

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL062220\
 Data File : VL035113.D
 Acq On : 22 Jun 2020 16:33
 Operator : SY/AP
 Sample : VL0622ABS01DUP
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VL0622ABS01DUP

Manual Integrations
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 6/23/2020 10:59:26 AM

Quant Time: Jun 23 01:39:22 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL061920AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Sat Jun 23 2020
 QLast Update : Sat Jun 20 02:10:36 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1350913	10.00	ppbv	0.01
33) 1,4-Difluorobenzene	7.19	114	3157165	10.00	ppbv	0.02
55) Chlorobenzene-d5	12.13	117	3182867m	10.00	ppbv	0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.46	95	2548932	9.64	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.40%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.01	85	1582751	8.677	ppbv	99
3) Chlorodifluoromethane	2.95	51	1378659	9.238	ppbv	99
4) Chloromethane	3.11	50	801848	9.585	ppbv	98
5) Vinyl Chloride	3.22	62	792038	9.956	ppbv	98
6) Bromomethane	3.44	94	473018	9.575	ppbv	93
7) Chloroethane	3.53	64	286788	9.560	ppbv	93
8) Dichlorotetrafluoroethane	3.15	85	1741847	8.906	ppbv	97
9) Propene	2.97	41	609200	10.309	ppbv	100
10) Heptane	8.14	43	1591442	10.392	ppbv	99
11) Trichlorofluoromethane	3.93	101	1807027	9.273	ppbv	100
12) 1,1,2-Trichlorotrifluoroet	4.47	101	1298726	9.638	ppbv	98
13) Ethanol	3.58	45	159424	7.141	ppbv	98
14) Bromoethene	3.71	108	581785	10.016	ppbv	98
15) Acetone	3.83	43	1403434	8.593	ppbv	100
16) 1,3-Butadiene	3.29	39	714938	9.981	ppbv	100
17) tert-Butyl alcohol	4.28	59	1579207	10.910	ppbv	100
18) 1,1-Dichloroethene	4.27	96	608117	10.006	ppbv	98
19) Isopropyl Alcohol	3.95	45	1058422	9.980	ppbv #	98
20) Methylene Chloride	4.33	84	541178	8.187	ppbv	96
21) Allyl Chloride	4.39	41	1031217	10.624	ppbv	99
22) trans-1,2-Dichloroethene	4.88	96	606446	10.665	ppbv	96
23) Vinyl Acetate	5.07	43	2172051	10.956	ppbv	99
24) 1,1-Dichloroethane	5.00	63	1562354	9.347	ppbv	99
25) Ethyl Acetate	5.67	43	2756241	9.351	ppbv	100
26) Hexane	5.69	57	1226852	9.232	ppbv	99
27) Carbon Disulfide	4.53	76	1629475	11.848	ppbv	98
28) Methyl tert-Butyl Ether	5.02	73	1942846	10.405	ppbv	100
29) Chloroform	5.75	83	1890388	9.090	ppbv	97
30) Cyclohexane	7.14	84	1028522	10.783	ppbv	98
31) cis-1,2-Dichloroethene	5.55	61	1250019	10.204	ppbv	95
32) 1,1,1-Trichloroethane	6.52	97	1844575	9.563	ppbv	99
34) 2-Butanone	5.24	43	1795437	9.903	ppbv	100
35) Carbon Tetrachloride	7.03	117	1882110	9.940	ppbv	96
36) Benzene	6.90	78	2465844	10.086	ppbv	99
37) 1,2-Dichloroethane	6.31	62	1476689	9.557	ppbv	100
38) Trichloroethene	7.86	130	923302	9.723	ppbv	98
39) 1,2-Dichloropropane	7.63	63	972173	10.167	ppbv	99
40) 1,4-Dioxane	7.84	88	360712m	9.564	ppbv	
41) Tetrahydrofuran	6.05	42	1023698	11.055	ppbv	98
42) Bromodichloromethane	7.81	83	2069889	10.344	ppbv	98
43) Methyl Methacrylate	8.03	69	1094895	10.581	ppbv	96

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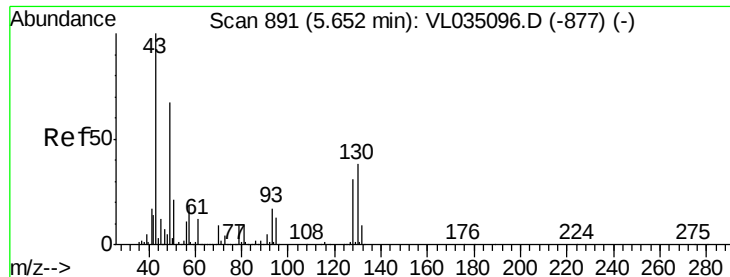
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

44) 2,2,4-Trimethylpentane	7.88	57	4160668	9.751	ppbv	100
45) t-1,3-Dichloropropene	9.31	75	1283249	12.742	ppbv	100
46) cis-1,3-Dichloropropene	8.73	75	1488347	11.896	ppbv	96
47) 1,1,2-Trichloroethane	9.51	97	1025154	9.823	ppbv	95
48) Dibromochloromethane	10.34	129	1726637	11.098	ppbv	99
49) Bromoform	13.09	173	1478988	11.191	ppbv	99
50) 4-Methyl-2-Pentanone	8.76	43	2651014	10.291	ppbv	99
51) 2-Hexanone	10.16	43	2161095	10.712	ppbv #	99
52) Tetrachloroethene	11.26	164	866961	10.064	ppbv	94
53) Toluene	9.83	91	2851268	10.934	ppbv	99
54) 1,2-Dibromoethane	10.65	107	1547766	10.017	ppbv	97
56) 1,1,1,2-Tetrachloroethane	12.17	131	1265105	9.712	ppbv #	61
57) Chlorobenzene	12.19	112	2117915	9.043	ppbv	99
58) Ethyl Benzene	12.75	91	3782789	10.578	ppbv	97
59) m/p-Xylene	13.03	91	6135218m	19.358	ppbv	
60) o-Xylene	13.73	91	3038614	9.630	ppbv	100
61) Styrene	13.57	104	2225331	11.208	ppbv	100
62) Isopropylbenzene	14.72	105	4527579	9.616	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.73	83	2116323	8.281	ppbv	99
64) n-propylbenzene	15.61	120	1191858	9.919	ppbv	99
65) tert-Butylbenzene	16.80	119	3844837	9.536	ppbv	100
66) Benzyl Chloride	17.04	91	1627655	13.069	ppbv	100
67) sec-Butylbenzene	17.35	105	5473351	9.472	ppbv	100
69) p-Isopropyltoluene	17.70	119	4525031	9.817	ppbv	100
70) n-Butylbenzene	18.60	91	4688354	9.443	ppbv	99
71) 2-Chlorotoluene	15.50	91	3504697	9.848	ppbv	100
72) 4-Ethyltoluene	15.89	105	3554955	10.128	ppbv	99
73) 1,3,5-Trimethylbenzene	16.05	105	3325995	10.024	ppbv	96
74) 1,2,4-Trimethylbenzene	16.82	105	3379447	9.126	ppbv	92
75) 1,3-Dichlorobenzene	17.05	146	1926010	8.715	ppbv	99
76) 1,4-Dichlorobenzene	17.19	146	1922379	9.093	ppbv	99
77) 1,2-Dichlorobenzene	17.87	146	1837743	9.088	ppbv	99
78) Hexachloro-1,3-Butadiene	23.44	225	1490385	8.200	ppbv	99
79) Naphthalene	22.27	128	3362281	10.356	ppbv	98
80) Naphthalene, 2-methyl-	25.02	142	1576688	12.701	ppbv	99
81) 1,2,4-Trichlorobenzene	22.00	180	1759192	9.393	ppbv	100

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 895

Delta R.T. 0.01 min

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Tot Ion: 49 Resp: 1350913

Ion Ratio Lower Upper

49 100

128 45.3 22.9 68.5

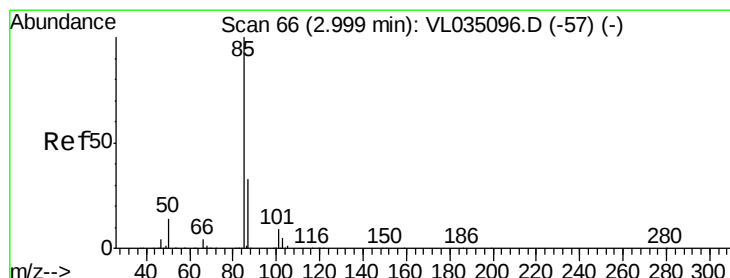
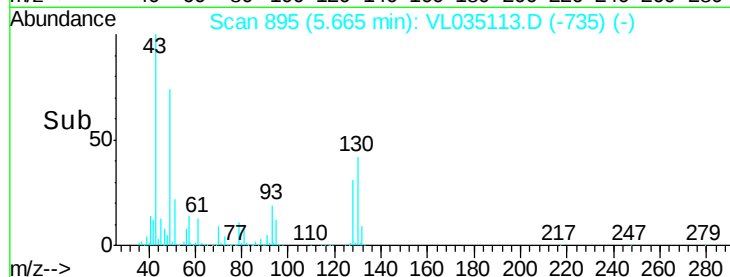
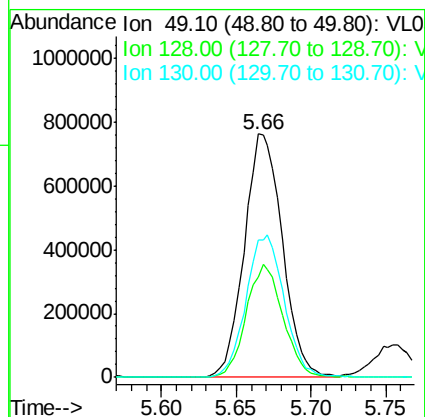
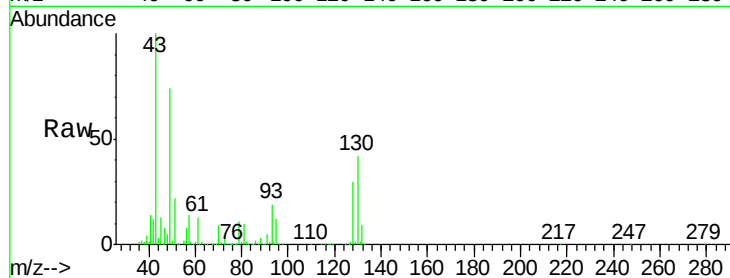
130 58.8 29.0 87.0

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#2

Dichlorodifluoromethane

Concen: 8.677 ppbv

RT: 3.01 min Scan# 70

Delta R.T. 0.01 min

Lab File: VL035113.D

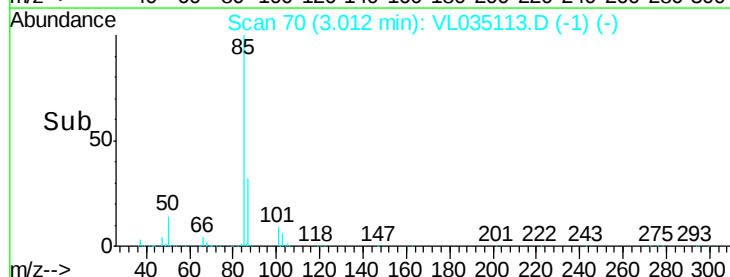
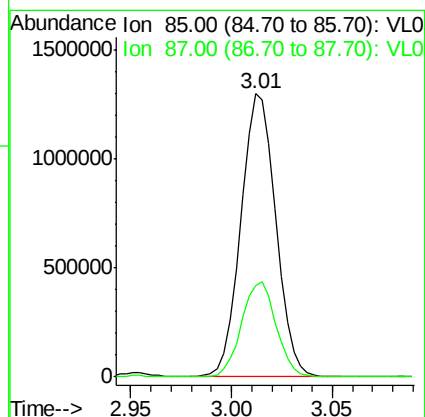
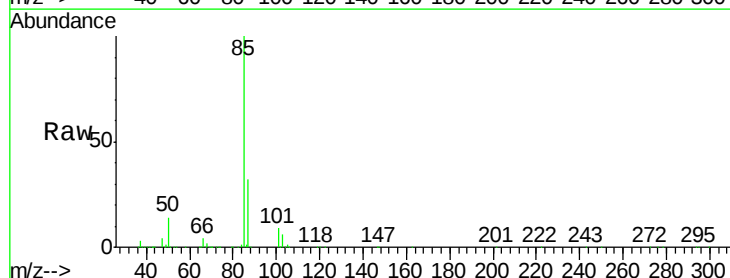
Acq: 22 Jun 2020 16:33

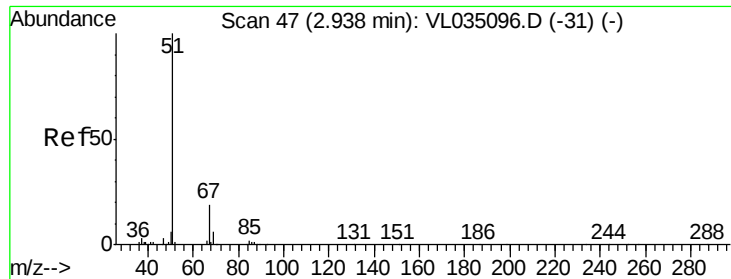
Tgt Ion: 85 Resp: 1582751

Ion Ratio Lower Upper

85 100

87 32.3 26.1 39.1





#3

Chlorodifluoromethane

Concen: 9.238 ppbv

RT: 2.95 min Scan# 51

Delta R.T. 0.01 min

Lab File: VL035113.D

Acq: 22 Jun 2020 16:33

Instrument :

MSVOA_L

ClientSampleId :

VL0622ABS01DUP

Tot Ion: 51 Resp: 1378659

Ion Ratio Lower Upper

51 100

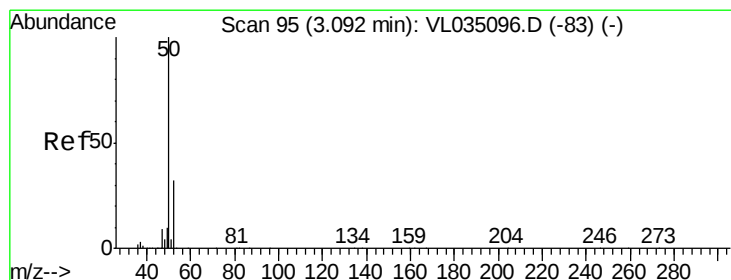
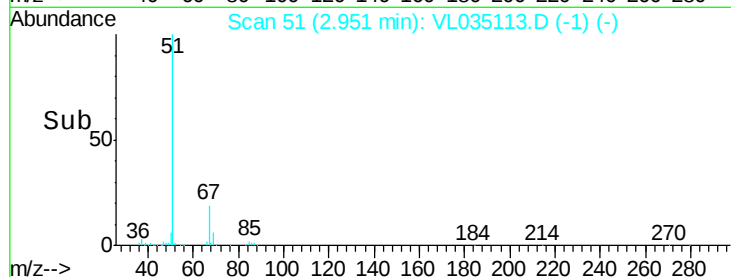
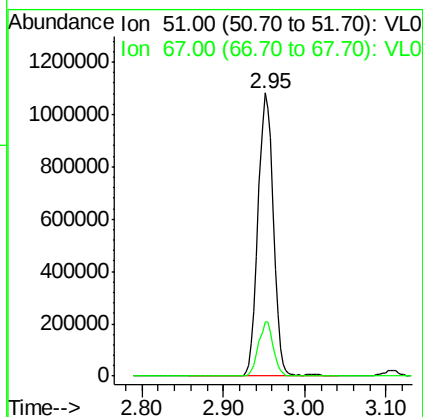
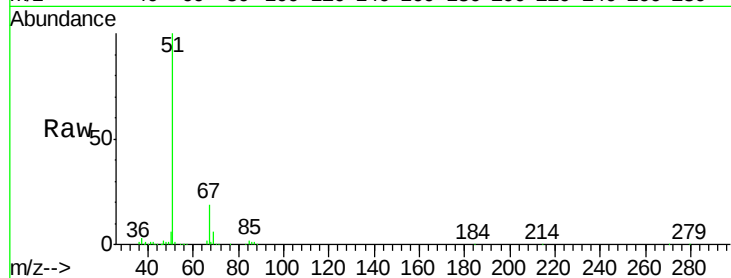
67 18.6 15.2 22.8

Manual Integrations

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#4

Chloromethane

Concen: 9.585 ppbv

RT: 3.11 min Scan# 99

Delta R.T. 0.01 min

Lab File: VL035113.D

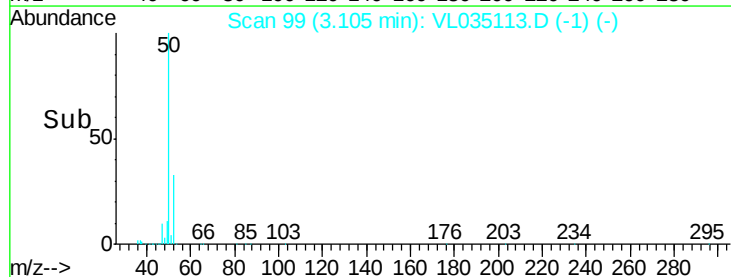
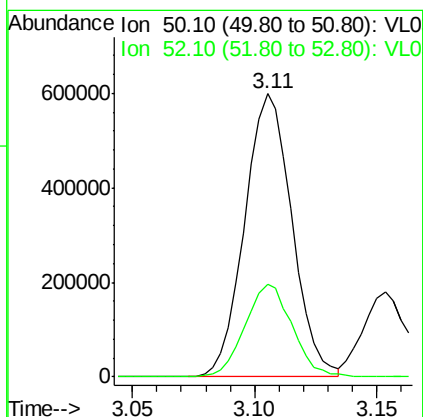
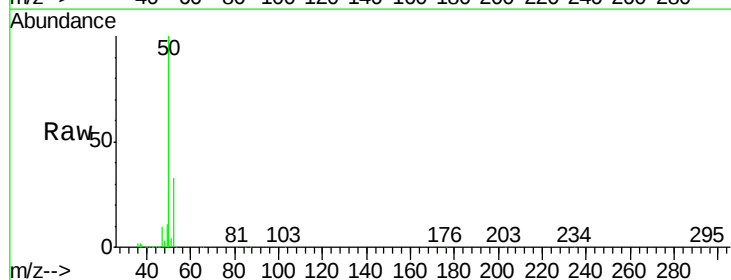
Acq: 22 Jun 2020 16:33

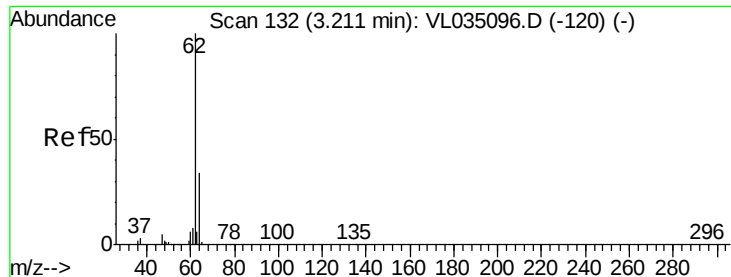
Tgt Ion: 50 Resp: 801848

Ion Ratio Lower Upper

50 100

52 32.9 25.4 38.0





#5

Vinyl Chloride

Concen: 9.956 ppbv

RT: 3.22 min Scan# 136

Delta R.T. 0.01 min

Lab File: VL035113.D

Acq: 22 Jun 2020 16:33

Instrument :

MSVOA_L

ClientSampleId :

VL0622ABS01DUP

Tot Ion: 62 Resp: 792038

Ion Ratio Lower Upper

62 100

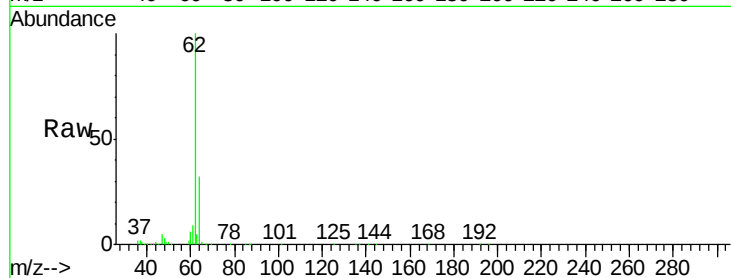
64 32.4 27.0 40.4

Manual Integrations

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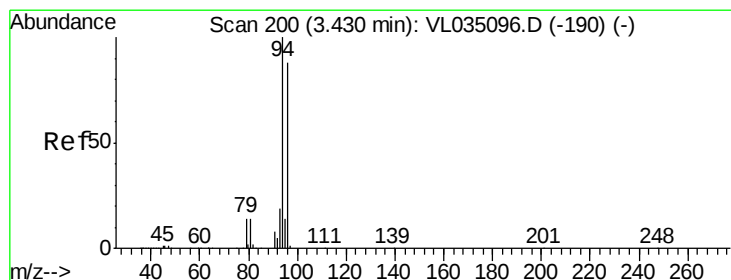
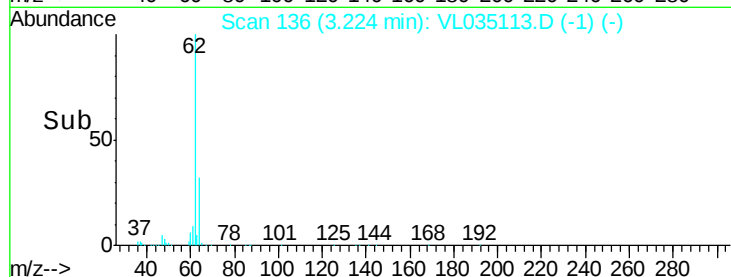
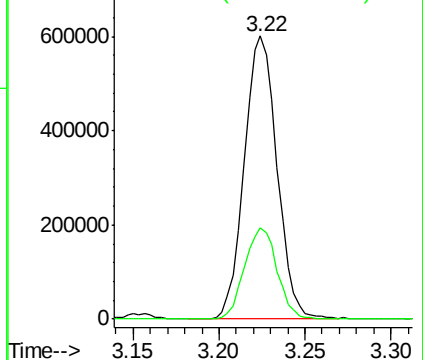
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Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 9.575 ppbv

