

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL101118\
 Data File : VL032601.D
 Acq On : 11 Oct 2018 12:41
 Operator : SY/AP
 Sample : VL1011ABS01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1011ABS01

Manual Integrations
 APPROVED

MMDadoda
 10/12/2018 2:07:27 PM

Quant Time: Oct 12 02:03:28 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL092418AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Oct 0
 QLast Update : Mon Oct 01 06:49:26 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.79	49	1490415	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.32	114	3496730	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.27	117	3692420m	10.00	ppbv	-0.02

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.61	95	2781997	9.99	ppbv	-0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.90%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.09	85	1214181	8.808	ppbv	99
3) Chlorodifluoromethane	3.03	51	1071863	8.648	ppbv	96
4) Chloromethane	3.19	50	603507	8.351	ppbv	96
5) Vinyl Chloride	3.31	62	606464	8.305	ppbv	100
6) Bromomethane	3.53	94	381516	9.553	ppbv	97
7) Chloroethane	3.62	64	240875	9.257	ppbv	95
8) Dichlorotetrafluoroethane	3.24	85	1419111	9.422	ppbv	97
9) Propene	3.05	41	429062	7.979	ppbv	99
10) Heptane	8.28	43	1845866	9.358	ppbv	95
11) Trichlorofluoromethane	4.02	101	1614142	9.850	ppbv	96
12) 1,1,2-Trichlorotrifluoroet	4.57	101	1300575	9.709	ppbv	99
13) Ethanol	3.67	45	139725	8.644	ppbv	96
14) Bromoethene	3.80	108	476480	10.024	ppbv	100
15) Acetone	3.92	43	1134096	8.669	ppbv	99
16) 1,3-Butadiene	3.38	39	514612	9.700	ppbv	96
17) tert-Butyl alcohol	4.38	59	153380	9.330	ppbv #	100
18) 1,1-Dichloroethene	4.37	96	663278	10.573	ppbv	97
19) Isopropyl Alcohol	4.04	45	886333	9.726	ppbv	99
20) Methylene Chloride	4.43	84	614113	9.694	ppbv	98
21) Allyl Chloride	4.50	41	1136702	10.631	ppbv	98
22) trans-1,2-Dichloroethene	4.99	96	663909	11.229	ppbv	97
23) Vinyl Acetate	5.17	43	1961239	8.484	ppbv	98
24) 1,1-Dichloroethane	5.12	63	1791726	9.307	ppbv	99
25) Ethyl Acetate	5.79	43	2854019	8.991	ppbv	100
26) Hexane	5.81	57	1333459	9.300	ppbv	100
27) Carbon Disulfide	4.64	76	1549260	10.050	ppbv	99
28) Methyl tert-Butyl Ether	5.14	73	1799422	10.074	ppbv	97
29) Chloroform	5.88	83	2157163	9.805	ppbv	97
30) Cyclohexane	7.27	84	1184242	10.143	ppbv	95
31) cis-1,2-Dichloroethene	5.67	61	1310162	9.594	ppbv	97
32) 1,1,1-Trichloroethane	6.65	97	2181963	9.306	ppbv	99
34) 2-Butanone	5.35	43	1616759	7.764	ppbv	97
35) Carbon Tetrachloride	7.16	117	2248863	9.255	ppbv	97
36) Benzene	7.03	78	2865951	10.142	ppbv	99
37) 1,2-Dichloroethane	6.44	62	1722642	10.115	ppbv	98
38) Trichloroethene	7.99	130	1091938	10.095	ppbv	98
39) 1,2-Dichloropropane	7.77	63	1150619	9.035	ppbv	97
40) 1,4-Dioxane	7.99	88	425999	10.910	ppbv	62
41) Tetrahydrofuran	6.17	42	1091404	9.647	ppbv	93
42) Bromodichloromethane	7.95	83	2496849	9.786	ppbv	100
43) Methyl Methacrylate	8.17	69	1205545	10.212	ppbv	96

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Quant Time: Oct 12 02:03:28 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL092418AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Oct 08 2018
 QLast Update : Mon Oct 01 06:49:26 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.02	57	5072707	9.185	ppbv	99
45) t-1,3-Dichloropropene	9.45	75	1509171	10.277	ppbv	99
46) cis-1,3-Dichloropropene	8.87	75	1806062	10.486	ppbv	99
47) 1,1,2-Trichloroethane	9.65	97	1316933	9.311	ppbv	99
48) Dibromochloromethane	10.49	129	2241674	10.079	ppbv	100
49) Bromoform	13.24	173	1766291	10.394	ppbv	100
50) 4-Methyl-2-Pentanone	8.90	43	2978471	9.100	ppbv	99
51) 2-Hexanone	10.30	43	2602142	9.613	ppbv	99
52) Tetrachloroethene	11.41	164	988321	10.045	ppbv	98
53) Toluene	9.98	91	3628397	10.536	ppbv	100
54) 1,2-Dibromoethane	10.79	107	2011109	9.997	ppbv	97
56) 1,1,1,2-Tetrachloroethane	12.31	131	1611109	9.707	ppbv #	59
57) Chlorobenzene	12.34	112	2731680	9.184	ppbv	100
58) Ethyl Benzene	12.90	91	4536396	10.128	ppbv	98
59) m/p-Xylene	13.16	91	7516563m	18.862	ppbv	
60) o-Xylene	13.88	91	3741266	9.643	ppbv	100
61) Styrene	13.72	104	2681934	10.567	ppbv	99
62) Isopropylbenzene	14.86	105	5274989	9.614	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.87	83	2855044	8.283	ppbv	99
64) n-propylbenzene	15.76	120	1376237	9.763	ppbv	97
65) tert-Butylbenzene	16.95	119	4488873	9.545	ppbv	98
66) Benzyl Chloride	17.19	91	2728795	10.067	ppbv	100
67) sec-Butylbenzene	17.49	105	6605953	9.448	ppbv	100
69) p-Isopropyltoluene	17.85	119	5279291	9.776	ppbv	100
70) n-Butylbenzene	18.75	91	5788893	9.813	ppbv	99
71) 2-Chlorotoluene	15.65	91	4176827	9.995	ppbv	100
72) 4-Ethyltoluene	16.04	105	4336114	10.297	ppbv	100
73) 1,3,5-Trimethylbenzene	16.19	105	4127490	10.085	ppbv	97
74) 1,2,4-Trimethylbenzene	16.96	105	4221061	9.579	ppbv	99
75) 1,3-Dichlorobenzene	17.20	146	2375454	8.736	ppbv	99
76) 1,4-Dichlorobenzene	17.34	146	2308415	9.272	ppbv	99
77) 1,2-Dichlorobenzene	18.02	146	2330892	9.115	ppbv	100
78) Hexachloro-1,3-Butadiene	23.57	225	821940	8.564	ppbv	99
79) Naphthalene	22.45	128	3734969	11.752	ppbv	100
80) Naphthalene, 2-methyl-	25.14	142	1071212	14.356	ppbv	98
81) 1,2,4-Trichlorobenzene	22.17	180	1753294	10.763	ppbv	99

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

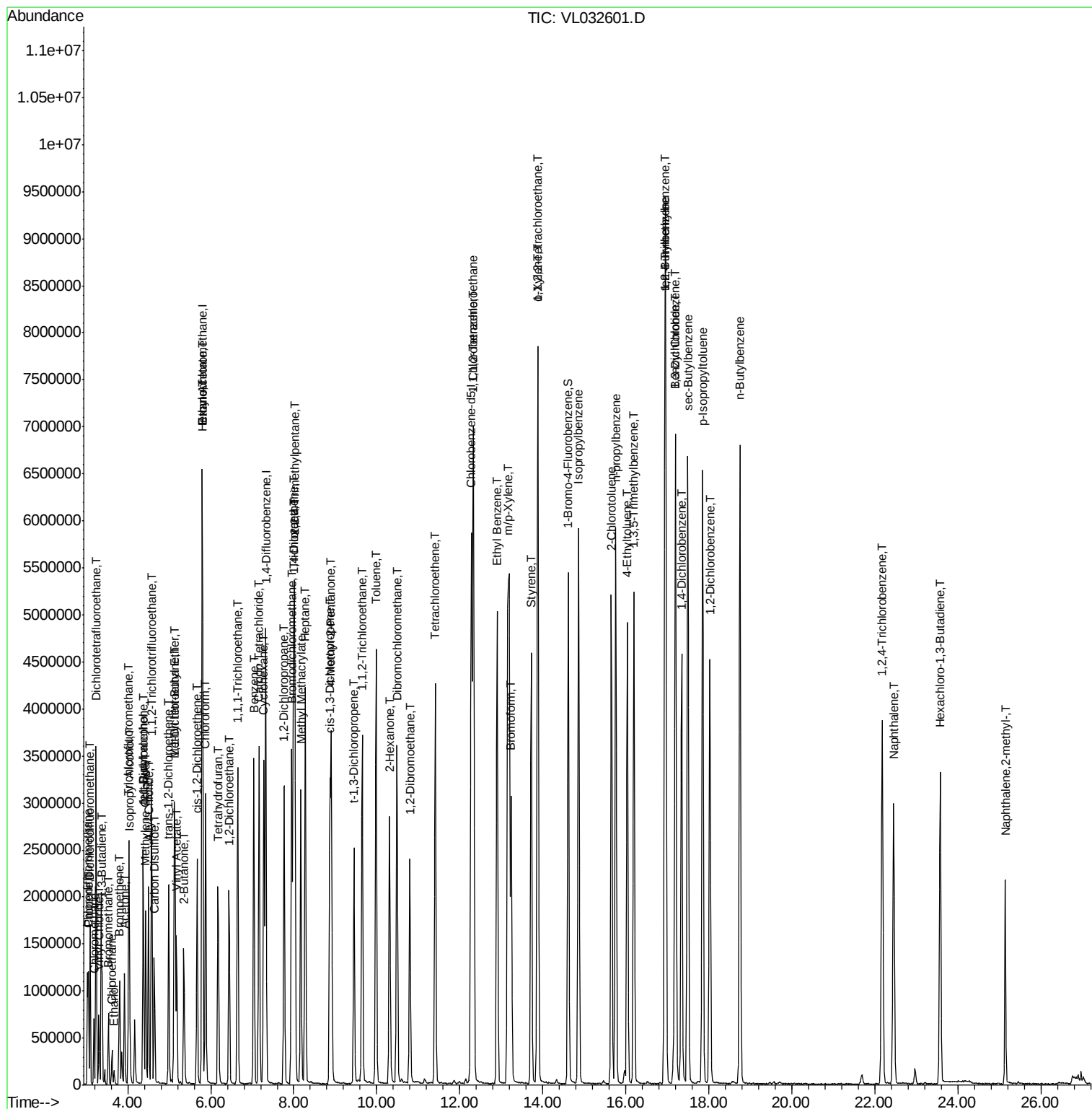
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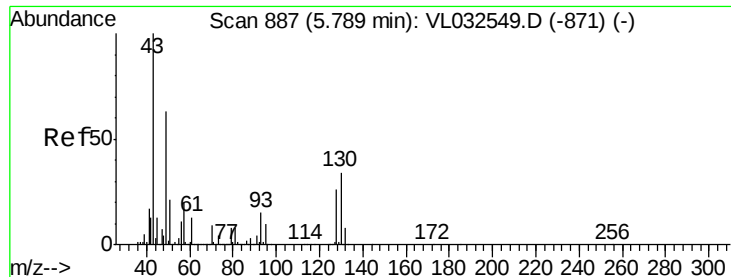
Instrument :
MSVOA_L
ClientSampleId :
VL1011ABS01

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QLast Update : Mon Oct 01 06:49:26 2018
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#1

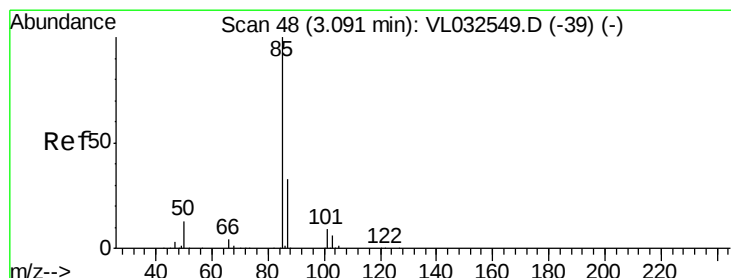
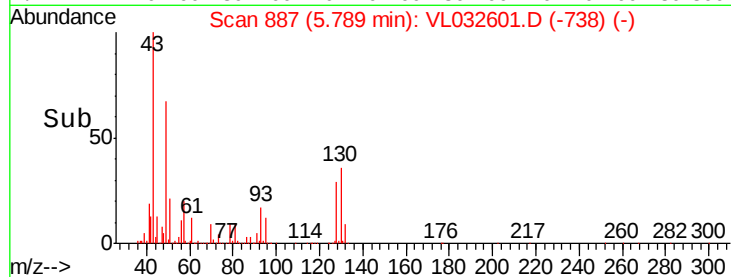
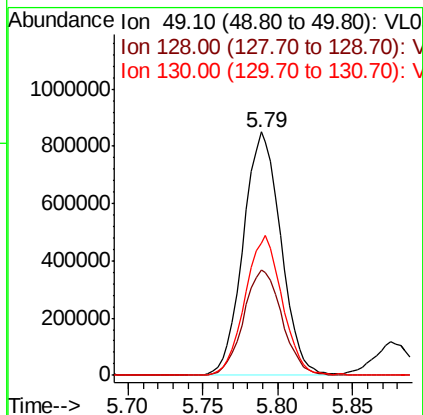
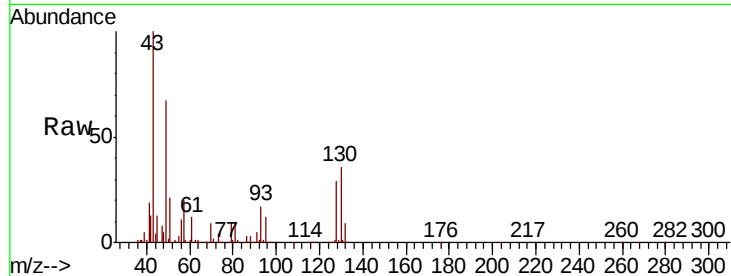
Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.79 min Scan# 887
 Delta R.T. -0.02 min
 Lab File: VL032601.D
 Acq: 11 Oct 2018 12:41

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1011ABS01

Tot Ion: 49 Resp: 1490415
 Ion Ratio Lower Upper
 49 100
 128 44.3 20.7 62.1
 130 56.9 26.6 79.7

Manual Integrations
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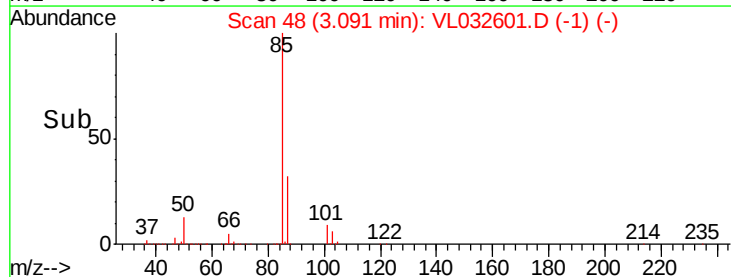
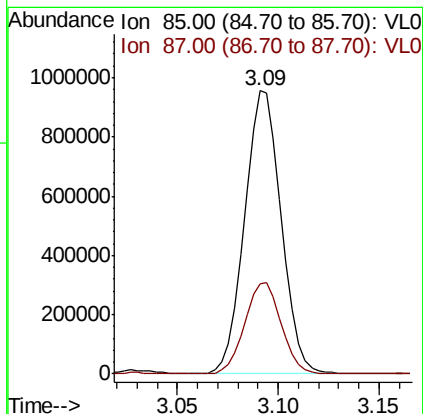
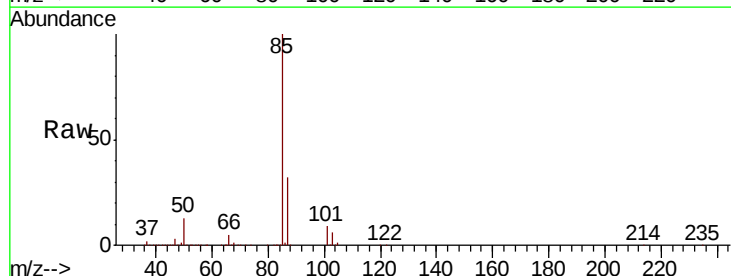
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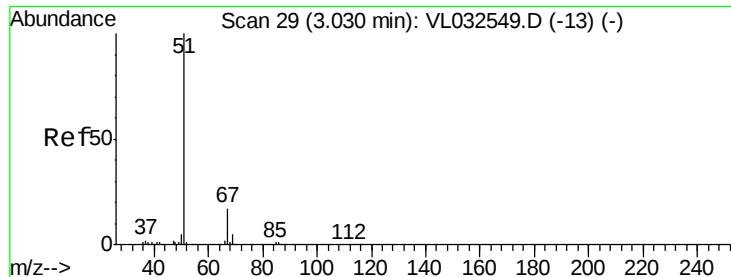


#2

Dichlorodifluoromethane
 Concen: 8.808 ppbv
 RT: 3.09 min Scan# 48
 Delta R.T. -0.02 min
 Lab File: VL032601.D
 Acq: 11 Oct 2018 12:41

Tgt Ion: 85 Resp: 1214181
 Ion Ratio Lower Upper
 85 100
 87 32.0 26.2 39.4





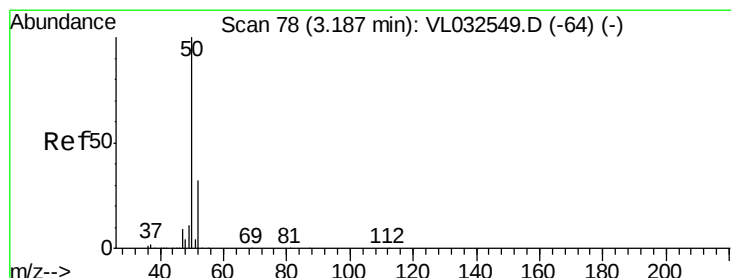
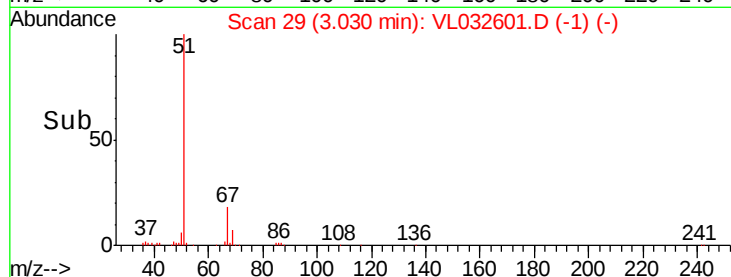
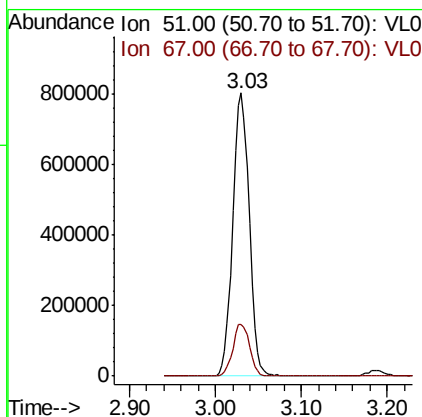
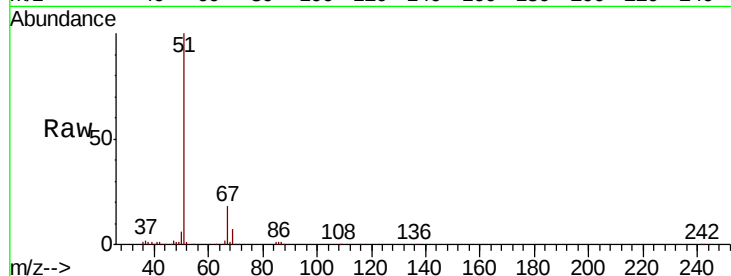
#3
Chlorodifluoromethane
Concen: 8.648 ppbv
RT: 3.03 min Scan# 29
Delta R.T. -0.01 min
Lab File: VL032601.D
Acq: 11 Oct 2018 12:41

Instrument :
MSVOA_L
ClientSampleId :
VL1011ABS01

Tot Ion: 51 Resp: 1071863
Ion Ratio Lower Upper
51 100
67 18.9 13.8 20.8

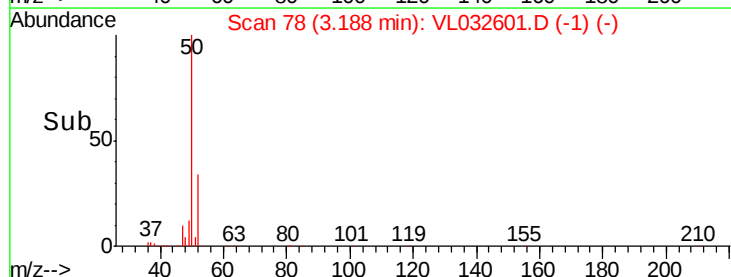
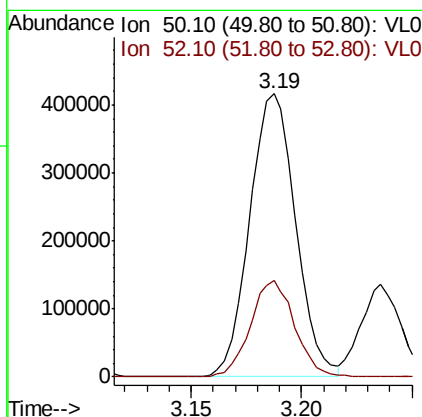
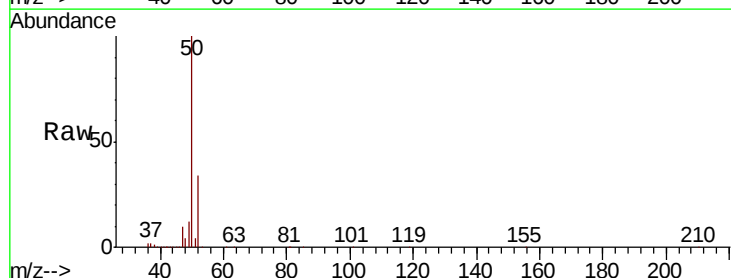
Manual Integrations
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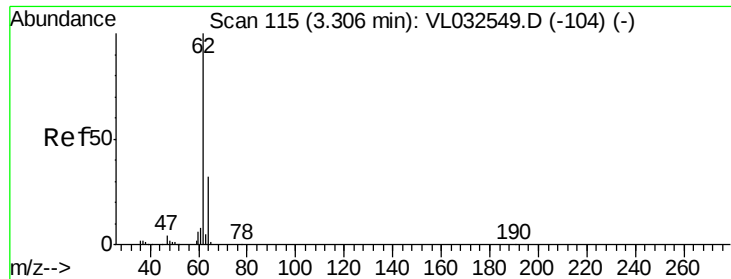
MMDadoda
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#4
Chloromethane
Concen: 8.351 ppbv
RT: 3.19 min Scan# 78
Delta R.T. -0.01 min
Lab File: VL032601.D
Acq: 11 Oct 2018 12:41

Tgt Ion: 50 Resp: 603507
Ion Ratio Lower Upper
50 100
52 34.2 25.6 38.4





#5

Vinyl Chloride

Concen: 8.305 ppbv

RT: 3.31 min Scan# 115

Delta R.T. -0.02 min

Lab File: VL032601.D

Acq: 11 Oct 2018 12:41

Instrument :

MSVOA_L

ClientSampleID :

VL1011ABS01

Tot Ion: 62 Resp: 606464

Ion Ratio Lower Upper

62 100

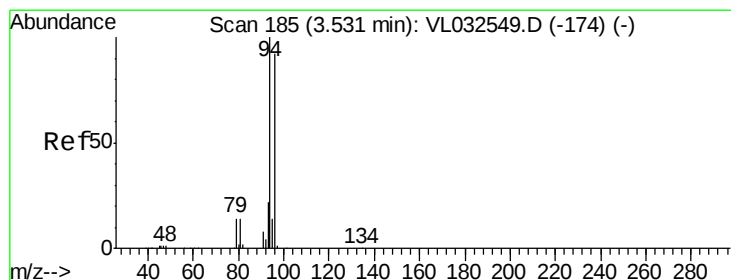
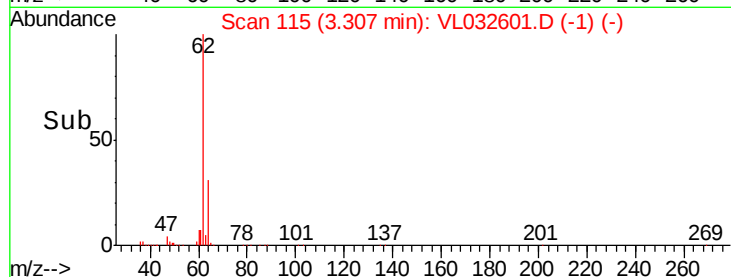
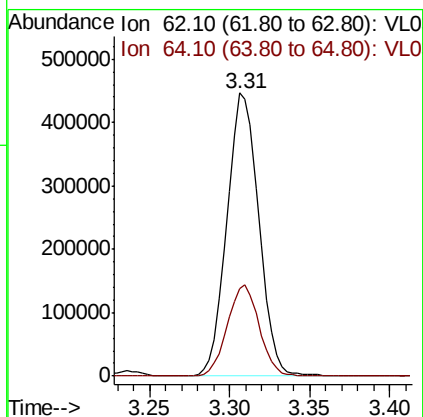
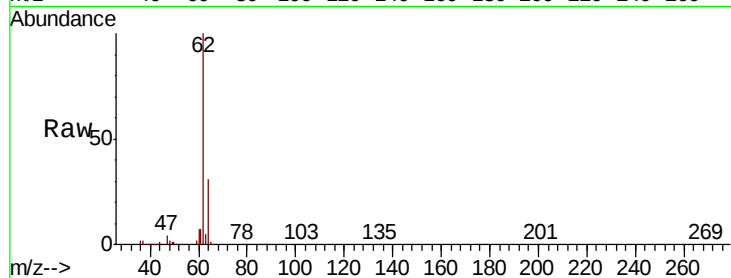
64 31.2 25.0 37.6

Manual Integrations

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#6

Bromomethane

Concen: 9.553 ppbv

RT: 3.53 min Scan# 185

Delta R.T. -0.02 min

Lab File: VL032601.D

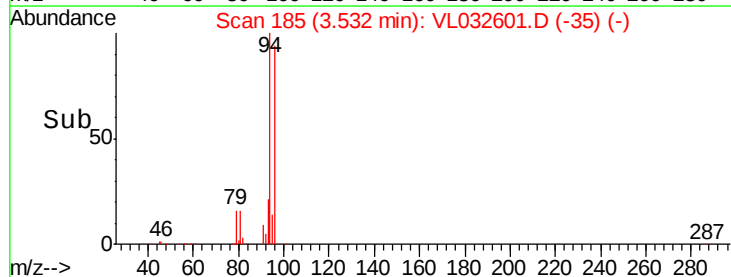
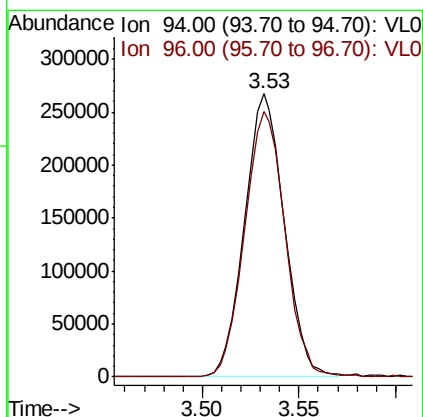
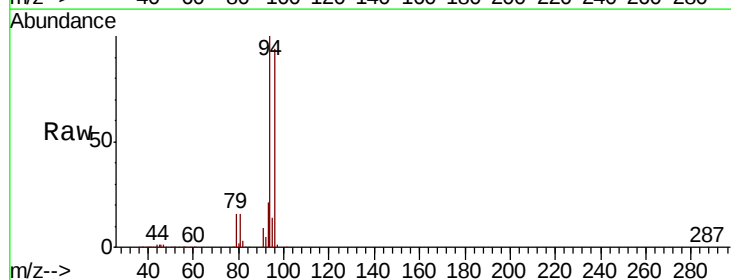
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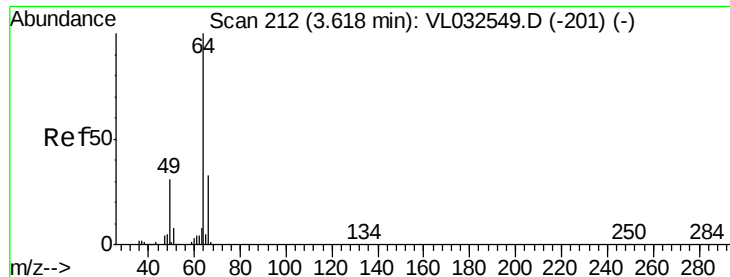
Tgt Ion: 94 Resp: 381516

Ion Ratio Lower Upper

94 100

96 93.7 72.8 109.2





#7

Chloroethane

Concen: 9.257 ppbv

RT: 3.62 min Scan# 212

Delta R.T. -0.02 min

Lab File: VL032601.D

Acq: 11 Oct 2018 12:41

Instrument :

MSVOA_L

ClientSampleId :

VL1011ABS01

Tot Ion: 64 Resp: 240875

Ion Ratio Lower Upper

64 100

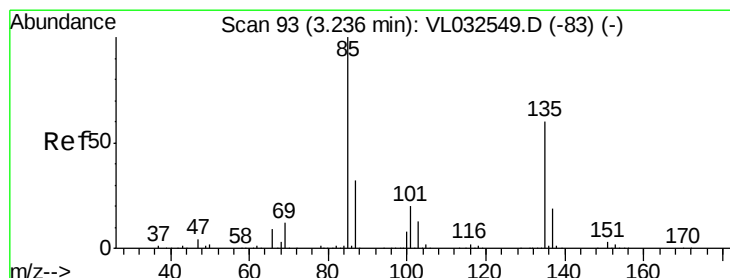
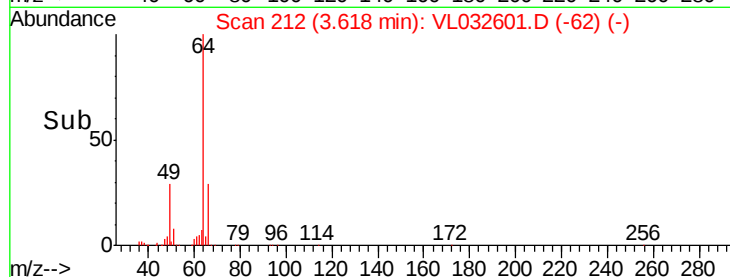
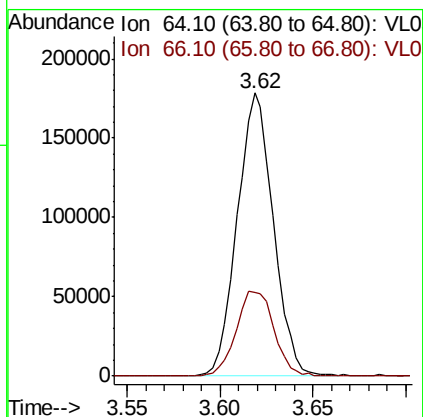
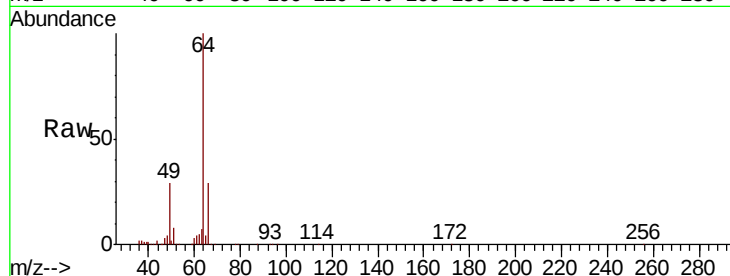
66 29.4 25.8 38.6

