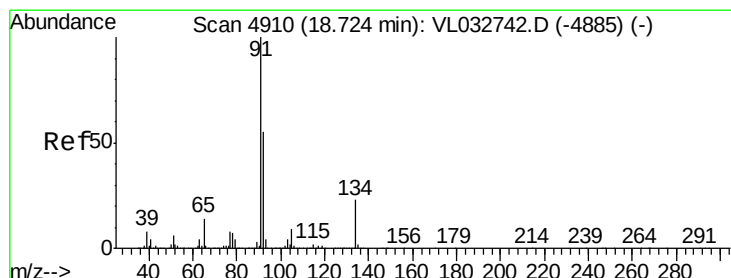
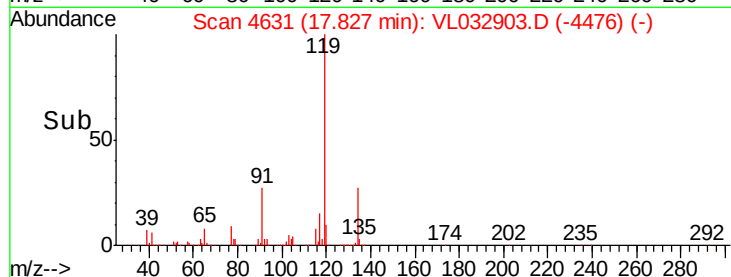
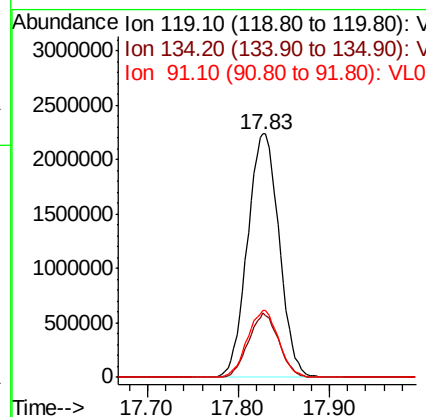
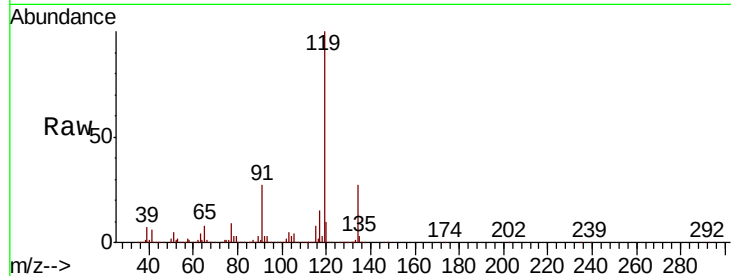
#69
 p-Isopropyltoluene
 Concen: 9.288 ppbv
 RT: 17.83 min Scan# 4631
 Delta R.T. -0.00 min
 Lab File: VL032903.D
 Acq: 5 Dec 2018 9:07

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion: 119 Resp: 5391474
 Ion Ratio Lower Upper
 119 100
 134 25.3 20.2 30.4
 91 27.2 23.5 35.3

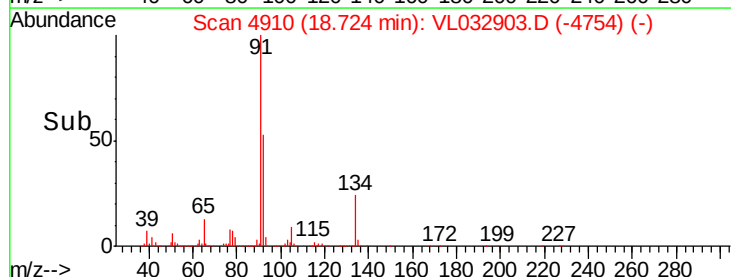
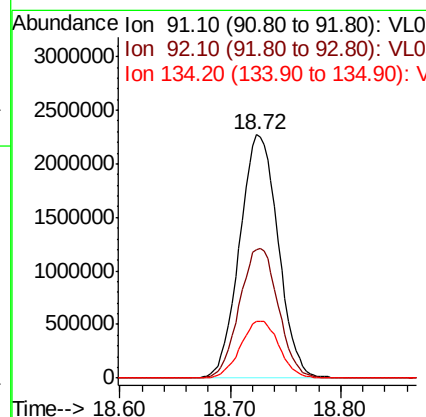
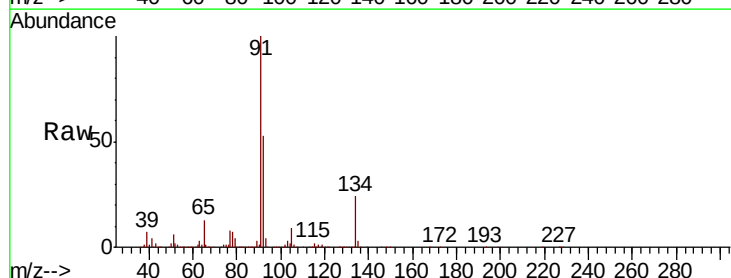
Manual Integrations
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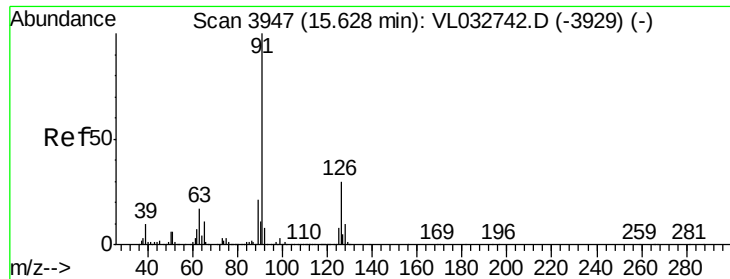
MMDadoda
 12/10/2018 1:02:17 PM