RT: 3.44 min Scan# 204

Delta R.T. 0.01 min

Lab File: VL035113.D

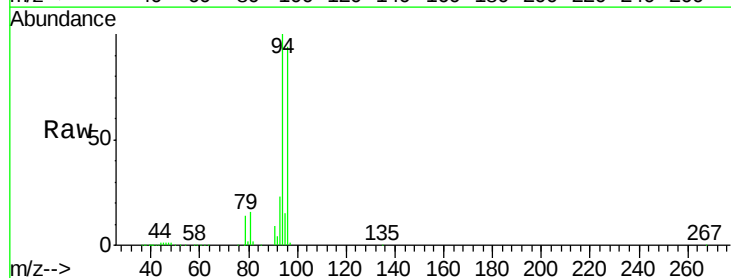
Acq: 22 Jun 2020 16:33

Tgt Ion: 94 Resp: 473018

Ion Ratio Lower Upper

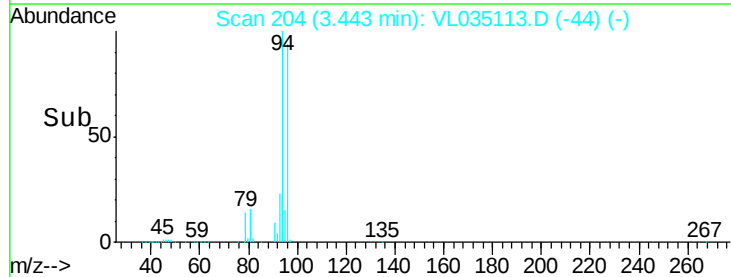
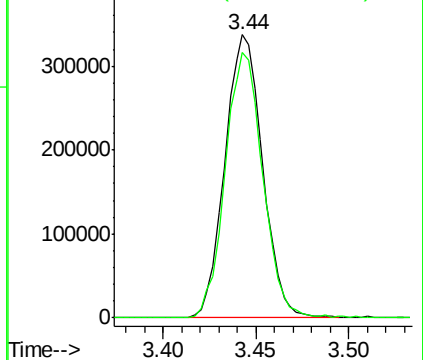
94 100

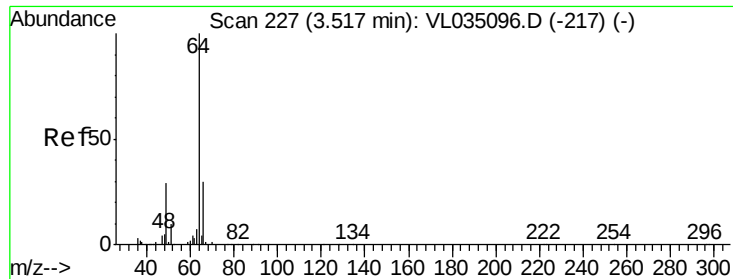
96 93.8 70.2 105.2



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 9.560 ppbv

RT: 3.53 min Scan# 231

Delta R.T. 0.01 min

Lab File: VL035113.D

Acq: 22 Jun 2020 16:33

Instrument :

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Tot Ion: 64 Resp: 286788

Ion Ratio Lower Upper

64 100

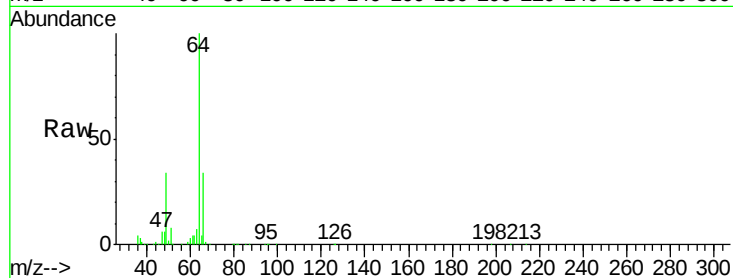
66 34.3 24.2 36.4

Manual Integrations

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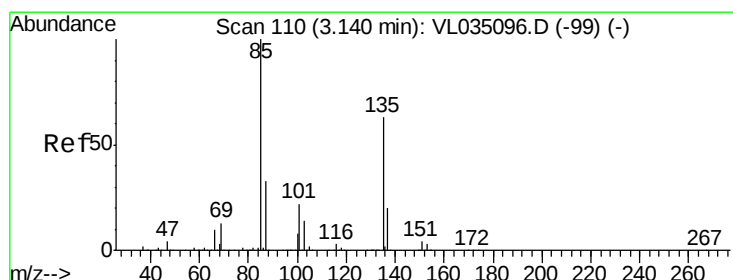
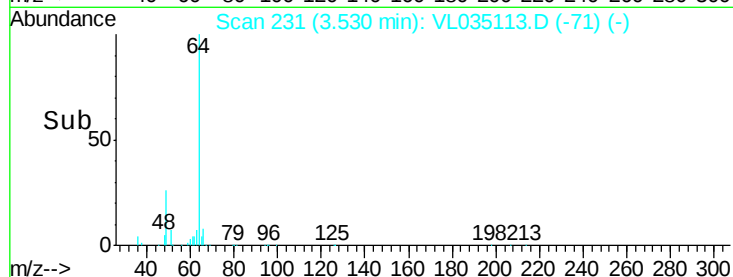
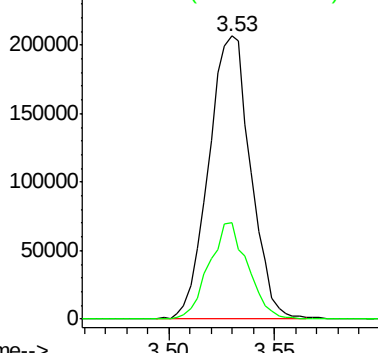
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Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#8

Dichlorotetrafluoroethane

Concen: 8.906 ppbv

RT: 3.15 min Scan# 114

Delta R.T. 0.01 min

Lab File: VL035113.D

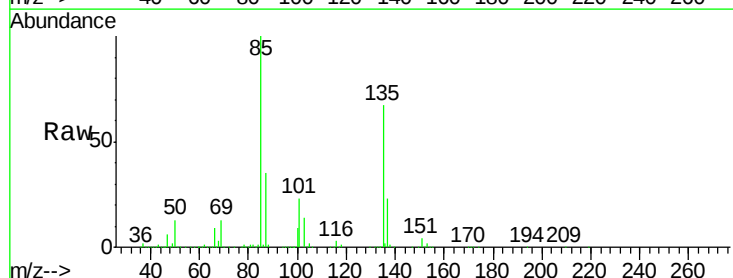
Acq: 22 Jun 2020 16:33

Tgt Ion: 85 Resp: 1741847

Ion Ratio Lower Upper

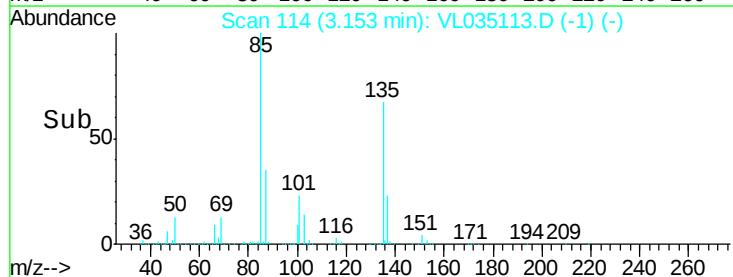
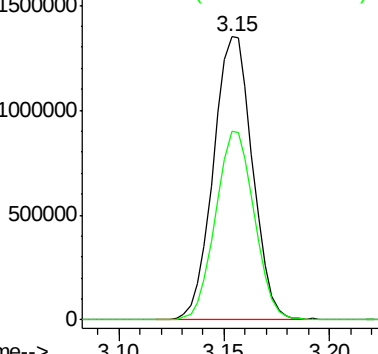
85 100

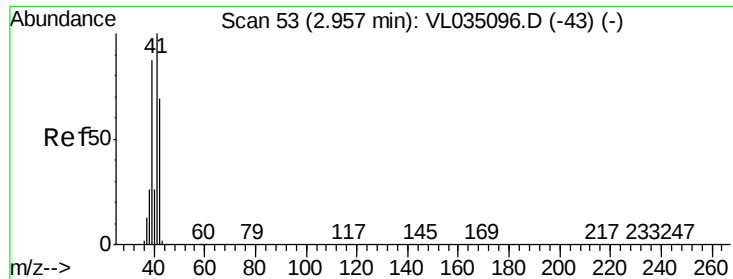
135 66.0 51.0 76.6



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V





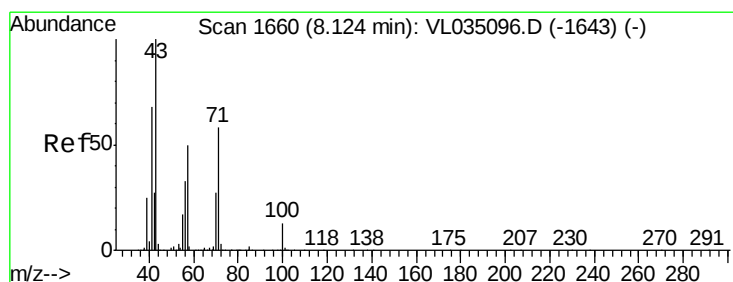
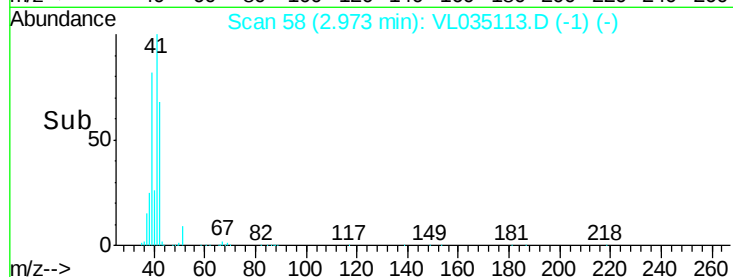
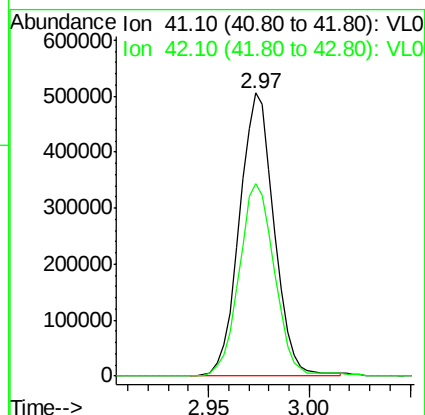
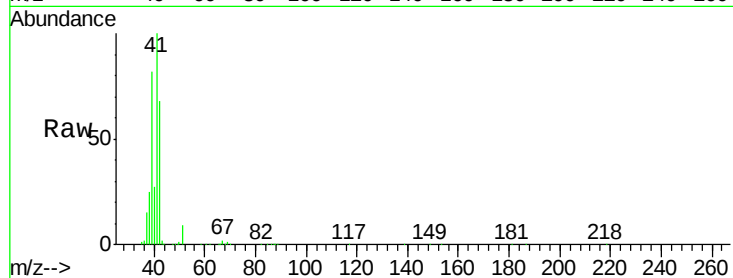
#9
 Propene
 Concen: 10.309 ppbv
 RT: 2.97 min Scan# 58
 Delta R.T. 0.02 min
 Lab File: VL035113.D
 Acq: 22 Jun 2020 16:33

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0622ABS01DUP

Tot Ion: 41 Resp: 609200
 Ion Ratio Lower Upper
 41 100
 42 69.9 55.8 83.6

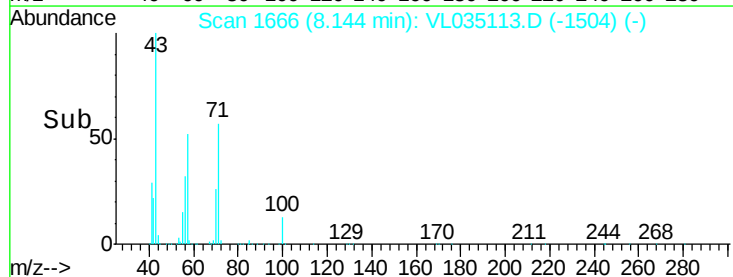
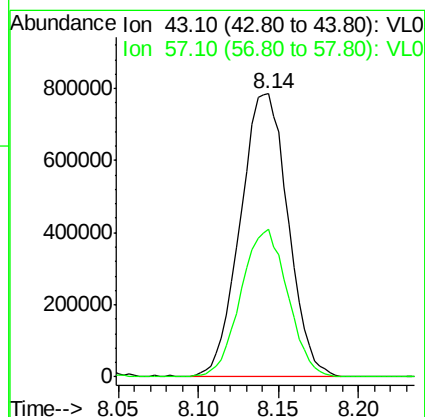
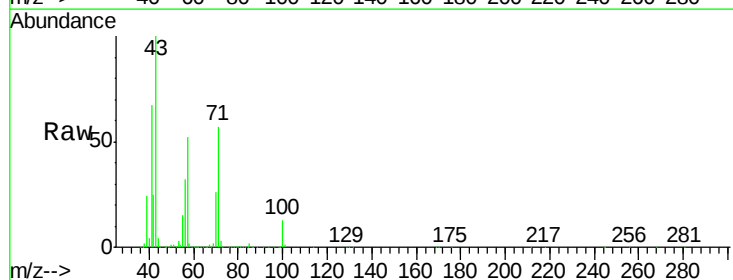
Manual Integrations
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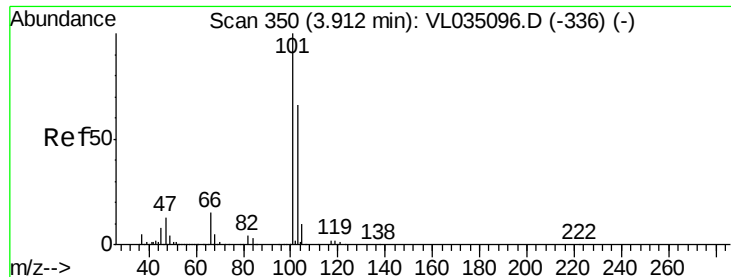
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#10
 Heptane
 Concen: 10.392 ppbv
 RT: 8.14 min Scan# 1666
 Delta R.T. 0.02 min
 Lab File: VL035113.D
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Tgt Ion: 43 Resp: 1591442
 Ion Ratio Lower Upper
 43 100
 57 51.6 41.9 62.9





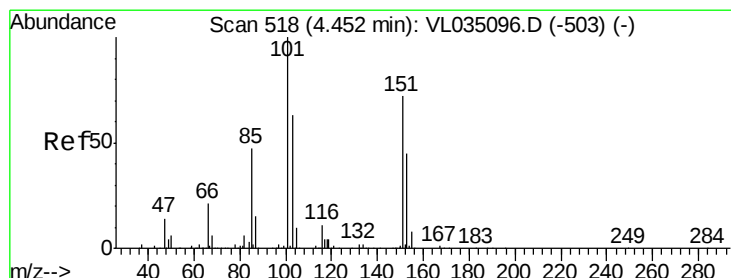
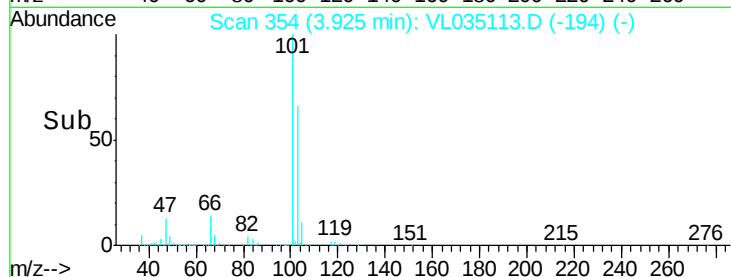
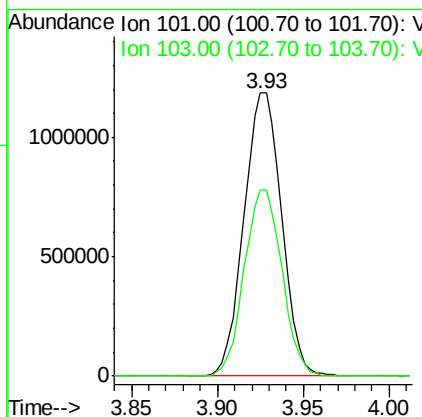
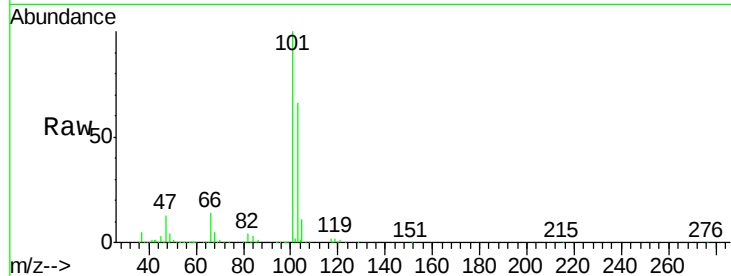
#11
 Trichlorofluoromethane
 Concen: 9.273 ppbv
 RT: 3.93 min Scan# 354
 Delta R.T. 0.01 min
 Lab File: VL035113.D
 Acq: 22 Jun 2020 16:33

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0622ABS01DUP

Tot Ion:101 Resp: 1807027
 Ion Ratio Lower Upper
 101 100
 103 65.9 52.6 79.0

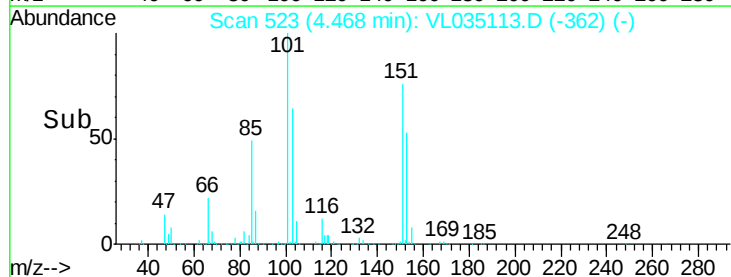
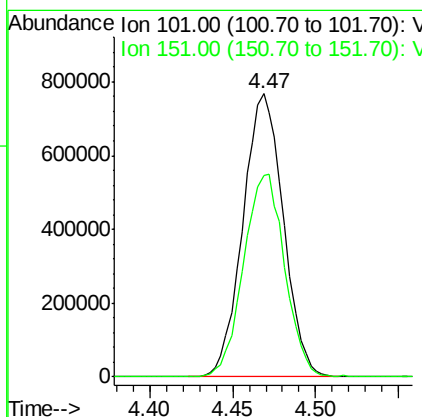
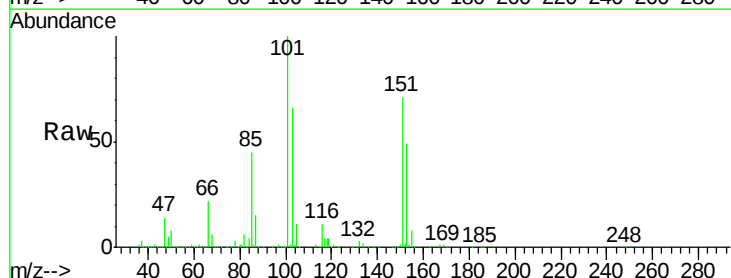
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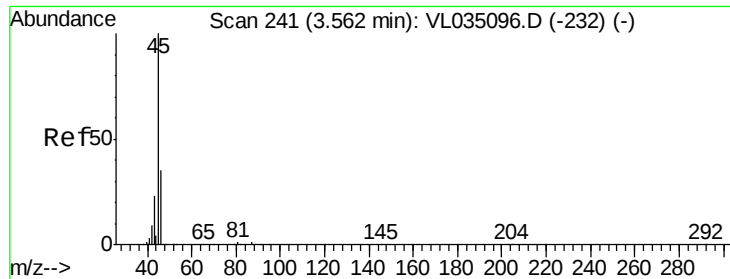
MMDadoda
 6/23/2020 10:59:26 AM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 9.638 ppbv
 RT: 4.47 min Scan# 523
 Delta R.T. 0.02 min
 Lab File: VL035113.D
 Acq: 22 Jun 2020 16:33

Tgt Ion:101 Resp: 1298726
 Ion Ratio Lower Upper
 101 100
 151 72.7 56.6 85.0





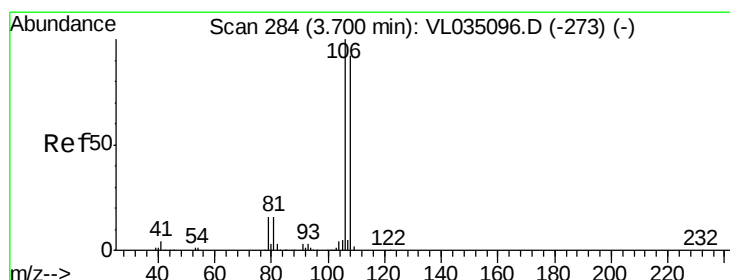
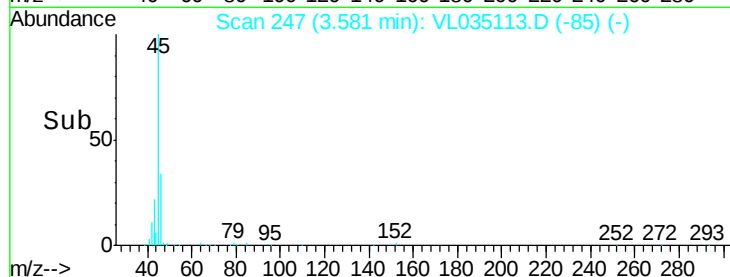
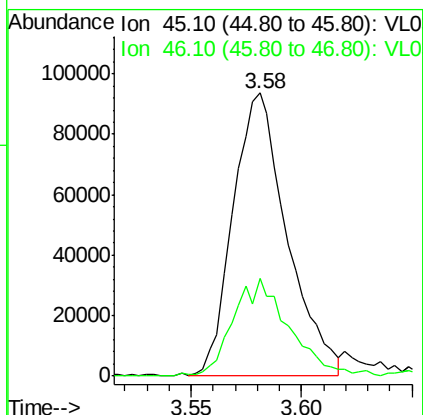
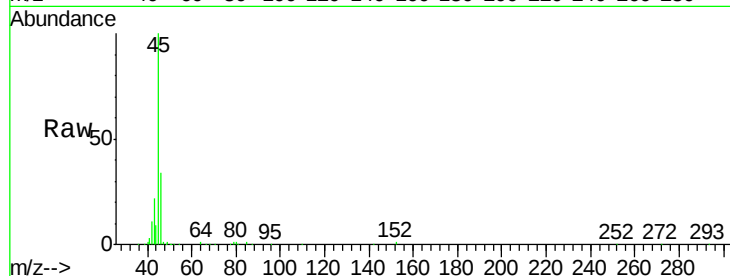
#13
Ethanol
Concen: 7.141 ppbv
RT: 3.58 min Scan# 247
Delta R.T. 0.02 min
Lab File: VL035113.D
Acq: 22 Jun 2020 16:33