Manual Integrations

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#8

Dichlorotetrafluoroethane

Concen: 9.422 ppbv

RT: 3.24 min Scan# 93

Delta R.T. -0.02 min

Lab File: VL032601.D

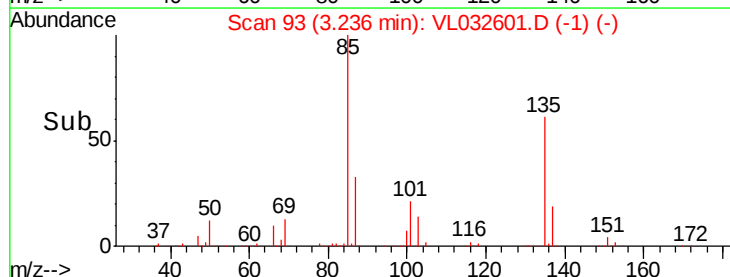
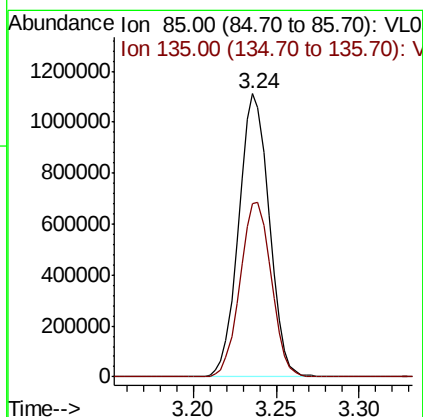
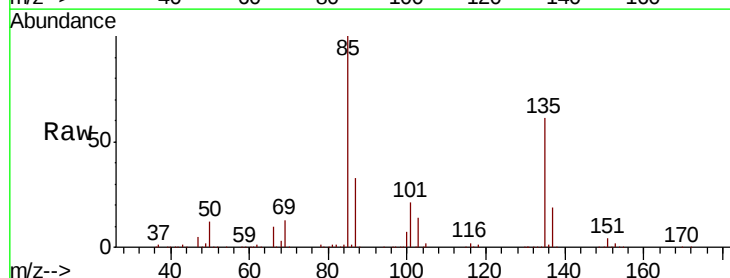
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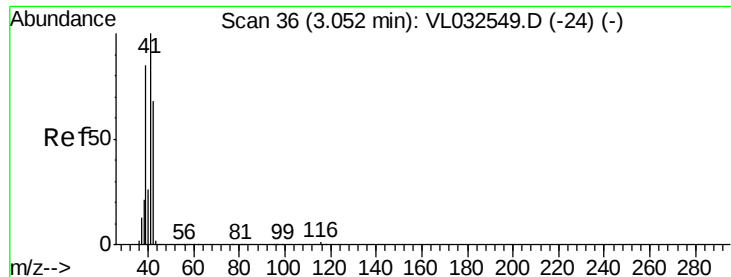
Tgt Ion: 85 Resp: 1419111

Ion Ratio Lower Upper

85 100

135 63.3 48.6 72.8





#9

Propene

Concen: 7.979 ppbv

RT: 3.05 min Scan# 36

Delta R.T. -0.01 min

Lab File: VL032601.D

Acq: 11 Oct 2018 12:41

Instrument :

MSVOA_L

ClientSampleId :

VL1011ABS01

Tot Ion: 41 Resp: 429062

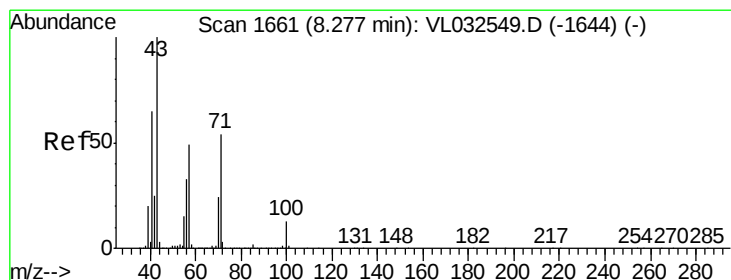
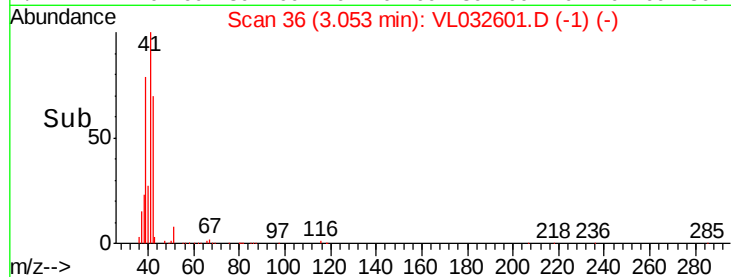
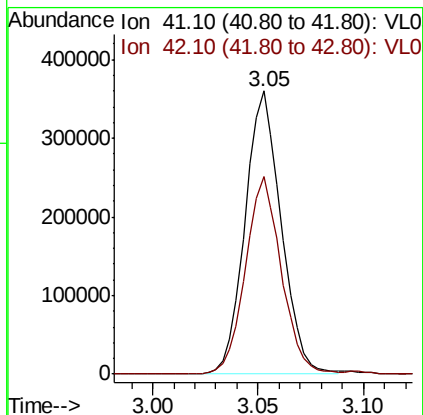
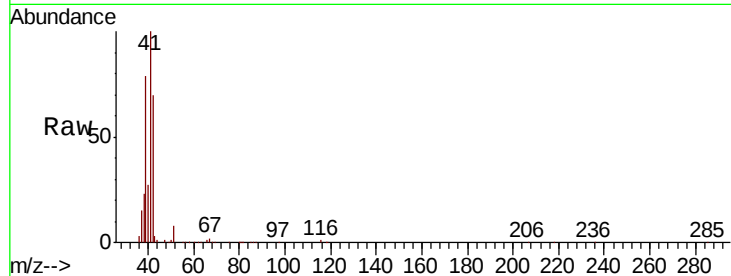
Ion Ratio Lower Upper

41 100

42 70.2 56.6 84.8

Manual Integrations
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#10

Heptane

Concen: 9.358 ppbv

RT: 8.28 min Scan# 1661

Delta R.T. -0.02 min

Lab File: VL032601.D

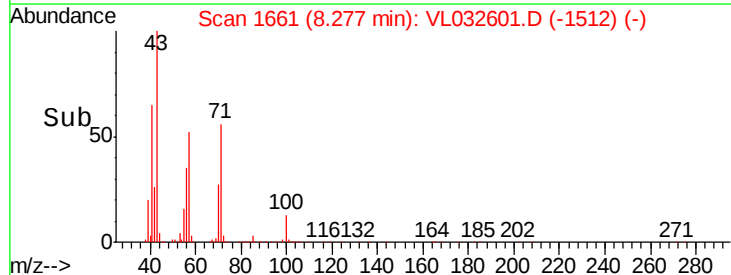
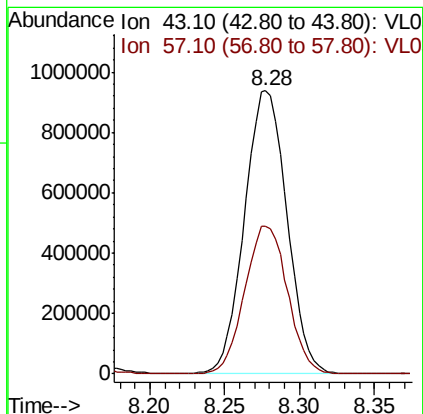
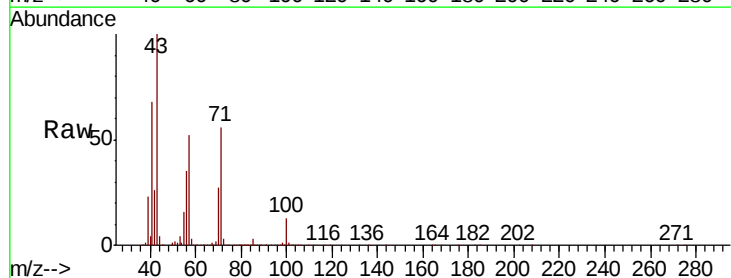
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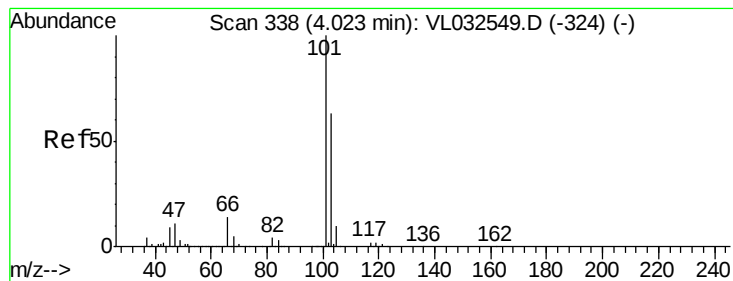
Tgt Ion: 43 Resp: 1845866

Ion Ratio Lower Upper

43 100

57 52.9 39.6 59.4





#11

Trichlorofluoromethane

Concen: 9.850 ppbv

RT: 4.02 min Scan# 338

Delta R.T. -0.02 min

Lab File: VL032601.D

Acq: 11 Oct 2018 12:41

Instrument :

MSVOA_L

ClientSampleId :

VL1011ABS01

Tot Ion:101 Resp: 1614142

Ion Ratio Lower Upper

101 100

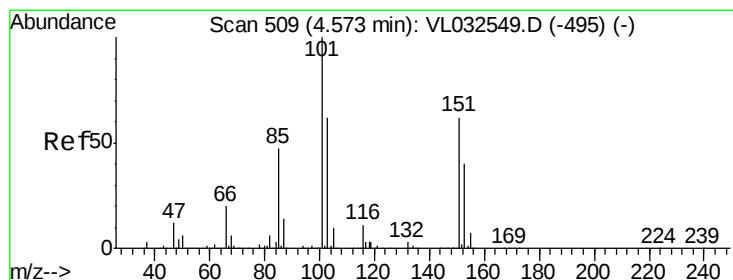
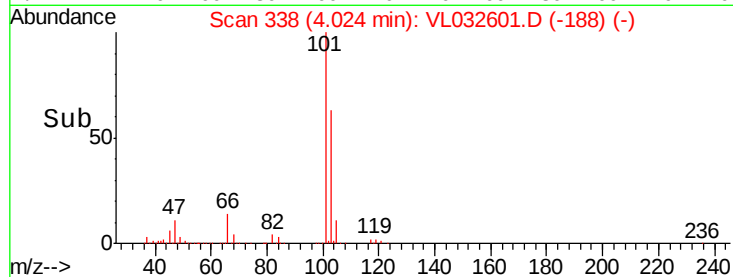
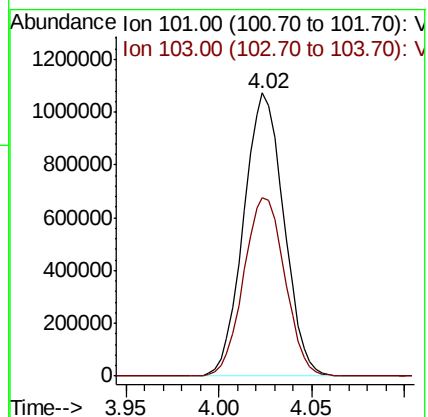
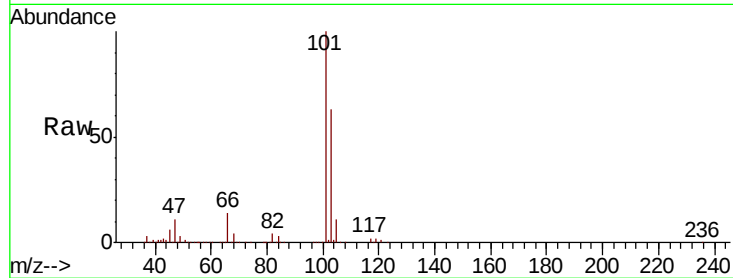
103 63.2 52.8 79.2

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#12

1,1,2-Trichlorotrifluoroethane

Concen: 9.709 ppbv

RT: 4.57 min Scan# 509

Delta R.T. -0.02 min

Lab File: VL032601.D

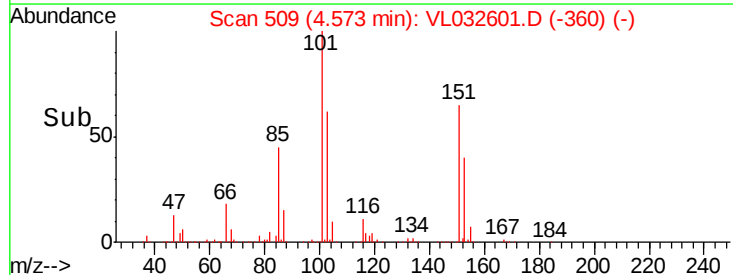
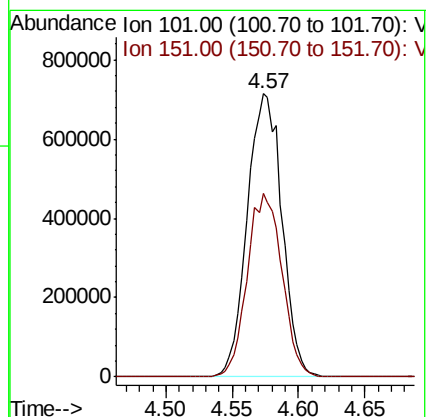
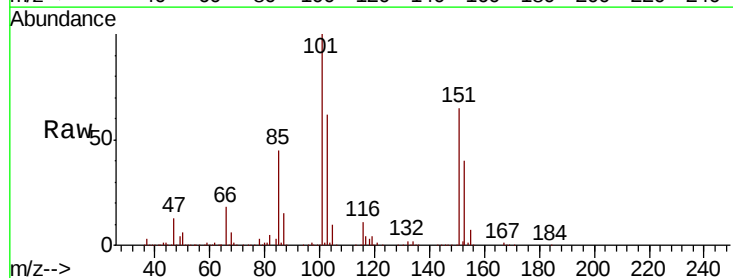
Acq: 11 Oct 2018 12:41

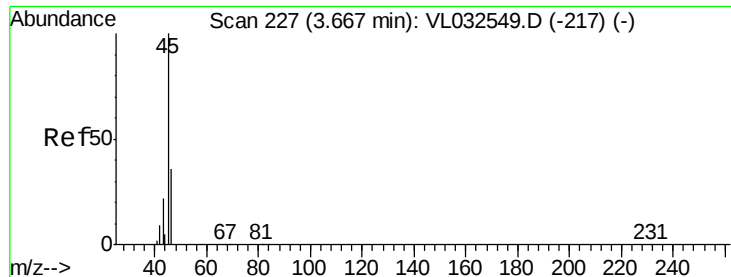
Tgt Ion:101 Resp: 1300575

Ion Ratio Lower Upper

101 100

151 64.9 52.6 78.8





#13

Ethanol

Concen: 8.644 ppbv

RT: 3.67 min Scan# 228

Delta R.T. -0.01 min

Lab File: VL032601.D

Acq: 11 Oct 2018 12:41

Tot Ion: 45 Resp: 139725

Ion Ratio Lower Upper

45 100

46 37.8 14.2 56.8

Instrument :

MSVOA_L

ClientSampleId :

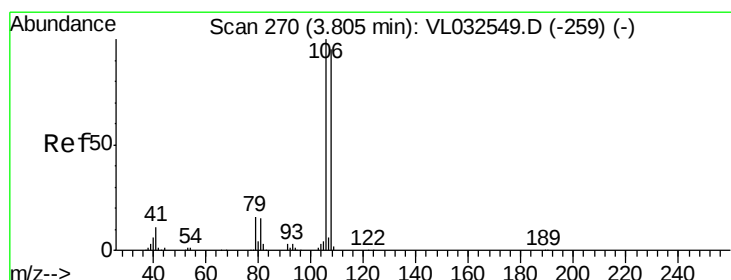
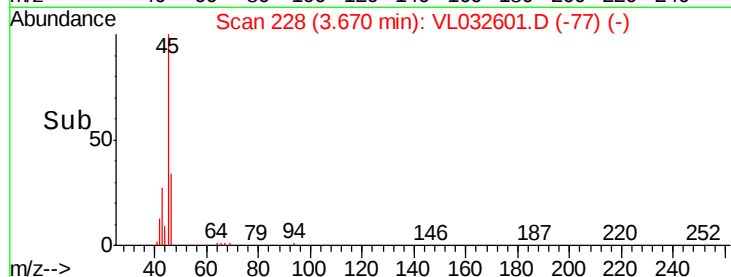
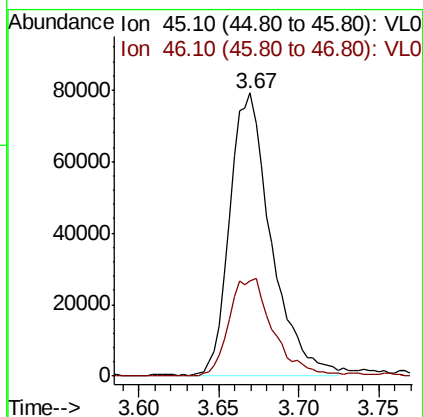
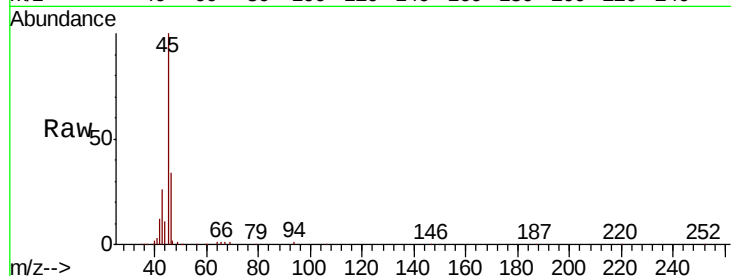
VL1011ABS01

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#14

Bromoethene

Concen: 10.024 ppbv

RT: 3.80 min Scan# 270

Delta R.T. -0.02 min

Lab File: VL032601.D

Acq: 11 Oct 2018 12:41

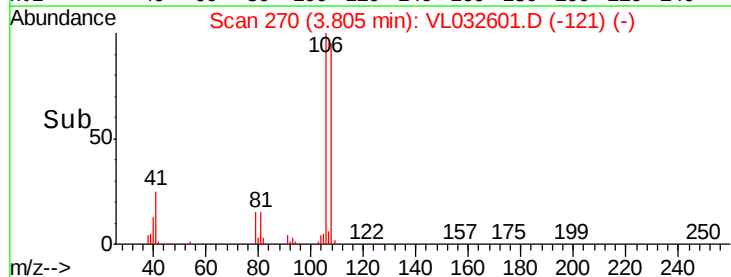
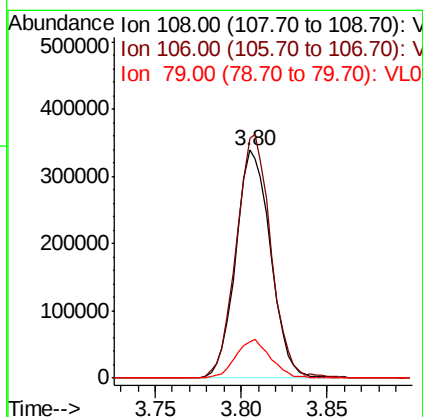
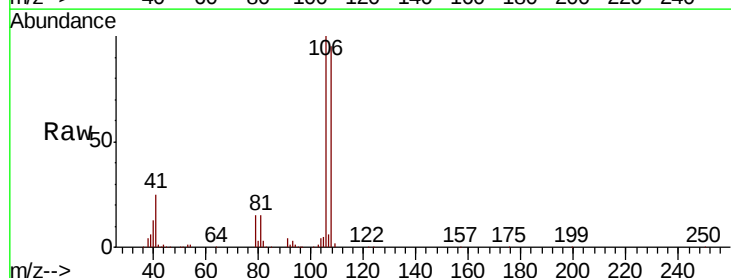
Tgt Ion: 108 Resp: 476480

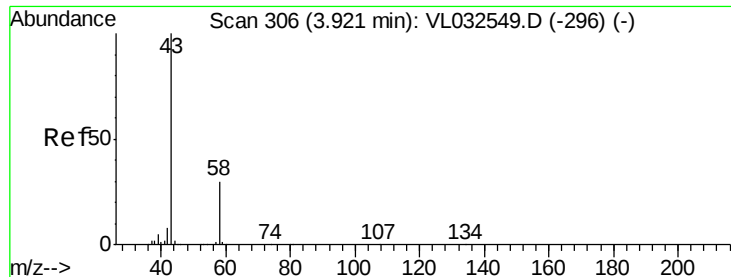
Ion Ratio Lower Upper

108 100

106 106.6 85.5 128.3

79 17.1 13.0 19.6





#15

Acetone

Concen: 8.669 ppbv

RT: 3.92 min Scan# 306

Delta R.T. -0.02 min

Lab File: VL032601.D

Acq: 11 Oct 2018 12:41

Instrument :

MSVOA_L

ClientSampleId :

VL1011ABS01

Tot Ion: 43 Resp: 1134096

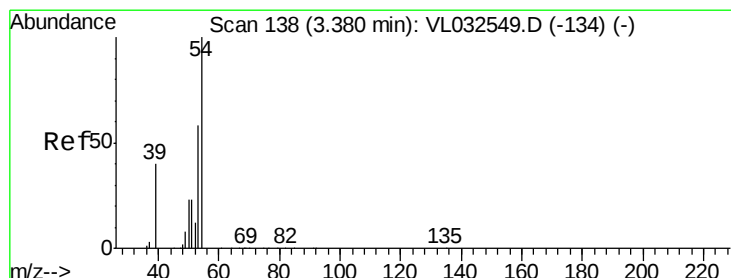
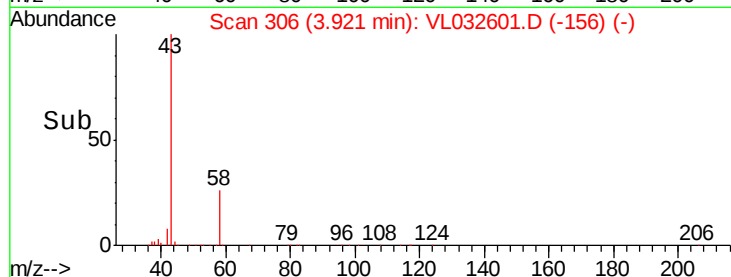
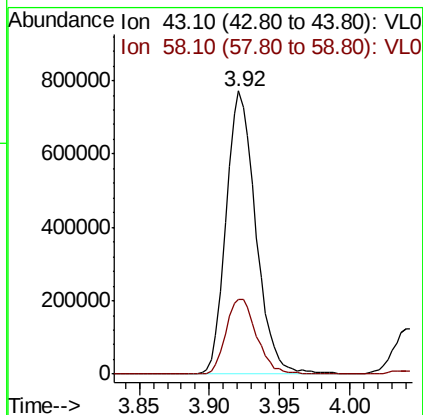
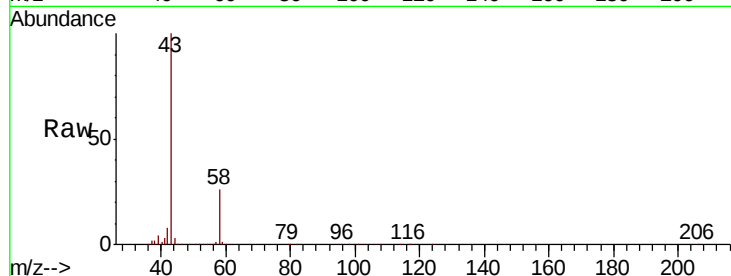
Ion Ratio Lower Upper

43 100

58 27.5 22.6 33.8

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#16

1,3-Butadiene

Concen: 9.700 ppbv

RT: 3.38 min Scan# 138

Delta R.T. -0.02 min

Lab File: VL032601.D

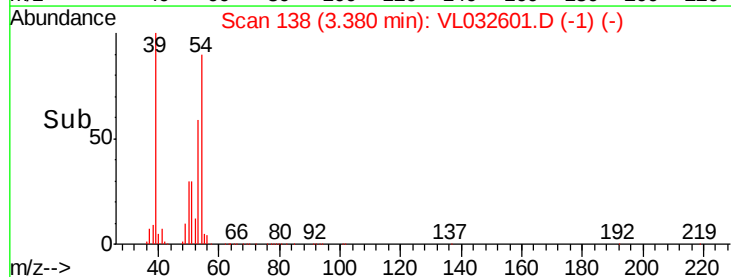
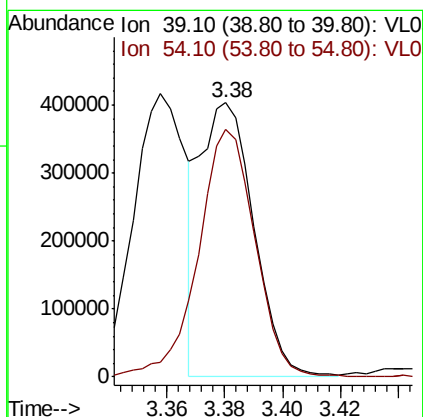
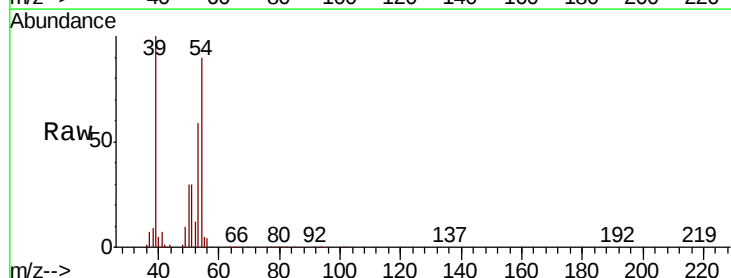
Acq: 11 Oct 2018 12:41

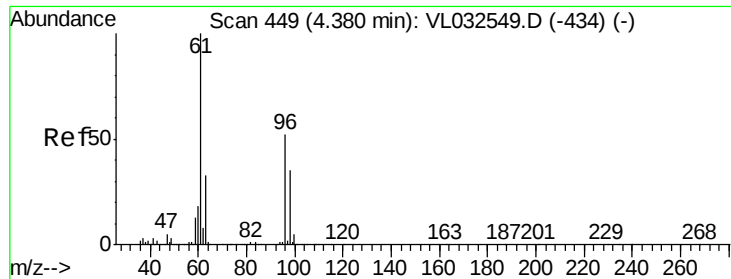
Tgt Ion: 39 Resp: 514612

Ion Ratio Lower Upper

39 100

54 96.6 80.8 121.2





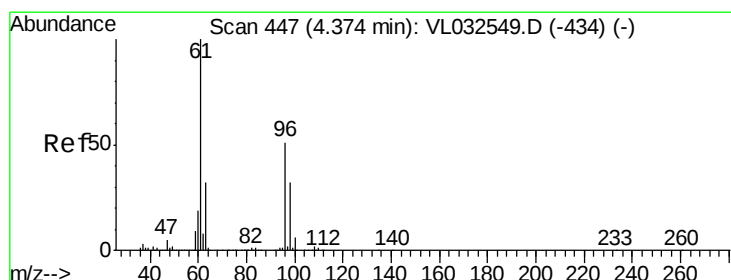
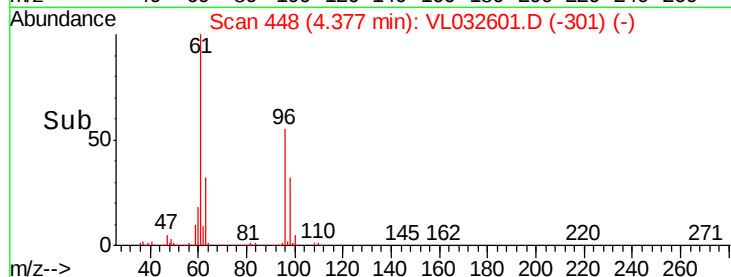
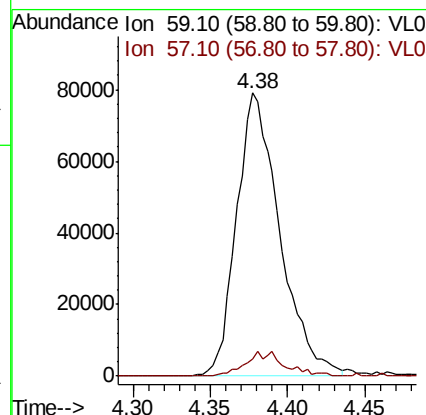
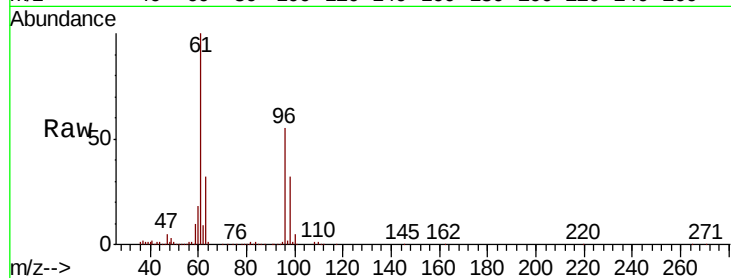
#17
tert-Butyl alcohol
Concen: 9.330 ppbv
RT: 4.38 min Scan# 448
Delta R.T. -0.03 min
Lab File: VL032601.D
Acq: 11 Oct 2018 12:41