#70
 n-Butylbenzene
 Concen: 9.287 ppbv
 RT: 18.72 min Scan# 4910
 Delta R.T. 0.00 min
 Lab File: VL032903.D
 Acq: 5 Dec 2018 9:07

Tgt Ion: 91 Resp: 5473807
 Ion Ratio Lower Upper
 91 100
 92 53.8 42.9 64.3
 134 23.5 17.8 26.8





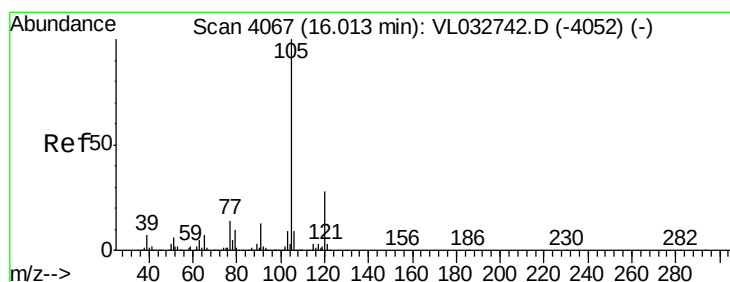
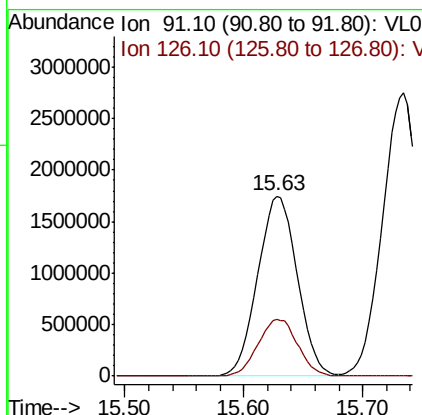
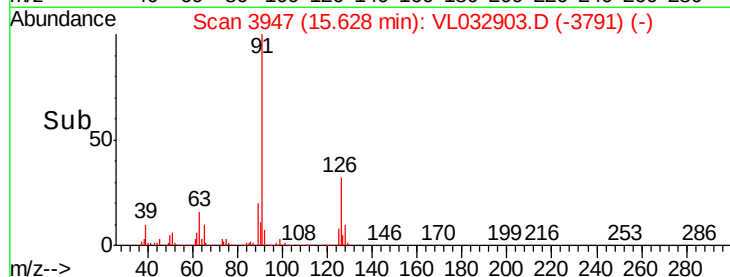
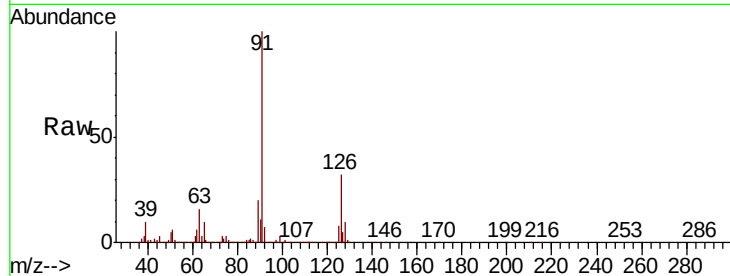
#71
2-Chlorotoluene
Concen: 9.537 ppbv
RT: 15.63 min Scan# 3947
Delta R.T. 0.00 min
Lab File: VL032903.D
Acq: 5 Dec 2018 9:07

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 91 Resp: 4019001
Ion Ratio Lower Upper
91 100
126 31.7 12.1 48.5