Instrument :
MSVOA_L
ClientSampleId :
VL0622ABS01DUP

Tot Ion: 45 Resp: 159424
Ion Ratio Lower Upper
45 100
46 36.9 14.2 57.0

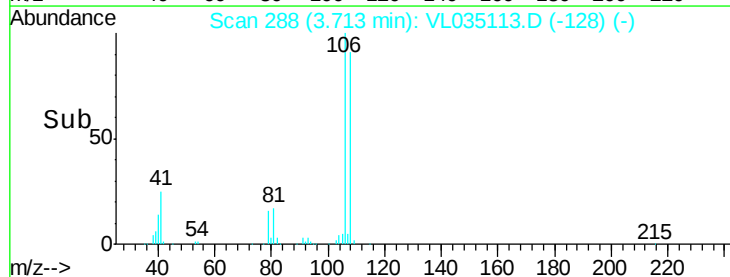
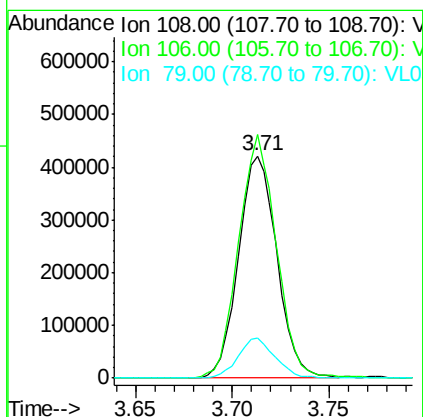
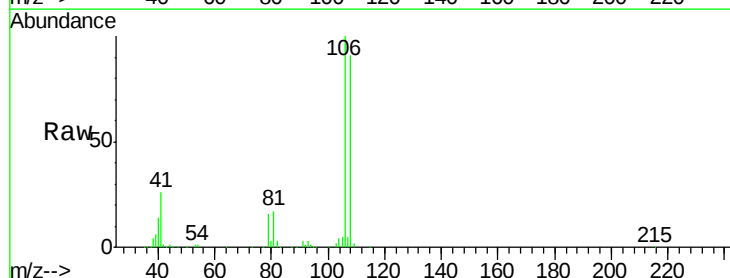
Manual Integrations
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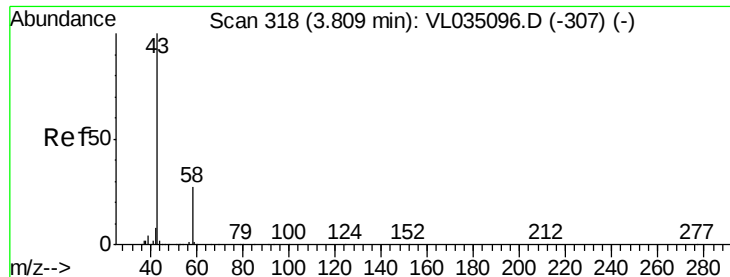
MMDadoda
6/23/2020 10:59:26 AM



#14
Bromoethene
Concen: 10.016 ppbv
RT: 3.71 min Scan# 288
Delta R.T. 0.01 min
Lab File: VL035113.D
Acq: 22 Jun 2020 16:33

Tgt Ion: 108 Resp: 581785
Ion Ratio Lower Upper
108 100
106 107.5 84.4 126.6
79 17.5 14.2 21.2





#15

Acetone

Concen: 8.593 ppbv

RT: 3.83 min Scan# 324

Delta R.T. 0.02 min

Lab File: VL035113.D

Acq: 22 Jun 2020 16:33

Instrument :

MSVOA_L

ClientSampleId :

VL0622ABS01DUP

Tot Ion: 43 Resp: 1403434

Ion Ratio Lower Upper

43 100

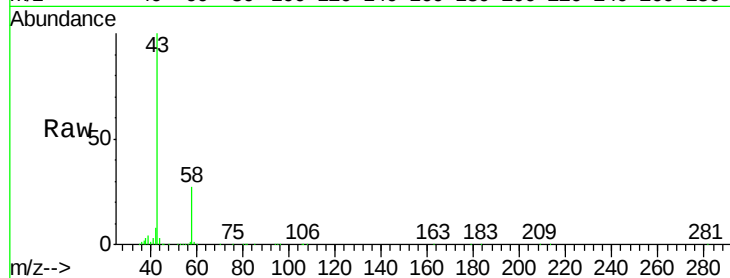
58 27.4 21.8 32.6

Manual Integrations

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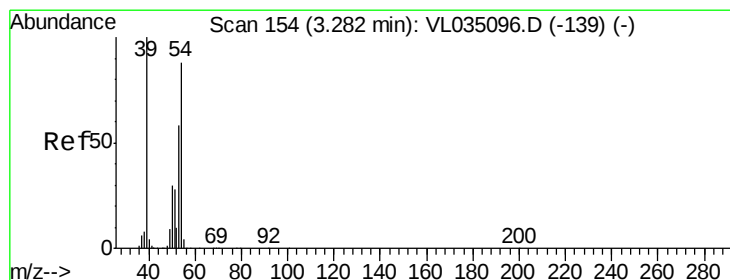
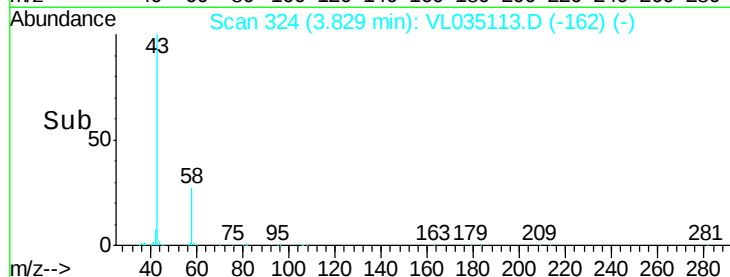
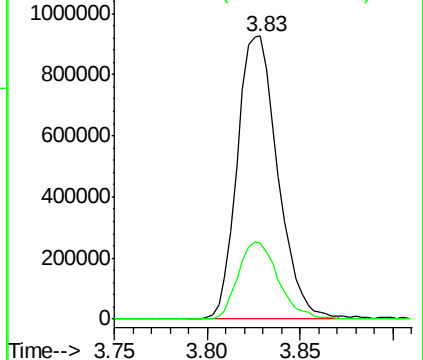
MMDadoda

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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#16

1,3-Butadiene

Concen: 9.981 ppbv

RT: 3.29 min Scan# 158

Delta R.T. 0.01 min

Lab File: VL035113.D

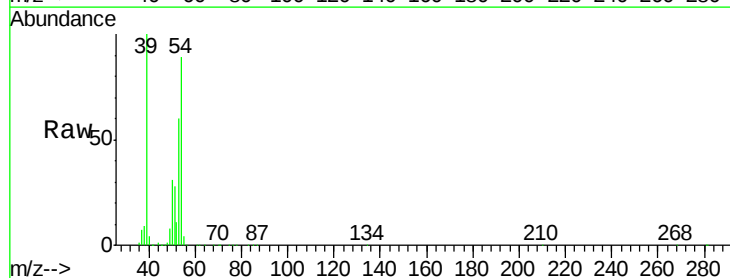
Acq: 22 Jun 2020 16:33

Tgt Ion: 39 Resp: 714938

Ion Ratio Lower Upper

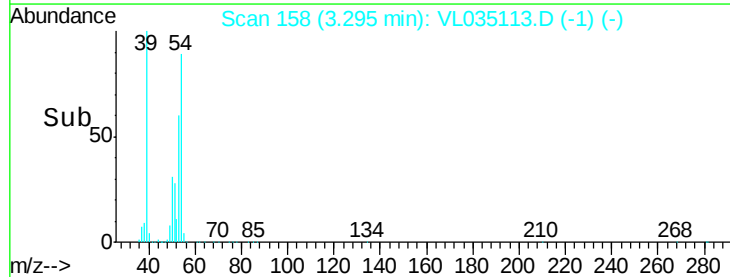
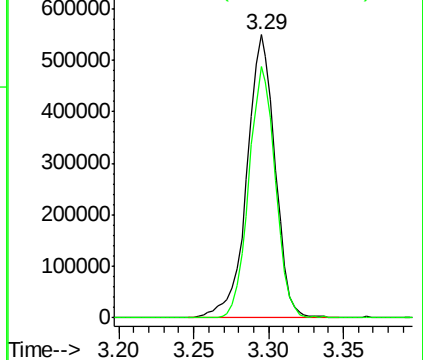
39 100

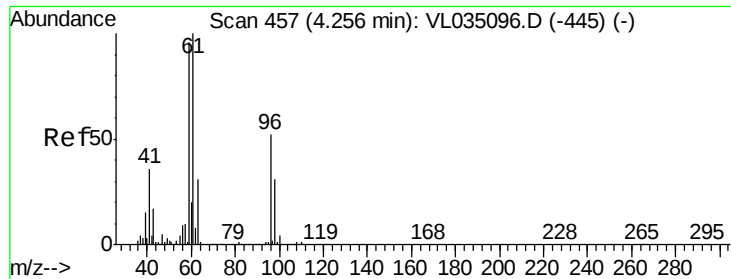
54 84.0 67.0 100.4



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0





#17

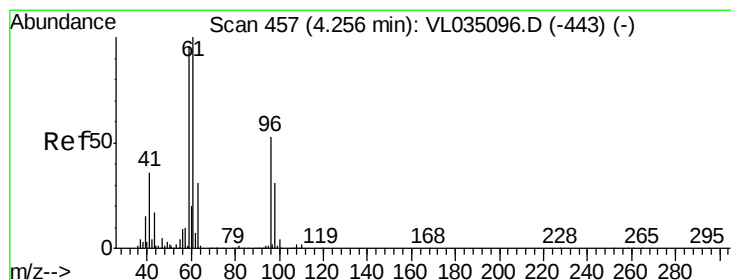
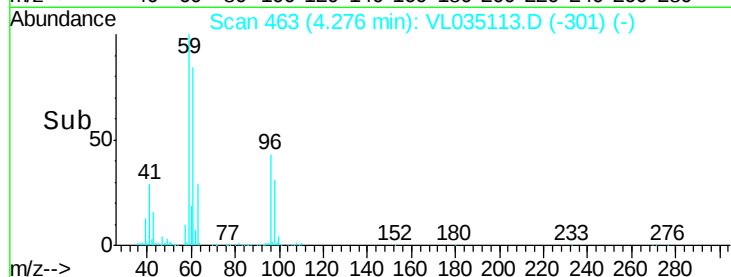
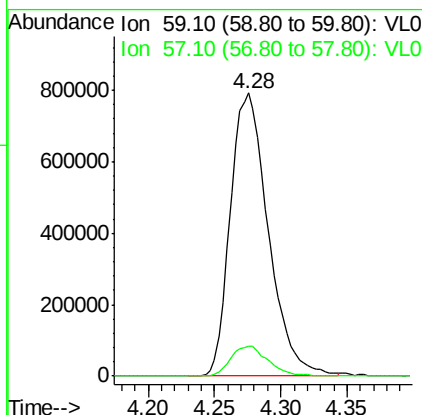
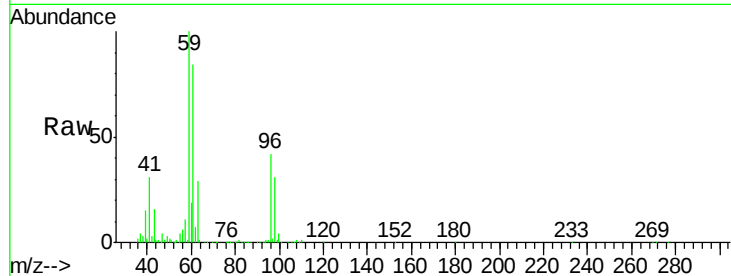
tert-Butyl alcohol
Concen: 10.910 ppbv
RT: 4.28 min Scan# 463
Delta R.T. 0.02 min
Lab File: VL035113.D
Acq: 22 Jun 2020 16:33

Instrument :
MSVOA_L
ClientSampleId :
VL0622ABS01DUP

Tot Ion: 59 Resp: 1579207
Ion Ratio Lower Upper
59 100
57 10.7 8.6 12.8

Manual Integrations
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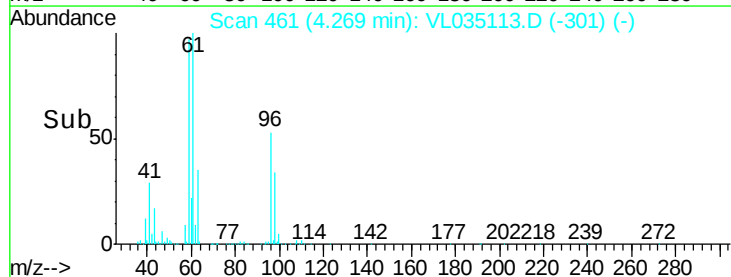
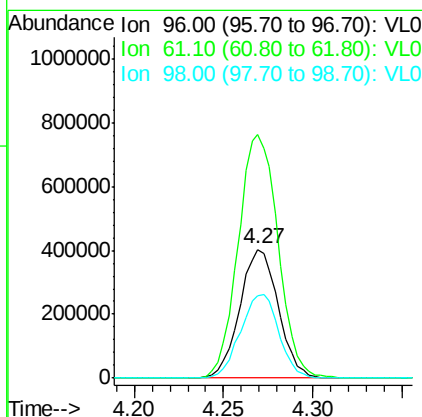
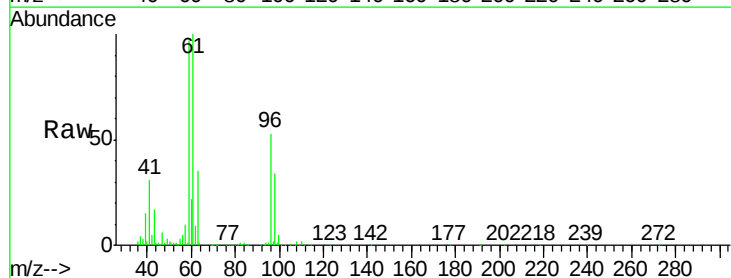
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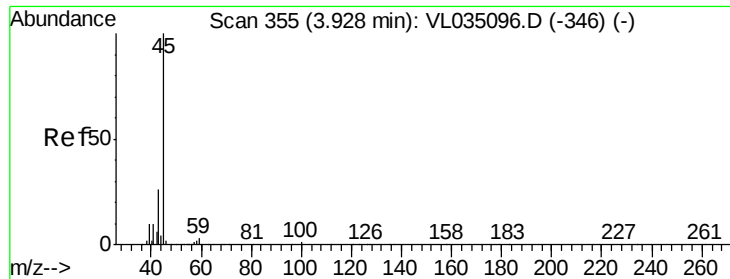


#18

1,1-Dichloroethene
Concen: 10.006 ppbv
RT: 4.27 min Scan# 461
Delta R.T. 0.01 min
Lab File: VL035113.D
Acq: 22 Jun 2020 16:33

Tgt Ion: 96 Resp: 608117
Ion Ratio Lower Upper
96 100
61 189.0 152.2 228.4
98 64.3 47.7 71.5





#19

Isopropyl Alcohol

Concen: 9.980 ppbv

RT: 3.95 min Scan# 361

Delta R.T. 0.02 min

Lab File: VL035113.D

Acq: 22 Jun 2020 16:33

Instrument :

MSVOA_L

ClientSampleId :

VL0622ABS01DUP

Tot Ion: 45 Resp: 1058422

Ion Ratio Lower Upper

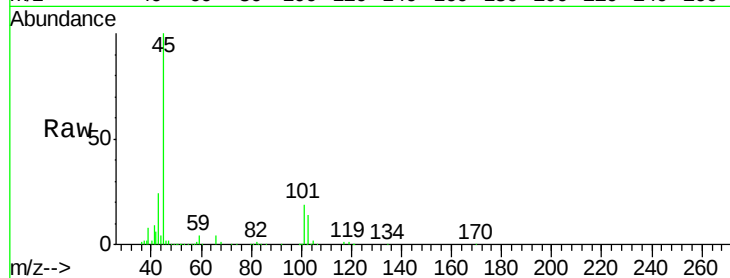
45 100

58 1.6 1.8 2.8#

Manual Integrations
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6/23/2020 10:59:26 AM



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.95

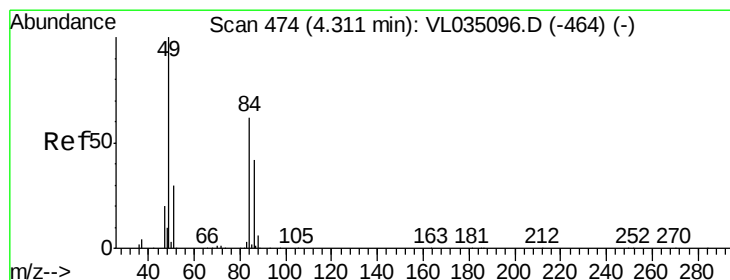
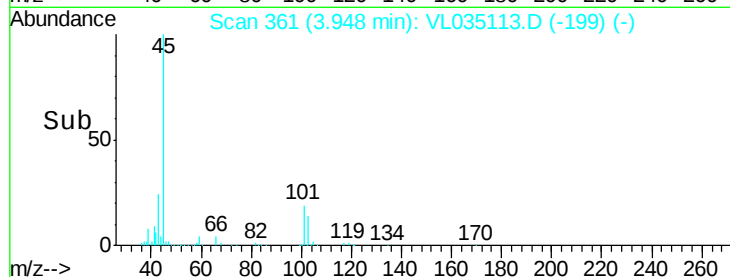
600000

400000

200000

0

Time-->



#20

Methylene Chloride

Concen: 8.187 ppbv

RT: 4.33 min Scan# 479

Delta R.T. 0.02 min

Lab File: VL035113.D

Acq: 22 Jun 2020 16:33

Tgt Ion: 84 Resp: 541178

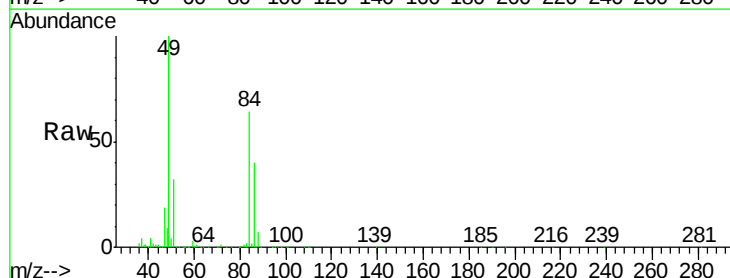
Ion Ratio Lower Upper

84 100

49 154.9 128.8 193.2

51 49.4 38.7 58.1

86 62.5 54.1 81.1



Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0

800000

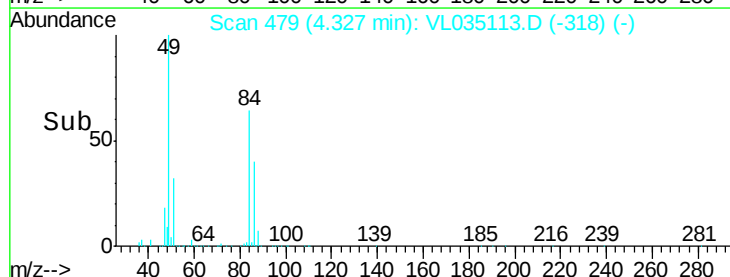
600000

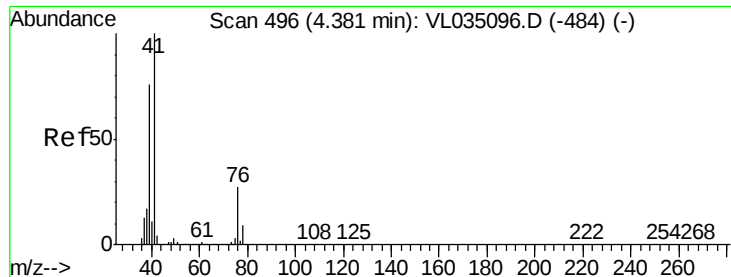
400000

200000

0

Time-->





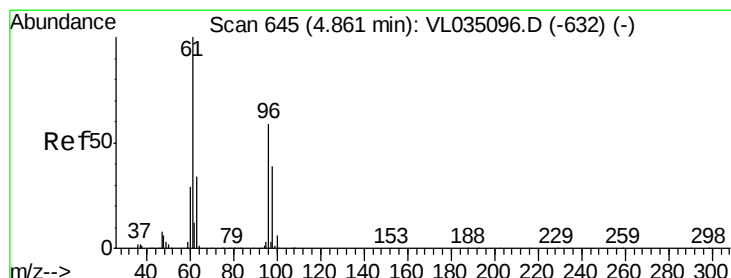
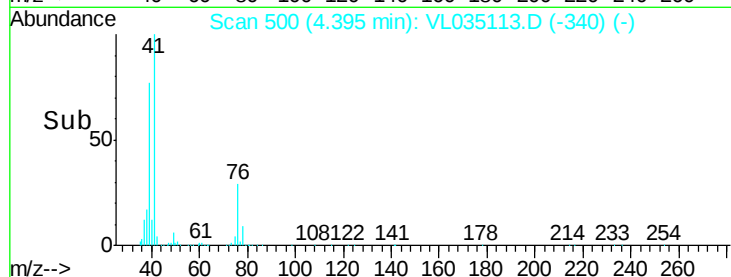
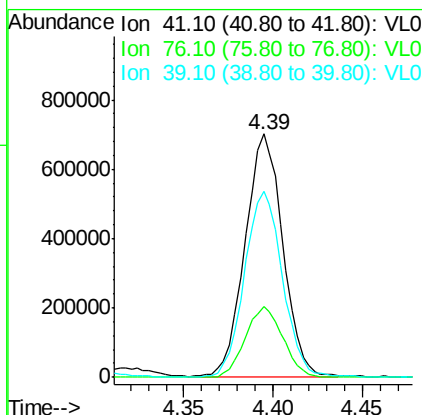
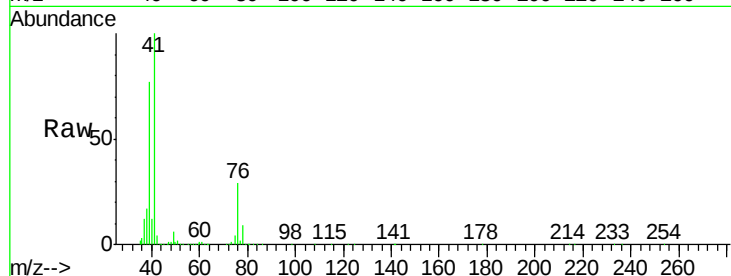
#21
Allvl Chloride
Concen: 10.624 ppbv
RT: 4.39 min Scan# 500
Delta R.T. 0.01 min
Lab File: VL035113.D
Acq: 22 Jun 2020 16:33