Instrument :
MSVOA_L
ClientSampleId :
VL1011ABS01

Tot Ion: 59 Resp: 153380
Ion Ratio Lower Upper
59 100
57 8.0 0.0 0.0#

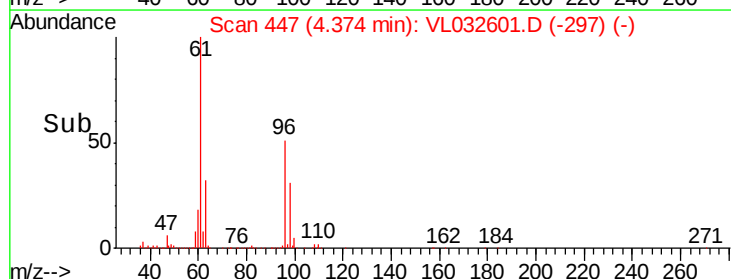
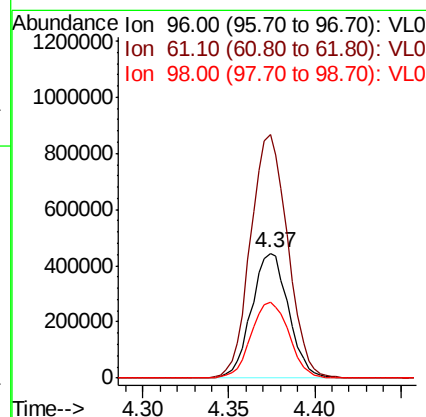
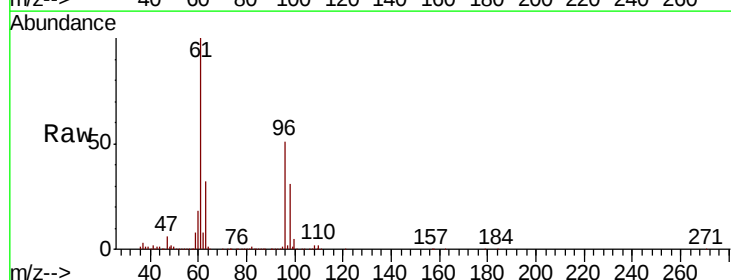
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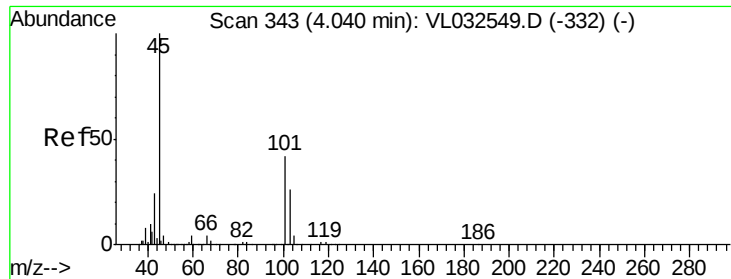
MMDadoda
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#18
1,1-Dichloroethene
Concen: 10.573 ppbv
RT: 4.37 min Scan# 447
Delta R.T. -0.02 min
Lab File: VL032601.D
Acq: 11 Oct 2018 12:41

Tgt Ion: 96 Resp: 663278
Ion Ratio Lower Upper
96 100
61 195.0 159.2 238.8
98 61.0 51.0 76.4





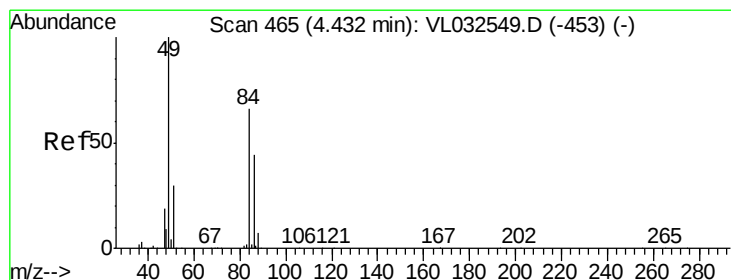
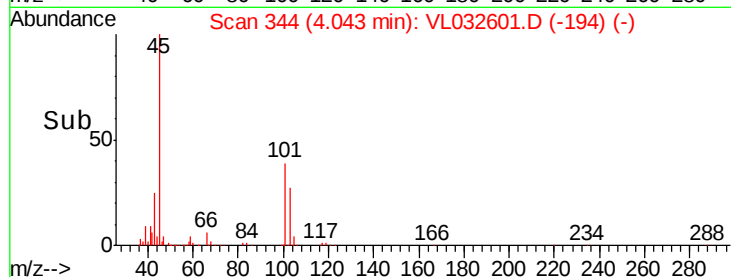
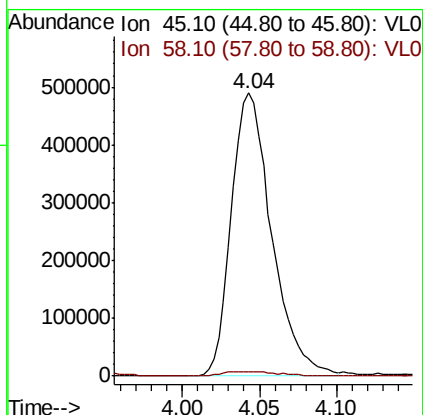
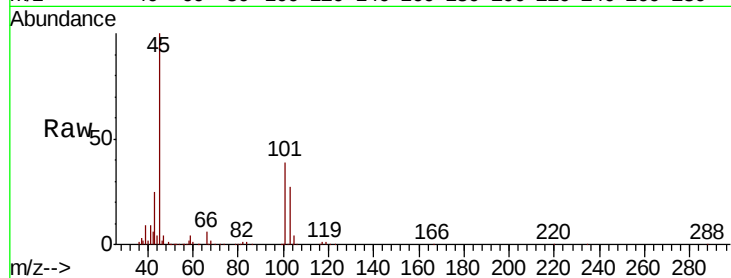
#19
Isopropyl Alcohol
Concen: 9.726 ppbv
RT: 4.04 min Scan# 344
Delta R.T. -0.02 min
Lab File: VL032601.D
Acq: 11 Oct 2018 12:41

Instrument :
MSVOA_L
ClientSampleId :
VL1011ABS01

Tot Ion: 45 Resp: 886333
Ion Ratio Lower Upper
45 100
58 2.1 2.0 3.0

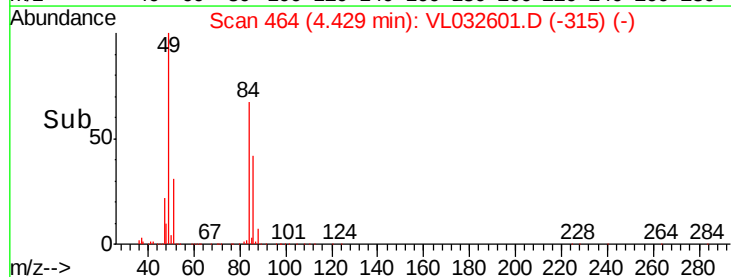
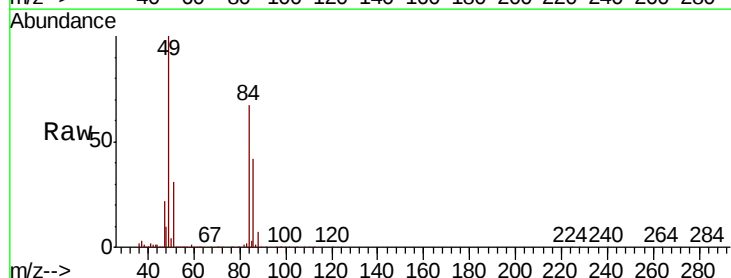
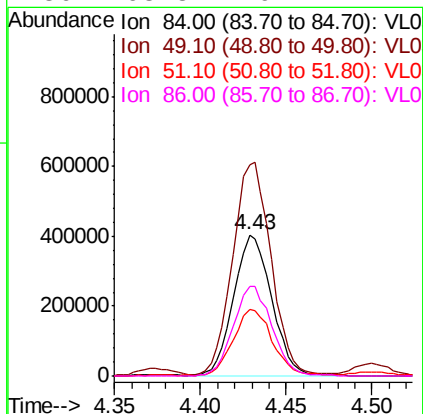
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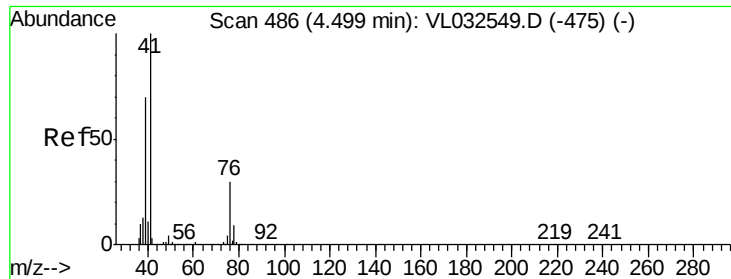
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#20
Methylene Chloride
Concen: 9.694 ppbv
RT: 4.43 min Scan# 464
Delta R.T. -0.02 min
Lab File: VL032601.D
Acq: 11 Oct 2018 12:41

Tgt Ion: 84 Resp: 614113
Ion Ratio Lower Upper
84 100
49 149.8 119.1 178.7
51 46.7 35.2 52.8
86 63.8 49.4 74.2





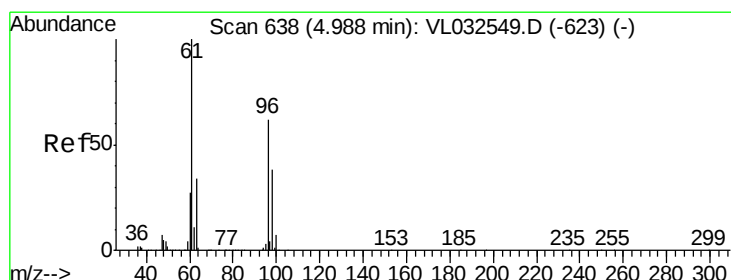
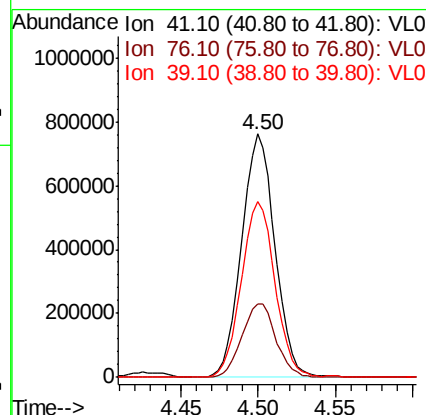
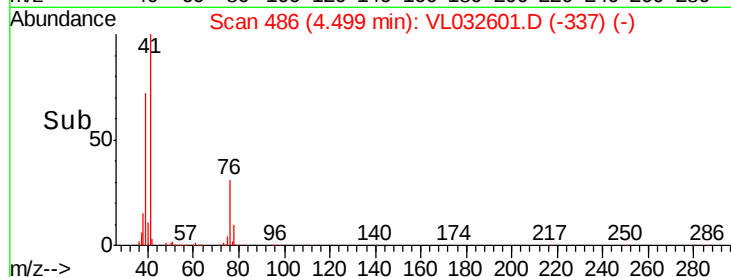
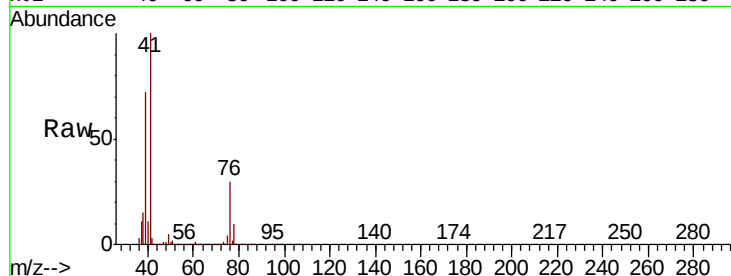
#21
Allvl Chloride
Concen: 10.631 ppbv
RT: 4.50 min Scan# 486
Delta R.T. -0.02 min
Lab File: VL032601.D
Acq: 11 Oct 2018 12:41

Instrument :
MSVOA_L
ClientSampleId :
VL1011ABS01

Tot Ion: 41 Resp: 1136702
Ion Ratio Lower Upper
41 100
76 31.2 23.6 35.4
39 73.2 57.7 86.5

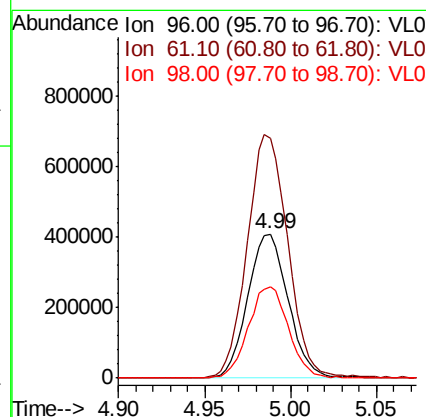
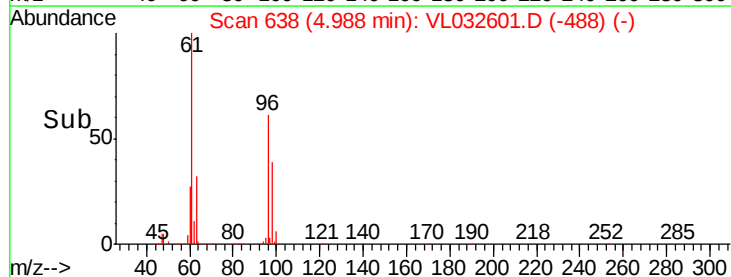
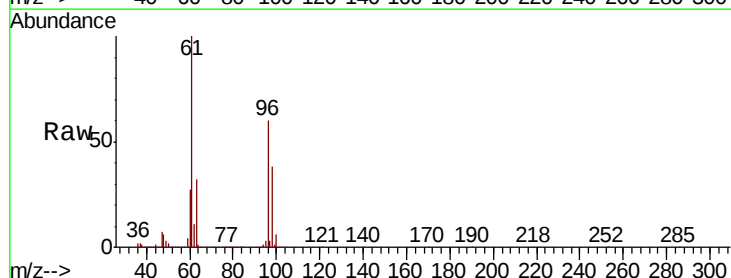
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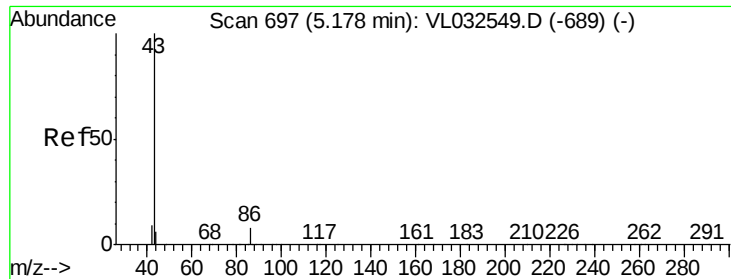
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#22
trans-1,2-Dichloroethene
Concen: 11.229 ppbv
RT: 4.99 min Scan# 638
Delta R.T. -0.02 min
Lab File: VL032601.D
Acq: 11 Oct 2018 12:41

Tgt Ion: 96 Resp: 663909
Ion Ratio Lower Upper
96 100
61 166.0 136.2 204.4
98 63.7 50.4 75.6





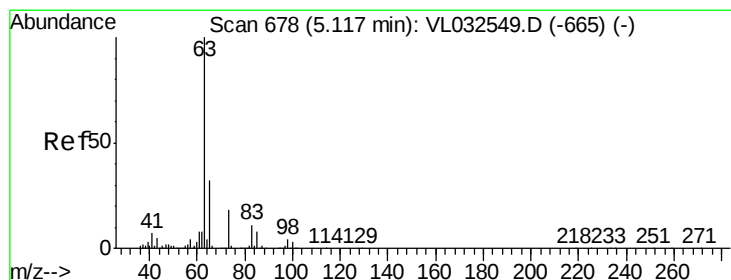
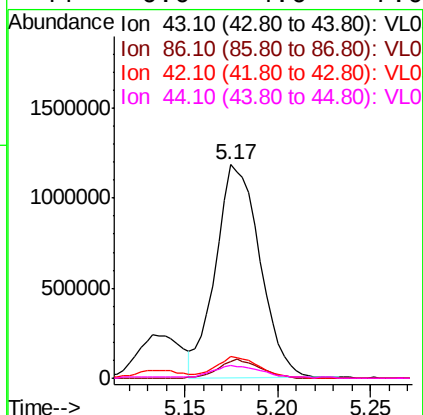
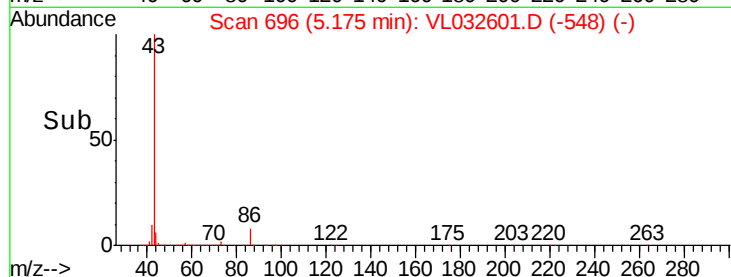
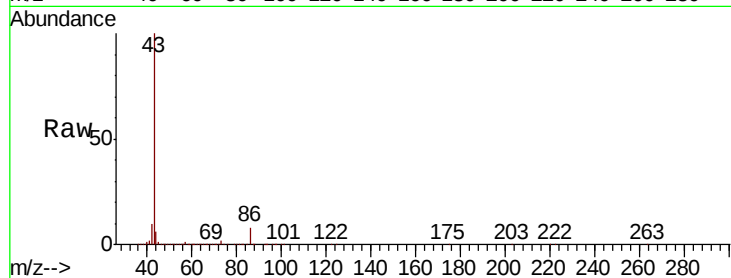
#23
 Vinyl Acetate
 Concen: 8.484 ppbv
 RT: 5.17 min Scan# 696
 Delta R.T. -0.02 min
 Lab File: VL032601.D
 Acq: 11 Oct 2018 12:41

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1011ABS01

Tot Ion	43	Resp	1961239
Ion	Ratio	Lower	Upper
43	100		
86	7.9	5.9	8.9
42	10.0	6.9	10.3
44	6.0	4.6	7.0

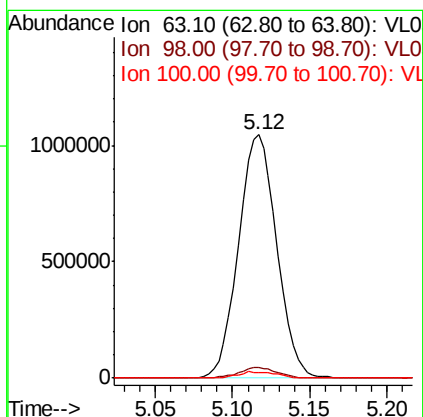
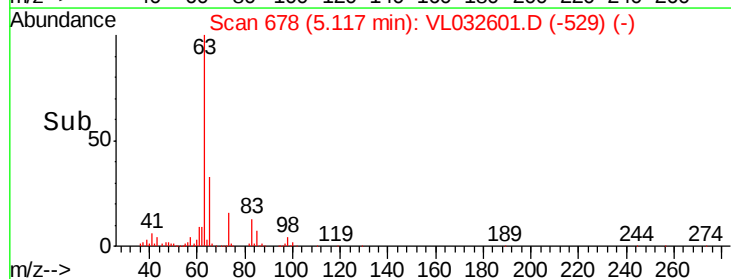
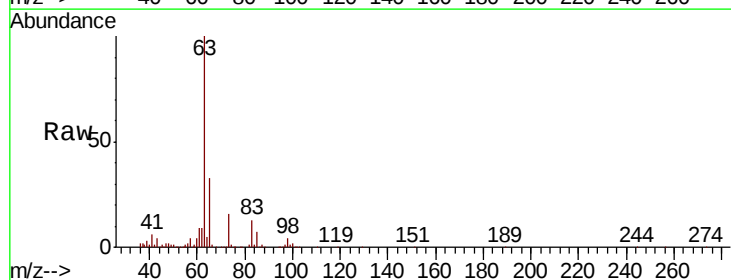
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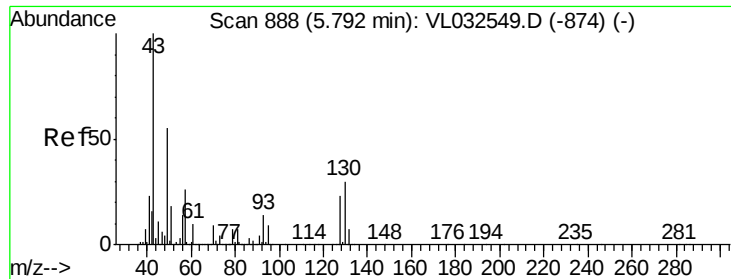
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#24
 1,1-Dichloroethane
 Concen: 9.307 ppbv
 RT: 5.12 min Scan# 678
 Delta R.T. -0.02 min
 Lab File: VL032601.D
 Acq: 11 Oct 2018 12:41

Tgt Ion	63	Resp	1791726
Ion	Ratio	Lower	Upper
63	100		
98	4.3	2.1	6.5
100	2.4	1.5	4.4





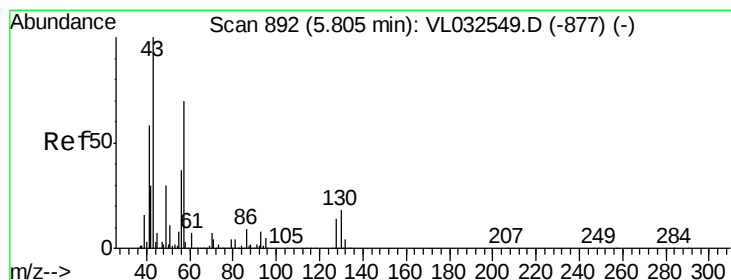
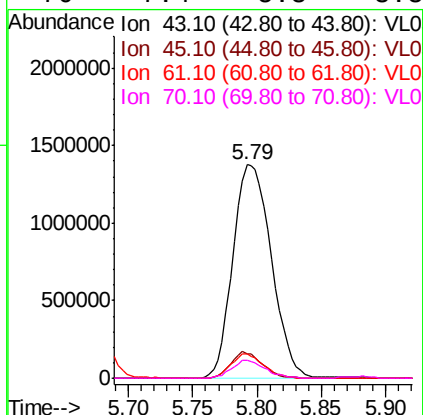
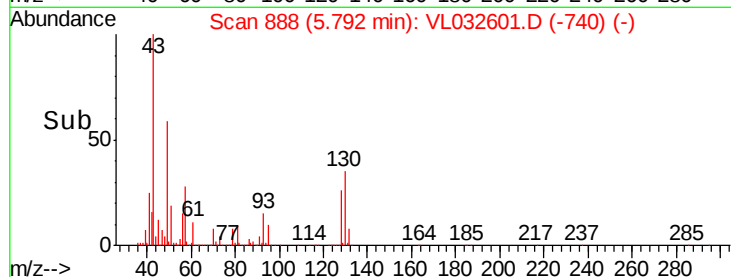
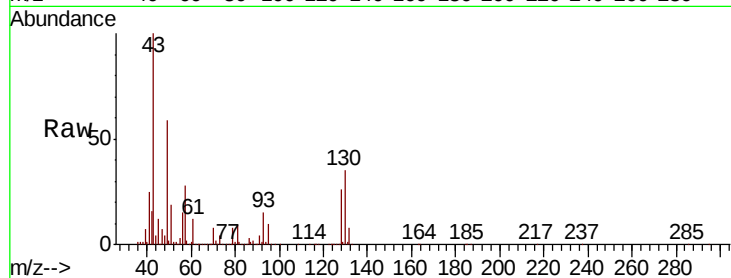
#25
Ethyl Acetate
Concen: 8.991 ppbv
RT: 5.79 min Scan# 888
Delta R.T. -0.02 min
Lab File: VL032601.D
Acq: 11 Oct 2018 12:41

Instrument :
MSVOA_L
ClientSampleId :
VL1011ABS01

Tot Ion	Ion	Ratio	Lower	Upper
43	100			
45	10.4	8.0	12.0	
61	9.6	7.6	11.4	
70	7.4	5.8	8.8	

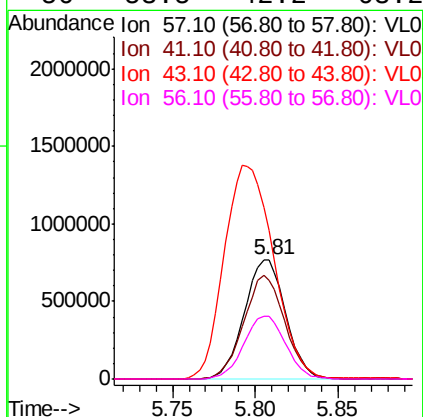
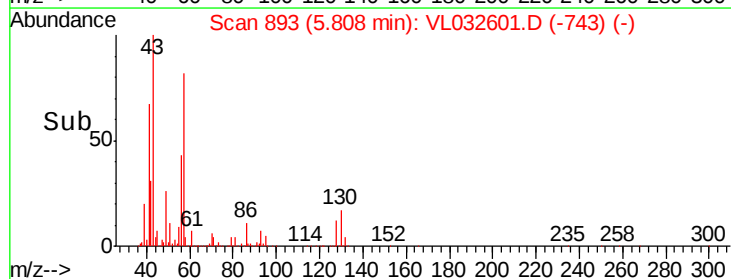
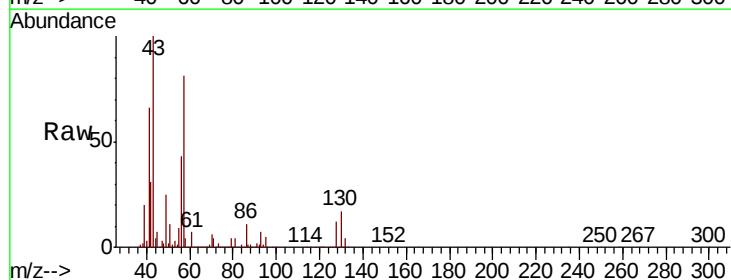
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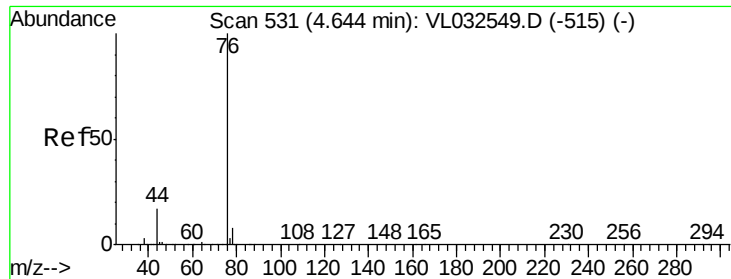
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#26
Hexane
Concen: 9.300 ppbv
RT: 5.81 min Scan# 893
Delta R.T. -0.02 min
Lab File: VL032601.D
Acq: 11 Oct 2018 12:41

Tgt Ion	Ion	Ratio	Lower	Upper
57	100			
41	86.8	69.0	103.4	
43	215.1	172.1	258.1	
56	53.5	42.2	63.2	





#27

Carbon Disulfide

Concen: 10.050 ppbv

RT: 4.64 min Scan# 530

Delta R.T. -0.02 min

Lab File: VL032601.D

Acq: 11 Oct 2018 12:41

Instrument :

MSVOA_L

ClientSampleId :

VL1011ABS01

Tot Ion: 76 Resp: 1549260

Ion Ratio Lower Upper

76 100

44 16.9 14.0 21.0

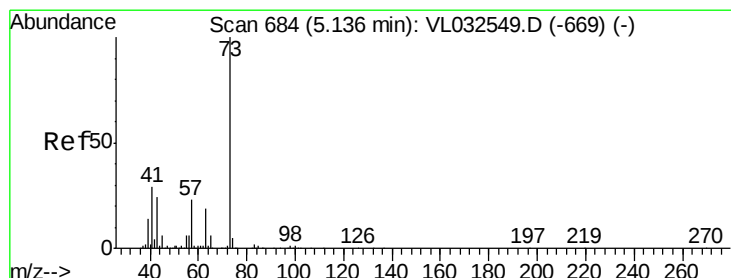
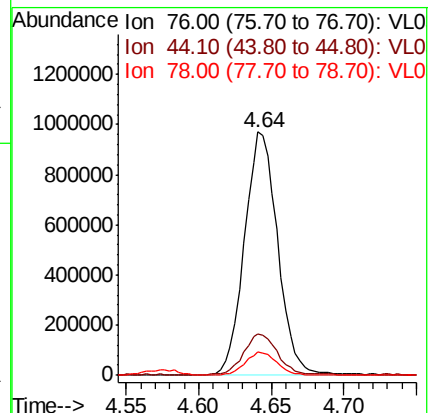
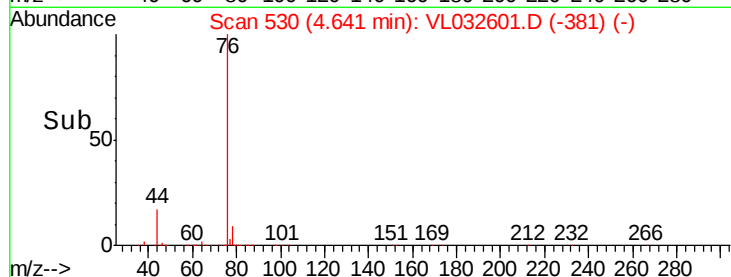
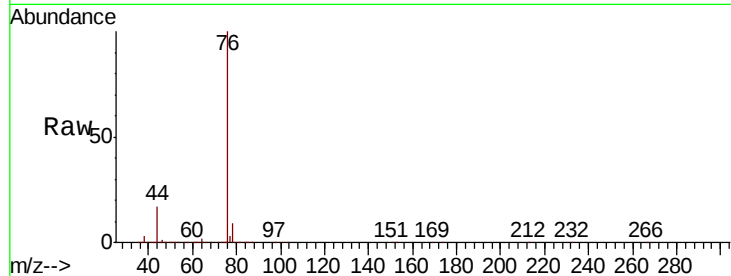
78 9.2 7.5 11.3

Manual Integrations

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#28

Methyl tert-Butyl Ether

Concen: 10.074 ppbv

RT: 5.14 min Scan# 685

Delta R.T. -0.02 min

Lab File: VL032601.D

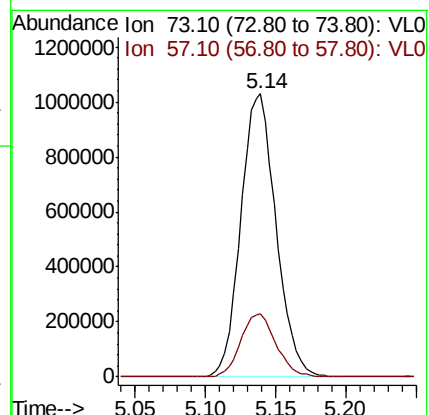
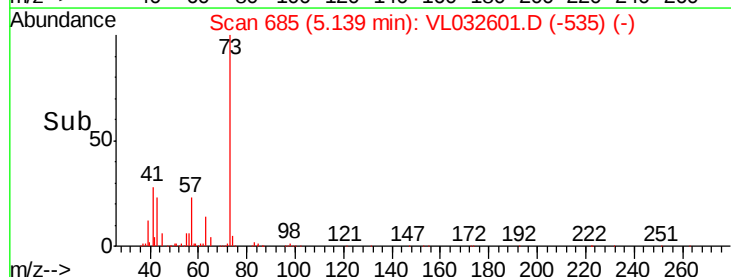
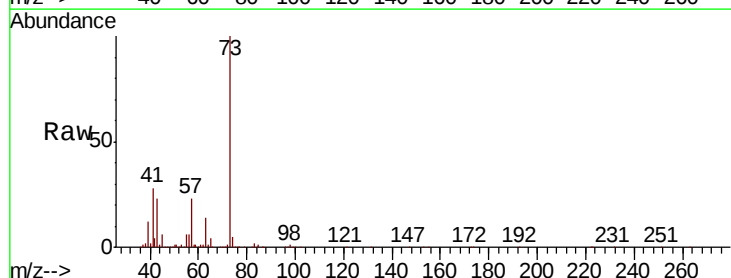
Acq: 11 Oct 2018 12:41