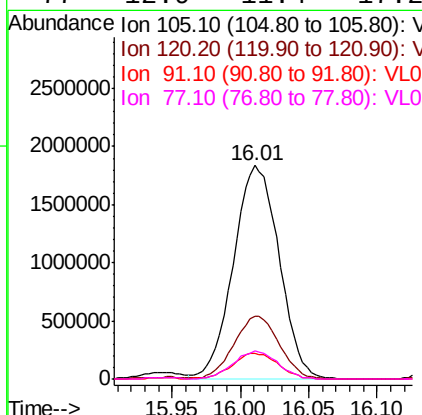
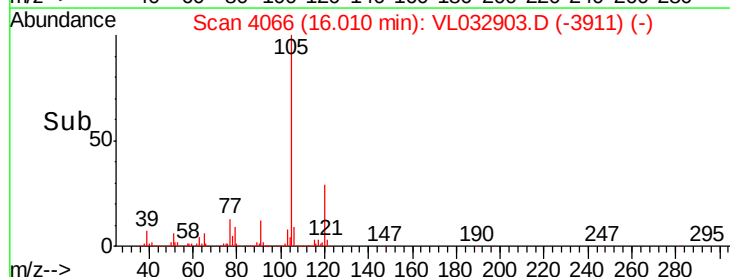
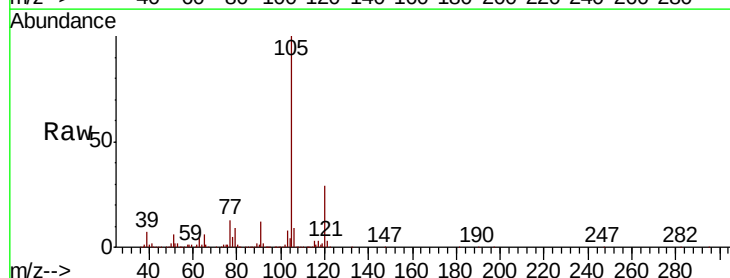
Manual Integrations
APPROVED

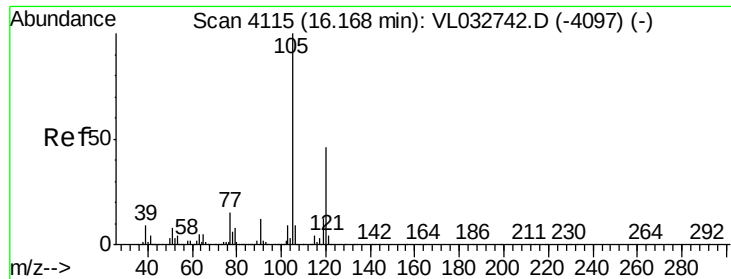
MMDadoda
12/10/2018 1:02:17 PM



#72
4-Ethyltoluene
Concen: 9.301 ppbv
RT: 16.01 min Scan# 4066
Delta R.T. -0.00 min
Lab File: VL032903.D
Acq: 5 Dec 2018 9:07

Tgt Ion: 105 Resp: 4262238
Ion Ratio Lower Upper
105 100
120 29.3 22.9 34.3
91 12.8 10.6 15.8
77 12.9 11.4 17.2