Instrument :
MSVOA_L
ClientSampleId :
VL0622ABS01DUP

Tot Ion	Ratio	Lower	Upper
41	100		
76	29.2	22.6	34.0
39	77.3	61.6	92.4

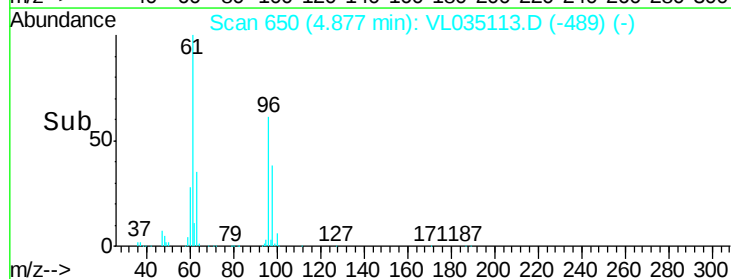
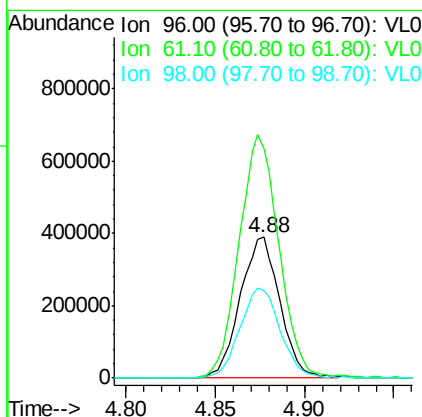
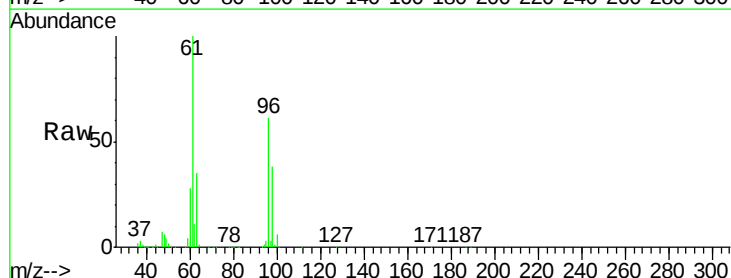
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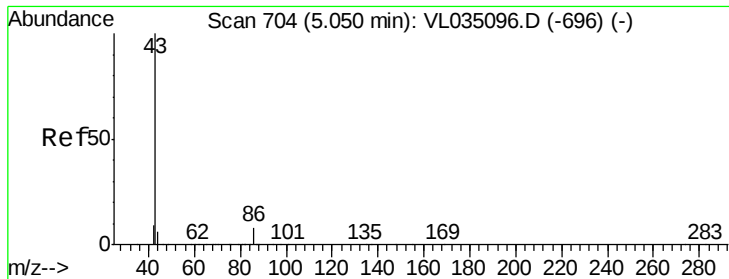
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#22
trans-1,2-Dichloroethene
Concen: 10.665 ppbv
RT: 4.88 min Scan# 650
Delta R.T. 0.02 min
Lab File: VL035113.D
Acq: 22 Jun 2020 16:33

Tgt Ion	Ratio	Lower	Upper
96	100		
61	163.1	134.5	201.7
98	61.8	52.6	79.0





#23

Vinyl Acetate

Concen: 10.956 ppbv

RT: 5.07 min Scan# 709

Delta R.T. 0.02 min

Lab File: VL035113.D

Acq: 22 Jun 2020 16:33

Instrument :

MSVOA_L

ClientSampleId :

VL0622ABS01DUP

Tot Ion: 43 Resp: 2172051

Ion Ratio Lower Upper

43 100

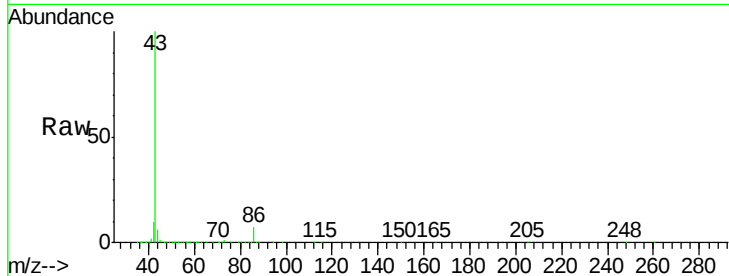
86 7.3 6.2 9.2

42 9.7 8.1 12.1

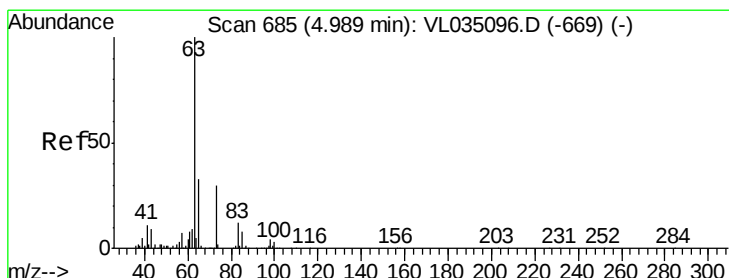
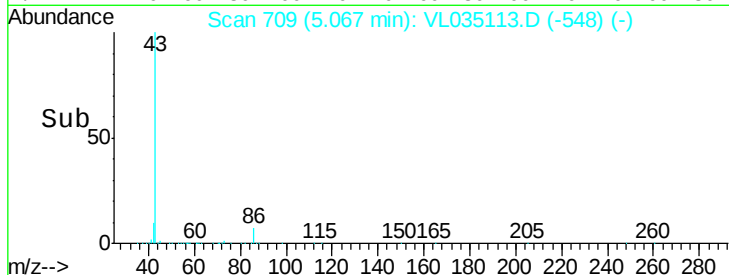
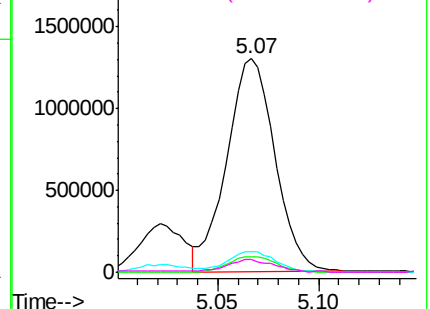
44 5.7 4.6 7.0

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Abundance Ion 43.10 (42.80 to 43.80): VL0
2000000
Ion 86.10 (85.80 to 86.80): VL0
Ion 42.10 (41.80 to 42.80): VL0
Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 9.347 ppbv

RT: 5.00 min Scan# 689

Delta R.T. 0.01 min

Lab File: VL035113.D

Acq: 22 Jun 2020 16:33

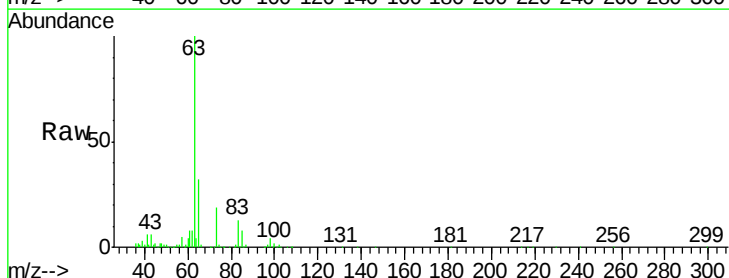
Tgt Ion: 63 Resp: 1562354

Ion Ratio Lower Upper

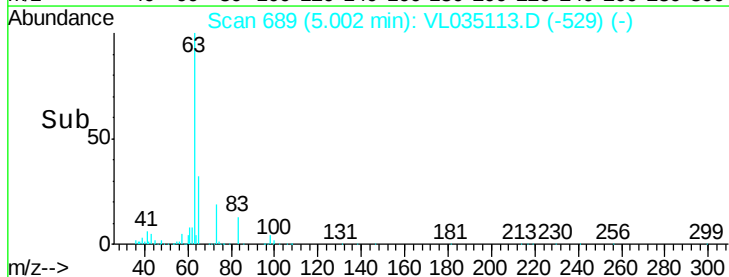
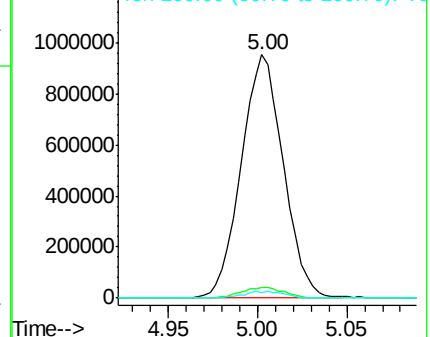
63 100

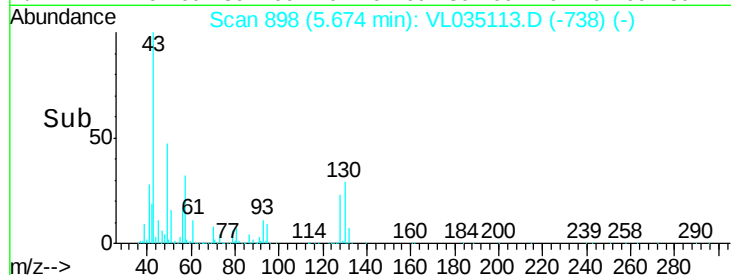
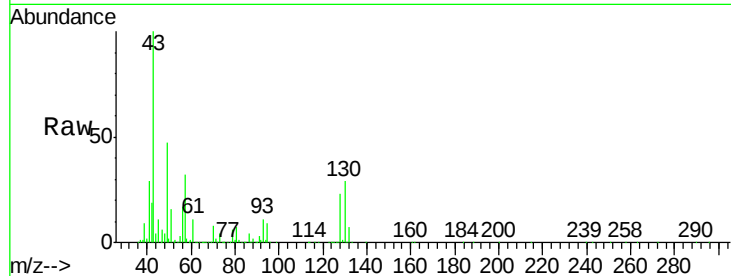
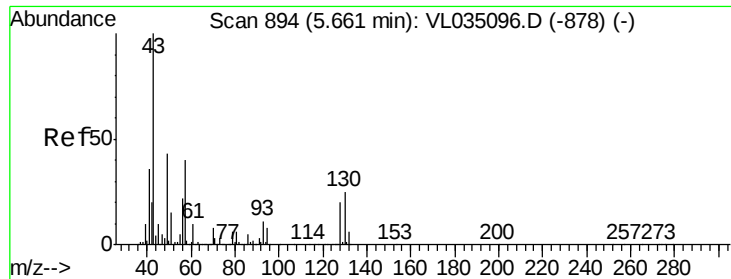
98 4.2 2.3 6.9

100 2.3 1.4 4.0



Abundance Ion 63.10 (62.80 to 63.80): VL0
1200000
Ion 98.00 (97.70 to 98.70): VL0
Ion 100.00 (99.70 to 100.70): VL0





#25

Ethyl Acetate

Concen: 9.351 ppbv

RT: 5.67 min Scan# 898

Delta R.T. 0.01 min

Lab File: VL035113.D

Acq: 22 Jun 2020 16:33

Tot Ion: 43 Resp: 2756241

Ion Ratio Lower Upper

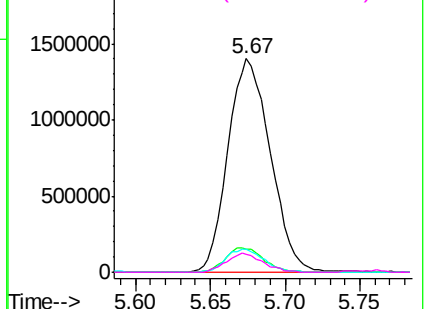
43 100

45 10.6 8.4 12.6

61 10.1 8.0 12.0

70 7.7 6.3 9.5

Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 45.10 (44.80 to 45.80): VL0
Ion 61.10 (60.80 to 61.80): VL0
Ion 70.10 (69.80 to 70.80): VL0



Instrument :

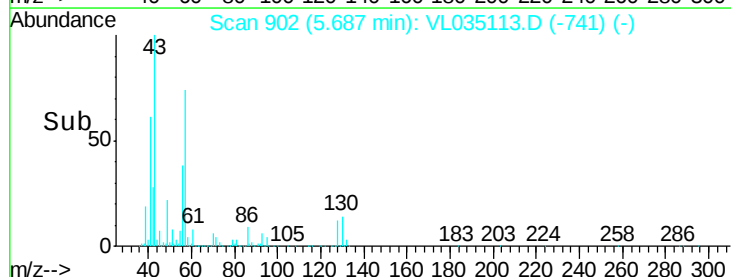
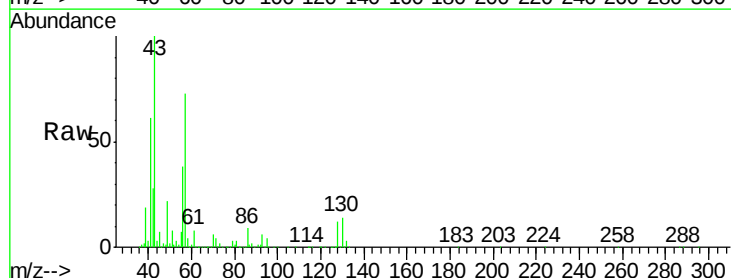
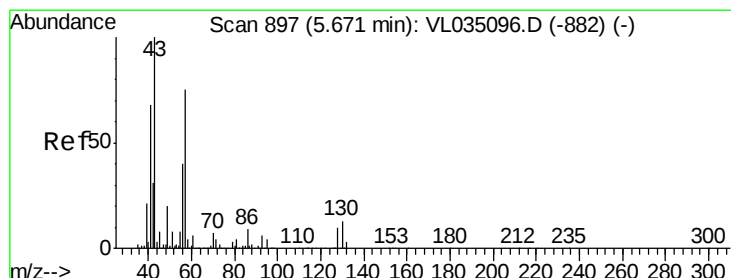
MSVOA_L

ClientSampleId :

VL0622ABS01DUP

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#26

Hexane

Concen: 9.232 ppbv

RT: 5.69 min Scan# 902

Delta R.T. 0.02 min

Lab File: VL035113.D

Acq: 22 Jun 2020 16:33

Tgt Ion: 57 Resp: 1226852

Ion Ratio Lower Upper

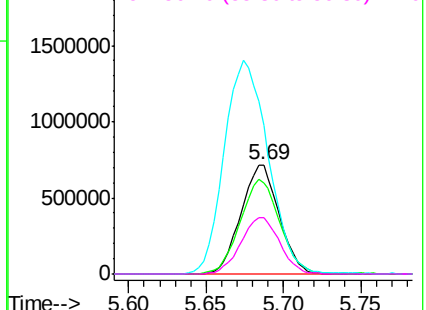
57 100

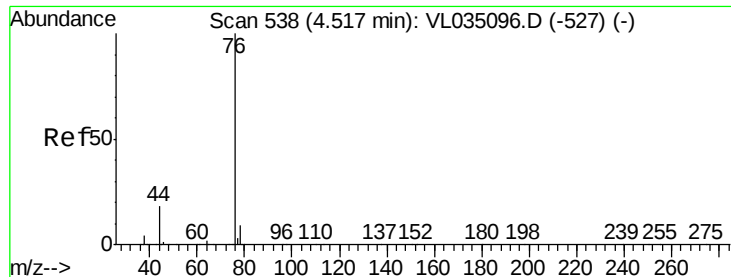
41 91.4 72.9 109.3

43 225.7 181.3 271.9

56 52.9 43.1 64.7

Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0





#27

Carbon Disulfide

Concen: 11.848 ppbv

RT: 4.53 min Scan# 543

Delta R.T. 0.02 min

Lab File: VL035113.D

Acq: 22 Jun 2020 16:33

Instrument :

MSVOA_L

ClientSampleId :

VL0622ABS01DUP

Tot Ion: 76 Resp: 1629475

Ion Ratio Lower Upper

76 100

44 18.7 15.8 23.8

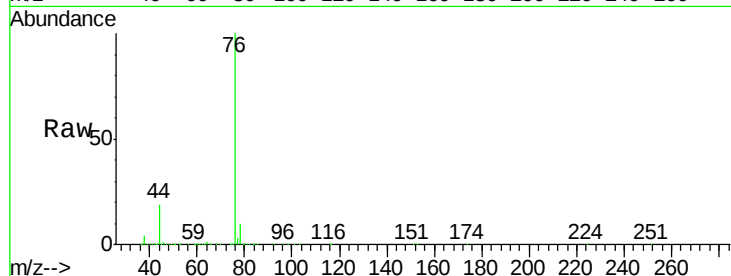
78 9.7 7.6 11.4

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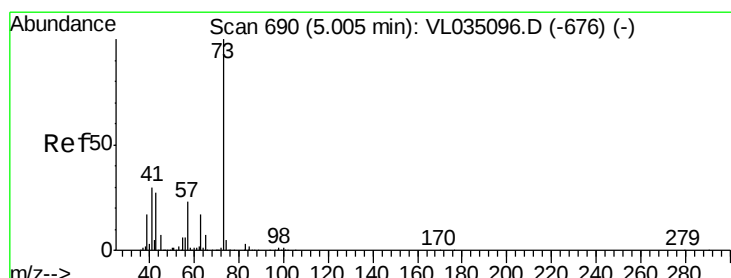
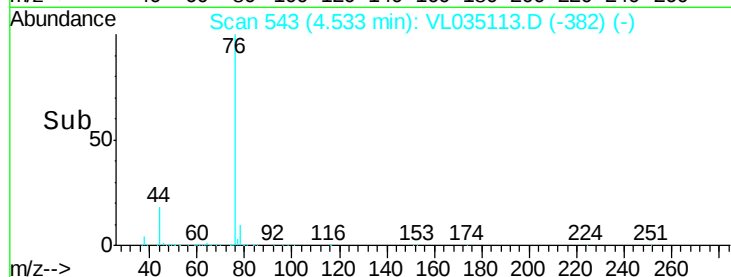
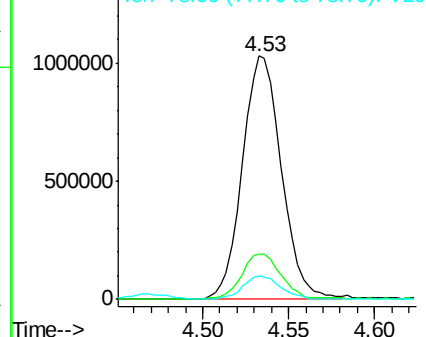
6/23/2020 10:59:26 AM



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: 10.405 ppbv

RT: 5.02 min Scan# 695

Delta R.T. 0.02 min

Lab File: VL035113.D

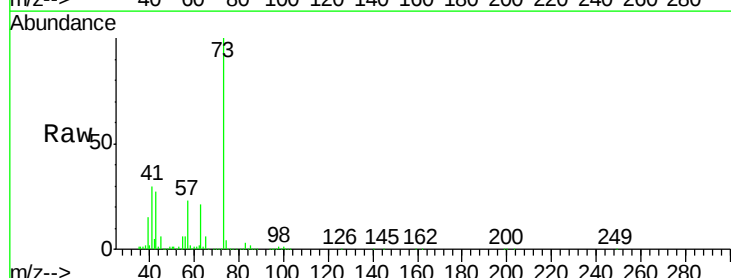
Acq: 22 Jun 2020 16:33

Tgt Ion: 73 Resp: 1942846

Ion Ratio Lower Upper

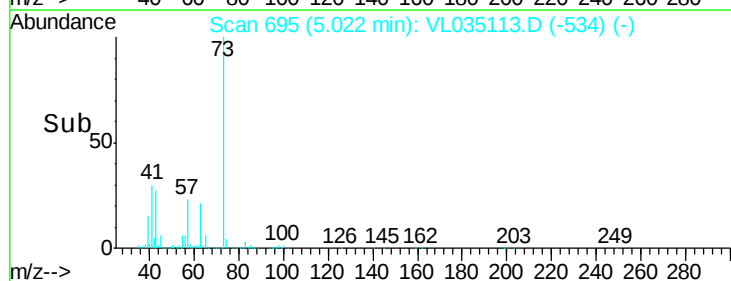
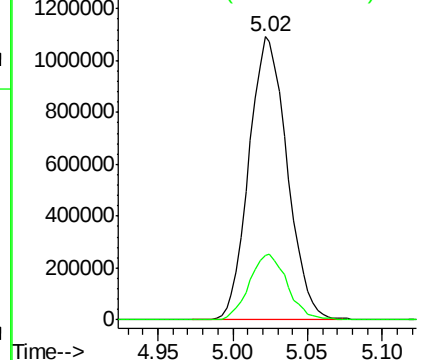
73 100

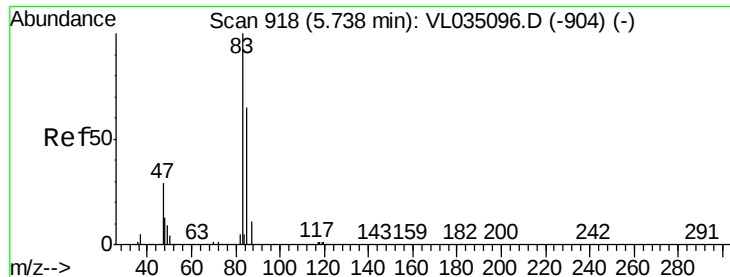
57 23.2 18.5 27.7



Abundance Ion 73.10 (72.80 to 73.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





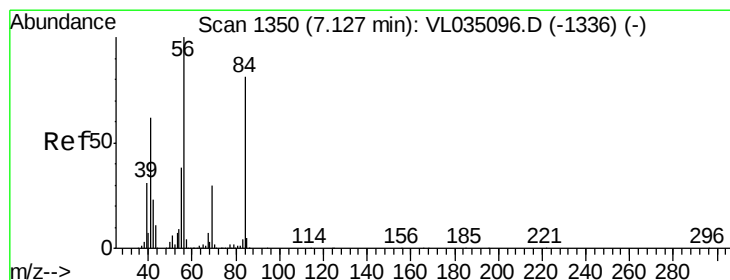
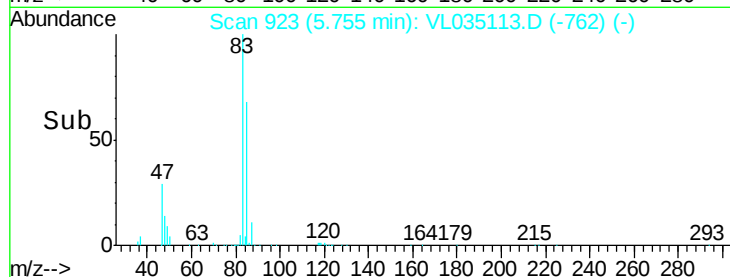
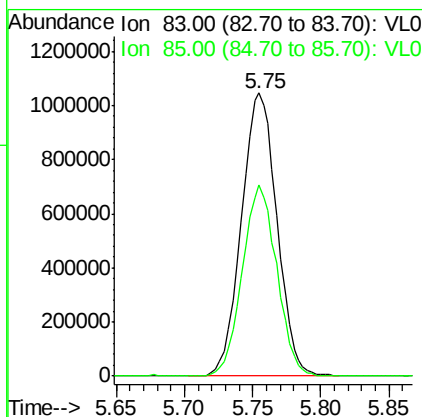
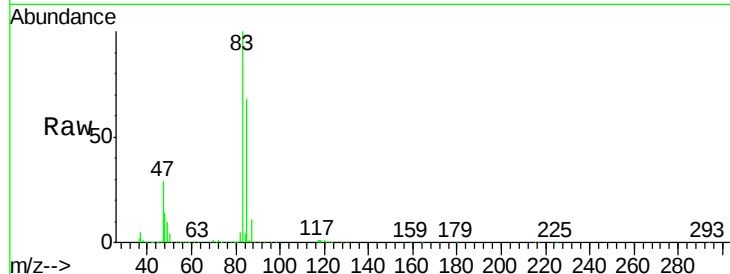
#29
Chloroform
Concen: 9.090 ppbv
RT: 5.75 min Scan# 923
Delta R.T. 0.02 min
Lab File: VL035113.D
Acq: 22 Jun 2020 16:33