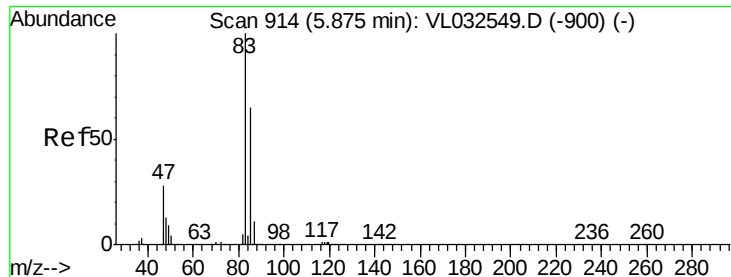
Tgt Ion: 73 Resp: 1799422

Ion Ratio Lower Upper

73 100

57 22.6 19.3 28.9





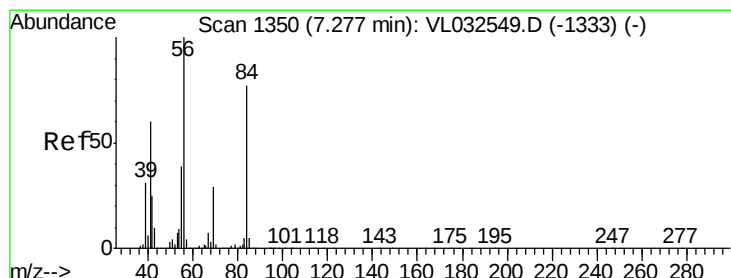
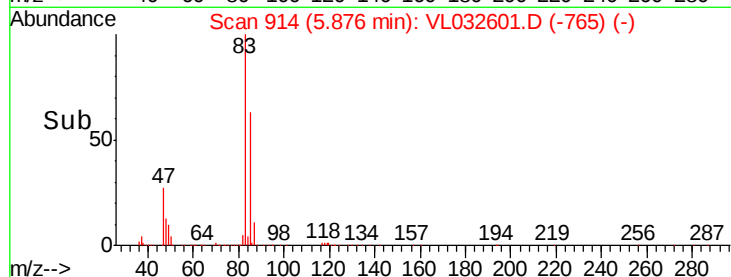
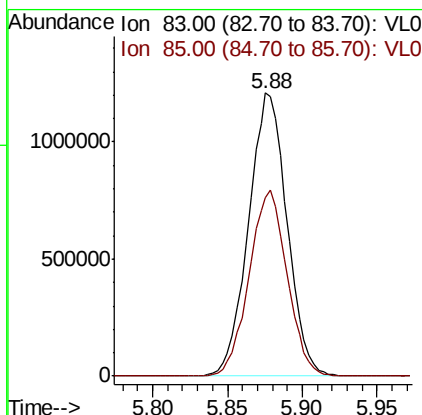
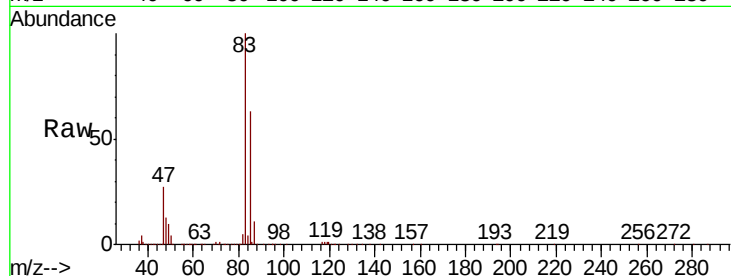
#29
Chloroform
Concen: 9.805 ppbv
RT: 5.88 min Scan# 914
Delta R.T. -0.02 min
Lab File: VL032601.D
Acq: 11 Oct 2018 12:41

Instrument :
MSVOA_L
ClientSampleId :
VL1011ABS01

Tot Ion: 83 Resp: 2157163
Ion Ratio Lower Upper
83 100
85 63.1 52.5 78.7

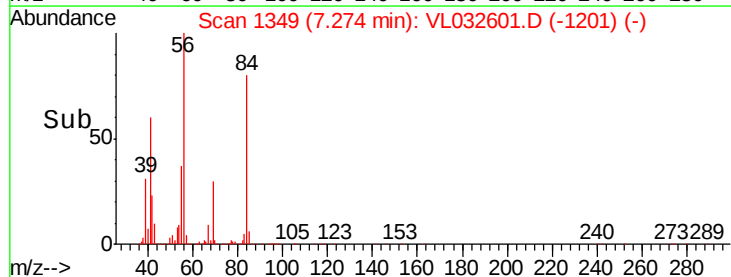
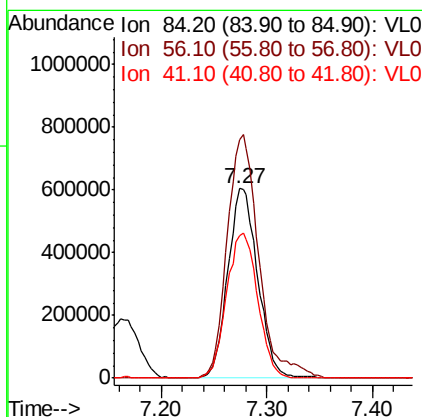
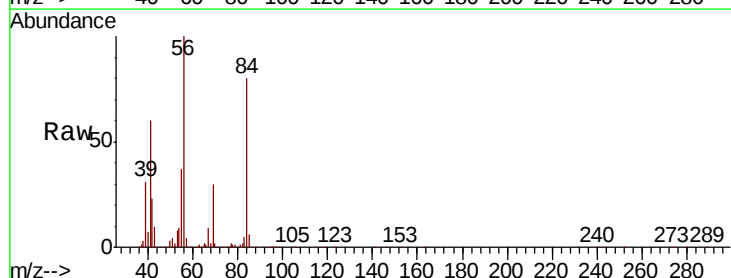
Manual Integrations
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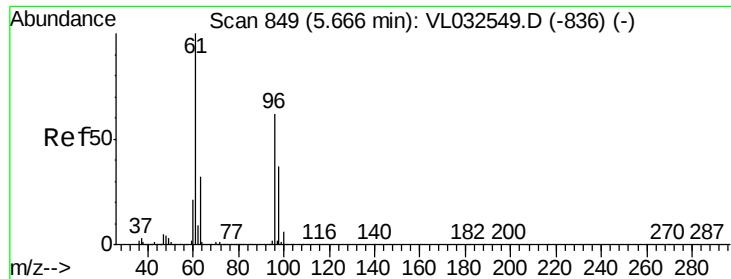
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#30
Cyclohexane
Concen: 10.143 ppbv
RT: 7.27 min Scan# 1349
Delta R.T. -0.02 min
Lab File: VL032601.D
Acq: 11 Oct 2018 12:41

Tgt Ion: 84 Resp: 1184242
Ion Ratio Lower Upper
84 100
56 136.2 113.5 170.3
41 79.6 68.1 102.1





#31

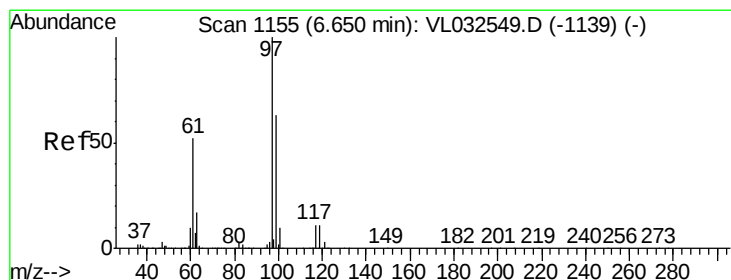
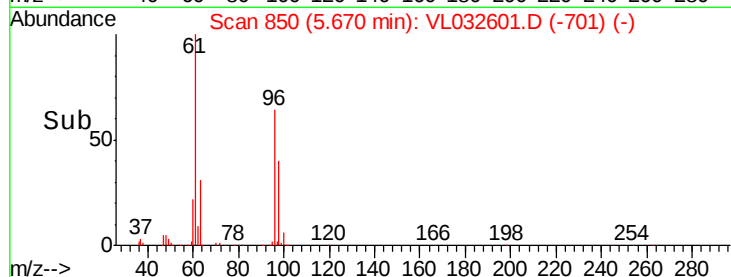
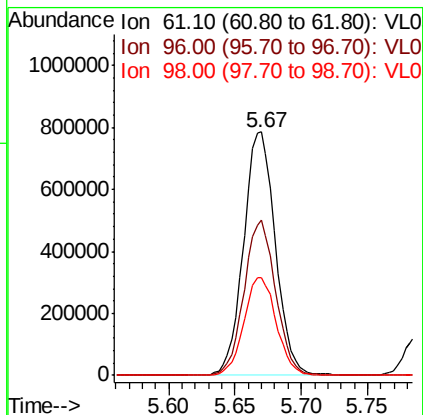
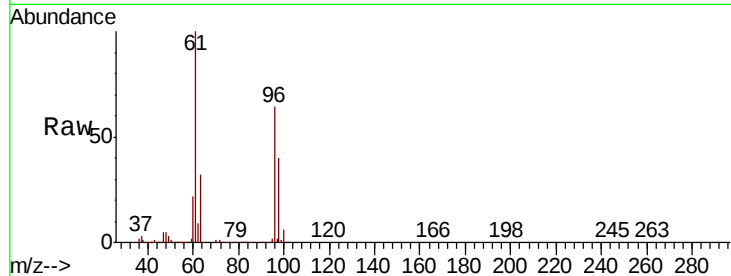
cis-1,2-Dichloroethene
Concen: 9.594 ppbv
RT: 5.67 min Scan# 850
Delta R.T. -0.02 min
Lab File: VL032601.D
Acq: 11 Oct 2018 12:41

Instrument :
MSVOA_L
ClientSampleId :
VL1011ABS01

Tot Ion	Ratio	Lower	Upper
61	100		
96	64.0	49.2	73.8
98	40.0	30.7	46.1

Manual Integrations
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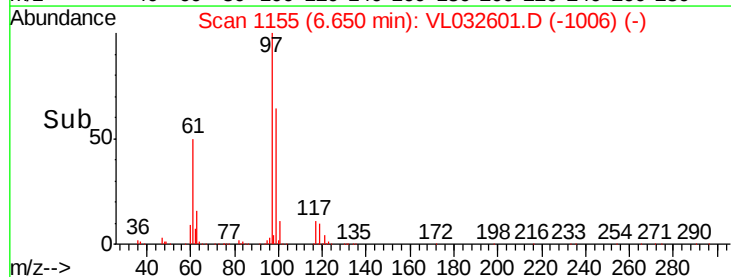
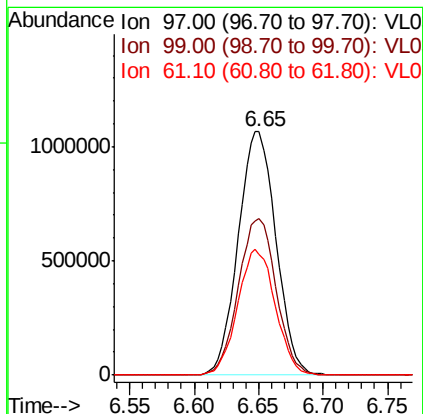
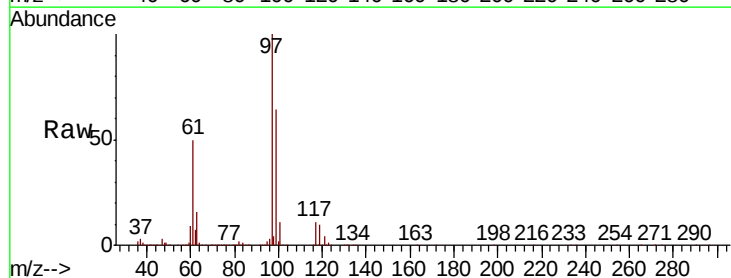
MMDadoda
10/12/2018 2:07:27 PM

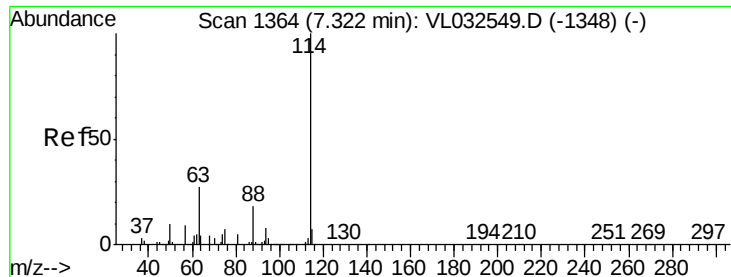


#32

1,1,1-Trichloroethane
Concen: 9.306 ppbv
RT: 6.65 min Scan# 1155
Delta R.T. -0.02 min
Lab File: VL032601.D
Acq: 11 Oct 2018 12:41

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.5	52.1	78.1
61	51.4	42.5	63.7





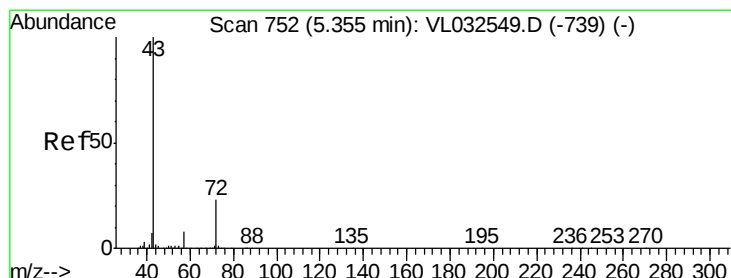
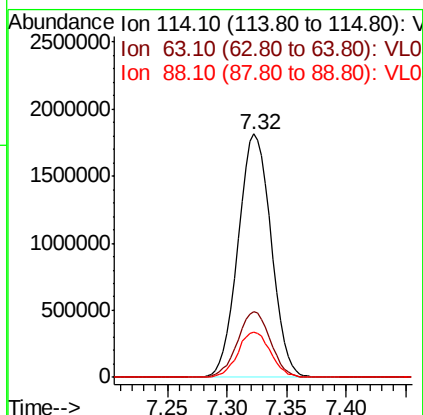
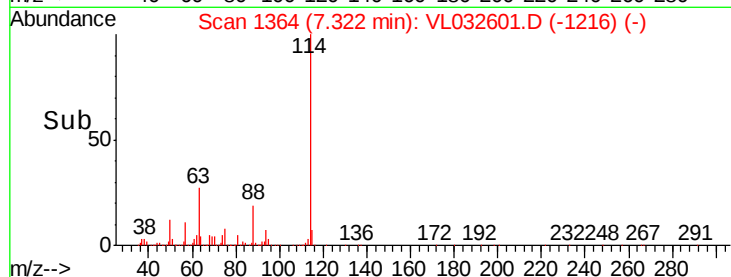
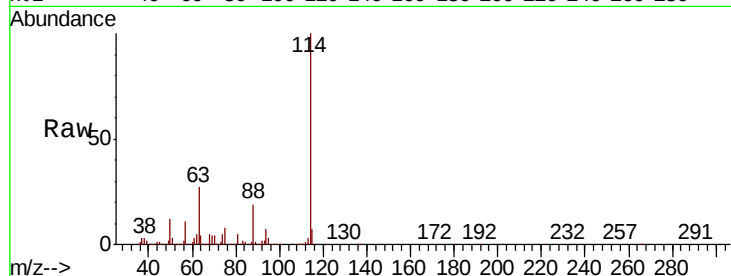
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.32 min Scan# 1364
 Delta R.T. -0.02 min
 Lab File: VL032601.D
 Acq: 11 Oct 2018 12:41

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1011ABS01

Tot Ion	Ratio	Lower	Upper
114	100		
63	27.1	22.2	33.4
88	18.4	15.0	22.4

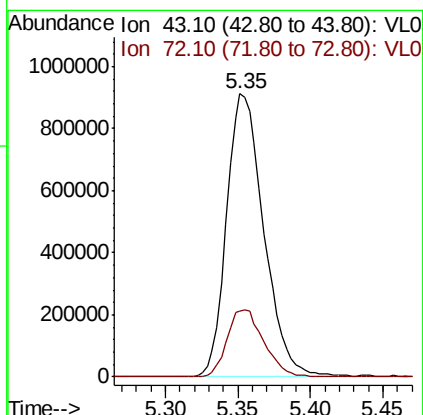
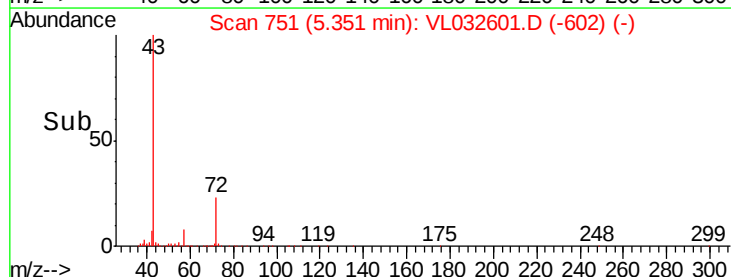
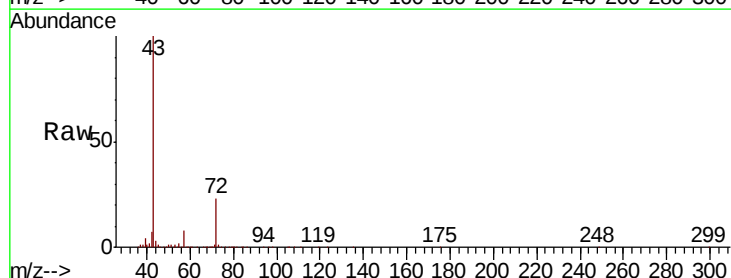
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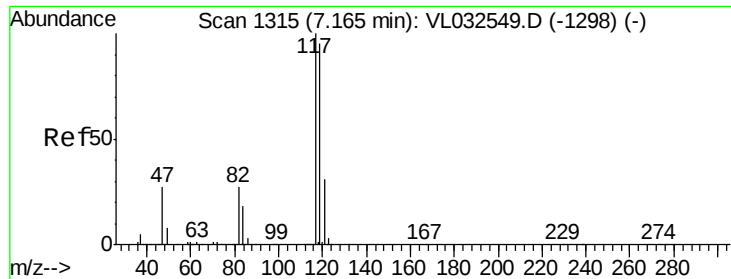
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#34
 2-Butanone
 Concen: 7.764 ppbv
 RT: 5.35 min Scan# 751
 Delta R.T. -0.02 min
 Lab File: VL032601.D
 Acq: 11 Oct 2018 12:41

Tgt Ion	Ratio	Lower	Upper
43	100		
72	23.6	17.8	26.6





#35

Carbon Tetrachloride

Concen: 9.255 ppbv

RT: 7.16 min Scan# 1315

Delta R.T. -0.02 min

Lab File: VL032601.D

Acq: 11 Oct 2018 12:41

Instrument :

MSVOA_L

ClientSampleId :

VL1011ABS01

Tot Ion: 117 Resp: 2248863

Ion Ratio Lower Upper

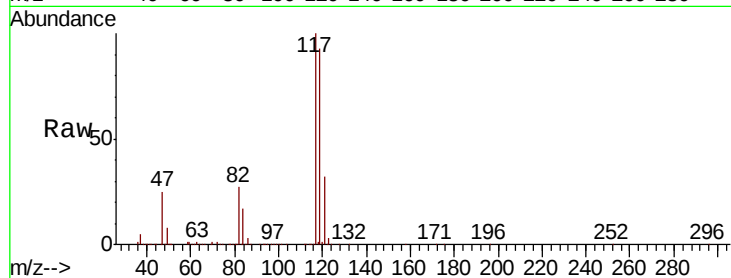
117 100

119 92.8 76.6 115.0

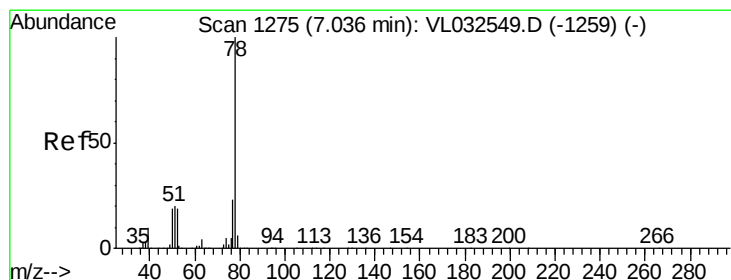
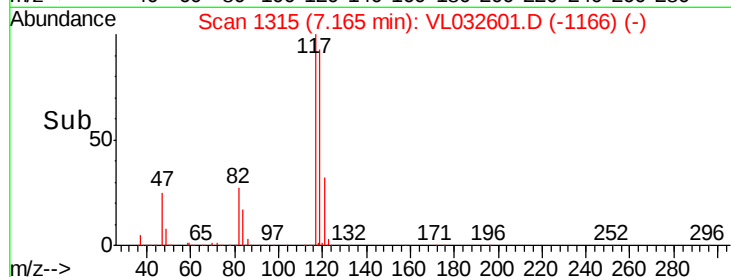
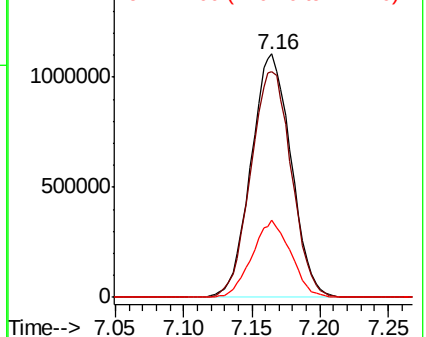
121 31.7 24.6 36.8

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Abundance Ion 117.00 (116.70 to 117.70): V
1500000
Ion 119.00 (118.70 to 119.70): V
Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 10.142 ppbv

RT: 7.03 min Scan# 1274

Delta R.T. -0.02 min

Lab File: VL032601.D

Acq: 11 Oct 2018 12:41

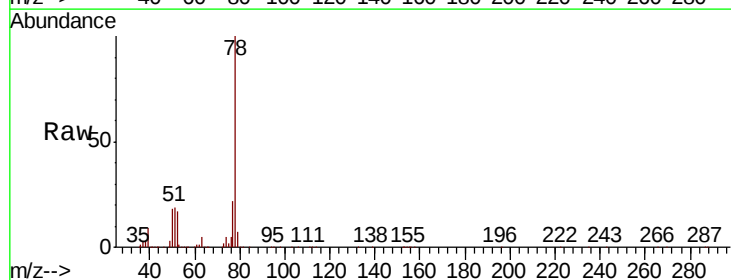
Tgt Ion: 78 Resp: 2865951

Ion Ratio Lower Upper

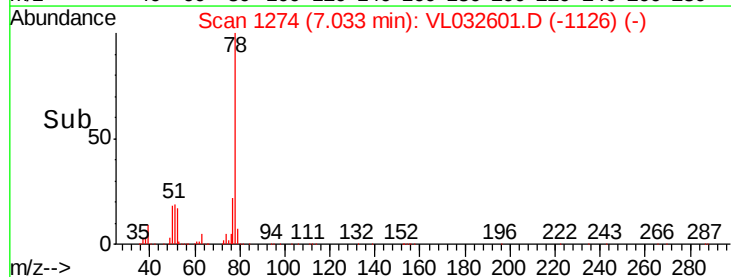
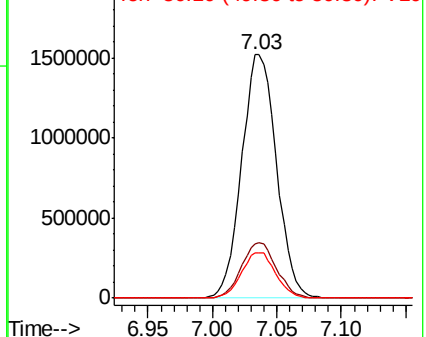
78 100

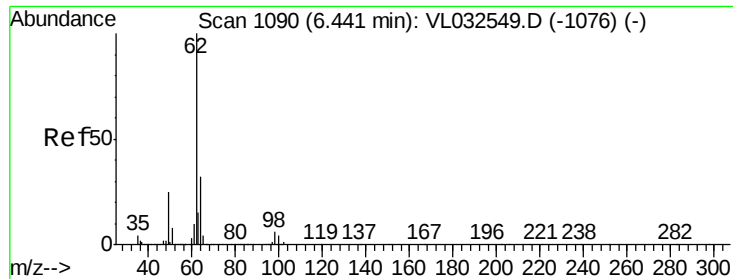
77 22.4 18.4 27.6

50 18.5 14.4 21.6



Abundance Ion 78.10 (77.80 to 78.80): VL0
2000000
Ion 77.10 (76.80 to 77.80): VL0
Ion 50.10 (49.80 to 50.80): VL0





#37

1,2-Dichloroethane

Concen: 10.115 ppbv

RT: 6.44 min Scan# 1090

Delta R.T. -0.02 min

Lab File: VL032601.D

Acq: 11 Oct 2018 12:41

Instrument :

MSVOA_L

ClientSampleId :

VL1011ABS01

Tot Ion: 62 Resp: 1722642

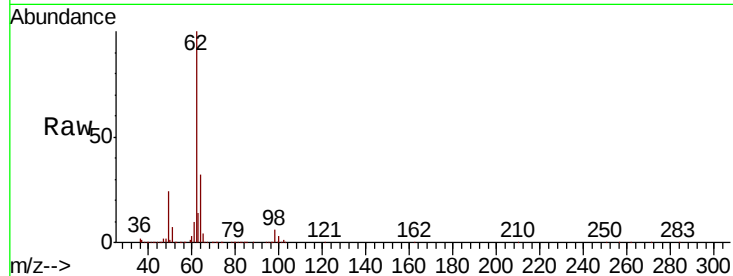
Ion Ratio Lower Upper

62 100

98 5.7 5.0 7.6

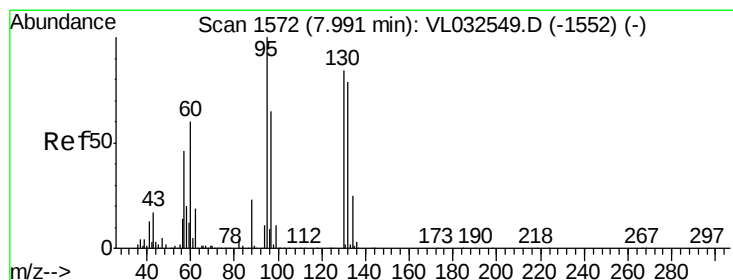
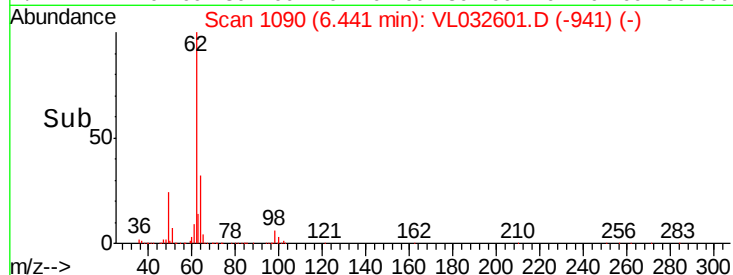
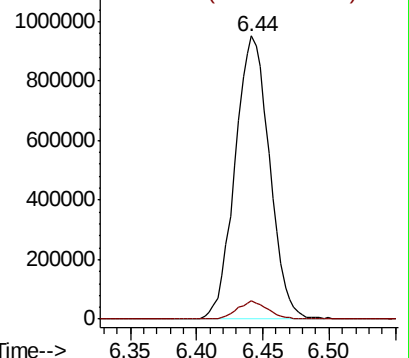
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Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 98.00 (97.70 to 98.70): VL0



#38

Trichloroethene

Concen: 10.095 ppbv

RT: 7.99 min Scan# 1572

Delta R.T. -0.02 min

Lab File: VL032601.D

Acq: 11 Oct 2018 12:41

Tgt Ion:130 Resp: 1091938

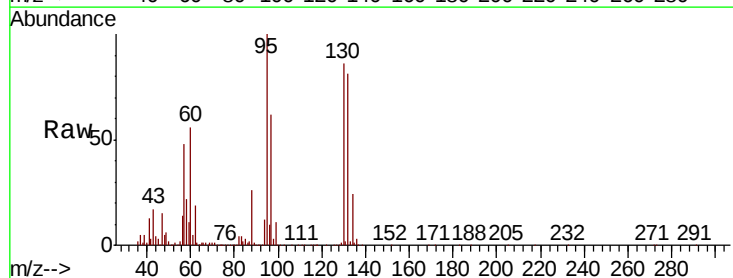
Ion Ratio Lower Upper

130 100

95 116.4 94.2 141.4

132 93.8 76.2 114.4

97 72.3 60.8 91.2

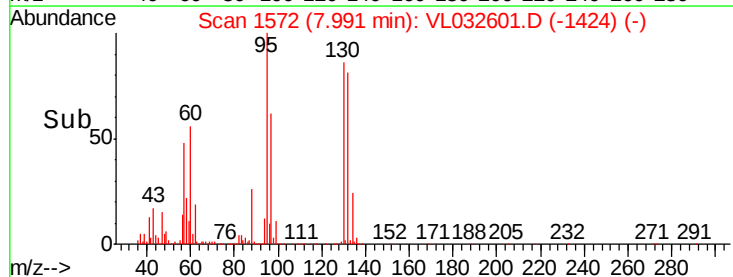
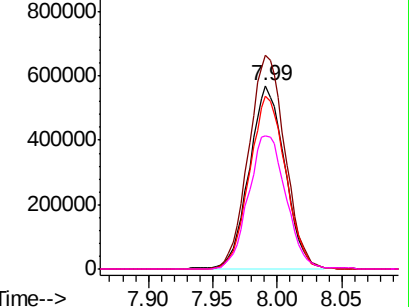


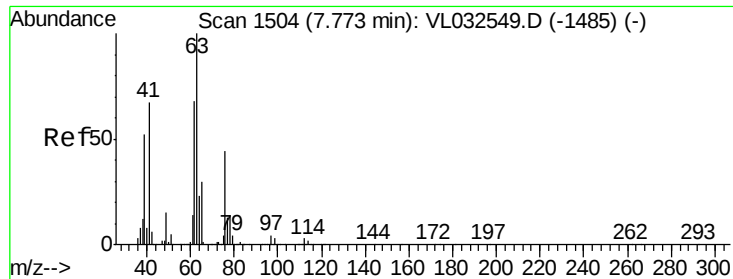
Abundance Ion 130.00 (129.70 to 130.70): V