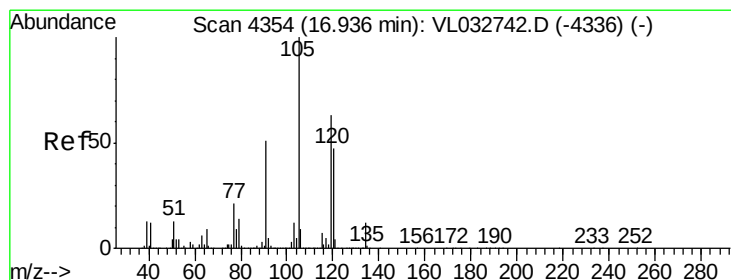
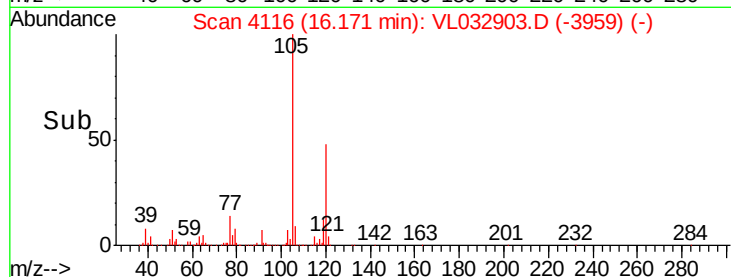
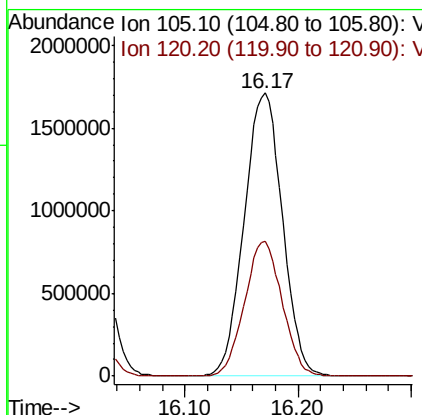
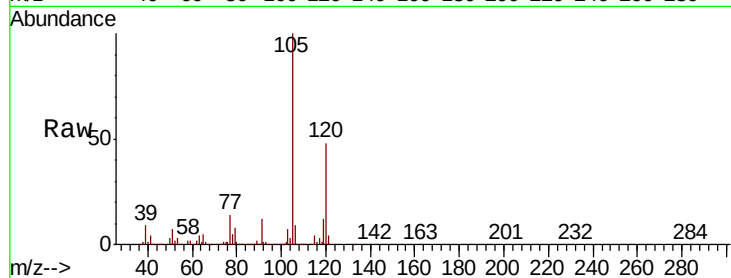
#73
 1,3,5-Trimethylbenzene
 Concen: 8.975 ppbv
 RT: 16.17 min Scan# 4116
 Delta R.T. 0.00 min
 Lab File: VL032903.D
 Acq: 5 Dec 2018 9:07

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion:105 Resp: 4020871
 Ion Ratio Lower Upper
 105 100
 120 47.7 36.6 55.0

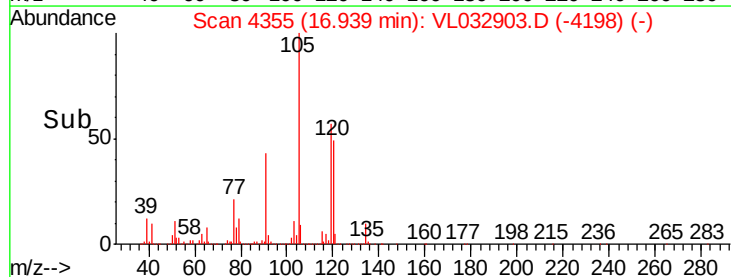
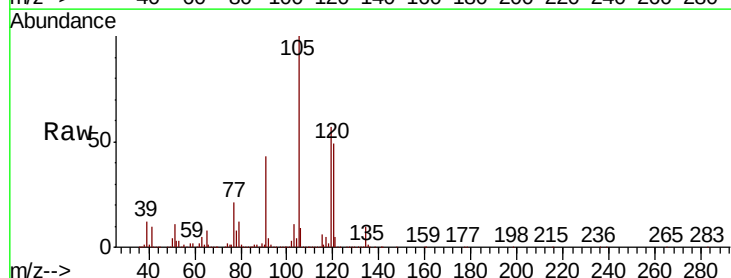
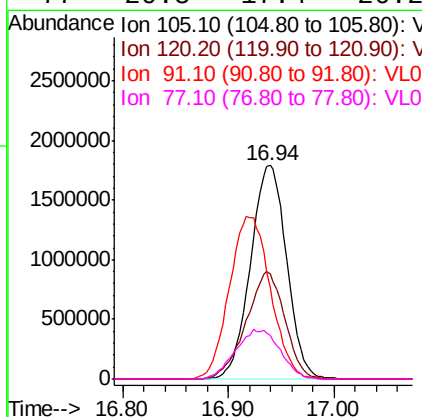
Manual Integrations
 APPROVED

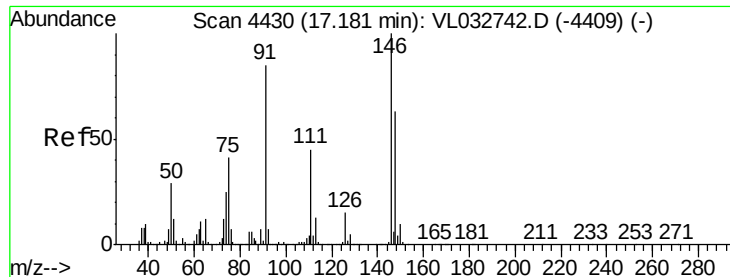
MMDadoda
 12/10/2018 1:02:17 PM



#74
 1,2,4-Trimethylbenzene
 Concen: 8.904 ppbv
 RT: 16.94 min Scan# 4355
 Delta R.T. 0.00 min
 Lab File: VL032903.D
 Acq: 5 Dec 2018 9:07