Instrument :
MSVOA_L
ClientSampleId :
VL0622ABS01DUP

Tot Ion: 83 Resp: 1890388
Ion Ratio Lower Upper
83 100
85 67.5 52.1 78.1

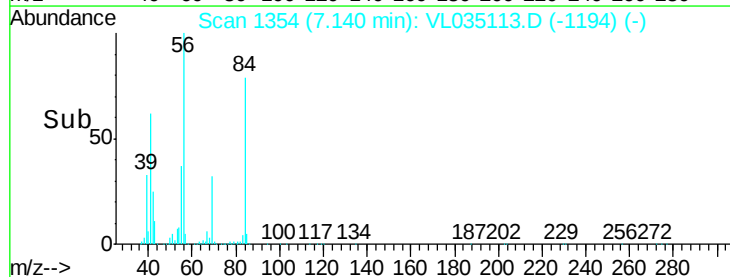
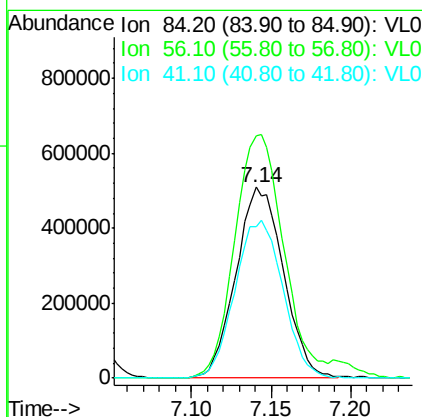
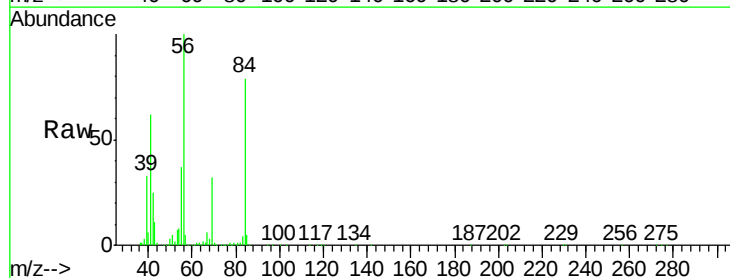
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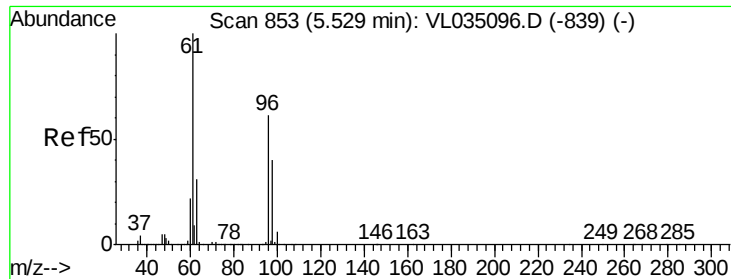
MMDadoda
6/23/2020 10:59:26 AM



#30
Cyclohexane
Concen: 10.783 ppbv
RT: 7.14 min Scan# 1354
Delta R.T. 0.01 min
Lab File: VL035113.D
Acq: 22 Jun 2020 16:33

Tgt Ion: 84 Resp: 1028522
Ion Ratio Lower Upper
84 100
56 137.5 108.0 162.0
41 84.1 65.6 98.4





#31

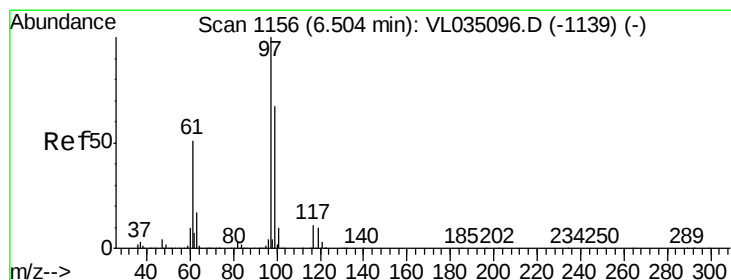
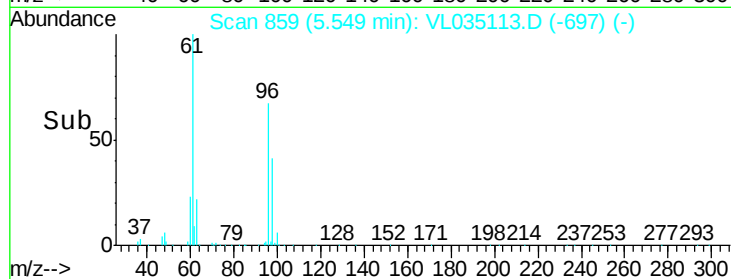
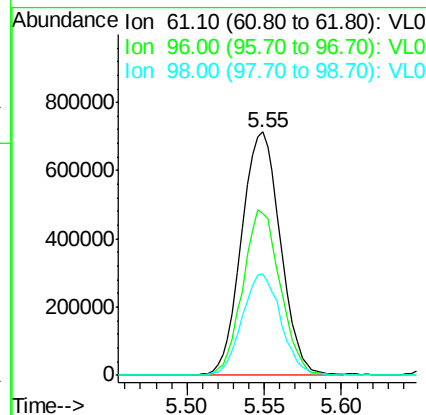
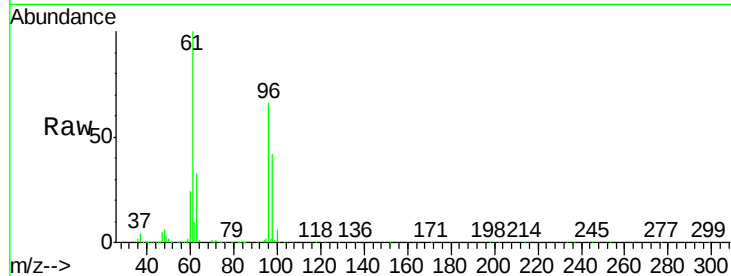
cis-1,2-Dichloroethene
Concen: 10.204 ppbv
RT: 5.55 min Scan# 859
Delta R.T. 0.02 min
Lab File: VL035113.D
Acq: 22 Jun 2020 16:33

Instrument :
MSVOA_L
ClientSampleId :
VL0622ABS01DUP

Tot Ion	Ratio	Lower	Upper
61	100		
96	66.2	48.8	73.2
98	41.6	31.9	47.9

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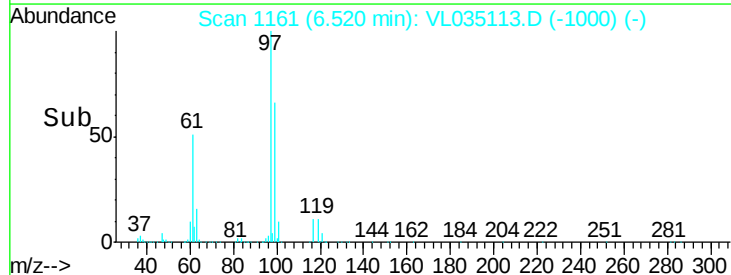
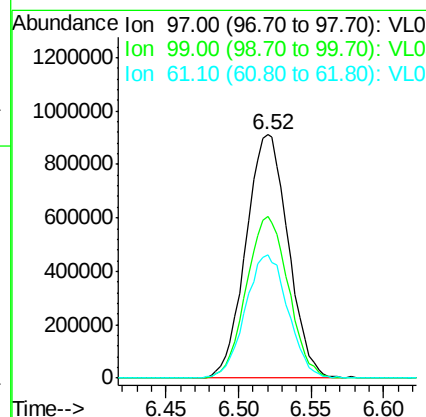
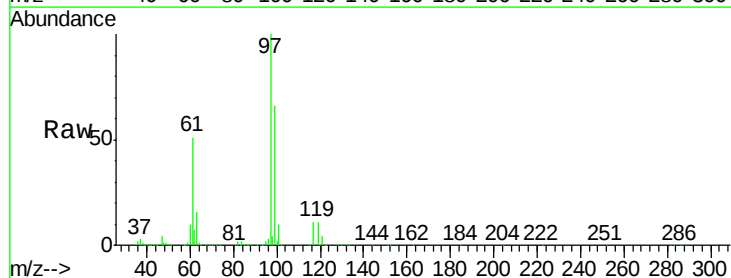
MMDadoda
6/23/2020 10:59:26 AM

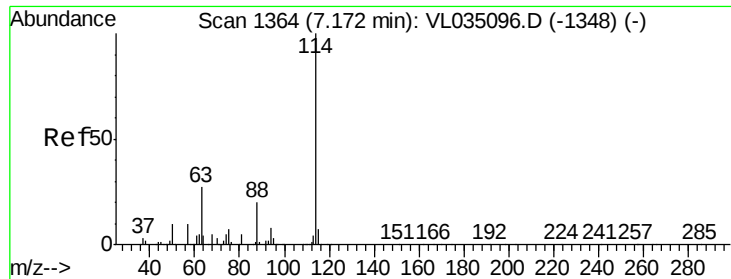


#32

1,1,1-Trichloroethane
Concen: 9.563 ppbv
RT: 6.52 min Scan# 1161
Delta R.T. 0.02 min
Lab File: VL035113.D
Acq: 22 Jun 2020 16:33

Tgt Ion	Ratio	Lower	Upper
97	100		
99	66.1	52.0	78.0
61	51.3	41.0	61.6





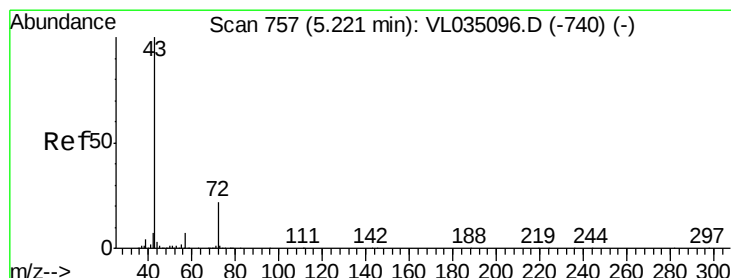
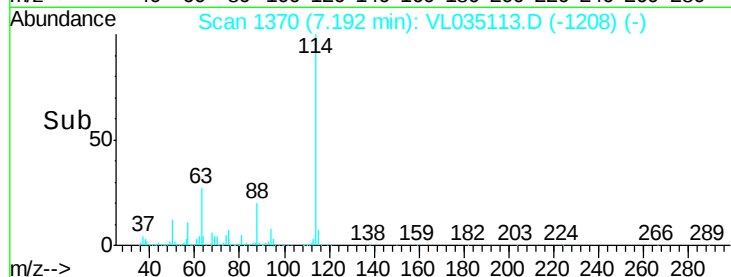
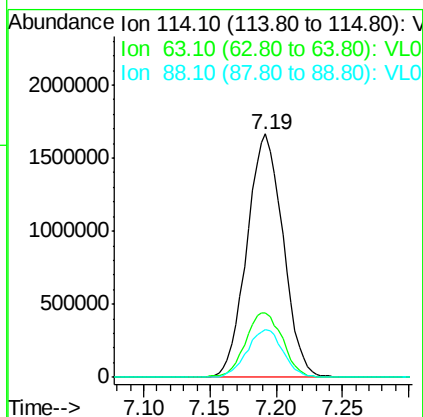
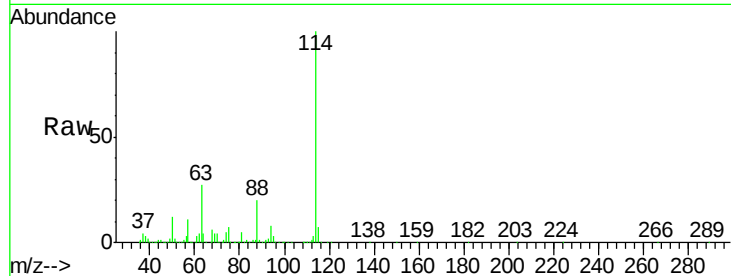
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.19 min Scan# 1370
 Delta R.T. 0.02 min
 Lab File: VL035113.D
 Acq: 22 Jun 2020 16:33

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0622ABS01DUP

Tot Ion	Ratio	Lower	Upper
114	100		
63	27.6	21.9	32.9
88	19.5	15.6	23.4

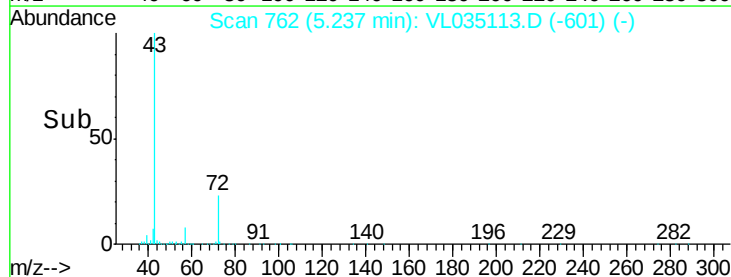
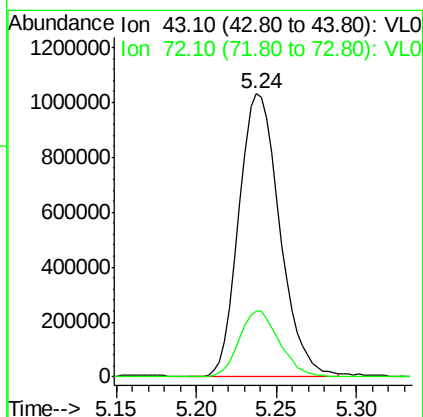
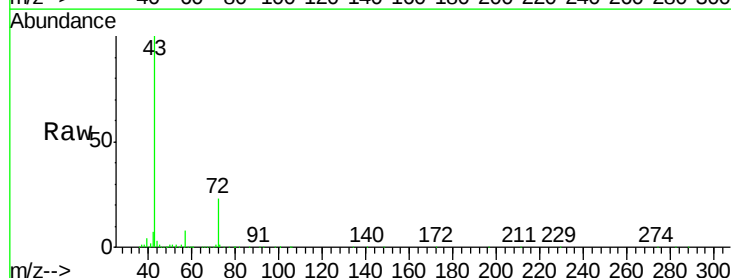
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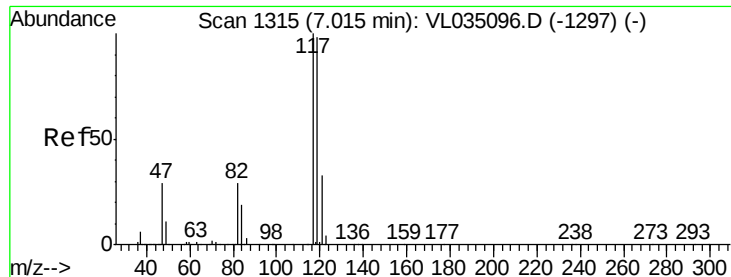
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#34
 2-Butanone
 Concen: 9.903 ppbv
 RT: 5.24 min Scan# 762
 Delta R.T. 0.02 min
 Lab File: VL035113.D
 Acq: 22 Jun 2020 16:33

Tgt Ion	Ratio	Lower	Upper
43	100		
72	23.1	18.3	27.5





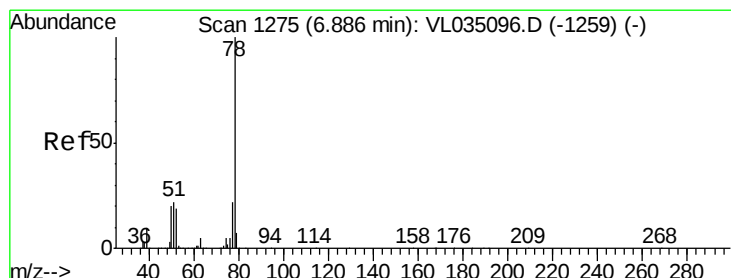
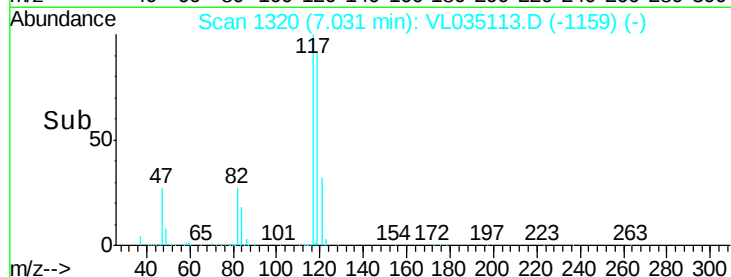
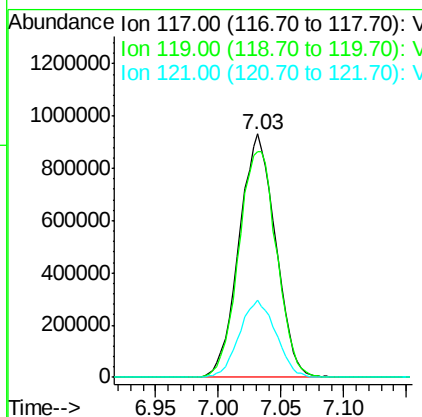
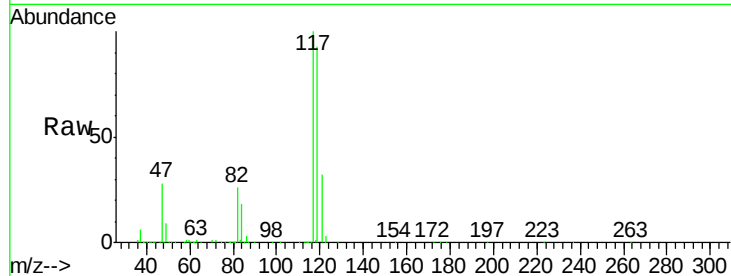
#35
Carbon Tetrachloride
Concen: 9.940 ppbv
RT: 7.03 min Scan# 1320
Delta R.T. 0.02 min
Lab File: VL035113.D
Acq: 22 Jun 2020 16:33

Instrument :
MSVOA_L
ClientSampleId :
VL0622ABS01DUP

Tot Ion	Ratio	Lower	Upper
117	100		
119	92.9	78.3	117.5
121	31.7	26.0	39.0

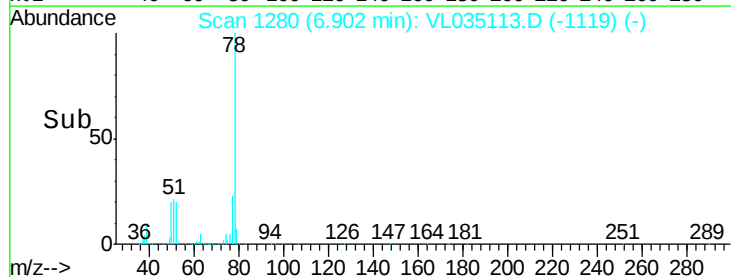
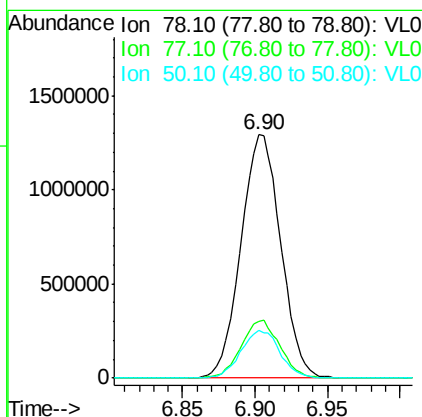
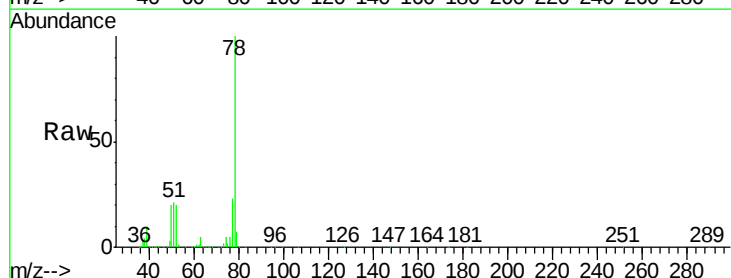
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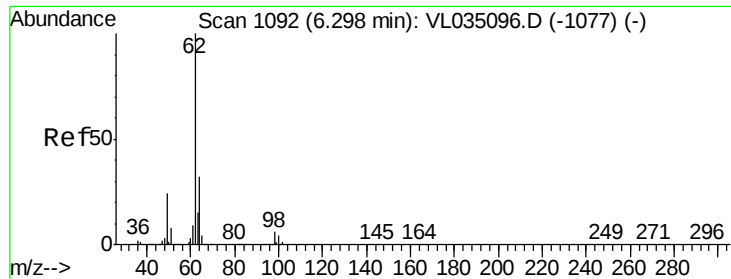
MMDadoda
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#36
Benzene
Concen: 10.086 ppbv
RT: 6.90 min Scan# 1280
Delta R.T. 0.02 min
Lab File: VL035113.D
Acq: 22 Jun 2020 16:33

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.1	17.8	26.6
50	19.8	16.2	24.2