Ion 95.00 (94.70 to 95.70): VL0

Ion 132.00 (131.70 to 132.70): V

Ion 97.00 (96.70 to 97.70): VL0





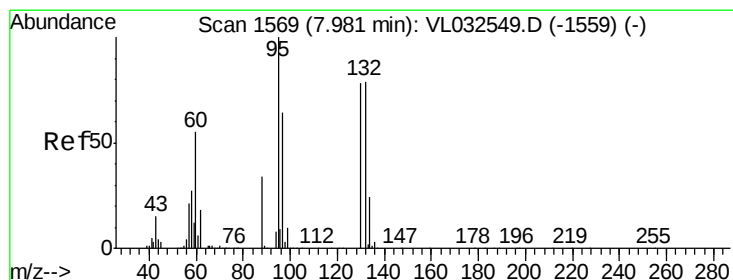
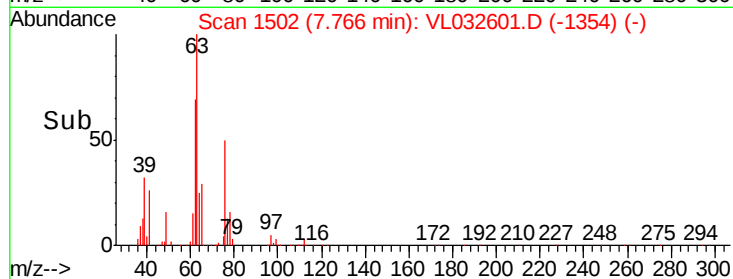
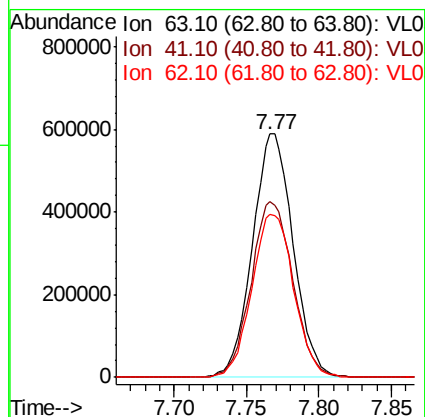
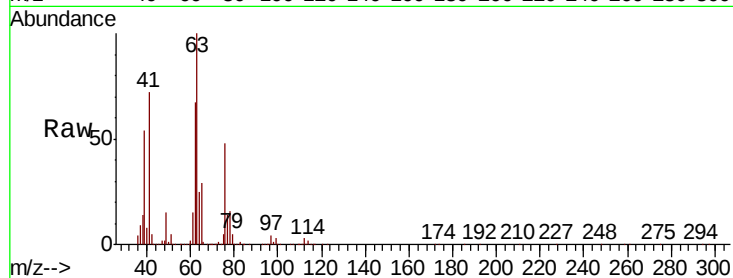
#39
 1,2-Dichloropropane
 Concen: 9.035 ppbv
 RT: 7.77 min Scan# 1502
 Delta R.T. -0.02 min
 Lab File: VL032601.D
 Acq: 11 Oct 2018 12:41

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1011ABS01

Tot Ion	Ratio	Lower	Upper
63	100		
41	72.2	55.4	83.0
62	66.9	55.4	83.0

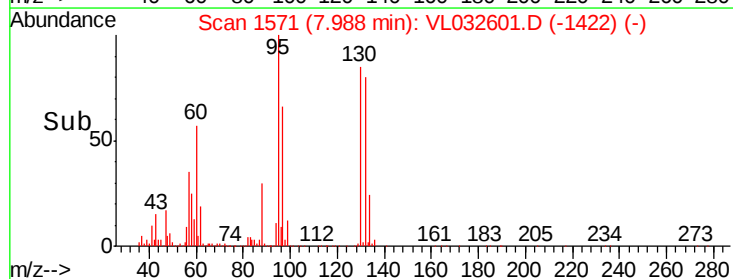
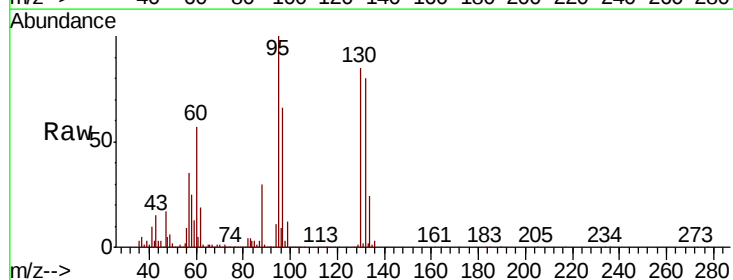
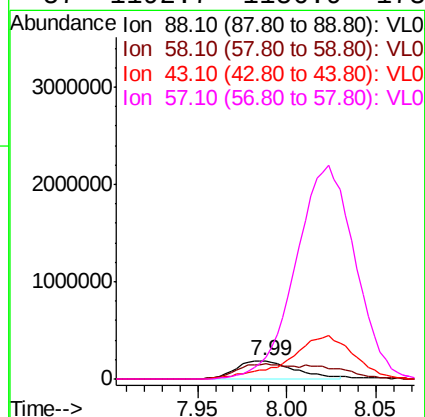
Manual Integrations
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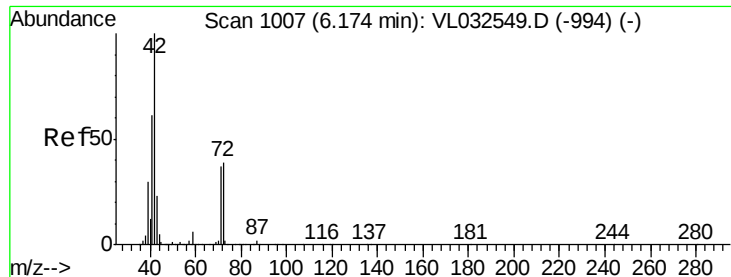
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#40
 1,4-Dioxane
 Concen: 10.910 ppbv
 RT: 7.99 min Scan# 1571
 Delta R.T. -0.02 min
 Lab File: VL032601.D
 Acq: 11 Oct 2018 12:41

Tgt Ion	Ratio	Lower	Upper
88	100		
58	137.0	119.7	179.5
43	262.7	253.0	379.4
57	1192.7	1156.9	1735.3





#41

Tetrahydrofuran

Concen: 9.647 ppbv

RT: 6.17 min Scan# 1007

Delta R.T. -0.02 min

Lab File: VL032601.D

Acq: 11 Oct 2018 12:41

Instrument :

MSVOA_L

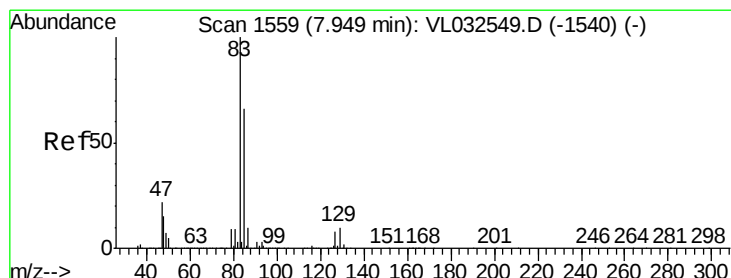
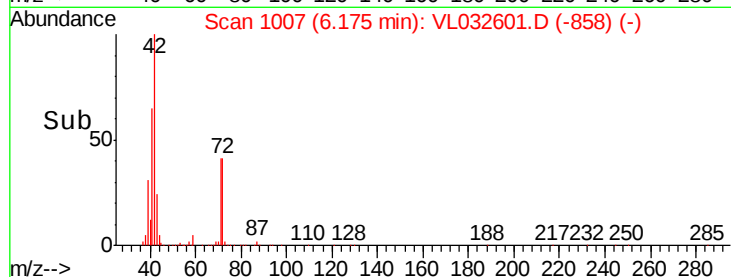
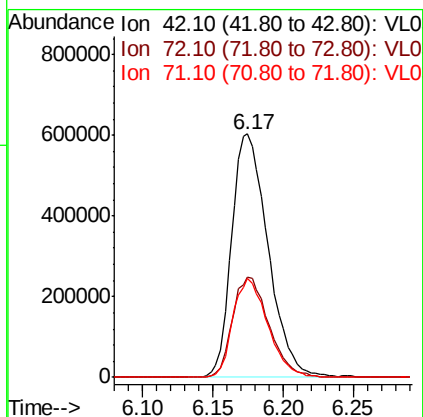
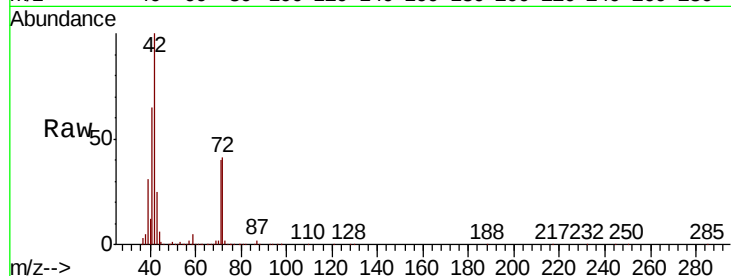
ClientSampleId :

VL1011ABS01

Tot Ion:	42	Resp:	1091404
Ion	Ratio	Lower	Upper
42	100		
72	41.1	29.5	44.3
71	39.2	28.3	42.5

Manual Integrations
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#42

Bromodichloromethane

Concen: 9.786 ppbv

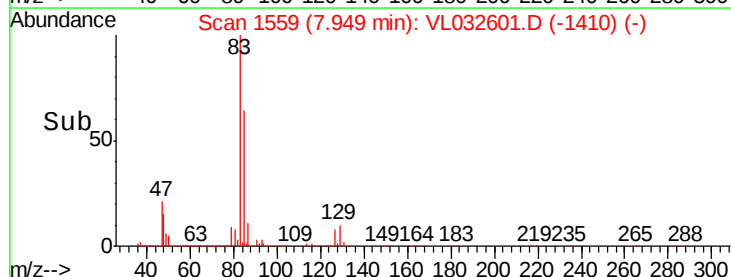
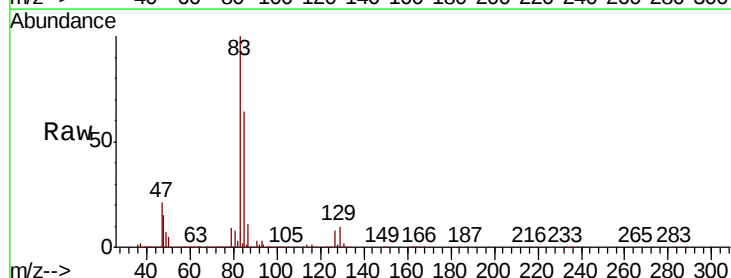
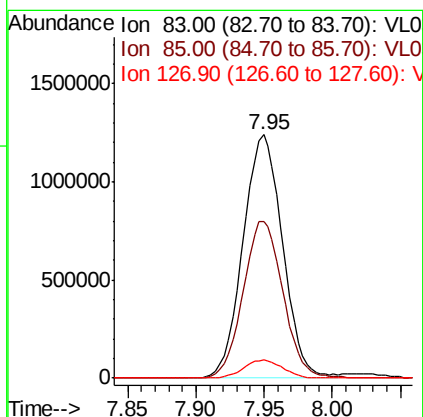
RT: 7.95 min Scan# 1559

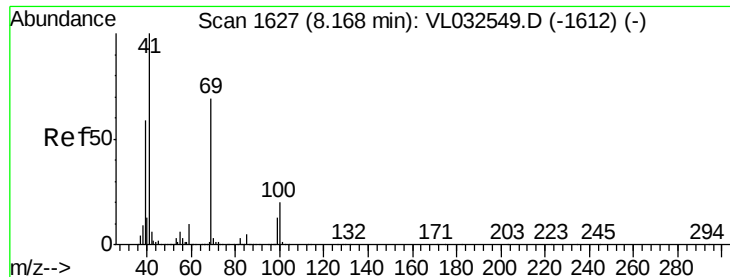
Delta R.T. -0.02 min

Lab File: VL032601.D

Acq: 11 Oct 2018 12:41

Tgt Ion:	83	Resp:	2496849
Ion	Ratio	Lower	Upper
83	100		
85	64.1	51.1	76.7
127	7.6	5.8	8.8





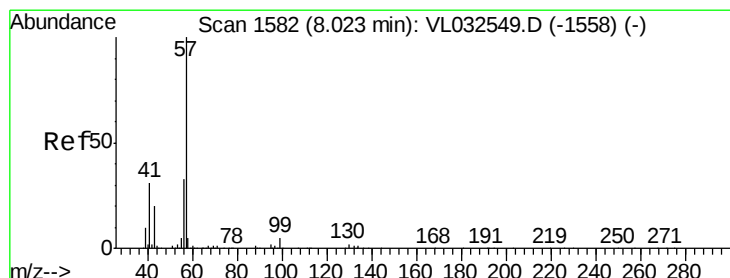
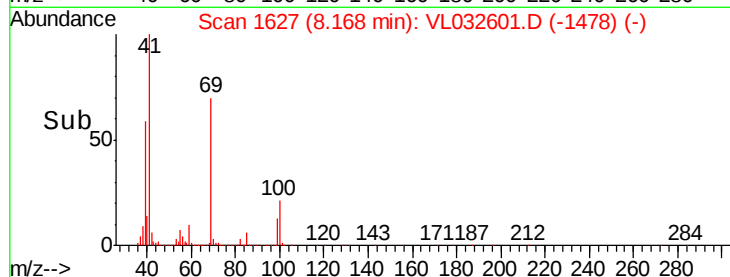
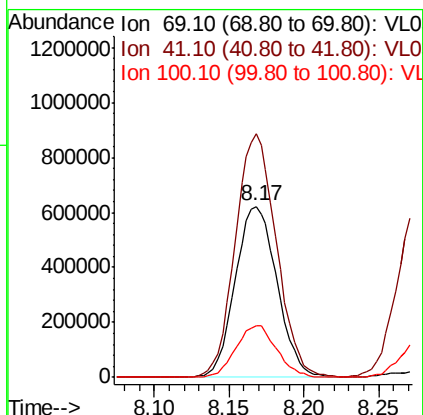
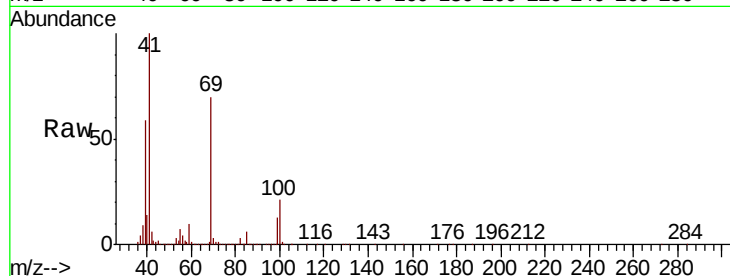
#43
Methvl Methacrylate
Concen: 10.212 ppbv
RT: 8.17 min Scan# 1627
Delta R.T. -0.02 min
Lab File: VL032601.D
Acq: 11 Oct 2018 12:41

Instrument :
MSVOA_L
ClientSampleId :
VL1011ABS01

Tot Ion: 69 Resp: 1205545
Ion Ratio Lower Upper
69 100
41 140.0 117.1 175.7
100 29.9 23.4 35.2

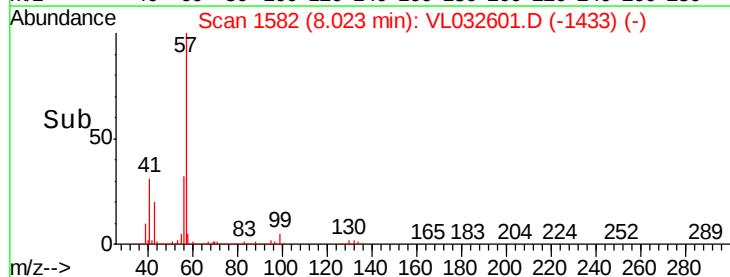
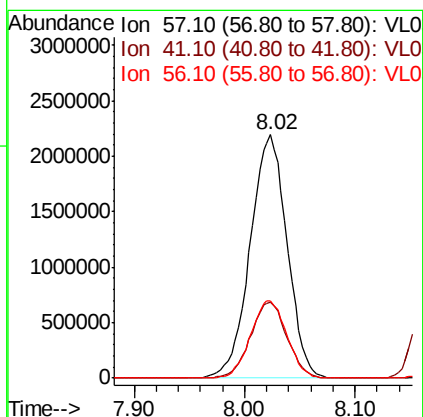
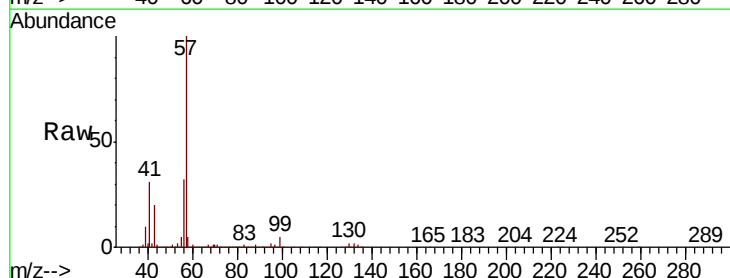
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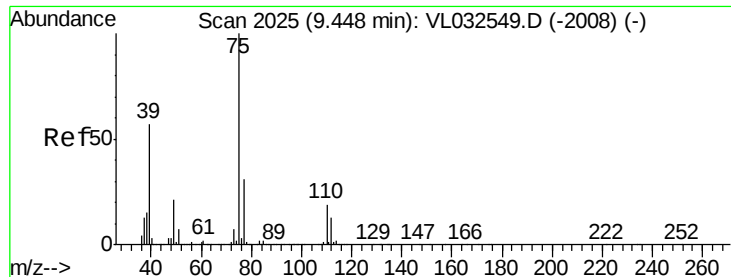
MMDadoda
10/12/2018 2:07:27 PM



#44
2,2,4-Trimethylpentane
Concen: 9.185 ppbv
RT: 8.02 min Scan# 1582
Delta R.T. -0.02 min
Lab File: VL032601.D
Acq: 11 Oct 2018 12:41

Tgt Ion: 57 Resp: 5072707
Ion Ratio Lower Upper
57 100
41 30.9 24.4 36.6
56 31.5 25.7 38.5





#45

t-1,3-Dichloropropene

Concen: 10.277 ppbv

RT: 9.45 min Scan# 2025

Delta R.T. -0.02 min

Lab File: VL032601.D

Acq: 11 Oct 2018 12:41

Tot Ion: 75 Resp: 1509171

Ion Ratio Lower Upper

75 100

77 32.4 26.2 39.2

Instrument :

MSVOA_L

ClientSampleId :

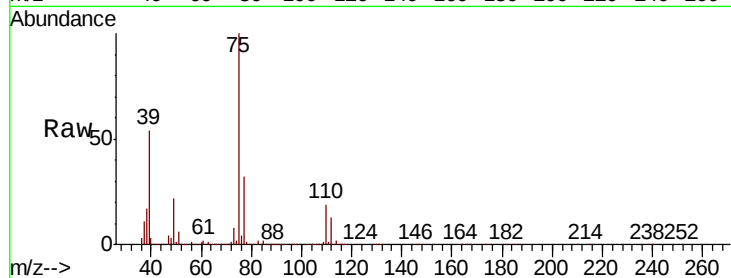
VL1011ABS01

Manual Integrations

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Abundance Ion 75.10 (74.80 to 75.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

9.45

800000

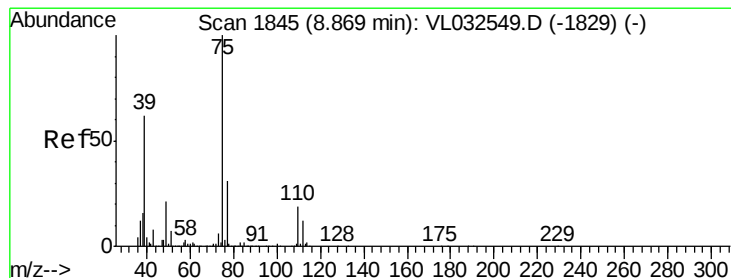
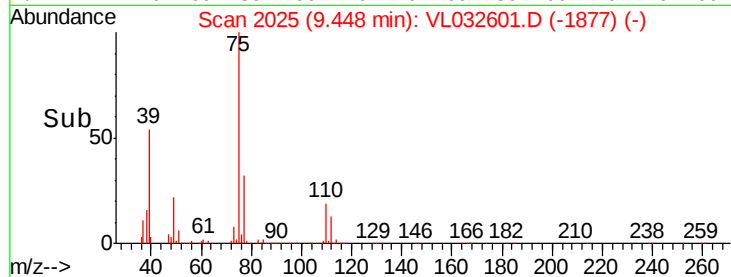
600000

400000

200000

0

Time--> 9.35 9.40 9.45 9.50 9.55



#46

cis-1,3-Dichloropropene

Concen: 10.486 ppbv

RT: 8.87 min Scan# 1844

Delta R.T. -0.02 min

Lab File: VL032601.D

Acq: 11 Oct 2018 12:41

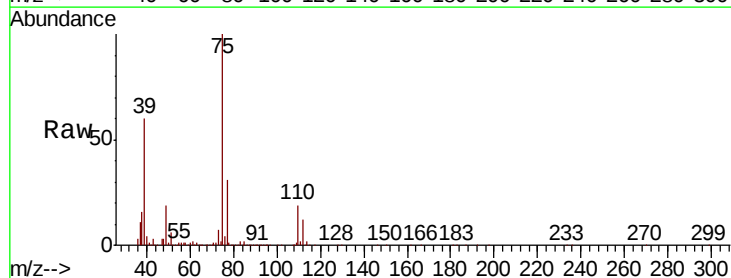
Tgt Ion: 75 Resp: 1806062

Ion Ratio Lower Upper

75 100

39 59.6 48.9 73.3

77 31.4 25.4 38.0



Abundance Ion 75.00 (74.70 to 75.70): VL0

Ion 39.00 (38.70 to 39.70): VL0

Ion 77.00 (76.70 to 77.70): VL0

1200000

1000000

800000

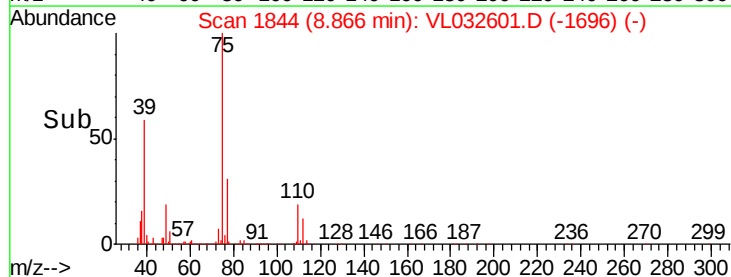
600000

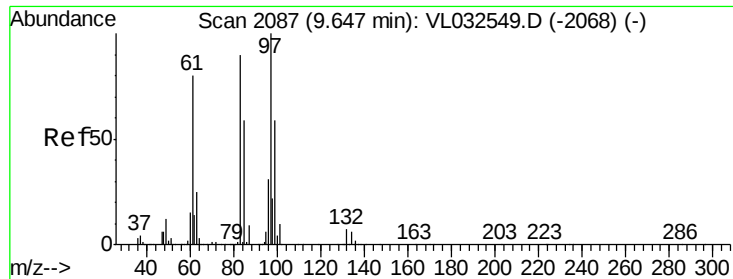
400000

200000

0

Time--> 8.75 8.80 8.85 8.90 8.95





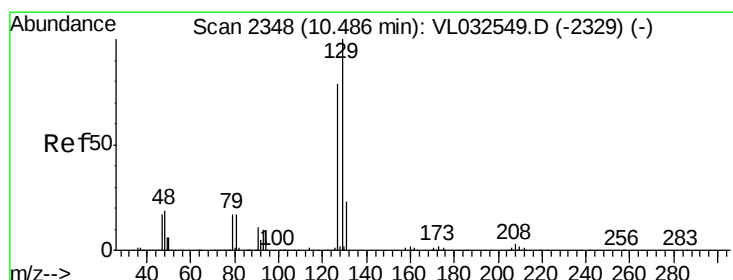
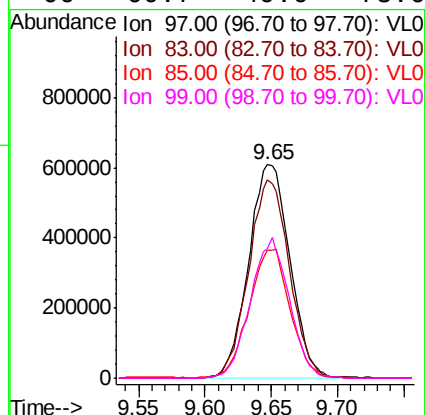
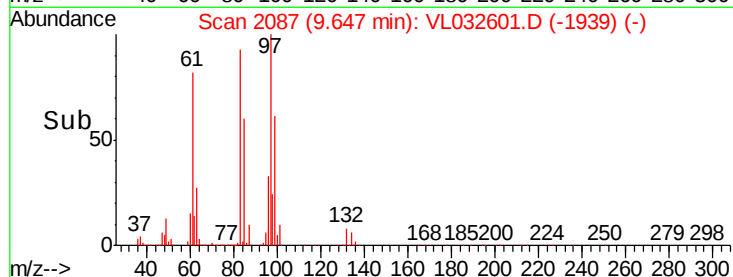
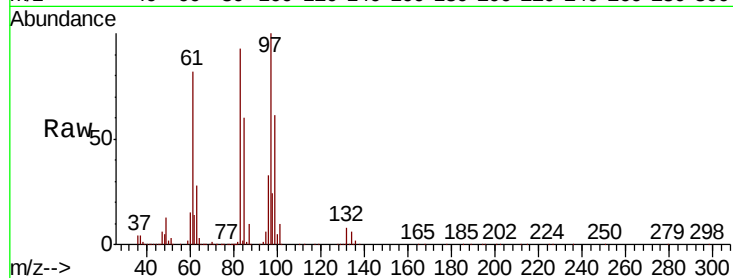
#47
 1,1,2-Trichloroethane
 Concen: 9.311 ppbv
 RT: 9.65 min Scan# 2087
 Delta R.T. -0.02 min
 Lab File: VL032601.D
 Acq: 11 Oct 2018 12:41

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1011ABS01

Tot Ion	Ratio	Lower	Upper
97	100		
83	92.8	75.0	112.4
85	59.6	47.5	71.3
99	60.7	49.0	73.6

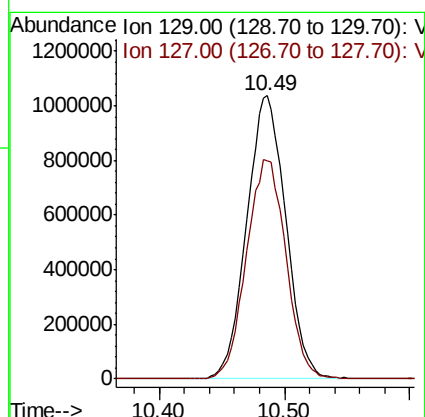
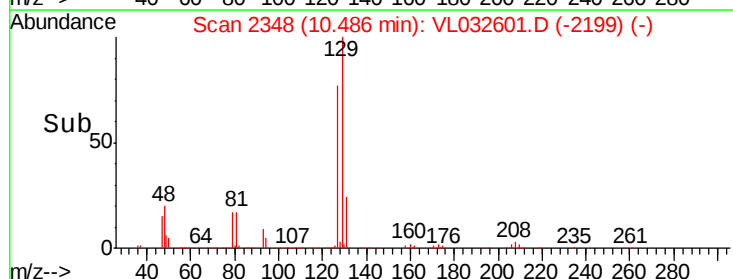
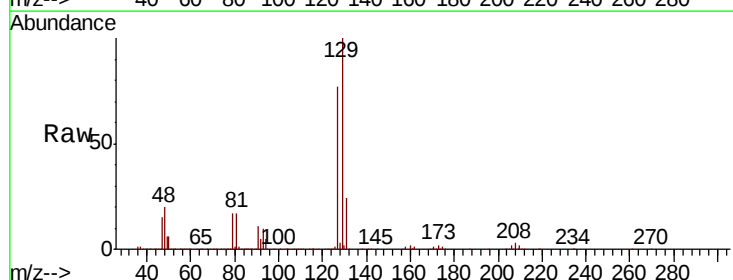
Manual Integrations
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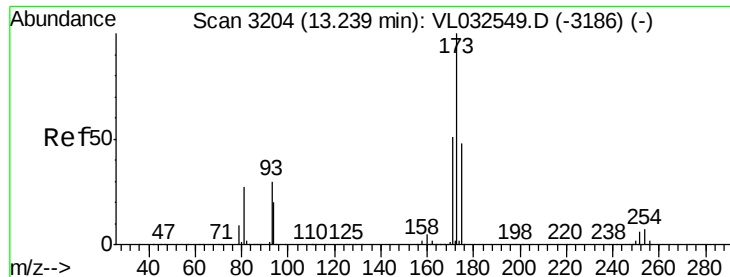
MMDadoda
 10/12/2018 2:07:27 PM



#48
 Dibromochloromethane
 Concen: 10.079 ppbv
 RT: 10.49 min Scan# 2348
 Delta R.T. -0.02 min
 Lab File: VL032601.D
 Acq: 11 Oct 2018 12:41

Tgt Ion	Ratio	Lower	Upper
129	100		
127	78.5	39.5	118.3





#49

Bromoform

Concen: 10.394 ppbv

RT: 13.24 min Scan# 3203

Delta R.T. -0.02 min

Lab File: VL032601.D

Acq: 11 Oct 2018 12:41

Instrument :

MSVOA_L

ClientSampleId :

VL1011ABS01

Tot Ion:173 Resp: 1766291

Ion Ratio Lower Upper

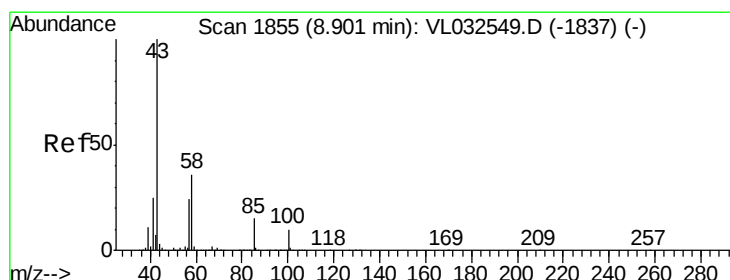
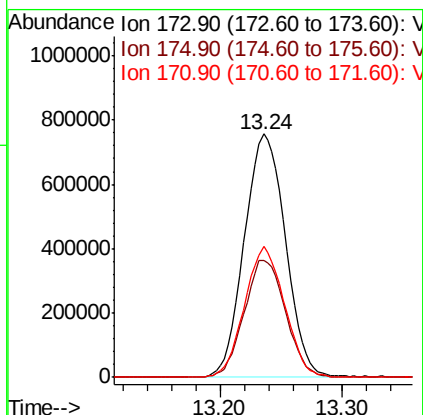
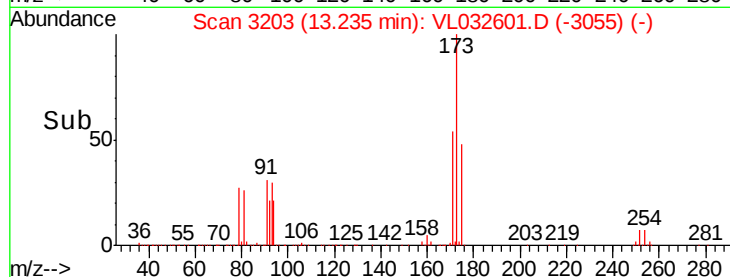
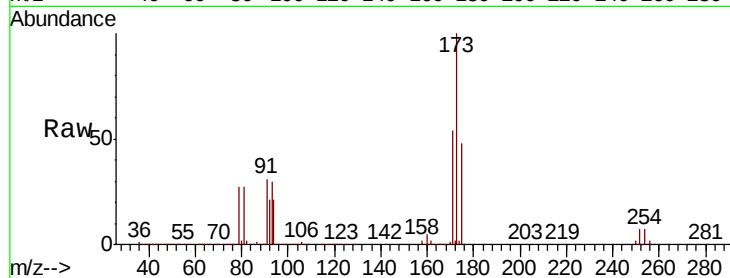
173 100