Tgt Ion:105 Resp: 4268682
 Ion Ratio Lower Upper
 105 100
 120 48.9 37.6 56.4
 91 42.7 42.5 63.7
 77 20.5 17.4 26.2





#75

1,3-Dichlorobenzene

Concen: 8.717 ppbv

RT: 17.18 min Scan# 4429

Delta R.T. -0.00 min

Lab File: VL032903.D

Acq: 5 Dec 2018 9:07

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:146 Resp: 2397268

Ion Ratio Lower Upper

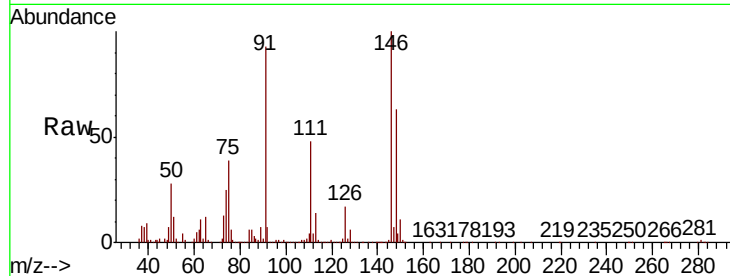
146 100

111 45.2 23.5 70.6

148 63.7 31.8 95.3

Manual Integrations
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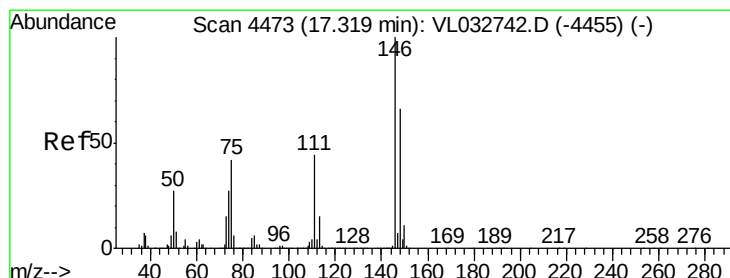
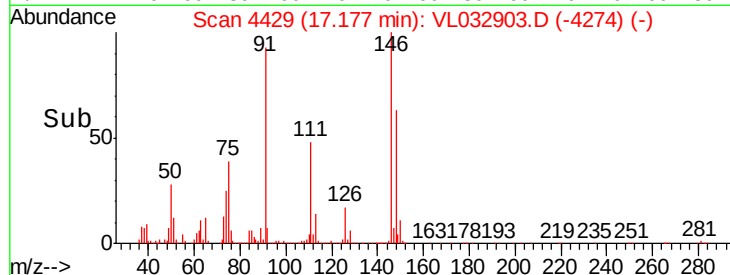
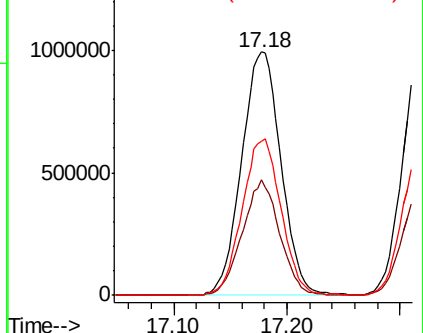
MMDadoda
12/10/2018 1:02:17 PM