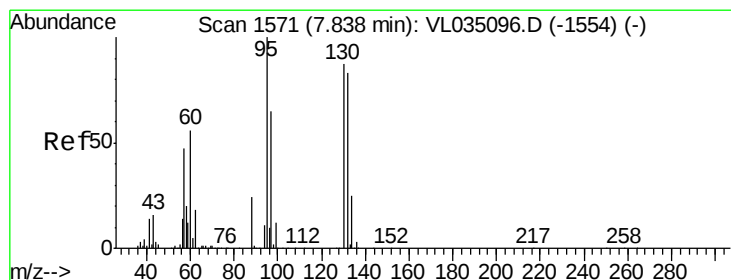
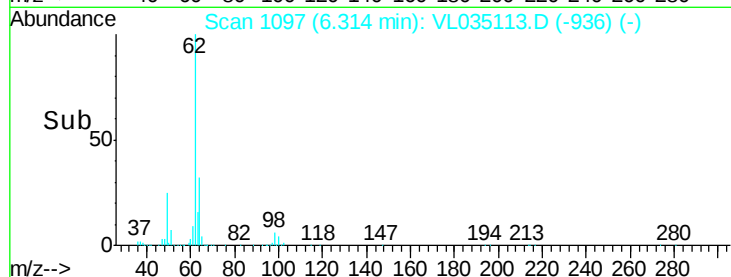
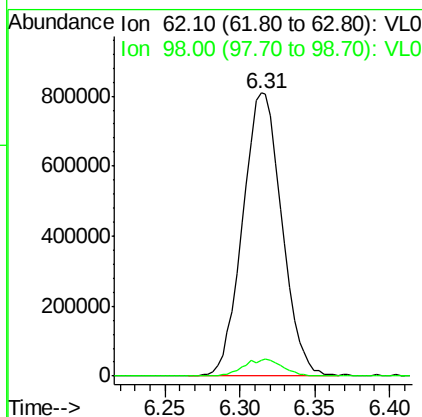
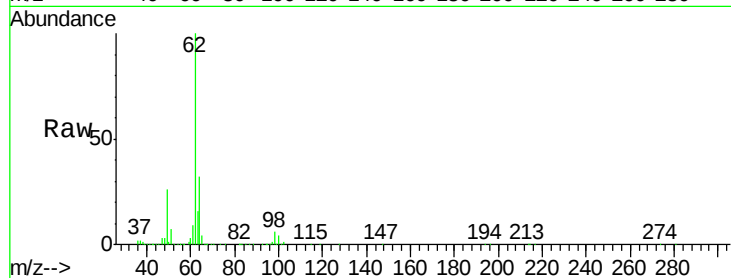
#37
 1,2-Dichloroethane
 Concen: 9.557 ppbv
 RT: 6.31 min Scan# 1097
 Delta R.T. 0.02 min
 Lab File: VL035113.D
 Acq: 22 Jun 2020 16:33

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0622ABS01DUP

Tot Ion: 62 Resp: 1476689
 Ion Ratio Lower Upper
 62 100
 98 6.1 4.8 7.2

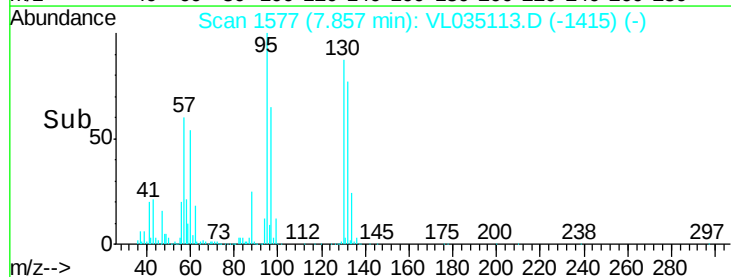
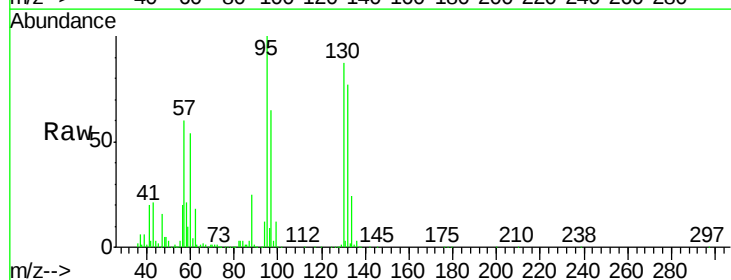
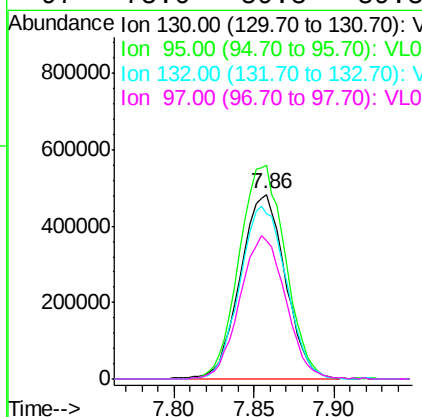
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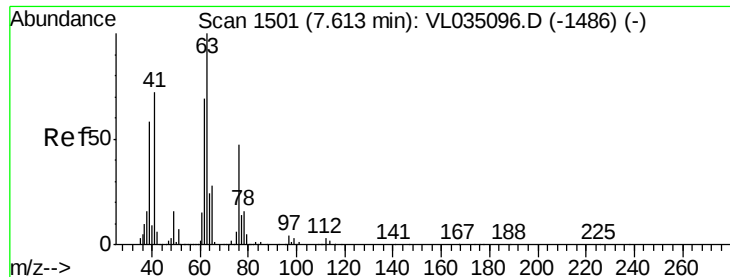
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 6/23/2020 10:59:26 AM



#38
 Trichloroethene
 Concen: 9.723 ppbv
 RT: 7.86 min Scan# 1577
 Delta R.T. 0.02 min
 Lab File: VL035113.D
 Acq: 22 Jun 2020 16:33

Tgt Ion: 130 Resp: 923302
 Ion Ratio Lower Upper
 130 100
 95 115.8 91.4 137.2
 132 89.7 75.8 113.6
 97 75.0 59.8 89.8





#39

1,2-Dichloropropane

Concen: 10.167 ppbv

RT: 7.63 min Scan# 1507

Delta R.T. 0.02 min

Lab File: VL035113.D

Acq: 22 Jun 2020 16:33

Instrument :

MSVOA_L

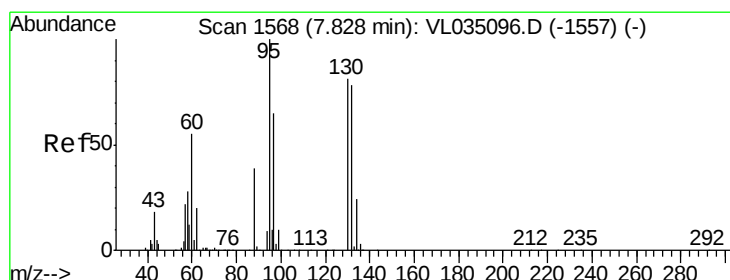
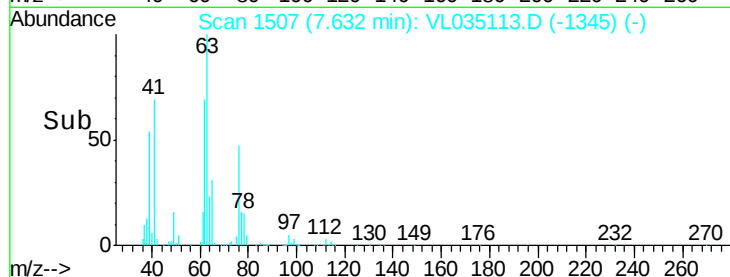
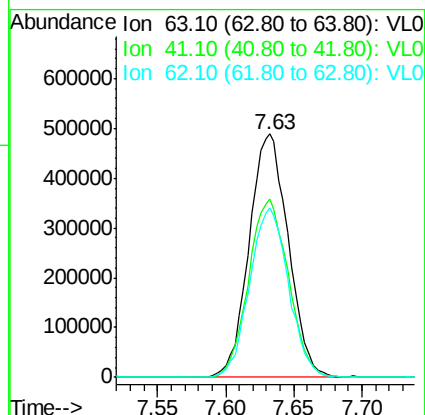
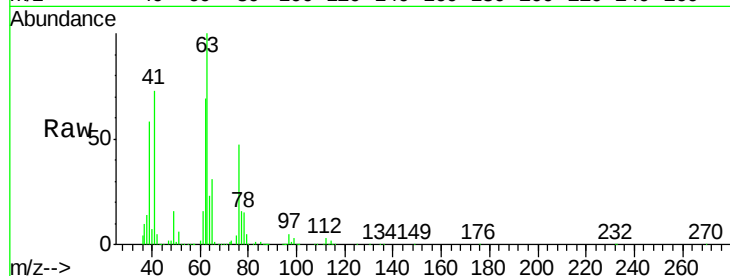
ClientSampleId :

VL0622ABS01DUP

Tot Ion:	63	Resp:	972173
Ion Ratio	Lower	Upper	
63	100		
41	73.3	58.0	87.0
62	69.4	55.4	83.0

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#40

1,4-Dioxane

Concen: 9.564 ppbv m

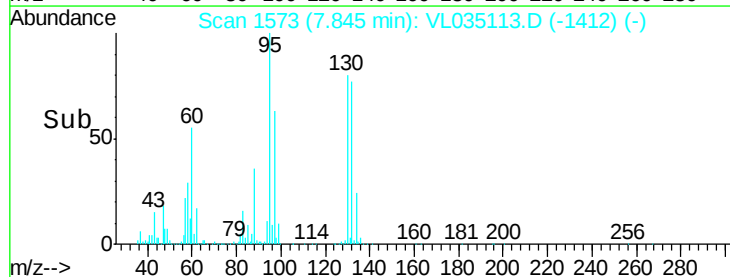
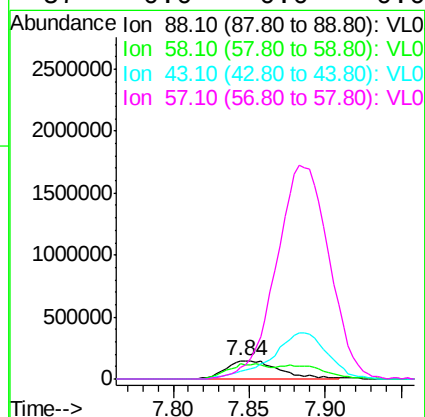
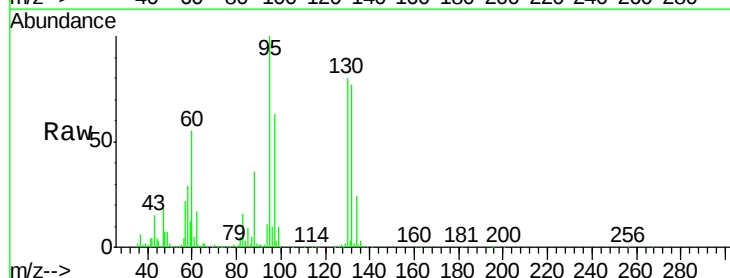
RT: 7.84 min Scan# 1573

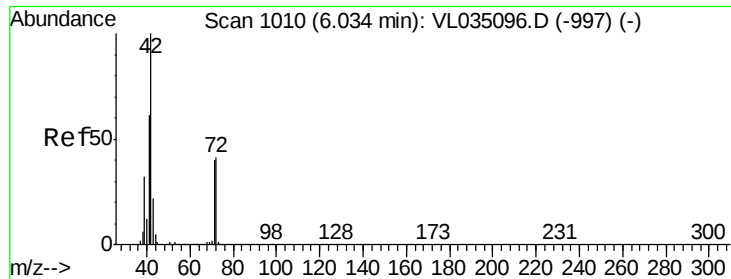
Delta R.T. 0.02 min

Lab File: VL035113.D

Acq: 22 Jun 2020 16:33

Tgt Ion:	88	Resp:	360712
Ion Ratio	Lower	Upper	
88	100		
58	0.0	110.2	165.4#
43	0.0	0.0	0.0
57	0.0	0.0	0.0





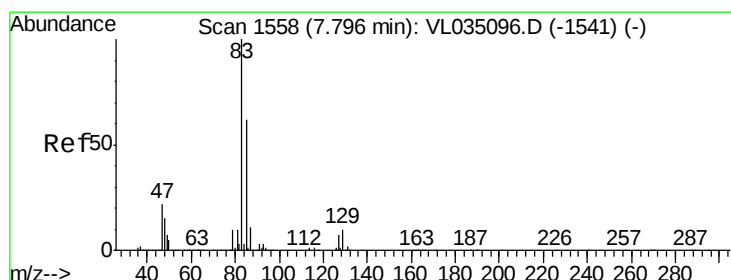
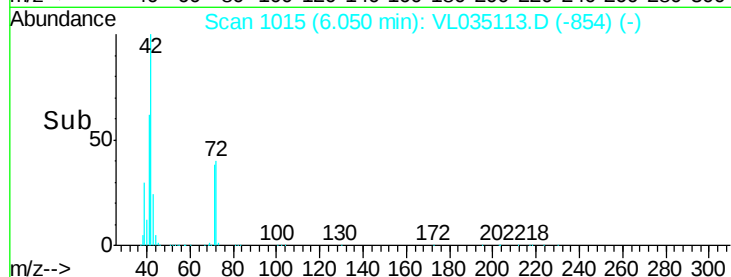
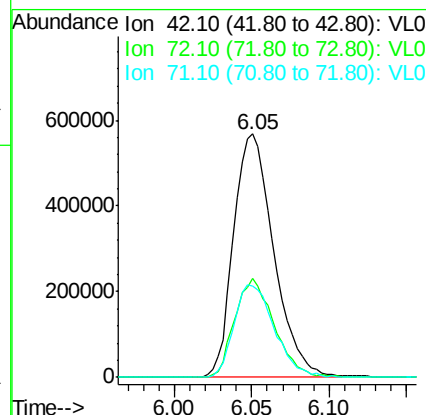
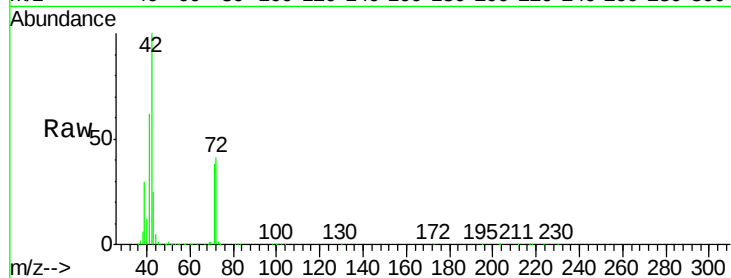
#41
Tetrahydrofuran
Concen: 11.055 ppbv
RT: 6.05 min Scan# 1015
Delta R.T. 0.02 min
Lab File: VL035113.D
Acq: 22 Jun 2020 16:33

Instrument :
MSVOA_L
ClientSampleId :
VL0622ABS01DUP

Tot Ion	Ratio	Lower	Upper
42	100		
72	40.2	33.4	50.2
71	38.3	31.8	47.6

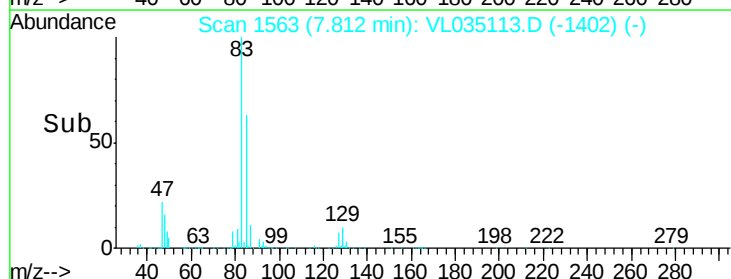
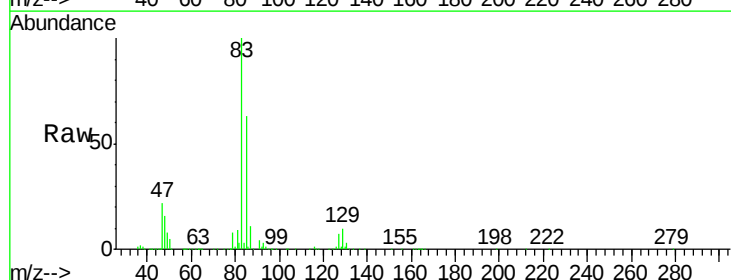
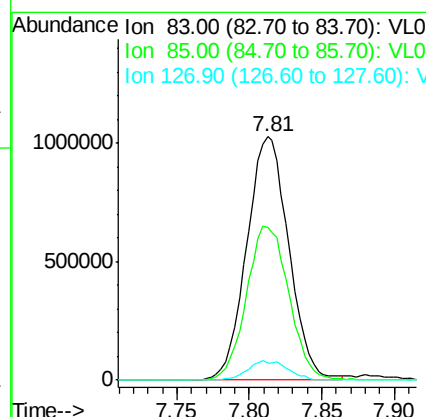
Manual Integrations
APPROVED

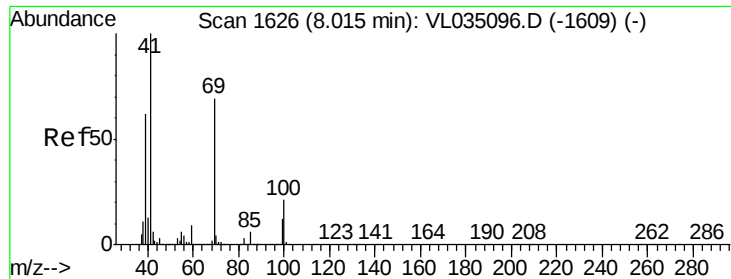
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#42
Bromodichloromethane
Concen: 10.344 ppbv
RT: 7.81 min Scan# 1563
Delta R.T. 0.02 min
Lab File: VL035113.D
Acq: 22 Jun 2020 16:33

Tgt Ion	Ratio	Lower	Upper
83	100		
85	62.9	49.4	74.0
127	7.0	5.9	8.9





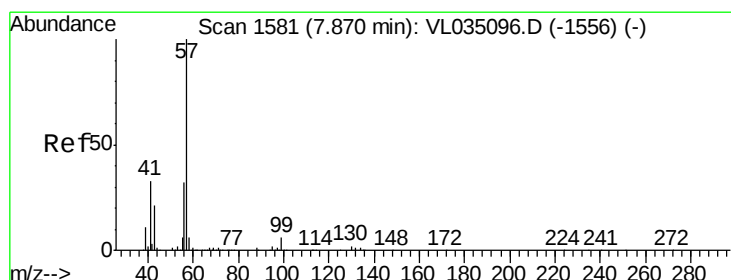
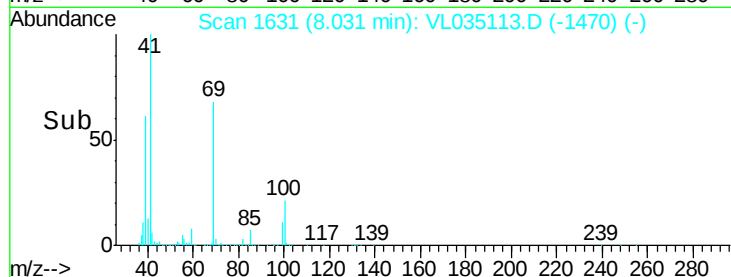
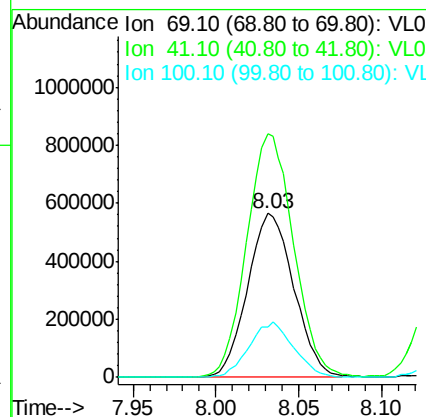
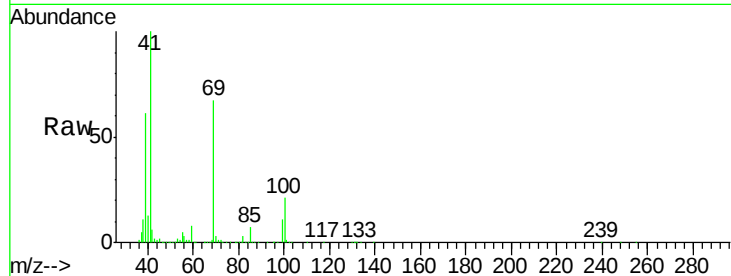
#43
Methvl Methacrylate
Concen: 10.581 ppbv
RT: 8.03 min Scan# 1631
Delta R.T. 0.02 min
Lab File: VL035113.D
Acq: 22 Jun 2020 16:33

Instrument :
MSVOA_L
ClientSampleId :
VL0622ABS01DUP

Tot Ion: 69 Resp: 1094895
Ion Ratio Lower Upper
69 100
41 150.4 116.4 174.6
100 32.4 25.3 37.9

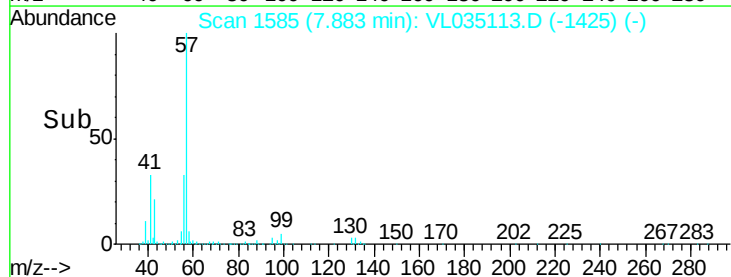
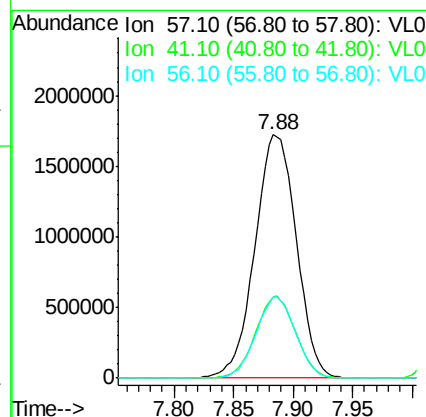
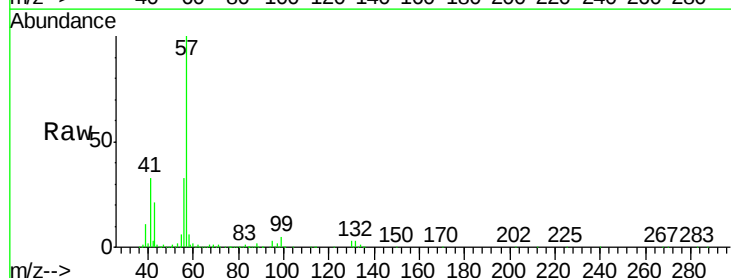
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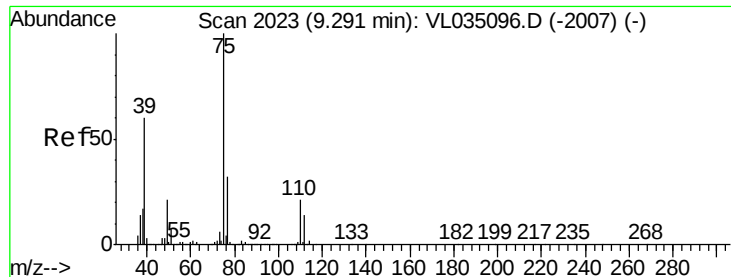
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#44
2,2,4-Trimethylpentane
Concen: 9.751 ppbv
RT: 7.88 min Scan# 1585
Delta R.T. 0.01 min
Lab File: VL035113.D
Acq: 22 Jun 2020 16:33

Tgt Ion: 57 Resp: 4160668
Ion Ratio Lower Upper
57 100
41 32.6 26.2 39.2
56 31.8 25.4 38.2





#45

t-1,3-Dichloropropene

Concen: 12.742 ppbv

RT: 9.31 min Scan# 2028

Delta R.T. 0.02 min

Lab File: VL035113.D

Acq: 22 Jun 2020 16:33

Instrument :