175 48.8 38.9 58.3

171 52.2 41.6 62.4

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#50

4-Methyl-2-Pentanone

Concen: 9.100 ppbv

RT: 8.90 min Scan# 1855

Delta R.T. -0.02 min

Lab File: VL032601.D

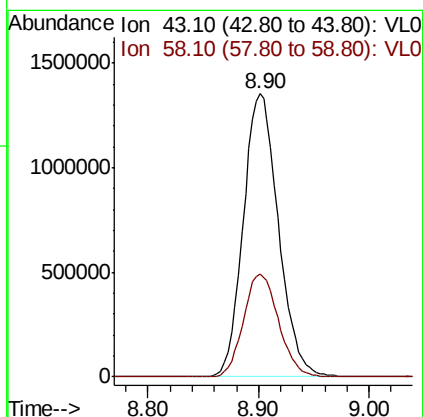
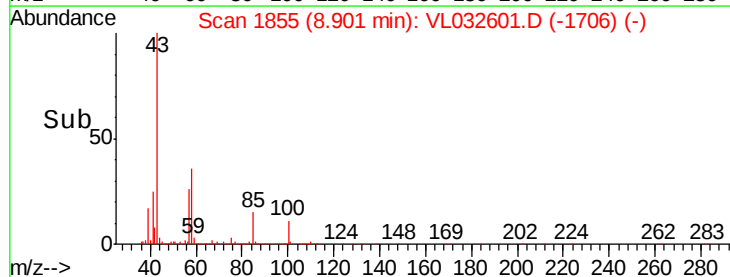
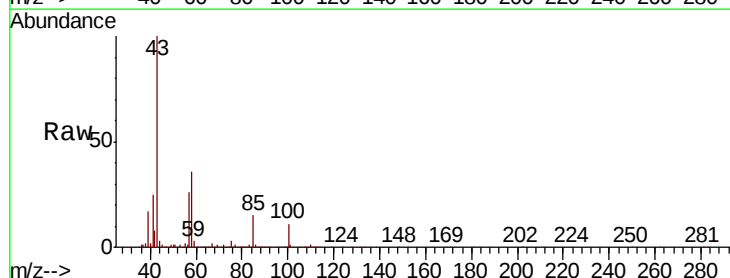
Acq: 11 Oct 2018 12:41

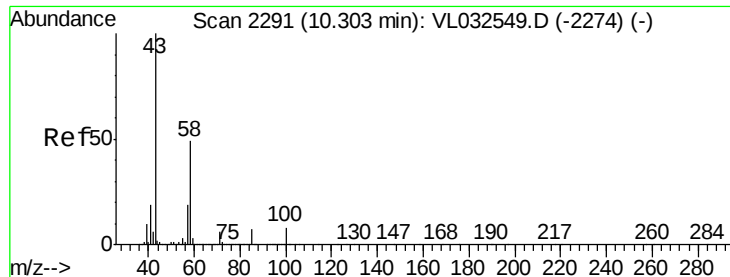
Tgt Ion: 43 Resp: 2978471

Ion Ratio Lower Upper

43 100

58 36.5 29.0 43.4





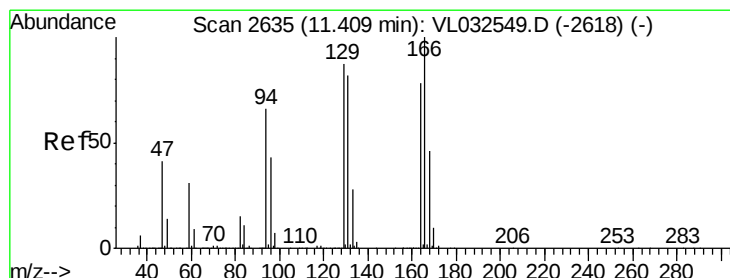
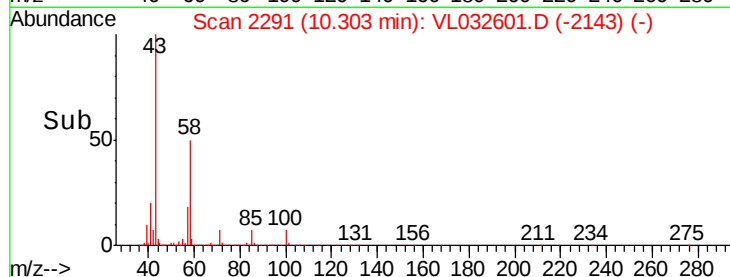
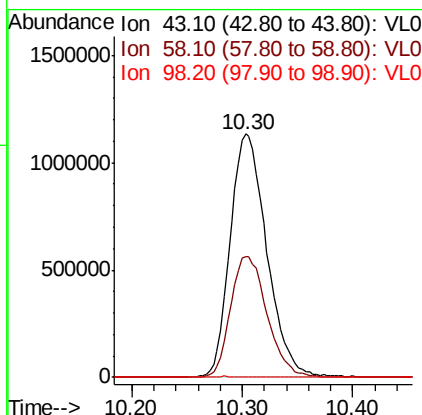
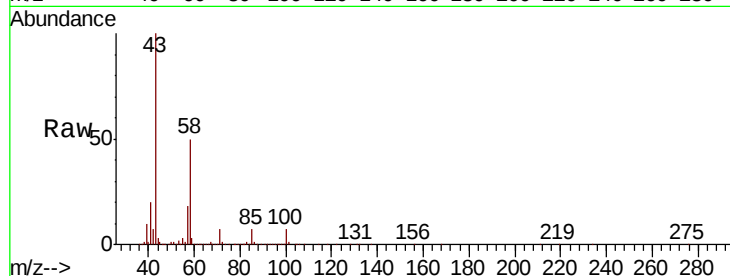
#51
2-Hexanone
Concen: 9.613 ppbv
RT: 10.30 min Scan# 2291
Delta R.T. -0.02 min
Lab File: VL032601.D
Acq: 11 Oct 2018 12:41

Instrument :
MSVOA_L
ClientSampleId :
VL1011ABS01

Tot Ion	Ratio	Lower	Upper
43	100		
58	49.8	39.2	58.8
98	0.6	0.4	0.6

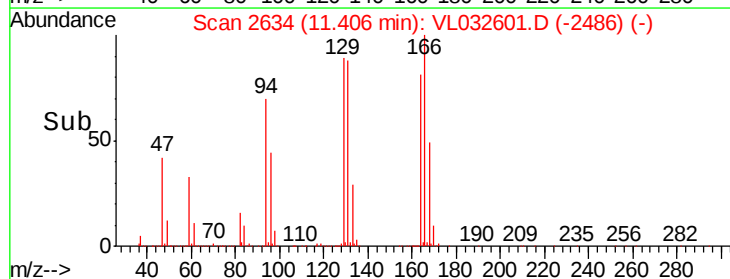
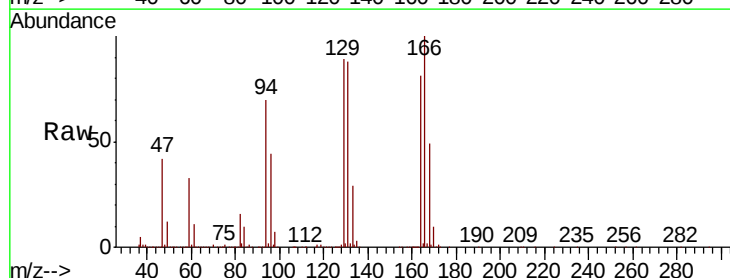
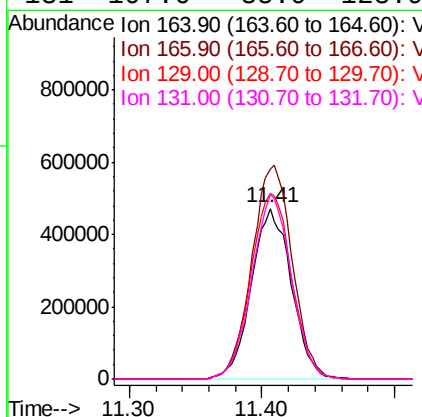
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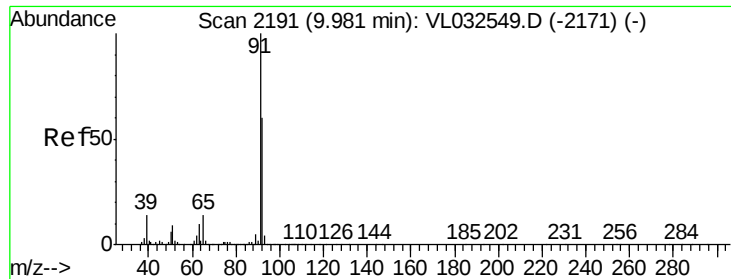
MMDadoda
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#52
Tetrachloroethene
Concen: 10.045 ppbv
RT: 11.41 min Scan# 2634
Delta R.T. -0.02 min
Lab File: VL032601.D
Acq: 11 Oct 2018 12:41

Tgt Ion	Ratio	Lower	Upper
164	100		
166	122.8	100.6	150.8
129	109.0	89.9	134.9
131	107.6	85.9	128.9





#53

Toluene

Concen: 10.536 ppbv

RT: 9.98 min Scan# 2191

Delta R.T. -0.02 min

Lab File: VL032601.D

Acq: 11 Oct 2018 12:41

Instrument :

MSVOA_L

ClientSampleId :

VL1011ABS01

Tot Ion: 91 Resp: 3628397

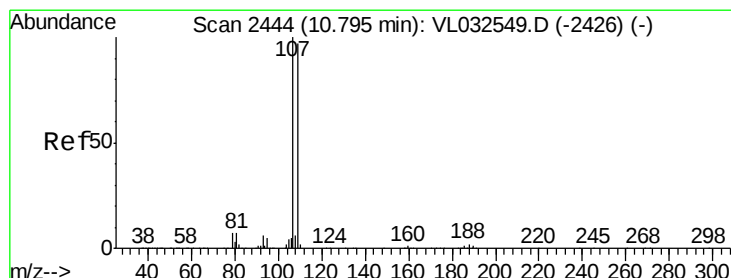
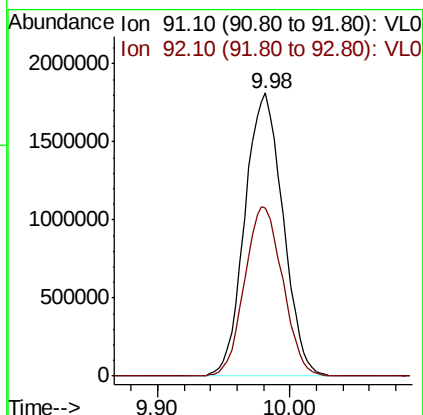
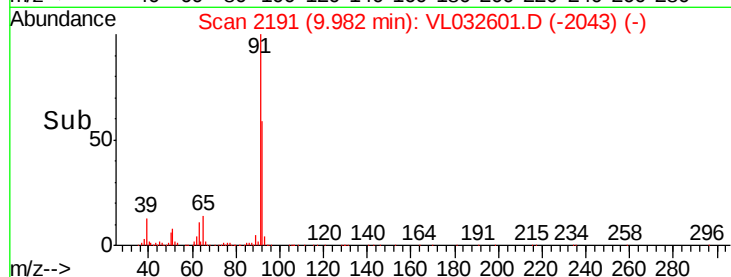
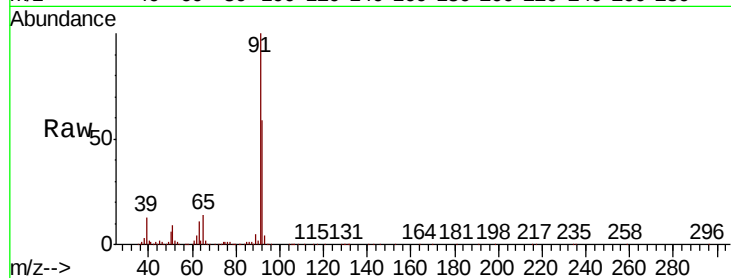
Ion Ratio Lower Upper

91 100

92 59.8 48.1 72.1

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#54

1,2-Dibromoethane

Concen: 9.997 ppbv

RT: 10.79 min Scan# 2444

Delta R.T. -0.02 min

Lab File: VL032601.D

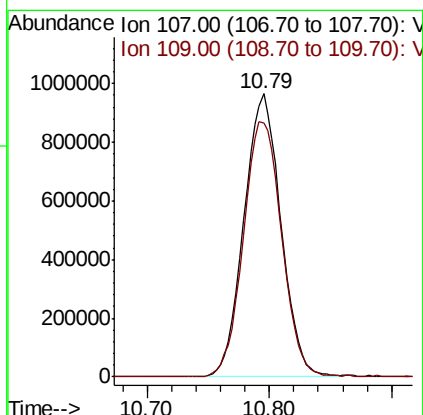
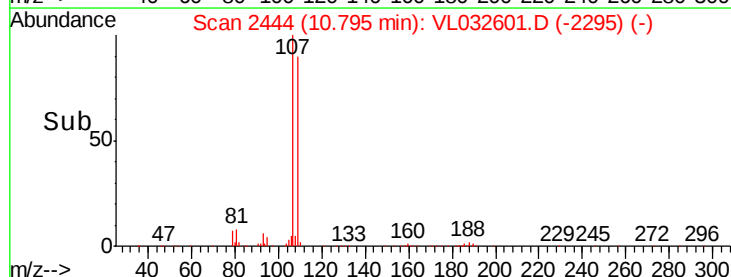
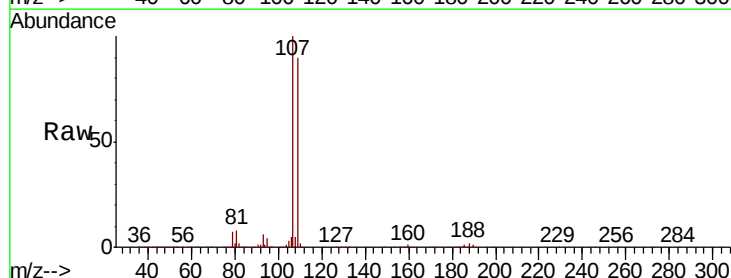
Acq: 11 Oct 2018 12:41

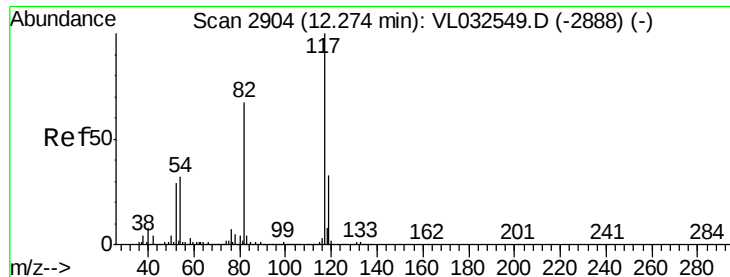
Tgt Ion: 107 Resp: 2011109

Ion Ratio Lower Upper

107 100

109 89.7 73.9 110.9





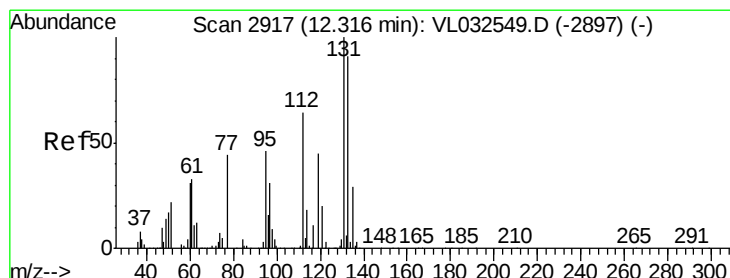
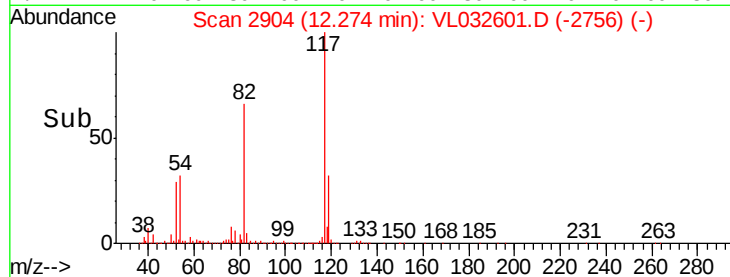
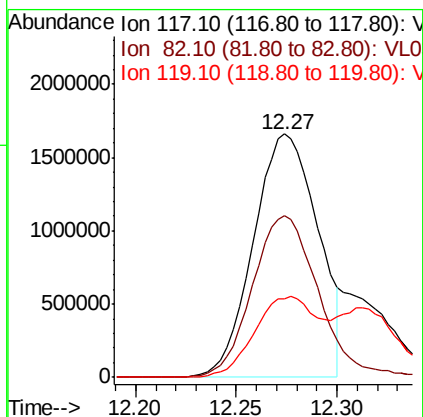
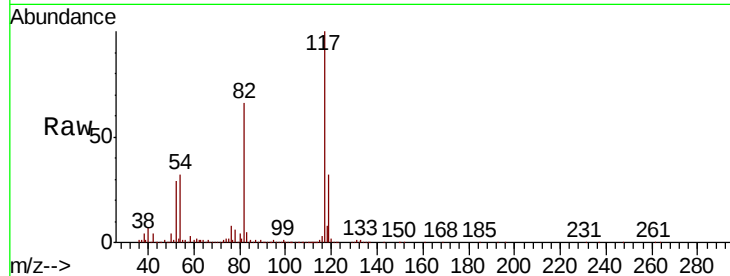
#55
Chlorobenzene-d5
Concen: 10.000 ppbv m
RT: 12.27 min Scan# 2904
Delta R.T. -0.02 min
Lab File: VL032601.D
Acq: 11 Oct 2018 12:41

Instrument :
MSVOA_L
ClientSampleId :
VL1011ABS01

Tot Ion:117 Resp: 3692420
Ion Ratio Lower Upper
117 100
82 68.6 53.0 79.6
119 36.1 45.9 68.9#

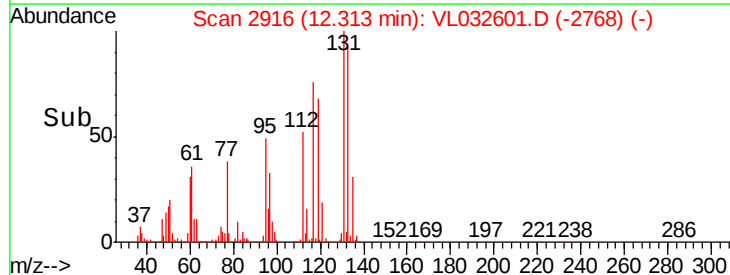
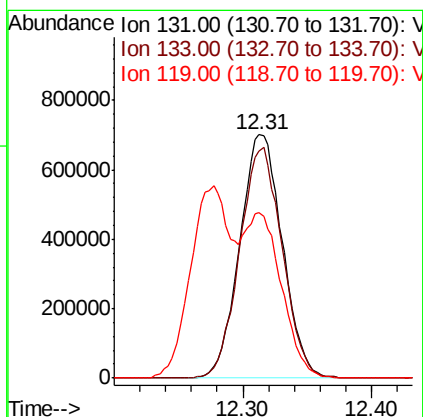
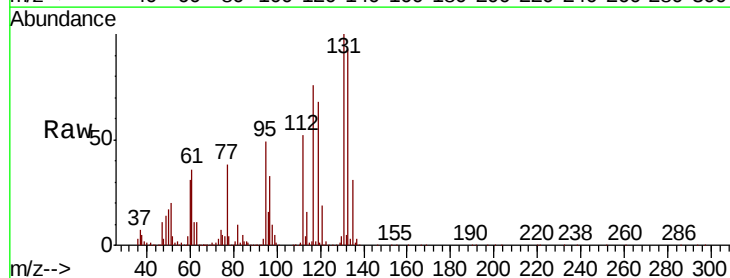
Manual Integrations
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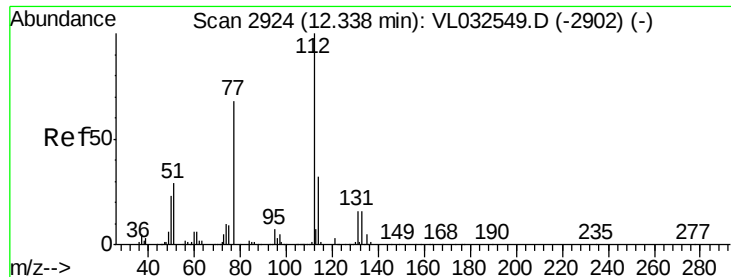
MMDadoda
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#56
1,1,1,2-Tetrachloroethane
Concen: 9.707 ppbv
RT: 12.31 min Scan# 2916
Delta R.T. -0.02 min
Lab File: VL032601.D
Acq: 11 Oct 2018 12:41

Tgt Ion:131 Resp: 1611109
Ion Ratio Lower Upper
131 100
133 94.8 77.0 115.4
119 60.2 114.2 171.2#





#57

Chlorobenzene

Concen: 9.184 ppbv

RT: 12.34 min Scan# 2923

Delta R.T. -0.02 min

Lab File: VL032601.D

Acq: 11 Oct 2018 12:41

Instrument :

MSVOA_L

ClientSampleId :

VL1011ABS01

Tot Ion: 112 Resp: 2731680

Ion Ratio Lower Upper

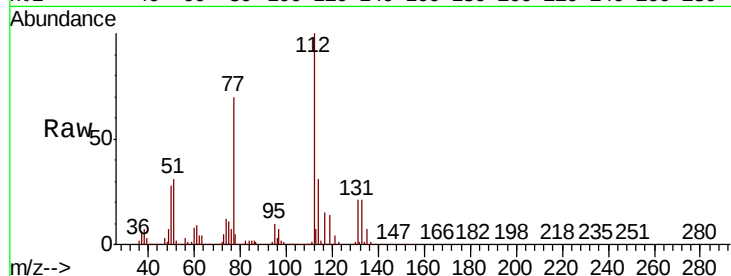
112 100

77 69.9 56.1 84.1

114 31.3 27.8 34.0

Manual Integrations
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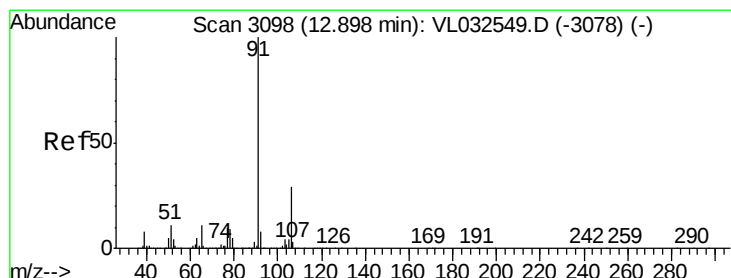
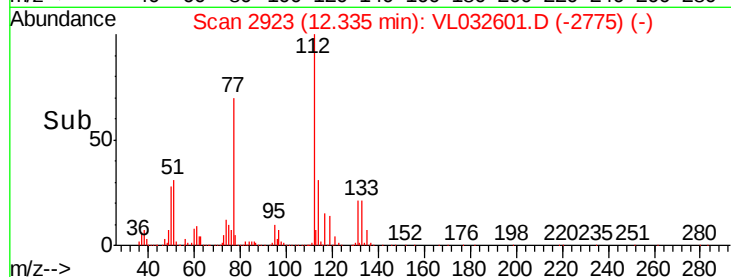
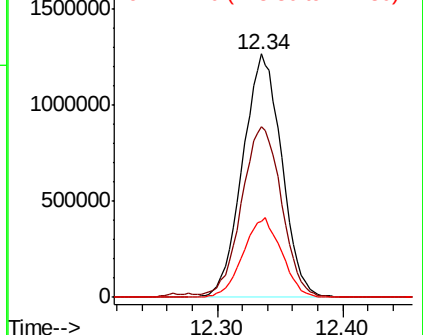
MMDadoda
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Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 10.128 ppbv

RT: 12.90 min Scan# 3098

Delta R.T. -0.02 min

Lab File: VL032601.D

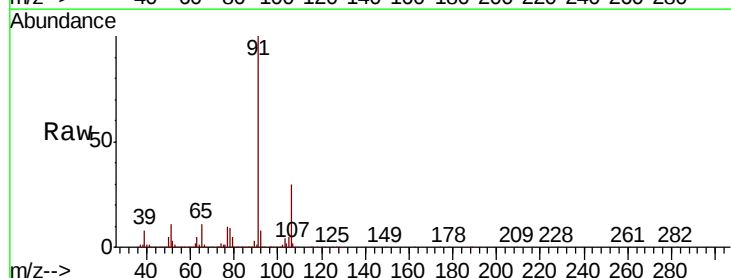
Acq: 11 Oct 2018 12:41

Tgt Ion: 91 Resp: 4536396

Ion Ratio Lower Upper

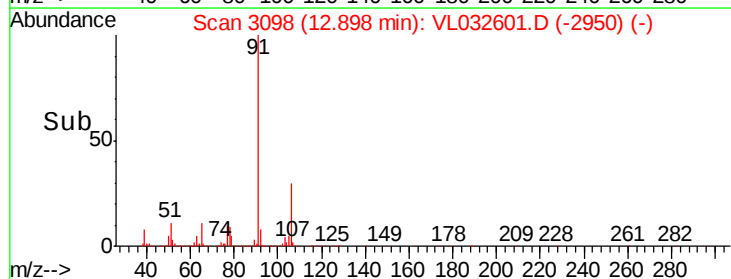
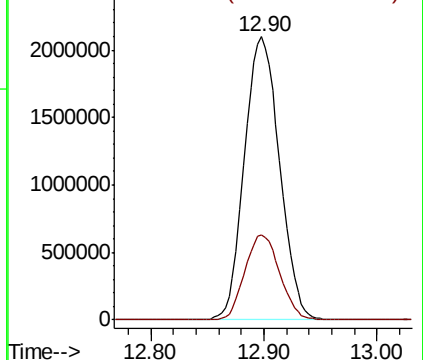
91 100

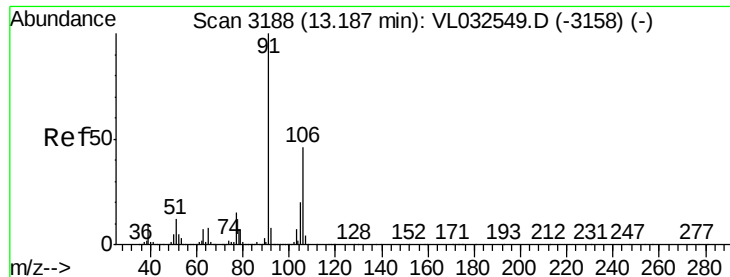
106 29.9 24.8 37.2



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





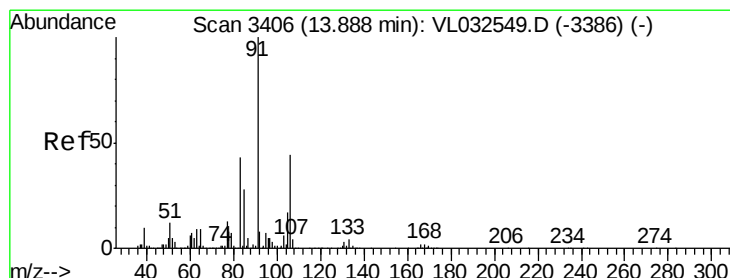
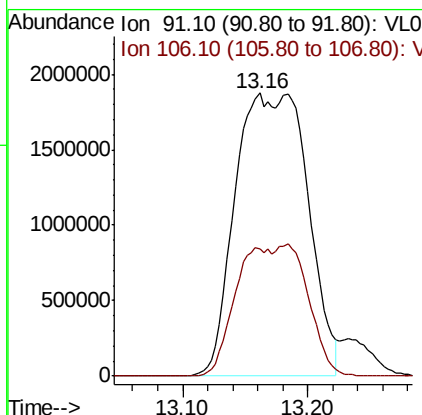
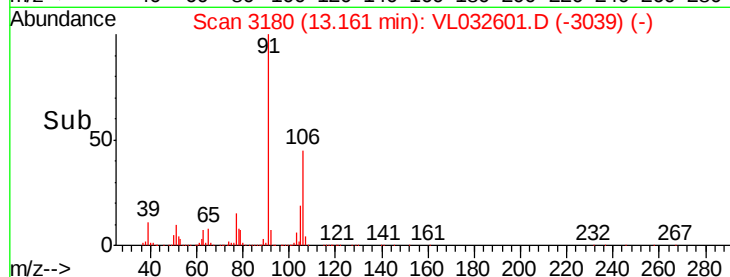
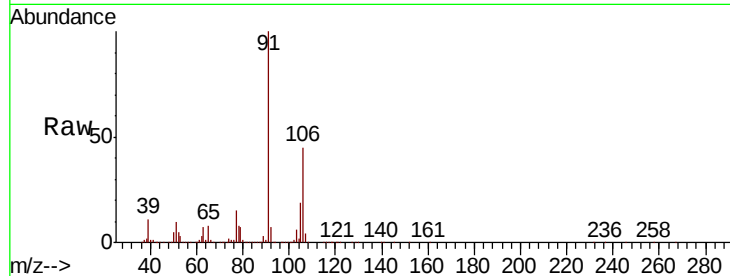
#59
m/p-Xylene
Concen: 18.862 ppbv m
RT: 13.16 min Scan# 3180
Delta R.T. -0.05 min
Lab File: VL032601.D
Acq: 11 Oct 2018 12:41