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: 9.270 ppbv

RT: 17.32 min Scan# 4473

Delta R.T. 0.00 min

Lab File: VL032903.D

Acq: 5 Dec 2018 9:07

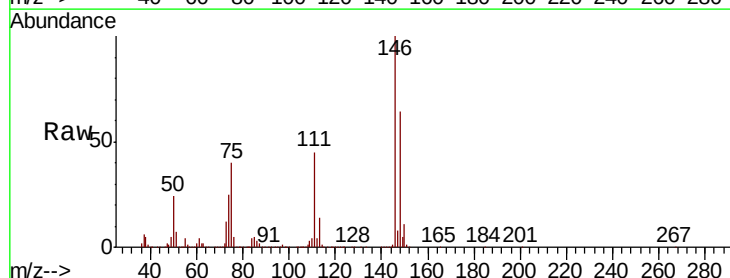
Tgt Ion:146 Resp: 2381344

Ion Ratio Lower Upper

146 100

111 44.6 22.5 67.5

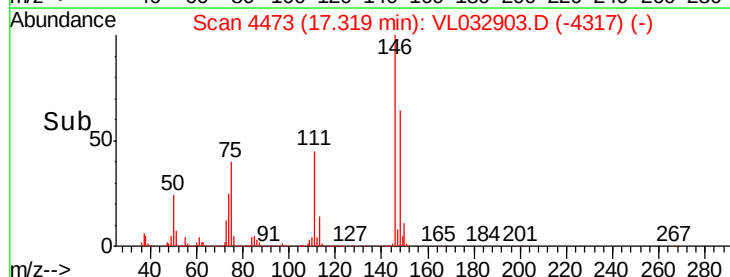
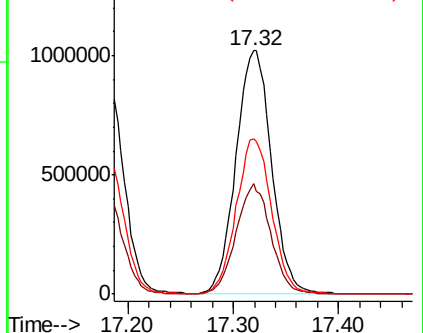
148 63.7 32.5 97.5

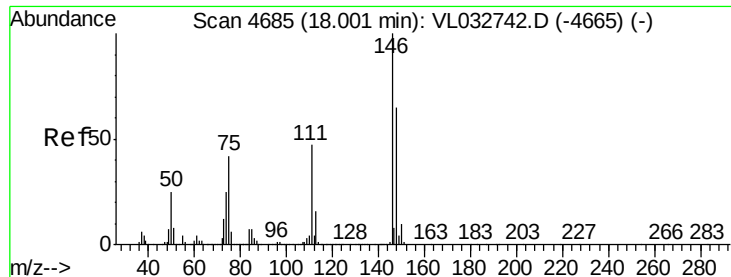


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V





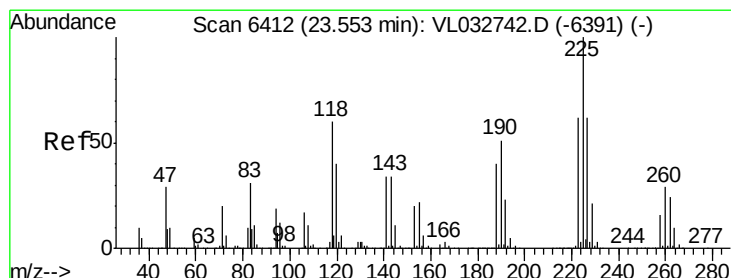
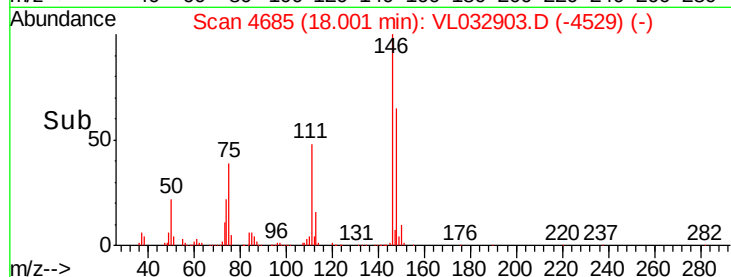
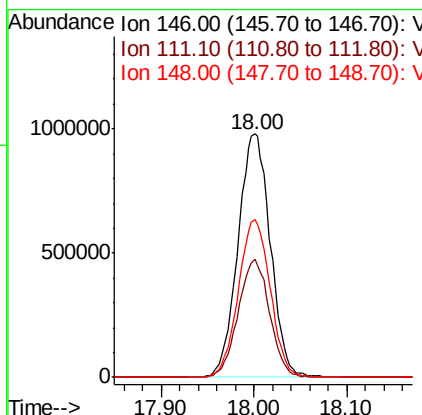
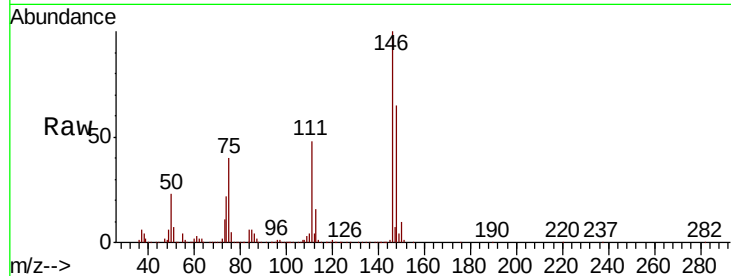
#77
 1,2-Dichlorobenzene
 Concen: 9.315 ppbv
 RT: 18.00 min Scan# 4685
 Delta R.T. 0.00 min
 Lab File: VL032903.D
 Acq: 5 Dec 2018 9:07

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
146	100		
111	47.1	24.4	73.2
148	64.2	32.2	96.6