MSVOA_L

ClientSampleId :

VL0622ABS01DUP

Tot Ion: 75 Resp: 1283249

Ion Ratio Lower Upper

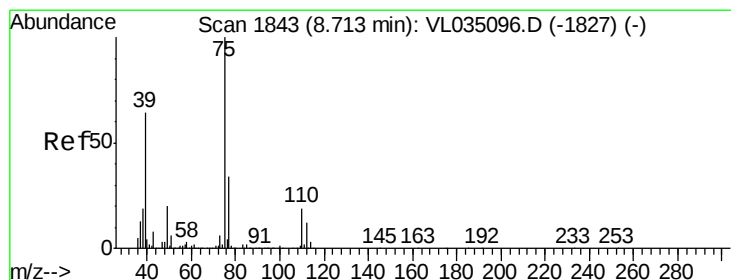
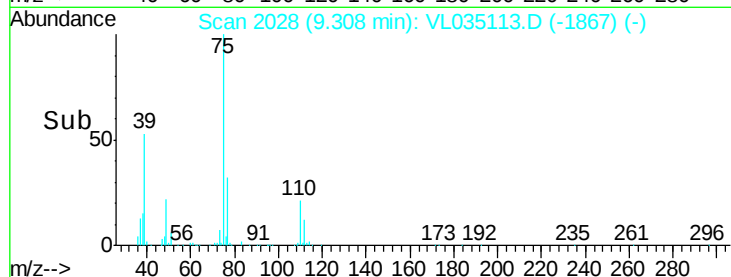
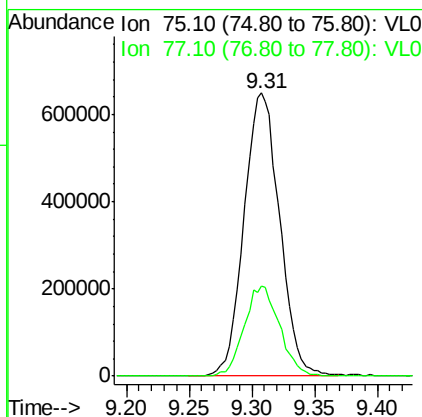
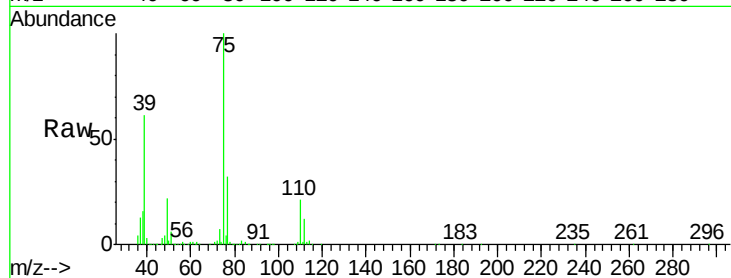
75 100

77 31.9 25.5 38.3

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#46

cis-1,3-Dichloropropene

Concen: 11.896 ppbv

RT: 8.73 min Scan# 1848

Delta R.T. 0.02 min

Lab File: VL035113.D

Acq: 22 Jun 2020 16:33

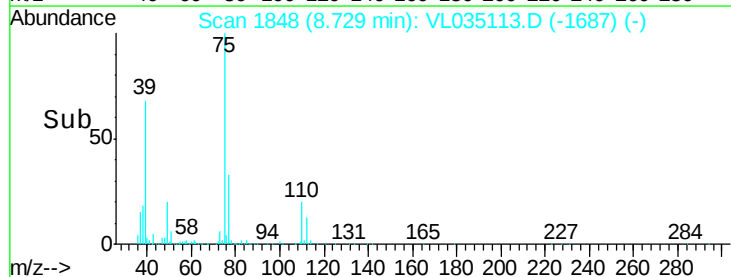
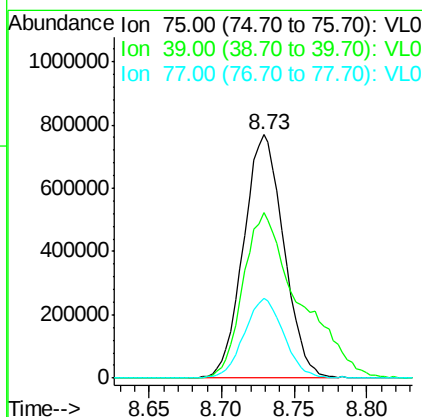
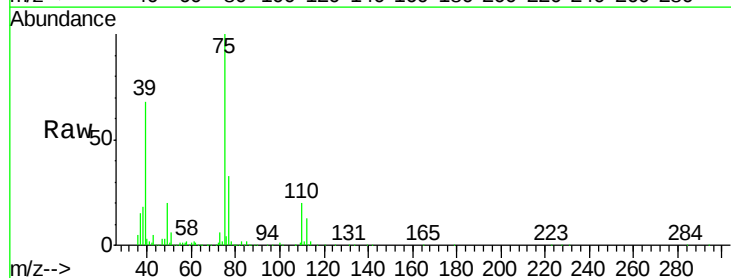
Tgt Ion: 75 Resp: 1488347

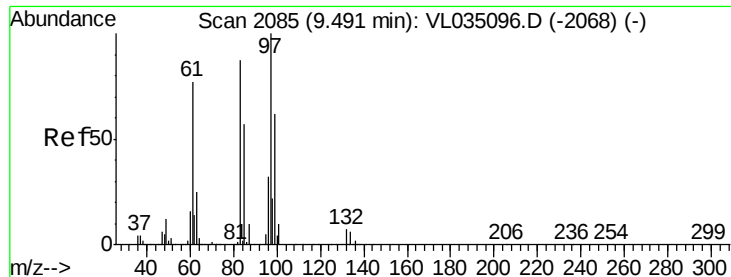
Ion Ratio Lower Upper

75 100

39 68.1 51.1 76.7

77 32.6 26.9 40.3





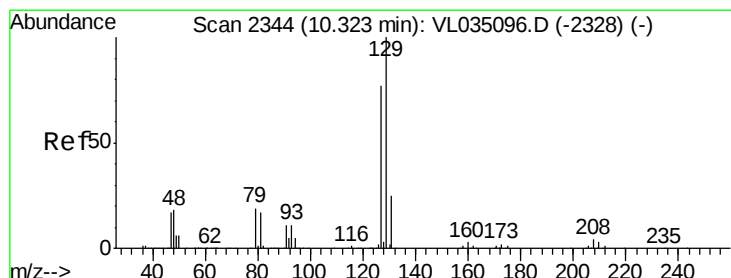
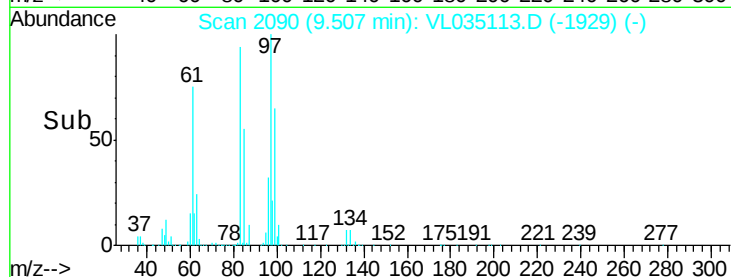
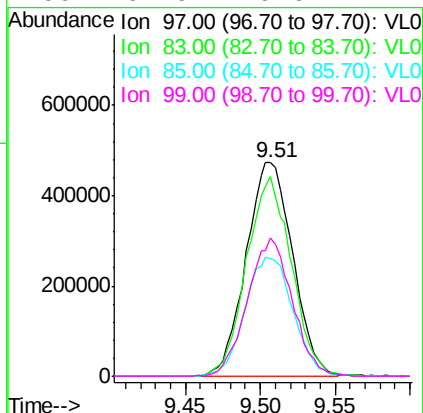
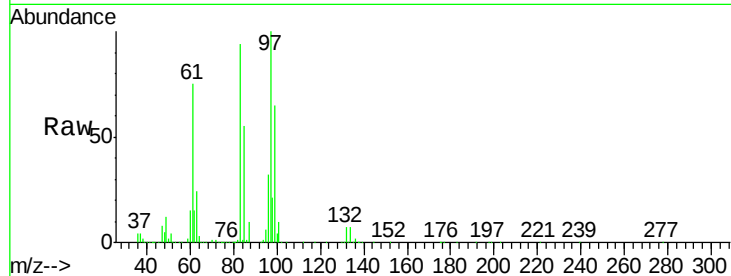
#47
 1,1,2-Trichloroethane
 Concen: 9.823 ppbv
 RT: 9.51 min Scan# 2090
 Delta R.T. 0.02 min
 Lab File: VL035113.D
 Acq: 22 Jun 2020 16:33

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0622ABS01DUP

Tot Ion	97	Resp	1025154
Ion	Ratio	Lower	Upper
97	100		
83	93.3	69.5	104.3
85	55.0	46.0	69.0
99	64.9	49.6	74.4

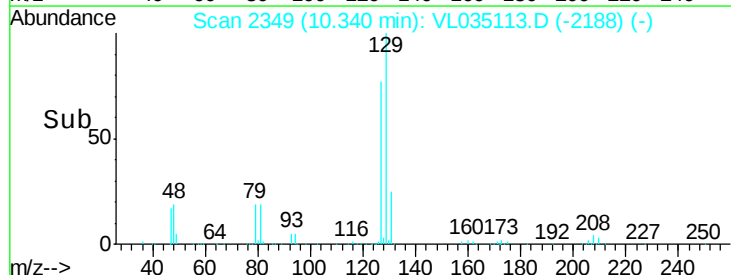
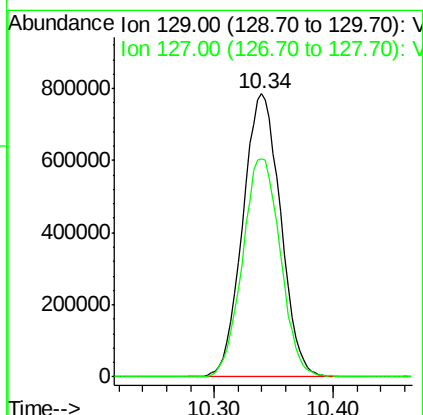
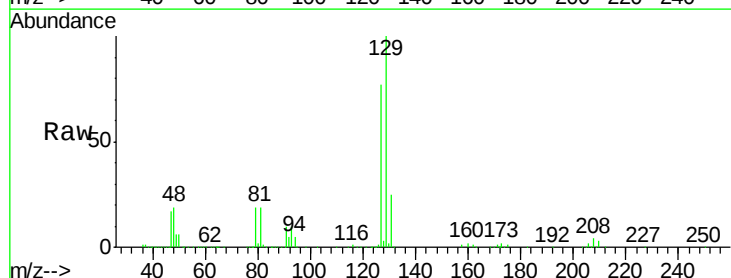
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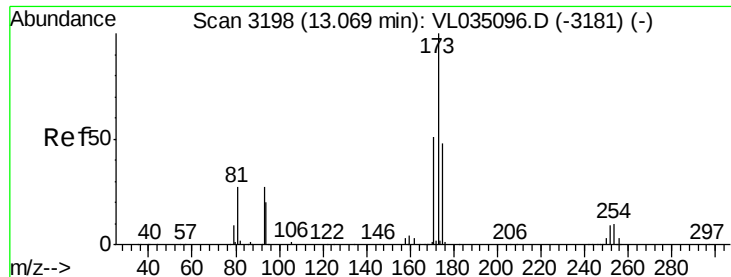
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#48
 Dibromochloromethane
 Concen: 11.098 ppbv
 RT: 10.34 min Scan# 2349
 Delta R.T. 0.02 min
 Lab File: VL035113.D
 Acq: 22 Jun 2020 16:33

Tgt Ion	129	Resp	1726637
Ion	Ratio	Lower	Upper
129	100		
127	77.5	39.3	117.8





#49

Bromoform

Concen: 11.191 ppbv

RT: 13.09 min Scan# 3204

Delta R.T. 0.02 min

Lab File: VL035113.D

Acq: 22 Jun 2020 16:33

Instrument :

MSVOA_L

ClientSampleId :

VL0622ABS01DUP

Tot Ion:173 Resp: 1478988

Ion Ratio Lower Upper

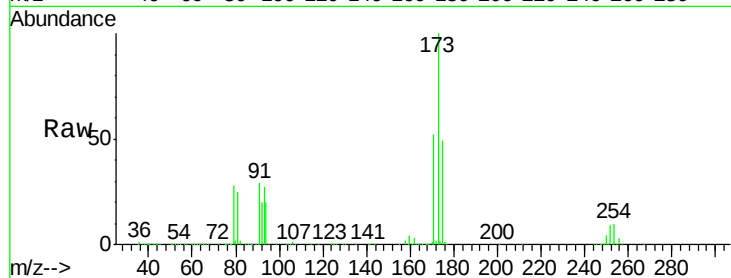
173 100

175 49.6 39.1 58.7

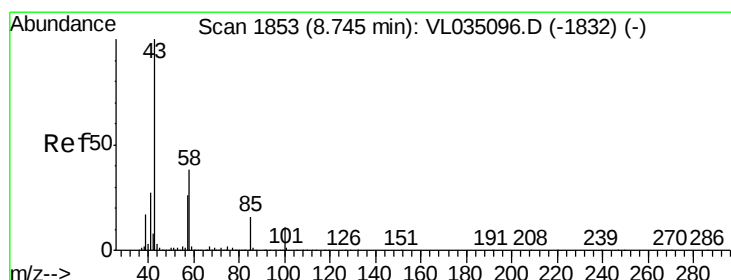
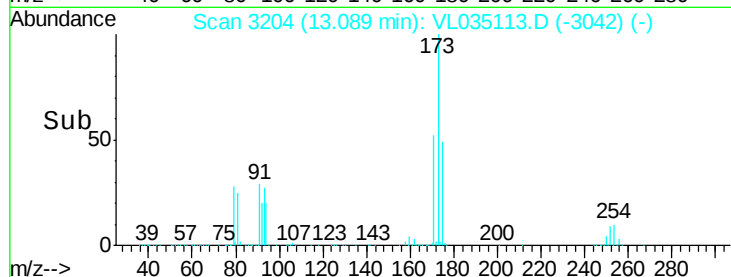
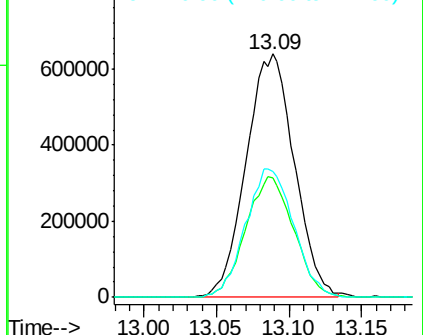
171 52.8 41.7 62.5

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



#50

4-Methyl-2-Pentanone

Concen: 10.291 ppbv

RT: 8.76 min Scan# 1859

Delta R.T. 0.02 min

Lab File: VL035113.D

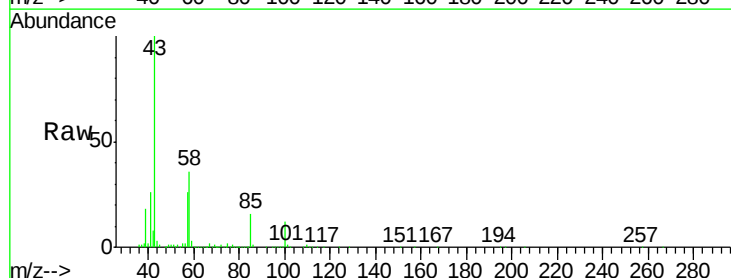
Acq: 22 Jun 2020 16:33

Tgt Ion: 43 Resp: 2651014

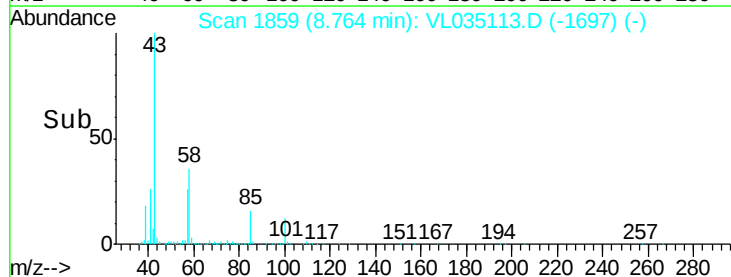
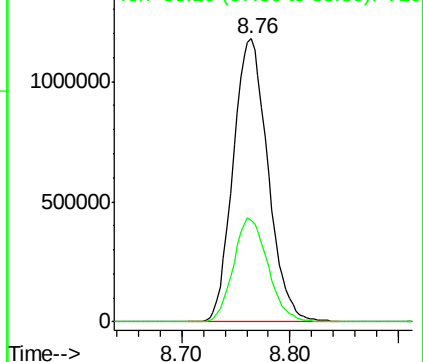
Ion Ratio Lower Upper

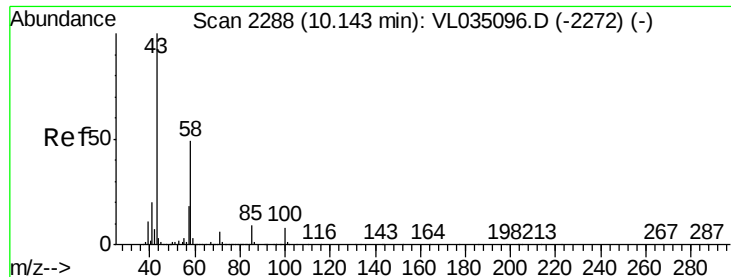
43 100

58 36.3 29.4 44.0



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





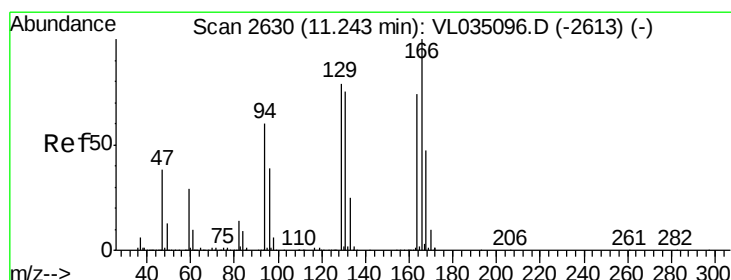
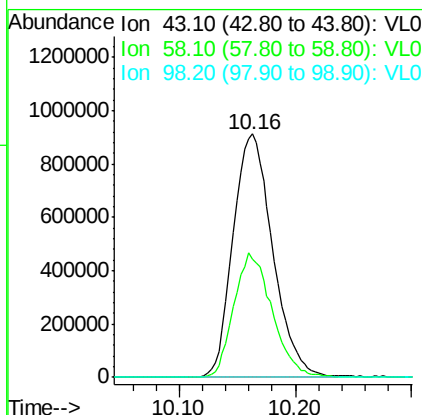
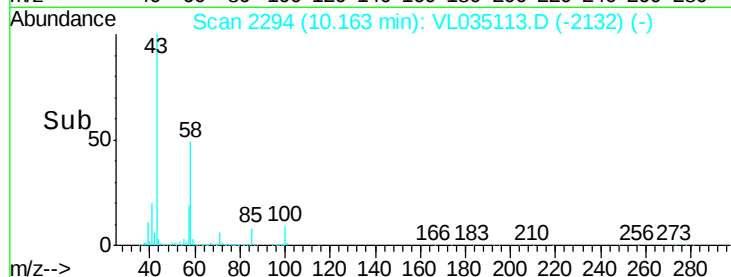
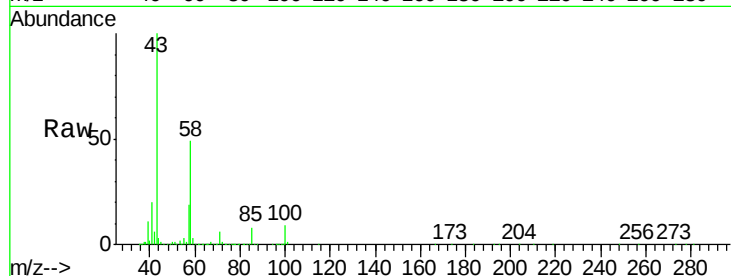
#51
2-Hexanone
Concen: 10.712 ppbv
RT: 10.16 min Scan# 2294
Delta R.T. 0.02 min
Lab File: VL035113.D
Acq: 22 Jun 2020 16:33

Instrument :
MSVOA_L
ClientSampleId :
VL0622ABS01DUP

Tot Ion: 43 Resp: 2161095
Ion Ratio Lower Upper
43 100
58 49.4 39.2 58.8
98 0.2 0.3 0.5#

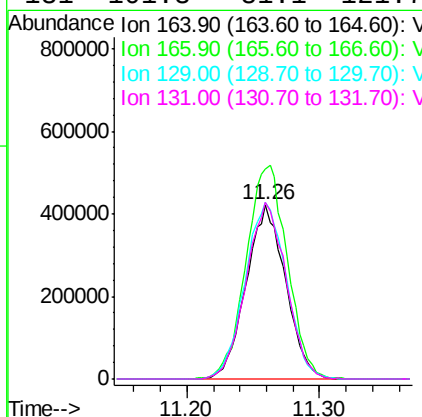
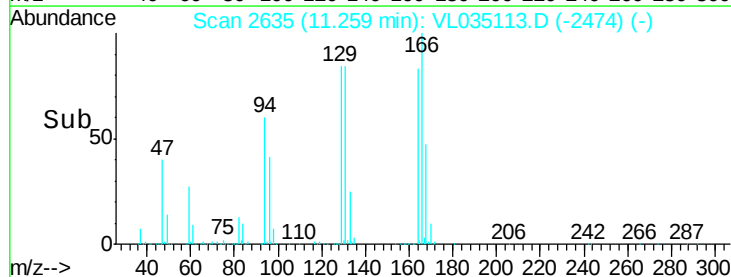
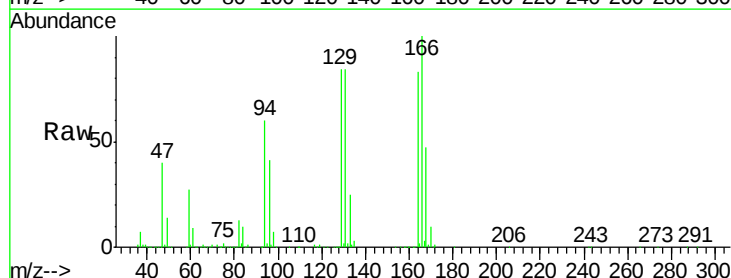
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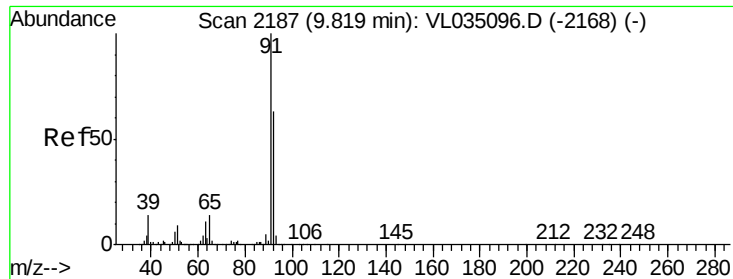
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#52
Tetrachloroethene
Concen: 10.064 ppbv
RT: 11.26 min Scan# 2635
Delta R.T. 0.02 min
Lab File: VL035113.D
Acq: 22 Jun 2020 16:33