Instrument :
MSVOA_L
ClientSampleId :
VL1011ABS01

Tot Ion: 91 Resp: 7516563
Ion Ratio Lower Upper
91 100
106 45.4 36.6 55.0

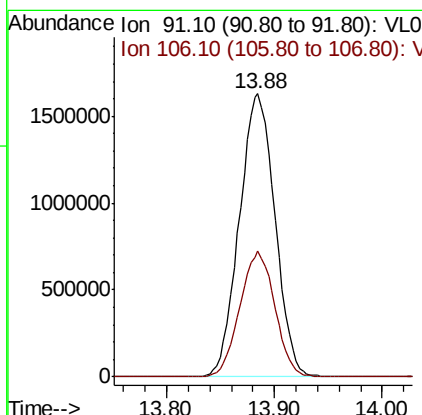
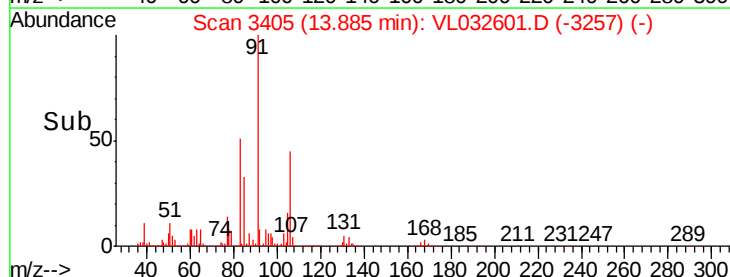
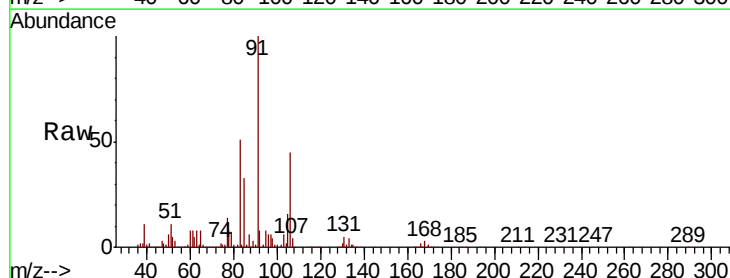
Manual Integrations
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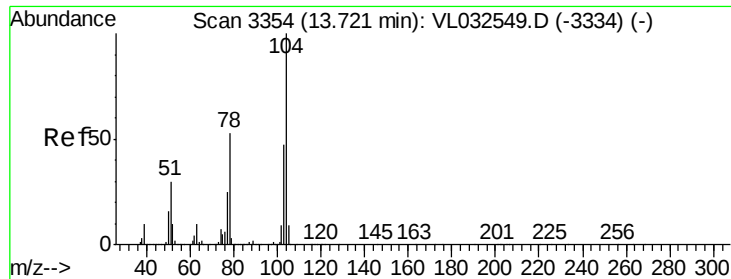
MMDadoda
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#60
o-Xylene
Concen: 9.643 ppbv
RT: 13.88 min Scan# 3405
Delta R.T. -0.02 min
Lab File: VL032601.D
Acq: 11 Oct 2018 12:41

Tgt Ion: 91 Resp: 3741266
Ion Ratio Lower Upper
91 100
106 43.6 21.9 65.7





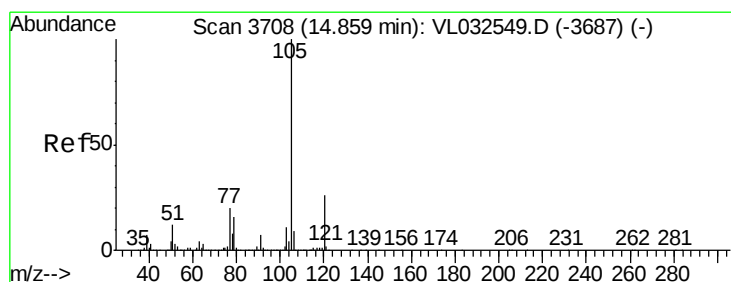
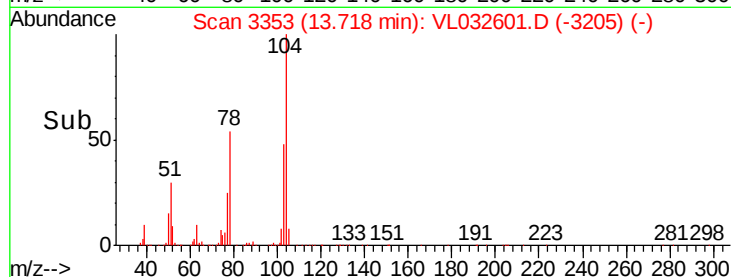
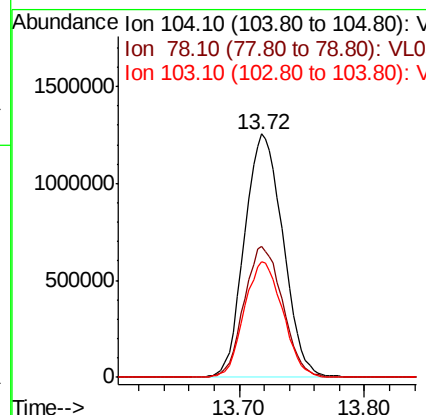
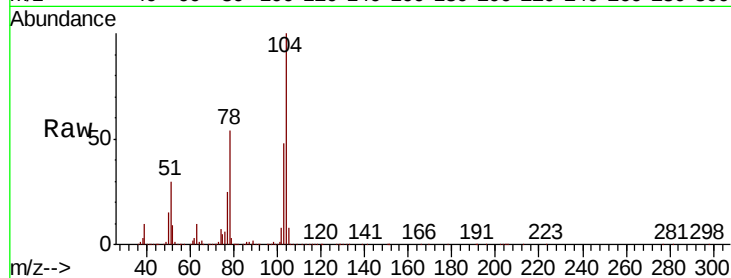
#61
Stvrene
Concen: 10.567 ppbv
RT: 13.72 min Scan# 3353
Delta R.T. -0.02 min
Lab File: VL032601.D
Acq: 11 Oct 2018 12:41

Instrument :
MSVOA_L
ClientSampleId :
VL1011ABS01

Tot Ion:104 Resp: 2681934
Ion Ratio Lower Upper
104 100
78 53.8 41.8 62.8
103 47.4 38.0 57.0

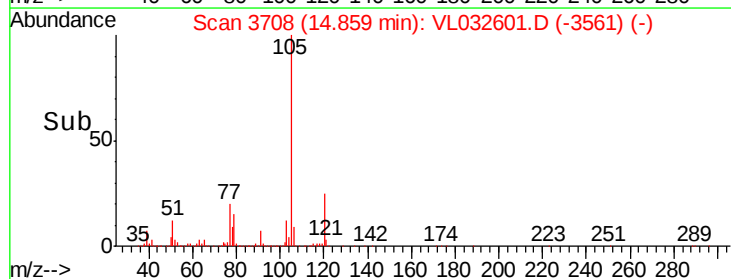
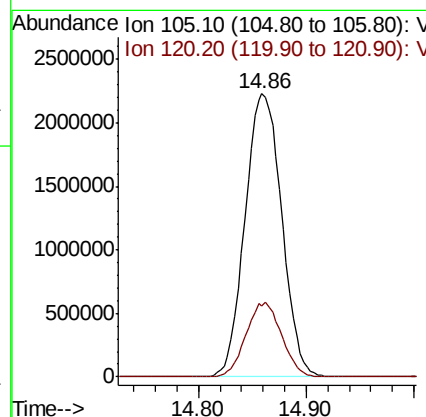
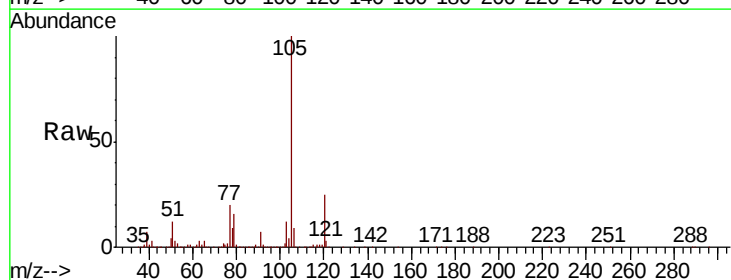
Manual Integrations
APPROVED

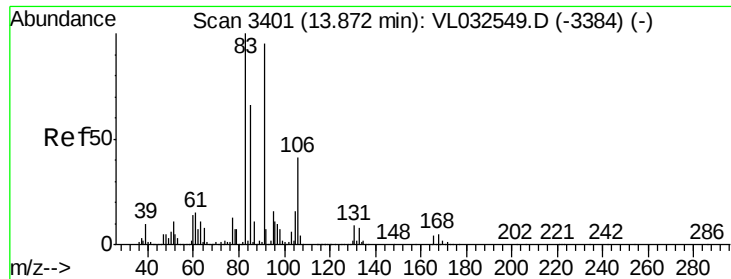
MMDadoda
10/12/2018 2:07:27 PM



#62
Isopropylbenzene
Concen: 9.614 ppbv
RT: 14.86 min Scan# 3708
Delta R.T. -0.03 min
Lab File: VL032601.D
Acq: 11 Oct 2018 12:41

Tgt Ion:105 Resp: 5274989
Ion Ratio Lower Upper
105 100
120 25.5 20.6 31.0





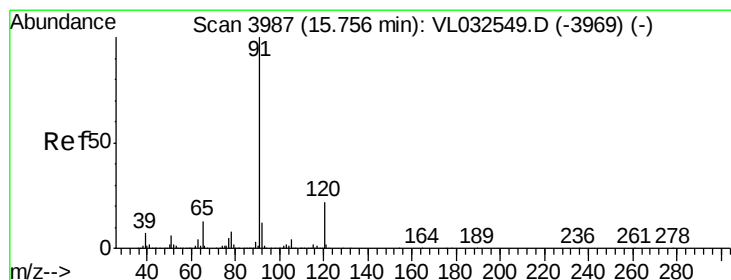
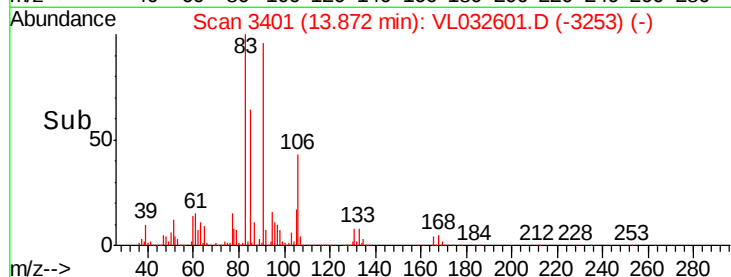
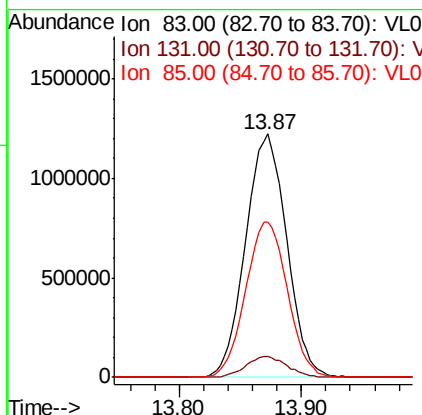
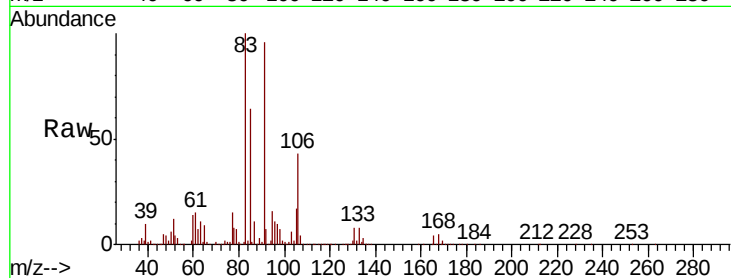
#63
 1,1,2,2-Tetrachloroethane
 Concen: 8.283 ppbv
 RT: 13.87 min Scan# 3401
 Delta R.T. -0.02 min
 Lab File: VL032601.D
 Acq: 11 Oct 2018 12:41

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1011ABS01

Tot Ion	83	Resp	2855044
Ion Ratio	100	Lower	Upper
83	100		
131	8.6	4.3	12.8
85	65.2	32.3	96.8

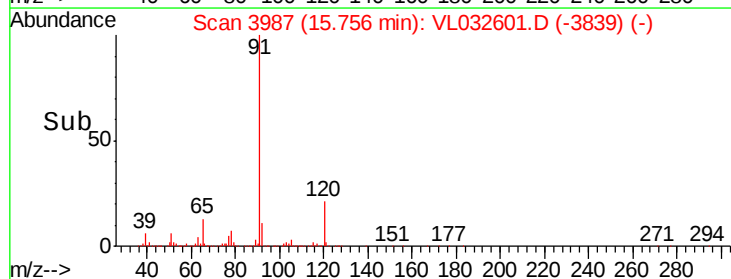
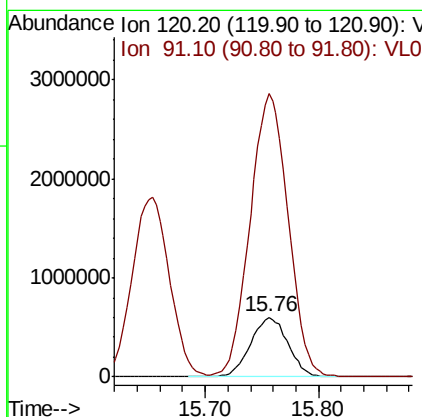
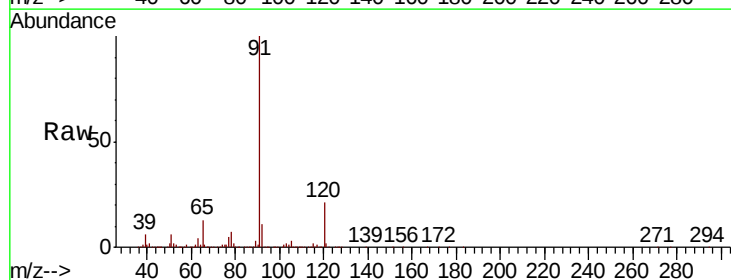
Manual Integrations
 APPROVED

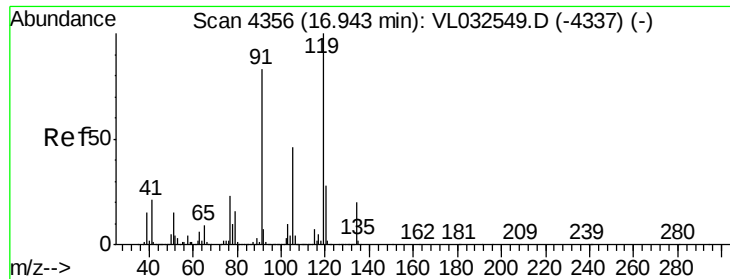
MMDadoda
 10/12/2018 2:07:27 PM



#64
 n-propylbenzene
 Concen: 9.763 ppbv
 RT: 15.76 min Scan# 3987
 Delta R.T. -0.02 min
 Lab File: VL032601.D
 Acq: 11 Oct 2018 12:41

Tgt Ion	120	Resp	1376237
Ion Ratio	100	Lower	Upper
120	100		
91	484.4	381.8	572.6





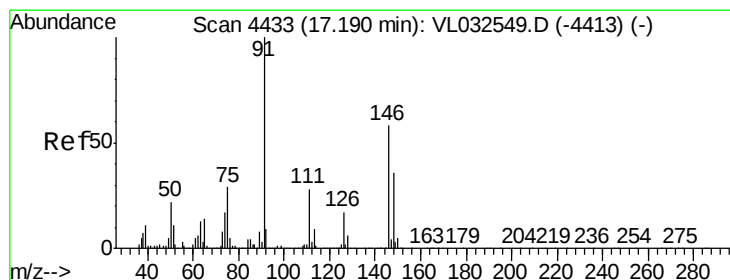
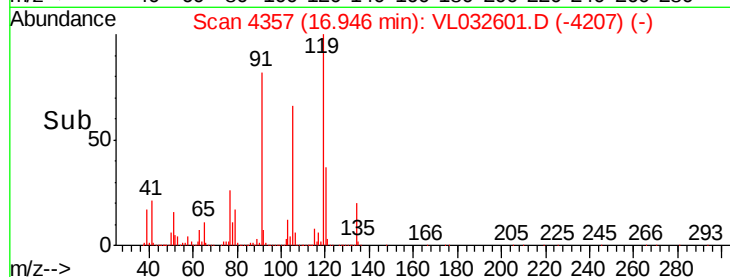
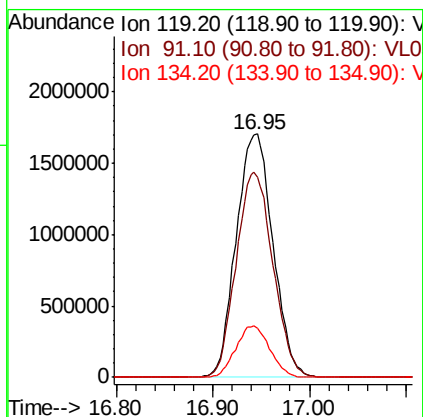
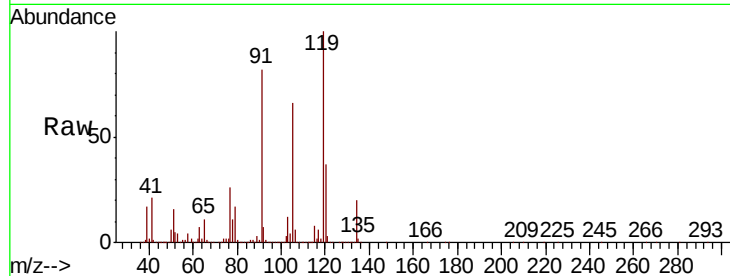
#65
tert-Butylbenzene
Concen: 9.545 ppbv
RT: 16.95 min Scan# 4357
Delta R.T. -0.02 min
Lab File: VL032601.D
Acq: 11 Oct 2018 12:41

Instrument :
MSVOA_L
ClientSampleId :
VL1011ABS01

Tot Ion:119 Resp: 4488873
Ion Ratio Lower Upper
119 100
91 84.7 66.5 99.7
134 19.7 16.0 24.0

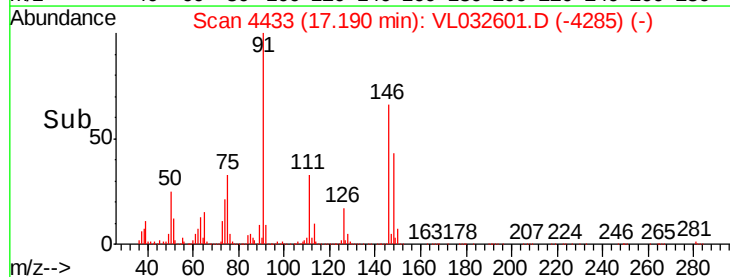
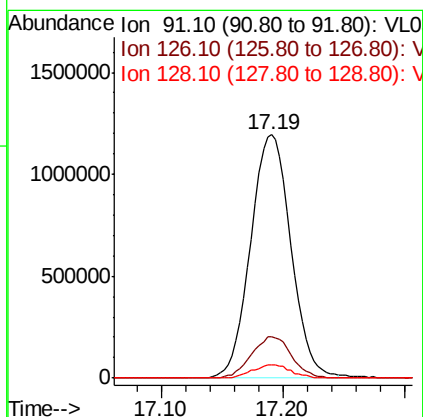
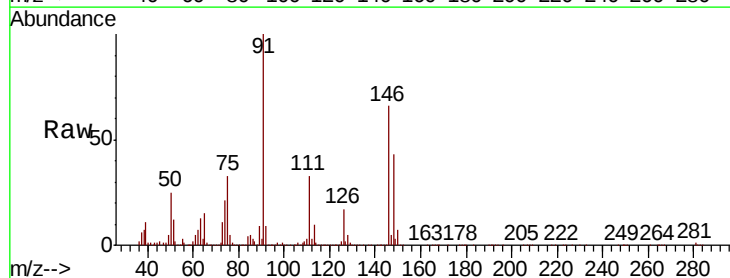
Manual Integrations
APPROVED

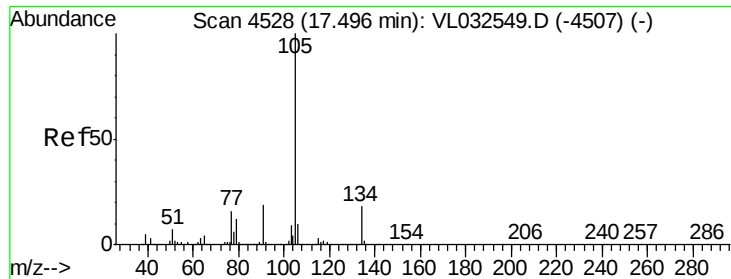
MMDadoda
10/12/2018 2:07:27 PM



#66
Benzyl Chloride
Concen: 10.067 ppbv
RT: 17.19 min Scan# 4433
Delta R.T. -0.02 min
Lab File: VL032601.D
Acq: 11 Oct 2018 12:41

Tgt Ion: 91 Resp: 2728795
Ion Ratio Lower Upper
91 100
126 17.1 13.8 20.8
128 5.3 4.4 6.6





#67

sec-Butylbenzene

Concen: 9.448 ppbv

RT: 17.49 min Scan# 4527

Delta R.T. -0.02 min

Lab File: VL032601.D

Acq: 11 Oct 2018 12:41

Instrument :

MSVOA_L

ClientSampleId :

VL1011ABS01

Tot Ion:105 Resp: 6605953

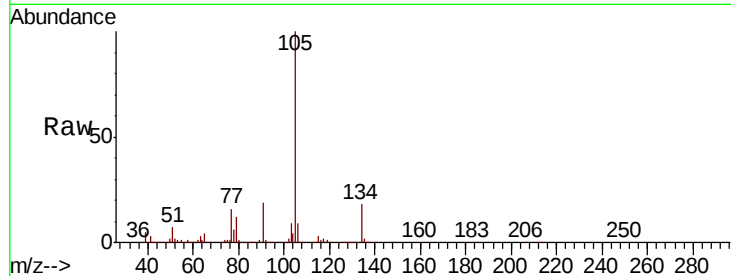
Ion Ratio Lower Upper

105 100

134 17.8 14.4 21.6

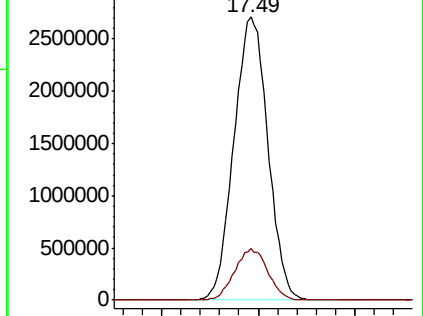
Manual Integrations
APPROVED

MMDadoda
10/12/2018 2:07:27 PM

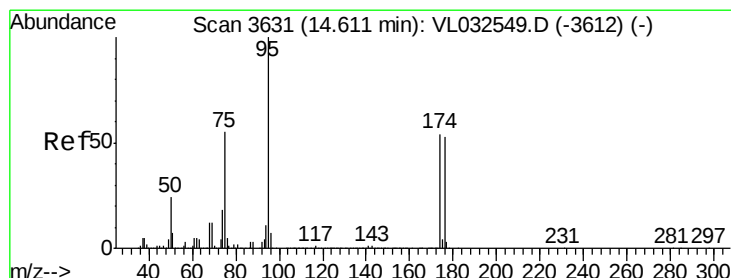
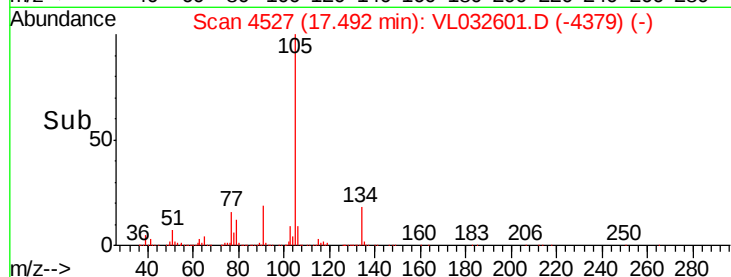


Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



Time-->



#68

1-Bromo-4-Fluorobenzene

Concen: 9.991 ppbv

RT: 14.61 min Scan# 3630

Delta R.T. -0.03 min

Lab File: VL032601.D

Acq: 11 Oct 2018 12:41

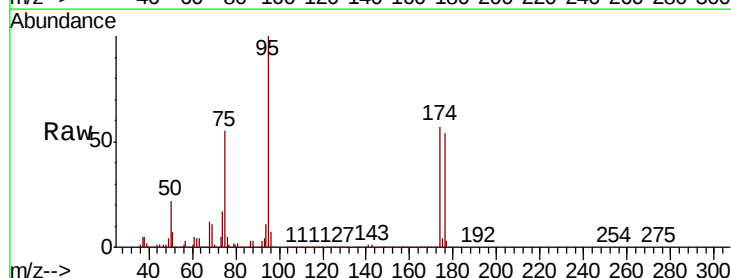
Tgt Ion: 95 Resp: 2781997

Ion Ratio Lower Upper

95 100

174 58.4 46.3 69.5

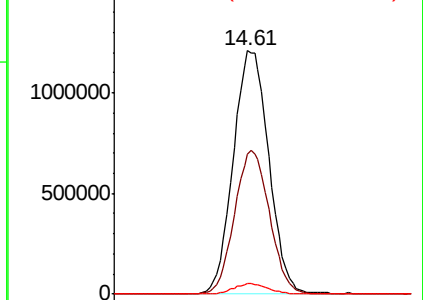
175 4.2 3.4 5.0



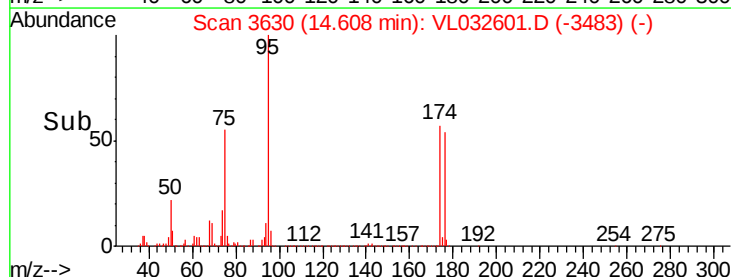
Abundance Ion 95.10 (94.80 to 95.80): VL0

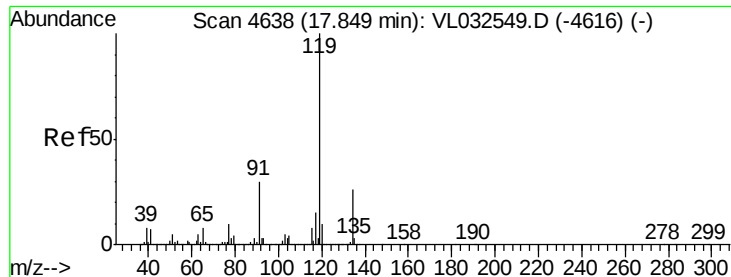
Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V



Time-->





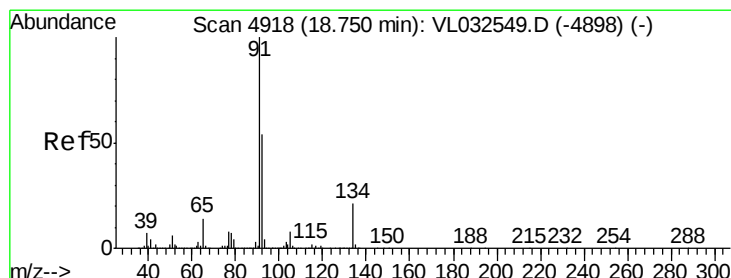
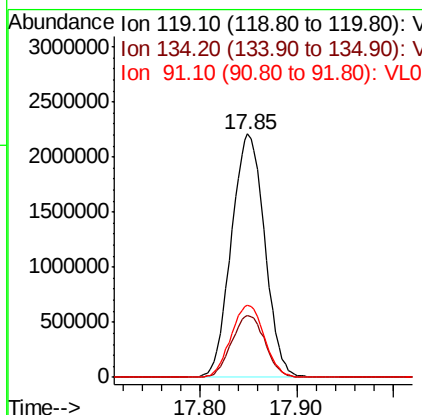
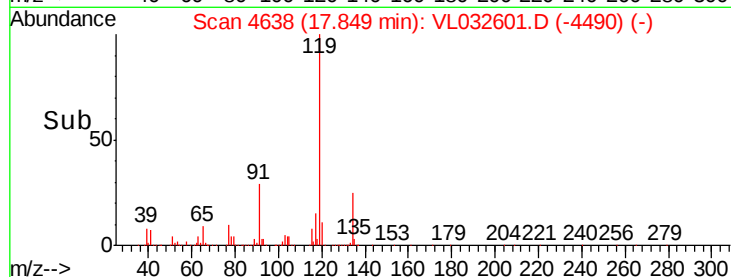
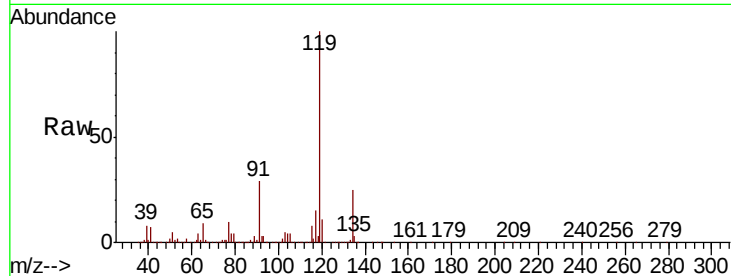
#69
 p-Isopropyltoluene
 Concen: 9.776 ppbv
 RT: 17.85 min Scan# 4638
 Delta R.T. -0.02 min
 Lab File: VL032601.D
 Acq: 11 Oct 2018 12:41

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1011ABS01

Tot Ion	Ratio	Lower	Upper
119	100		
134	25.5	20.4	30.6
91	29.7	23.4	35.2

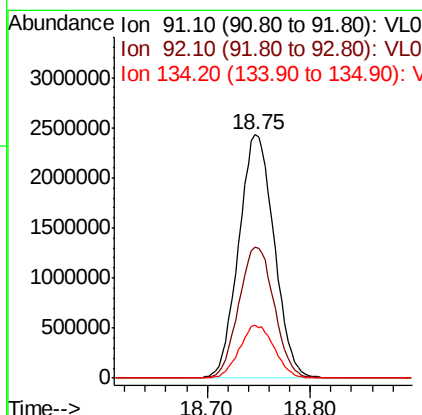
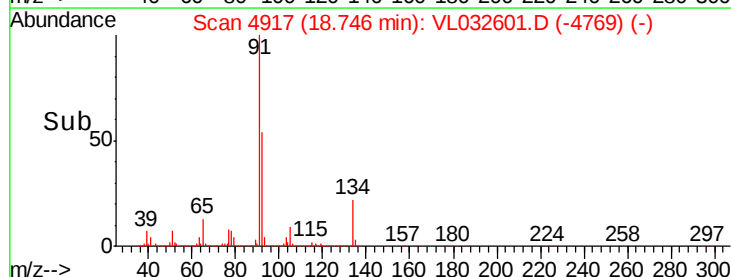
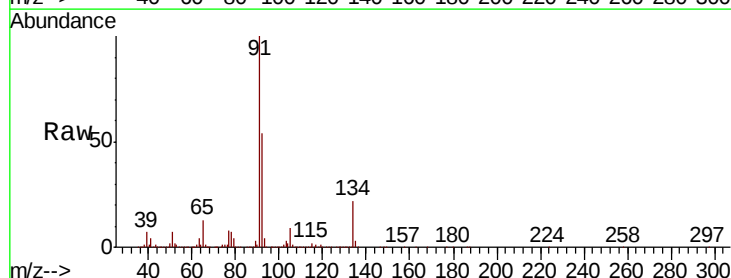
Manual Integrations
 APPROVED