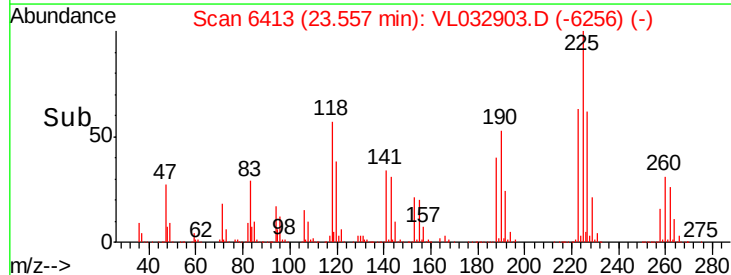
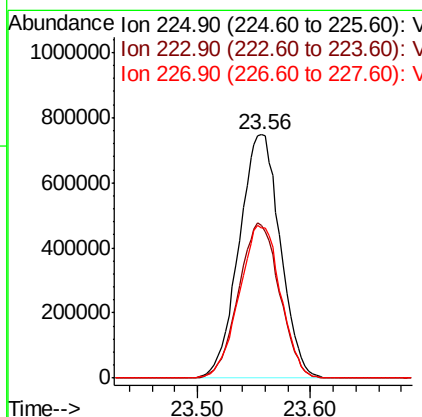
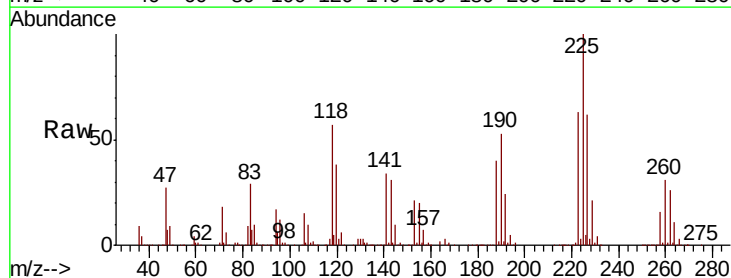
Manual Integrations
 APPROVED

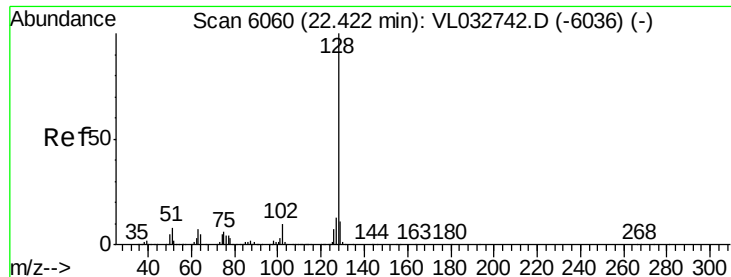
MMDadoda
 12/10/2018 1:02:17 PM



#78
 Hexachloro-1,3-Butadiene
 Concen: 13.762 ppbv
 RT: 23.56 min Scan# 6413
 Delta R.T. 0.00 min
 Lab File: VL032903.D
 Acq: 5 Dec 2018 9:07

Tgt Ion	Ratio	Lower	Upper
225	100		
223	63.5	50.3	75.5
227	63.1	50.2	75.4





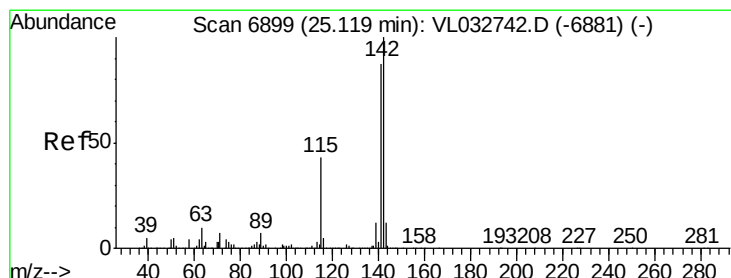
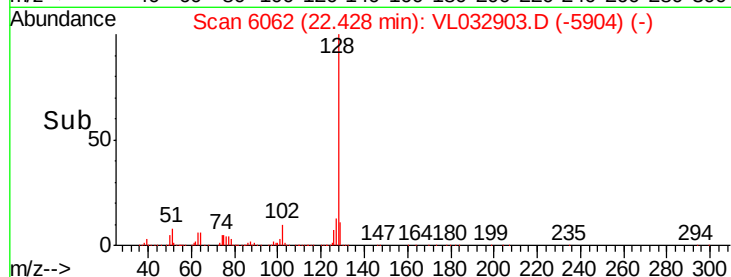
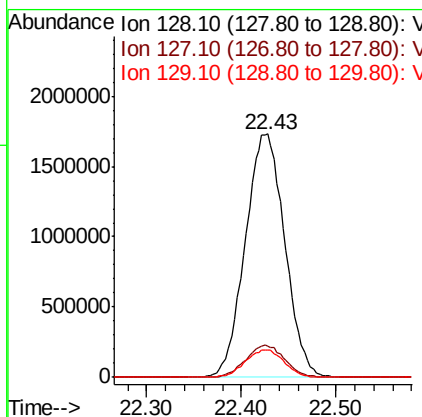
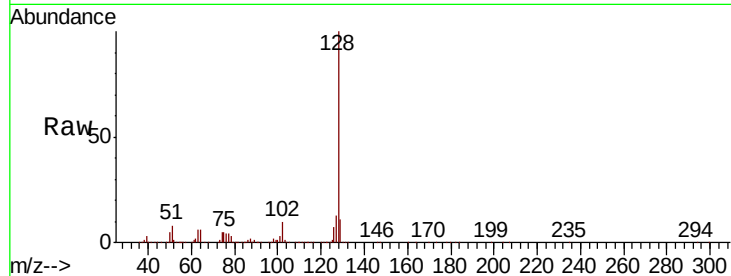
#79
Naphthalene
Concen: 15.926 ppbv
RT: 22.43 min Scan# 6062
Delta R.T. 0.01 min
Lab File: VL032903.D
Acq: 5 Dec 2018 9:07