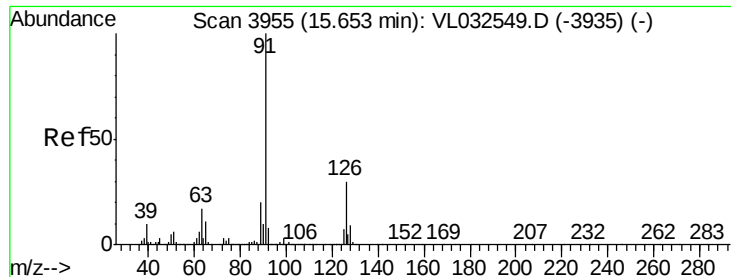
MMDadoda
 10/12/2018 2:07:27 PM



#70
 n-Butylbenzene
 Concen: 9.813 ppbv
 RT: 18.75 min Scan# 4917
 Delta R.T. -0.02 min
 Lab File: VL032601.D
 Acq: 11 Oct 2018 12:41

Tgt Ion	Ratio	Lower	Upper
91	100		
92	54.0	43.8	65.8
134	21.5	17.4	26.0





#71

2-Chlorotoluene

Concen: 9.995 ppbv

RT: 15.65 min Scan# 3955

Delta R.T. -0.02 min

Lab File: VL032601.D

Acq: 11 Oct 2018 12:41

Instrument :

MSVOA_L

ClientSampleId :

VL1011ABS01

Tot Ion: 91 Resp: 4176827

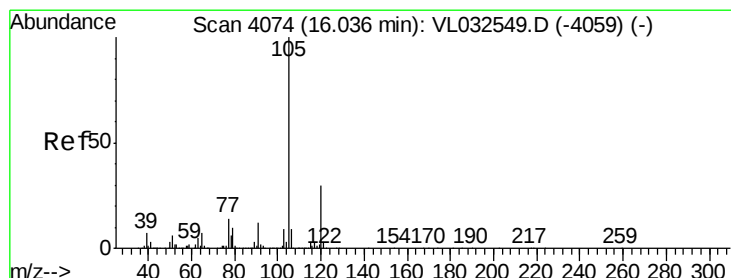
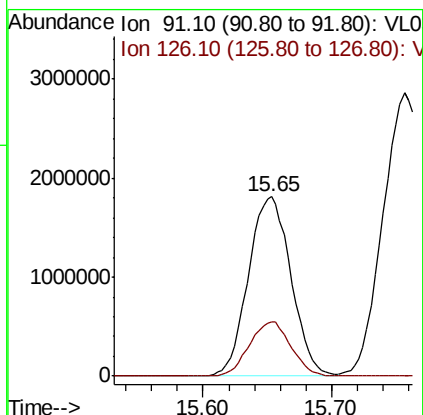
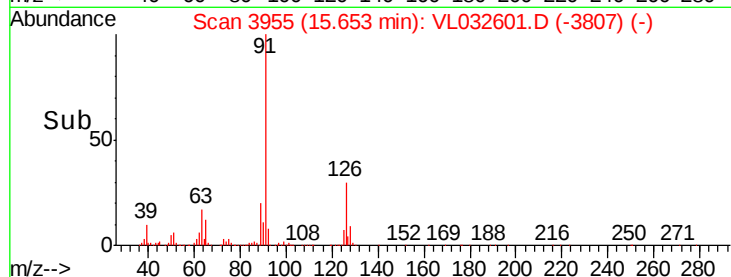
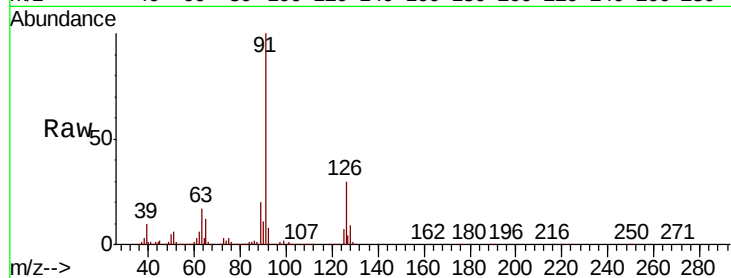
Ion Ratio Lower Upper

91 100

126 29.7 11.9 47.7

Manual Integrations
APPROVED

MMDadoda
10/12/2018 2:07:27 PM



#72

4-Ethyltoluene

Concen: 10.297 ppbv

RT: 16.04 min Scan# 4074

Delta R.T. -0.02 min

Lab File: VL032601.D

Acq: 11 Oct 2018 12:41

Tgt Ion: 105 Resp: 4336114

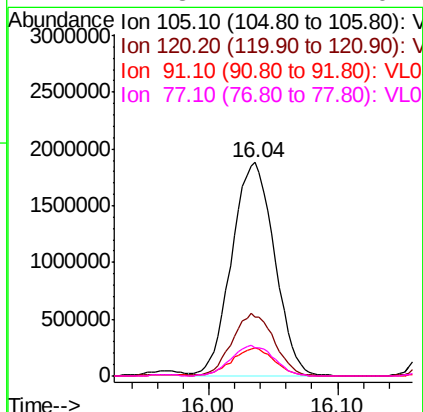
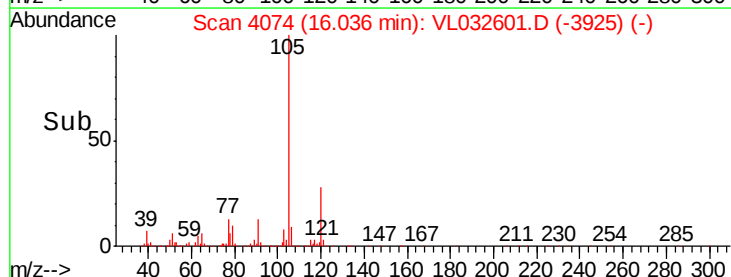
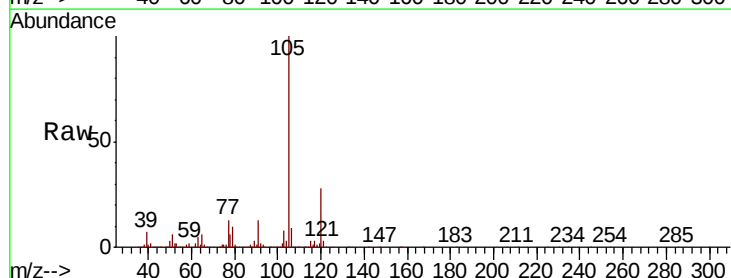
Ion Ratio Lower Upper

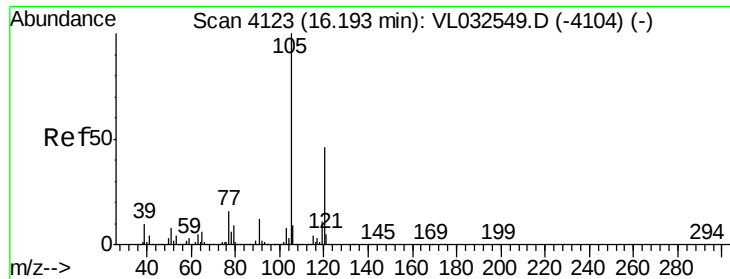
105 100

120 29.6 23.5 35.3

91 12.8 10.2 15.2

77 14.3 11.1 16.7





#73

1,3,5-Trimethylbenzene

Concen: 10.085 ppbv

RT: 16.19 min Scan# 4123

Delta R.T. -0.02 min

Lab File: VL032601.D

Acq: 11 Oct 2018 12:41

Instrument :

MSVOA_L

ClientSampleId :

VL1011ABS01

Tot Ion:105 Resp: 4127490

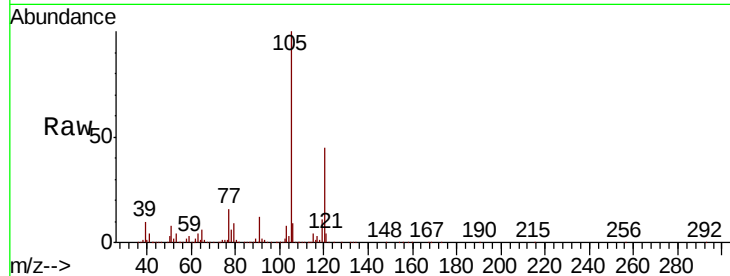
Ion Ratio Lower Upper

105 100

120 45.3 37.9 56.9

Manual Integrations
APPROVED

MMDadoda
10/12/2018 2:07:27 PM



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

16.19

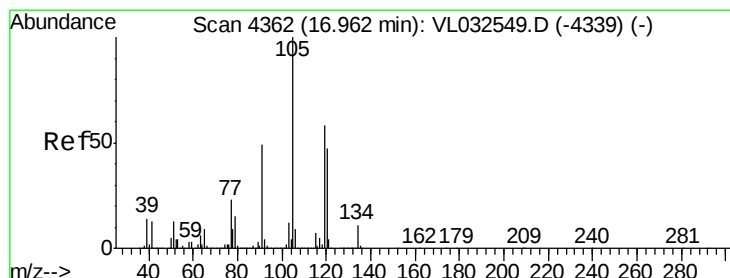
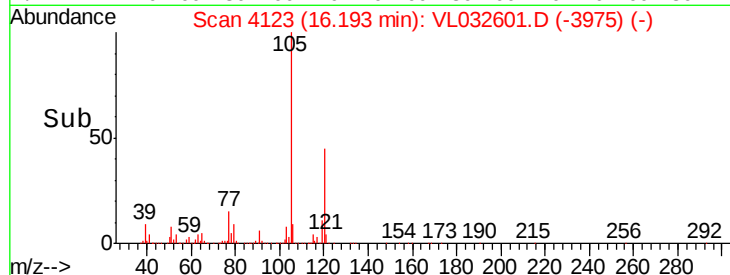
1500000

1000000

500000

0

Time-->



#74

1,2,4-Trimethylbenzene

Concen: 9.579 ppbv

RT: 16.96 min Scan# 4361

Delta R.T. -0.02 min

Lab File: VL032601.D

Acq: 11 Oct 2018 12:41

Tgt Ion:105 Resp: 4221061

Ion Ratio Lower Upper

105 100

120 47.4 37.8 56.8

91 53.4 41.4 62.0

77 24.0 18.6 28.0

Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

2500000

2000000

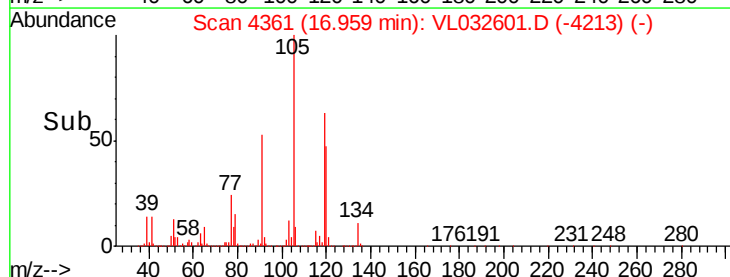
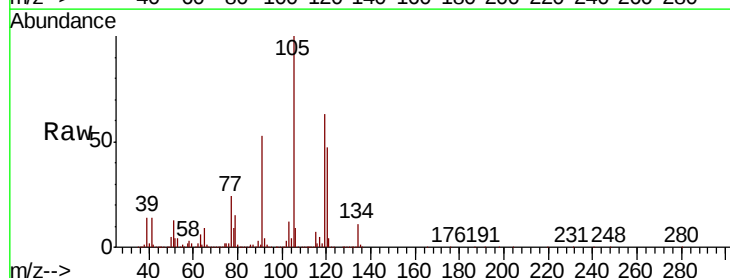
1500000

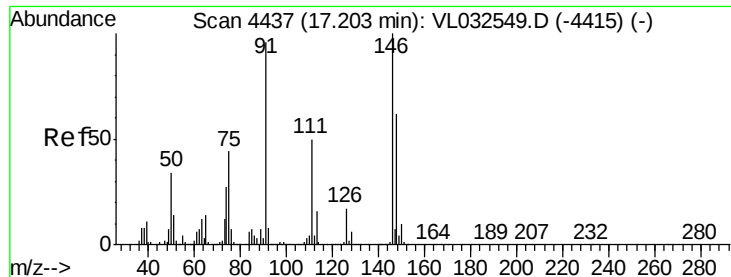
1000000

500000

0

Time-->





#75

1,3-Dichlorobenzene

Concen: 8.736 ppbv

RT: 17.20 min Scan# 4437

Delta R.T. -0.02 min

Lab File: VL032601.D

Acq: 11 Oct 2018 12:41

Instrument :

MSVOA_L

ClientSampleId :

VL1011ABS01

Tot Ion:146 Resp: 2375454

Ion Ratio Lower Upper

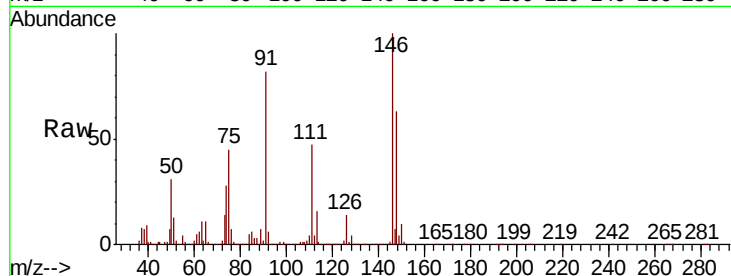
146 100

111 48.1 24.5 73.5

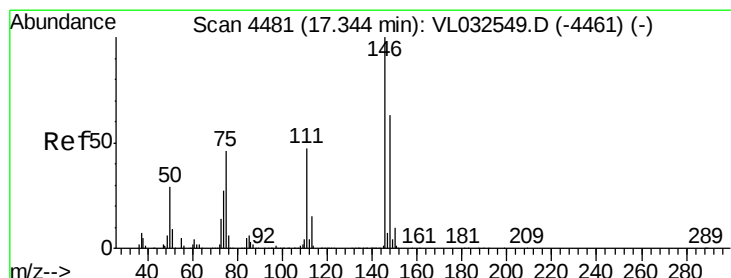
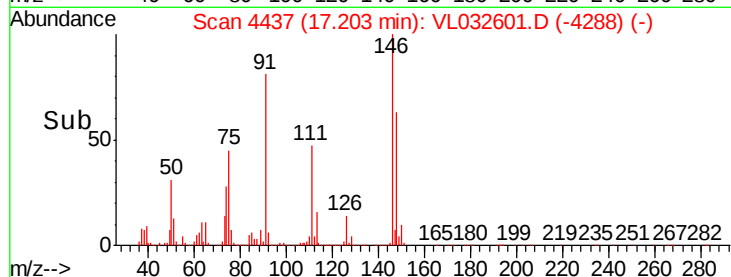
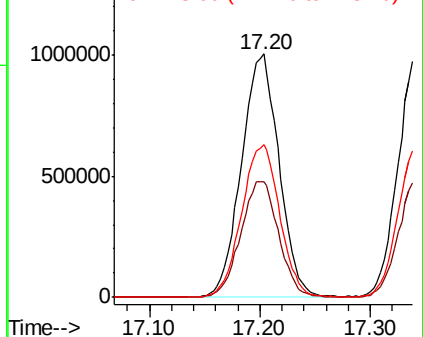
148 63.5 32.0 96.2

Manual Integrations
APPROVED

MMDadoda
10/12/2018 2:07:27 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: 9.272 ppbv

RT: 17.34 min Scan# 4481

Delta R.T. -0.02 min

Lab File: VL032601.D

Acq: 11 Oct 2018 12:41

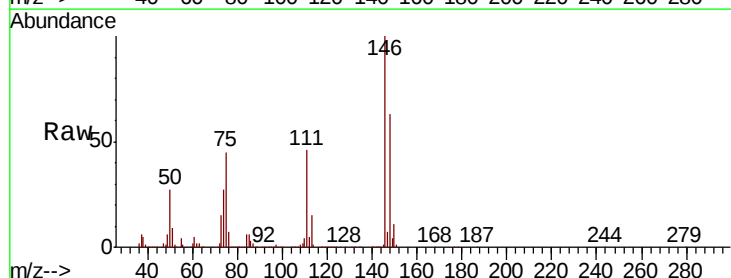
Tgt Ion:146 Resp: 2308415

Ion Ratio Lower Upper

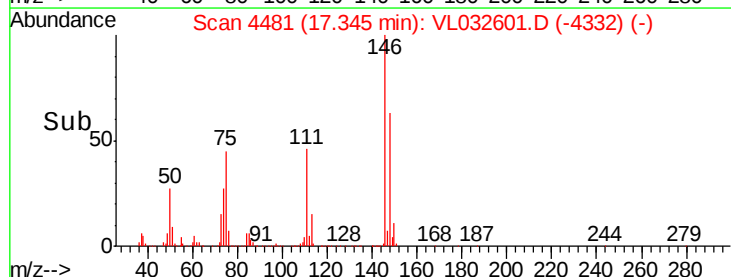
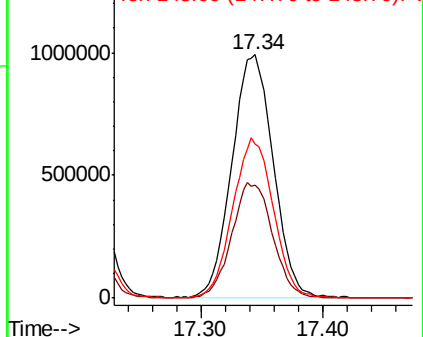
146 100

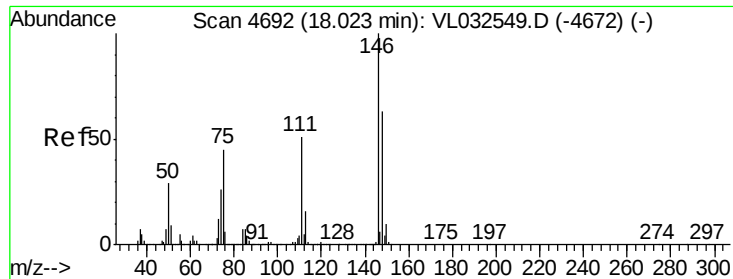
111 47.4 23.4 70.2

148 65.5 32.0 96.2



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: 9.115 ppbv

RT: 18.02 min Scan# 4691

Delta R.T. -0.03 min

Lab File: VL032601.D

Acq: 11 Oct 2018 12:41

Instrument :

MSVOA_L

ClientSampleId :

VL1011ABS01

Tot Ion:146 Resp: 2330892

Ion Ratio Lower Upper

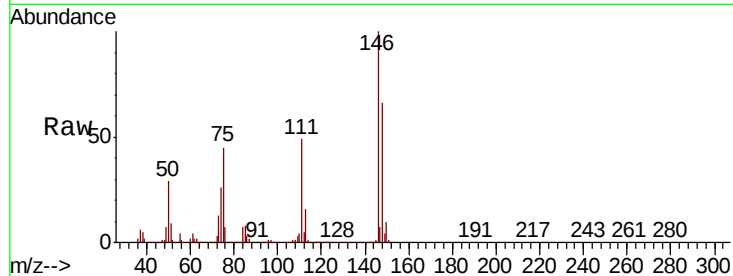
146 100

111 50.1 24.9 74.8

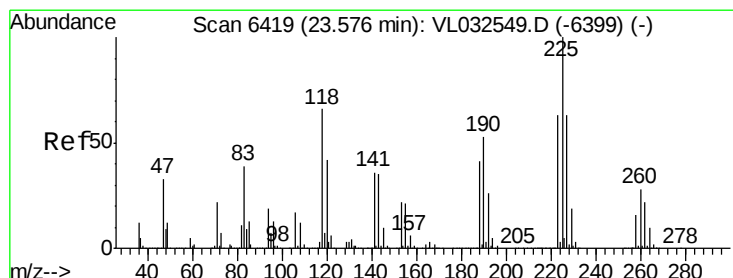
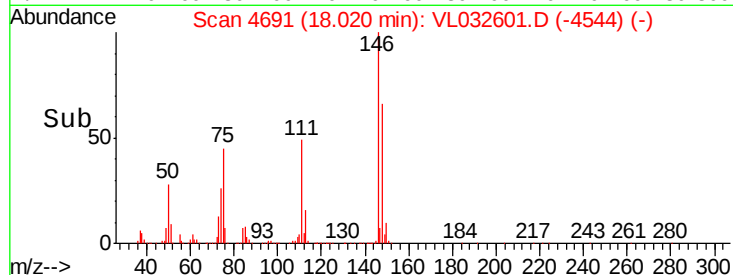
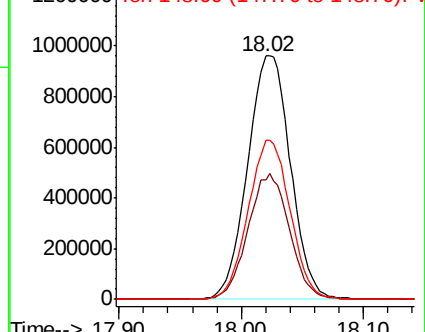
148 64.2 32.0 96.0

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Abundance Ion 146.00 (145.70 to 146.70): V
Ion 111.10 (110.80 to 111.80): V
Ion 148.00 (147.70 to 148.70): V



#78

Hexachloro-1,3-Butadiene

Concen: 8.564 ppbv

RT: 23.57 min Scan# 6418

Delta R.T. -0.02 min

Lab File: VL032601.D

Acq: 11 Oct 2018 12:41

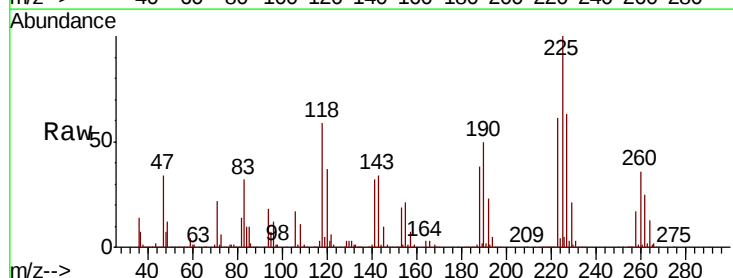
Tgt Ion:225 Resp: 821940

Ion Ratio Lower Upper

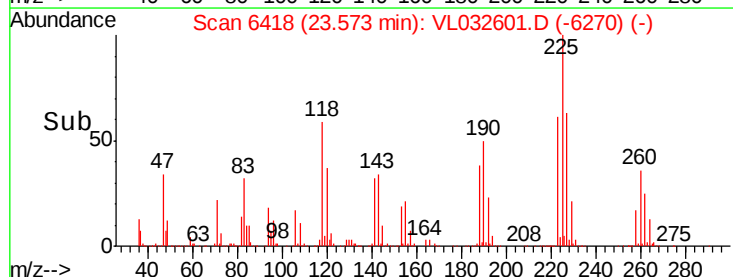
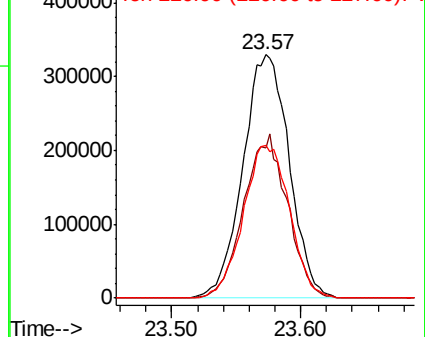
225 100

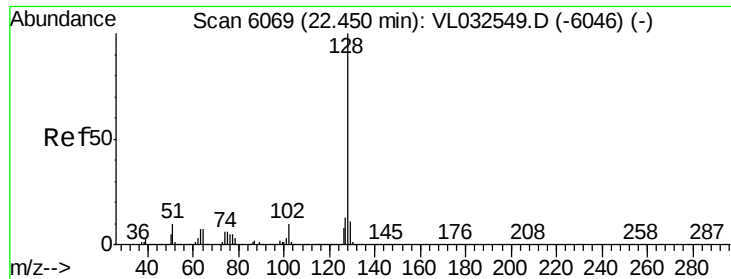
223 63.7 50.6 76.0

227 63.2 51.2 76.8



Abundance Ion 224.90 (224.60 to 225.60): V
Ion 222.90 (222.60 to 223.60): V
Ion 226.90 (226.60 to 227.60): V





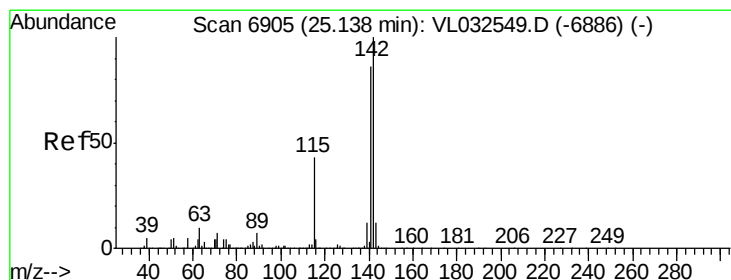
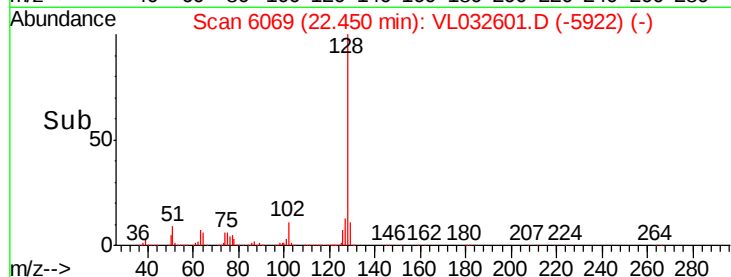
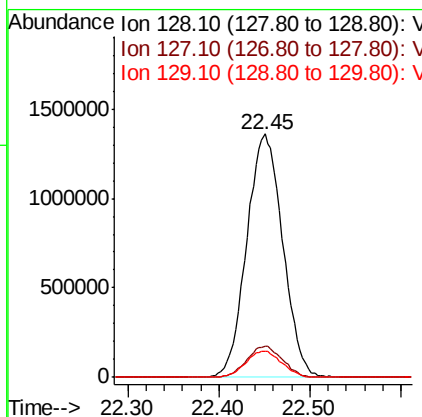
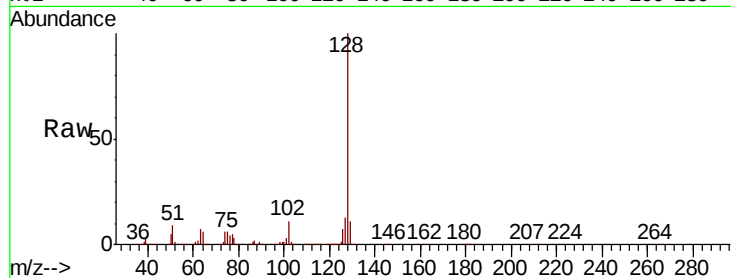
#79
Naphthalene
Concen: 11.752 ppbv
RT: 22.45 min Scan# 6069
Delta R.T. -0.03 min
Lab File: VL032601.D
Acq: 11 Oct 2018 12:41

Instrument :
MSVOA_L
ClientSampleId :
VL1011ABS01

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.2	15.2
129	10.5	8.5	12.7

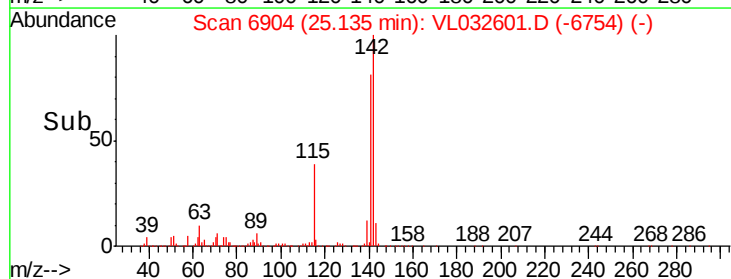
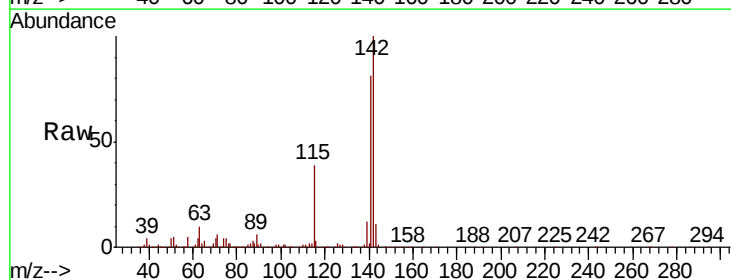
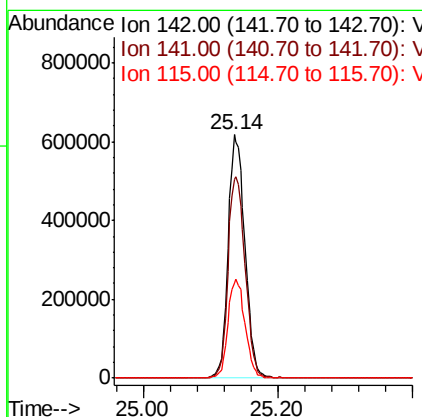
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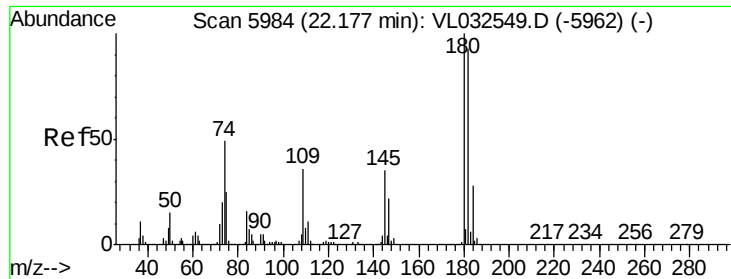
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#80
Naphthalene, 2-methyl-
Concen: 14.356 ppbv
RT: 25.14 min Scan# 6904
Delta R.T. -0.02 min
Lab File: VL032601.D
Acq: 11 Oct 2018 12:41

Tgt Ion	Ratio	Lower	Upper
142	100		
141	84.9	67.0	100.6
115	41.5	31.3	46.9





#81
 1,2,4-Trichlorobenzene
 Concen: 10.763 ppbv
 RT: 22.17 min Scan# 5983
 Delta R.T. -0.03 min
 Lab File: VL032601.D
 Acq: 11 Oct 2018 12:41

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1011ABS01

Tot Ion:	180	Resp:	1753294
Ion	Ratio	Lower	Upper
180	100		
182	95.7	76.1	114.1
184	30.2	23.8	35.8

Manual Integrations
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