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.1	15.1
129	11.4	8.9	13.3

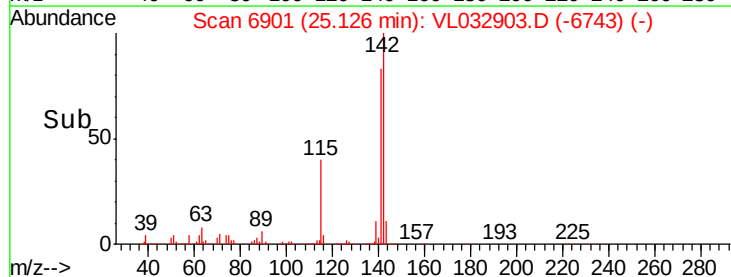
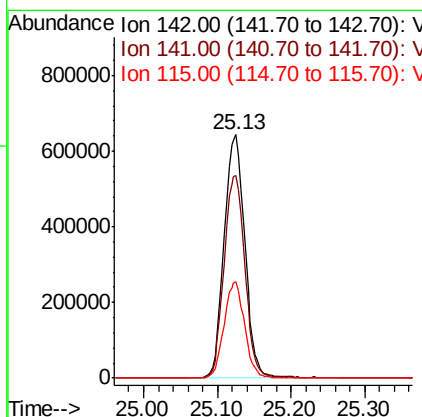
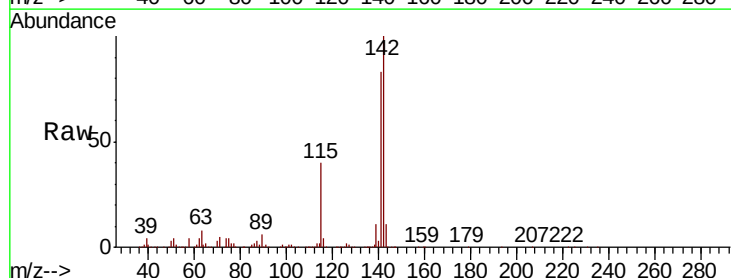
Manual Integrations
APPROVED

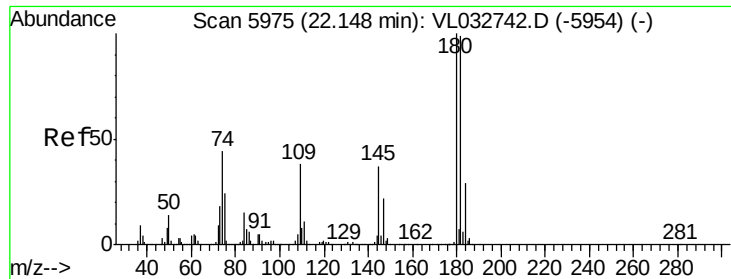
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#80
Naphthalene, 2-methyl-
Concen: 15.995 ppbv
RT: 25.13 min Scan# 6901
Delta R.T. 0.01 min
Lab File: VL032903.D
Acq: 5 Dec 2018 9:07

Tgt Ion	Ratio	Lower	Upper
142	100		
141	83.7	68.7	103.1
115	39.1	35.5	53.3





#81
 1,2,4-Trichlorobenzene
 Concen: 14.568 ppbv
 RT: 22.15 min Scan# 5975
 Delta R.T. 0.00 min
 Lab File: VL032903.D
 Acq: 5 Dec 2018 9:07

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.5	77.3	115.9
184	30.2	24.2	36.4

Manual Integrations
 APPROVED

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