Tgt Ion:164 Resp: 866961
Ion Ratio Lower Upper
164 100
166 120.7 107.5 161.3
129 101.4 84.9 127.3
131 101.3 81.1 121.7





#53

Toluene

Concen: 10.934 ppbv

RT: 9.83 min Scan# 2192

Delta R.T. 0.02 min

Lab File: VL035113.D

Acq: 22 Jun 2020 16:33

Instrument :

MSVOA_L

ClientSampleId :

VL0622ABS01DUP

Tot Ion: 91 Resp: 2851268

Ion Ratio Lower Upper

91 100

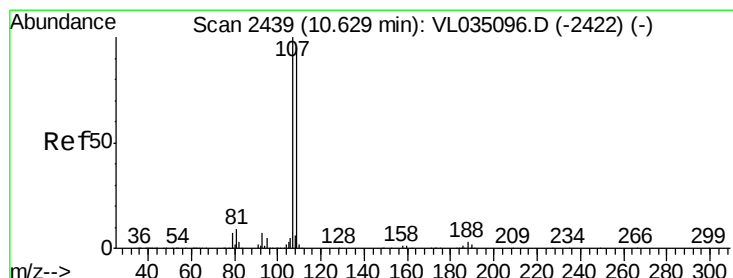
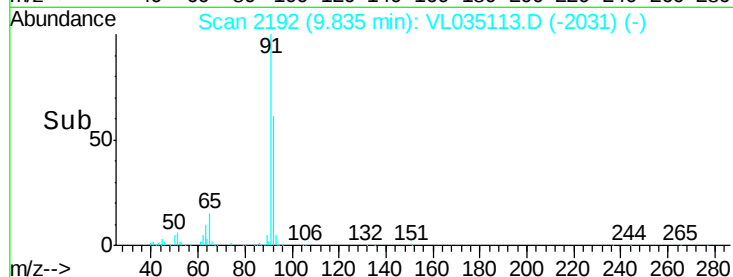
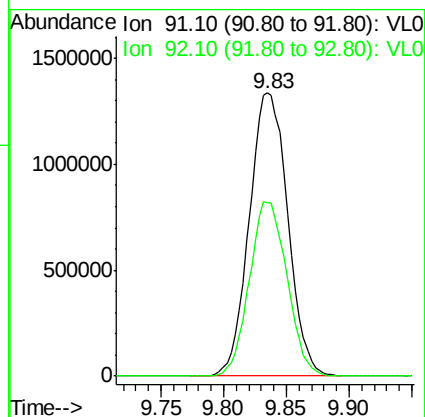
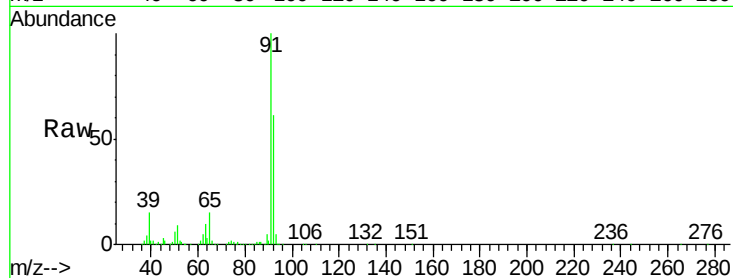
92 60.5 49.0 73.6

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#54

1,2-Dibromoethane

Concen: 10.017 ppbv

RT: 10.65 min Scan# 2444

Delta R.T. 0.02 min

Lab File: VL035113.D

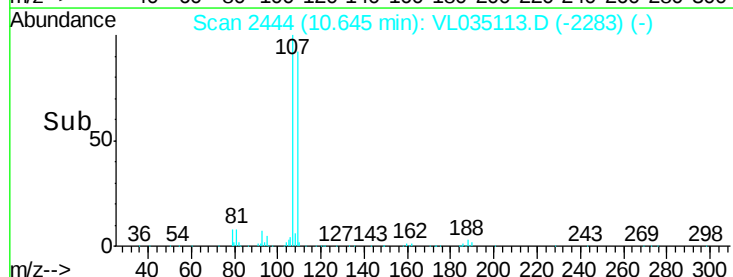
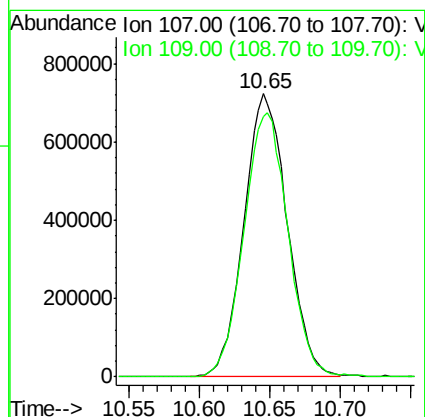
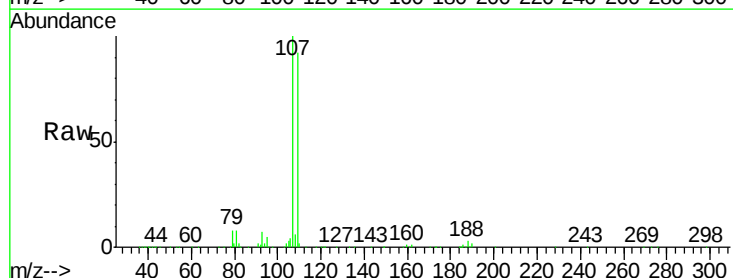
Acq: 22 Jun 2020 16:33

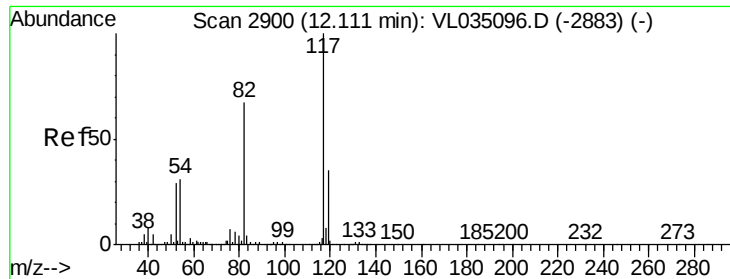
Tgt Ion: 107 Resp: 1547766

Ion Ratio Lower Upper

107 100

109 92.2 75.9 113.9





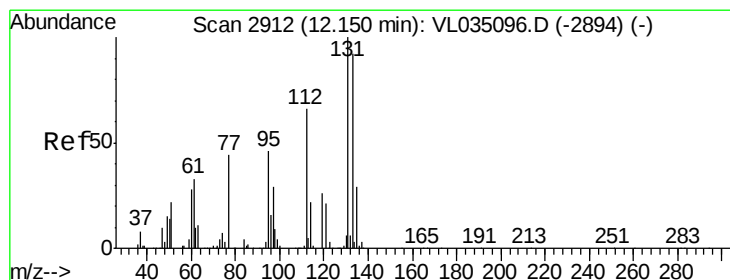
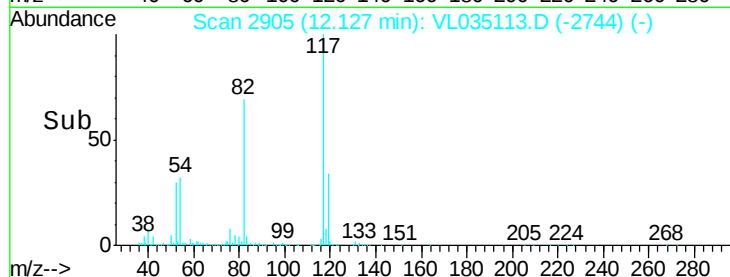
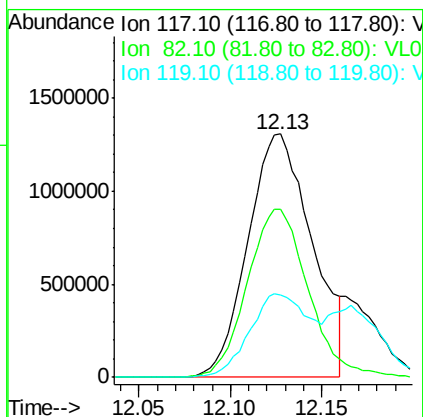
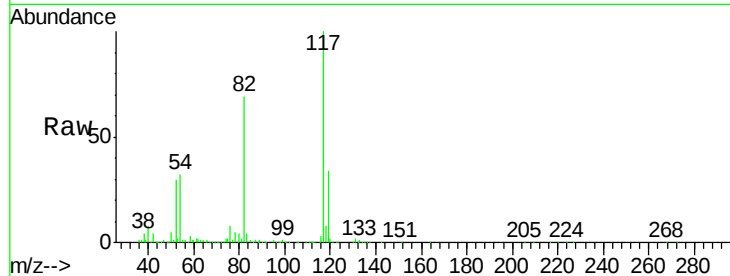
#55
Chlorobenzene-d5
Concen: 10.000 ppbv m
RT: 12.13 min Scan# 2905
Delta R.T. 0.02 min
Lab File: VL035113.D
Acq: 22 Jun 2020 16:33

Instrument :
MSVOA_L
ClientSampleId :
VL0622ABS01DUP

Tot Ion	Ratio	Lower	Upper
117	100		
82	66.0	50.4	75.6
119	56.1	25.4	38.0#

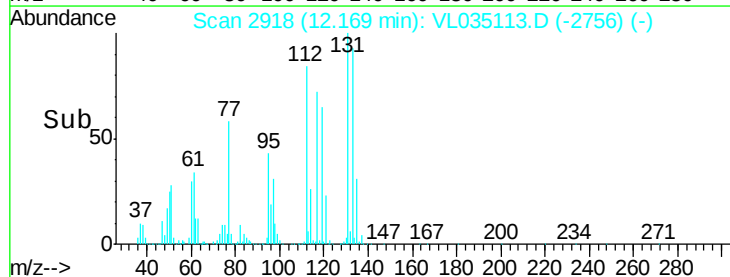
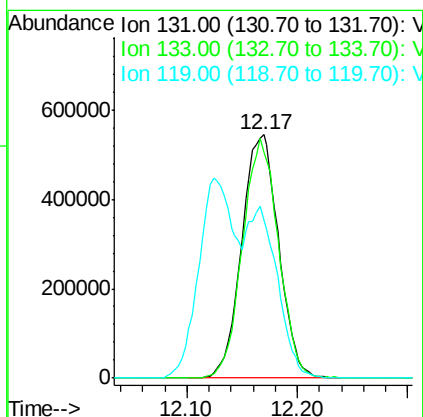
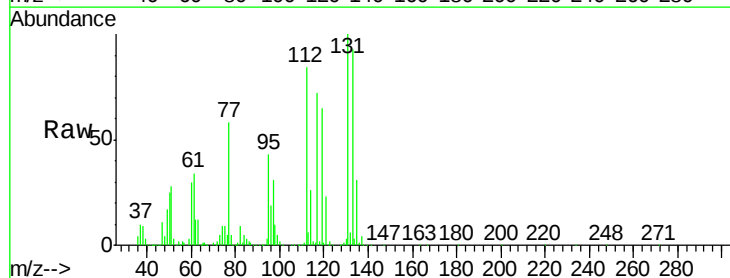
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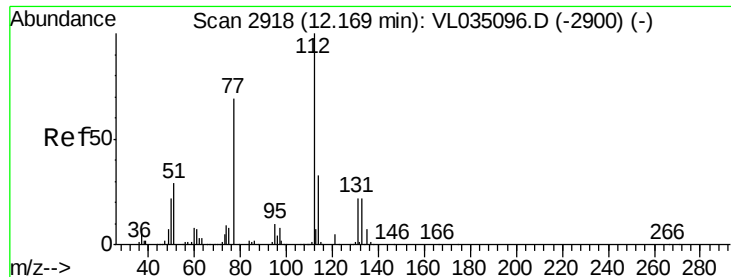
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#56
1,1,1,2-Tetrachloroethane
Concen: 9.712 ppbv
RT: 12.17 min Scan# 2918
Delta R.T. 0.02 min
Lab File: VL035113.D
Acq: 22 Jun 2020 16:33

Tgt Ion	Ratio	Lower	Upper
131	100		
133	95.7	76.2	114.4
119	63.4	114.6	172.0#





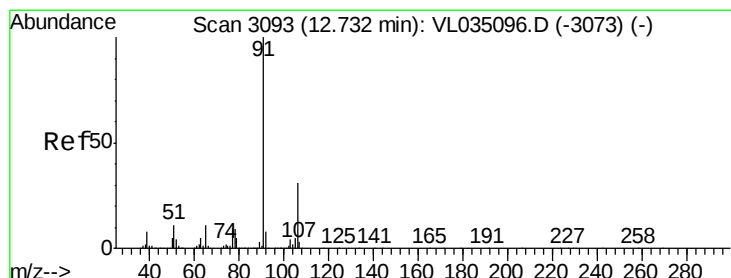
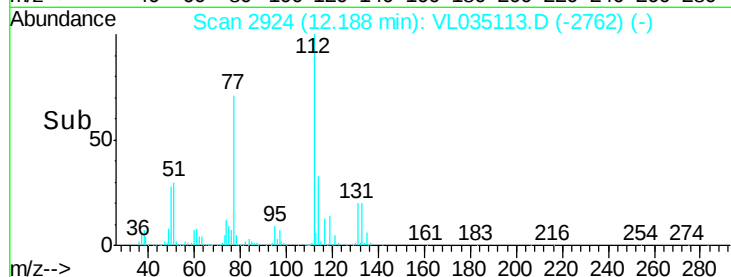
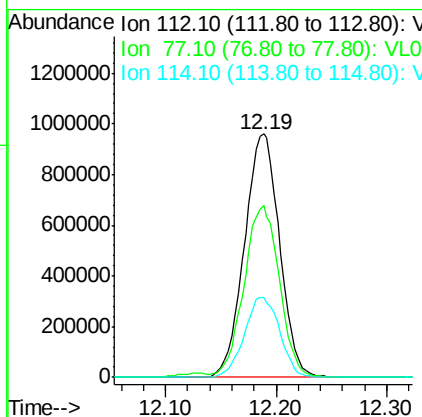
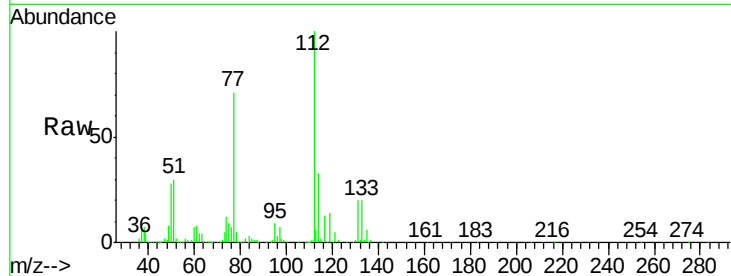
#57
Chlorobenzene
Concen: 9.043 ppbv
RT: 12.19 min Scan# 2924
Delta R.T. 0.02 min
Lab File: VL035113.D
Acq: 22 Jun 2020 16:33

Instrument :
MSVOA_L
ClientSampleId :
VL0622ABS01DUP

Tot Ion	Ratio	Lower	Upper
112	100		
77	70.4	56.7	85.1
114	32.4	29.3	35.9

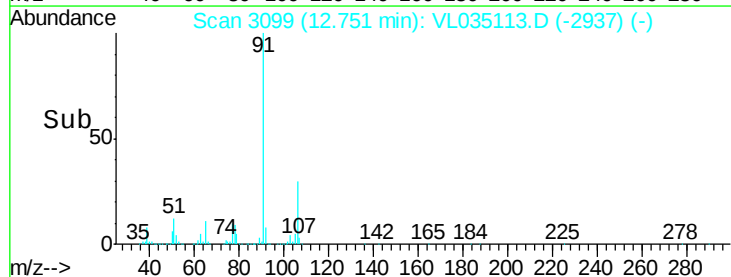
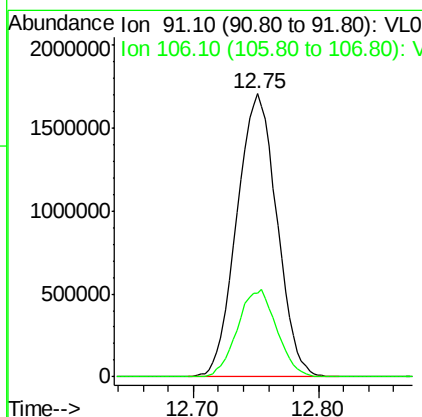
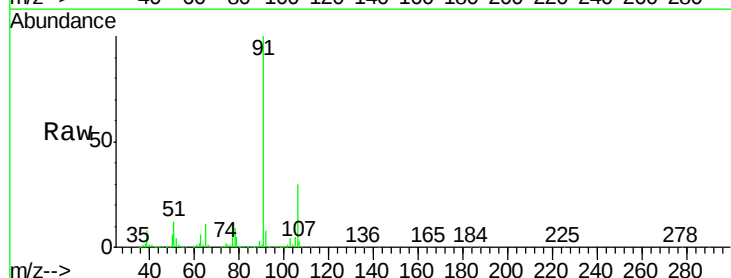
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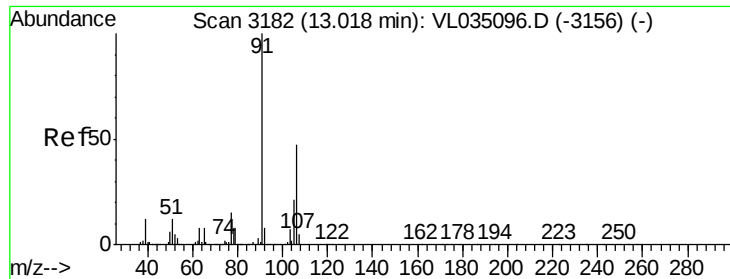
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#58
Ethyl Benzene
Concen: 10.578 ppbv
RT: 12.75 min Scan# 3099
Delta R.T. 0.02 min
Lab File: VL035113.D
Acq: 22 Jun 2020 16:33

Tgt Ion	Ratio	Lower	Upper
91	100		
106	29.6	25.0	37.6





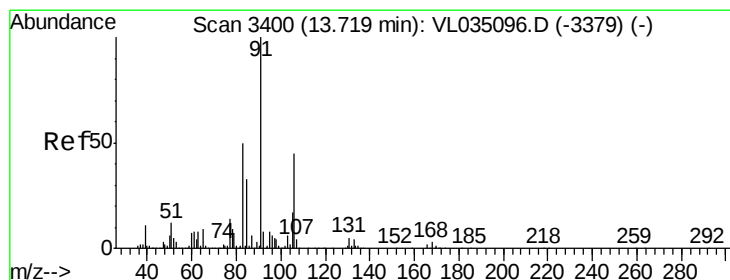
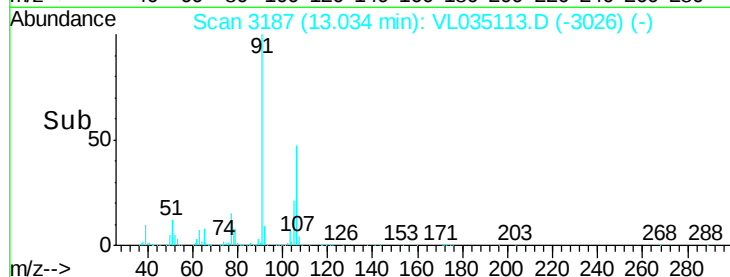
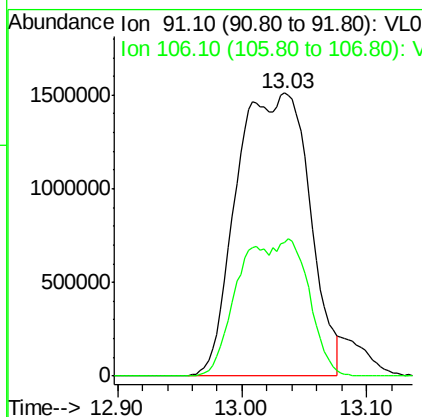
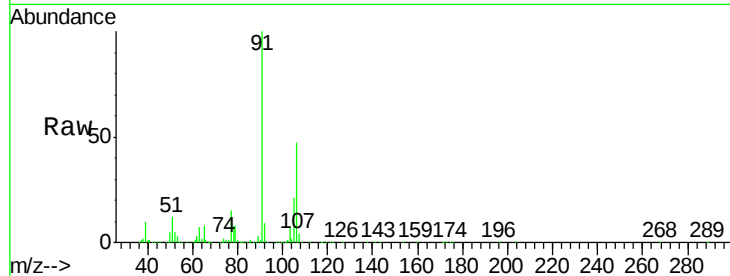
#59
m/p-Xylene
Concen: 19.358 ppbv m
RT: 13.03 min Scan# 3187
Delta R.T. 0.02 min
Lab File: VL035113.D
Acq: 22 Jun 2020 16:33

Instrument :
MSVOA_L
ClientSampleId :
VL0622ABS01DUP

Tot Ion: 91 Resp: 6135218
Ion Ratio Lower Upper
91 100
106 46.5 36.5 54.7

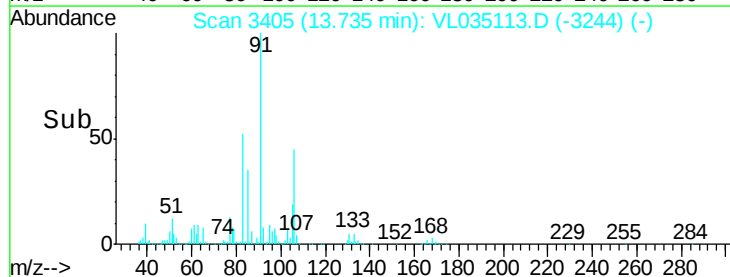
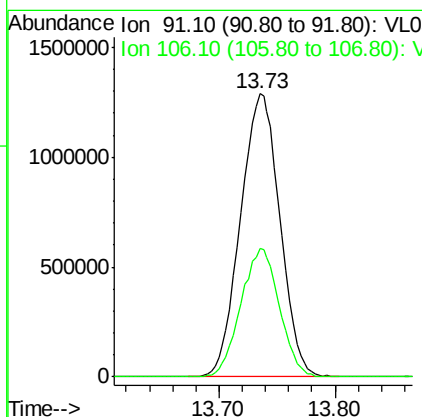
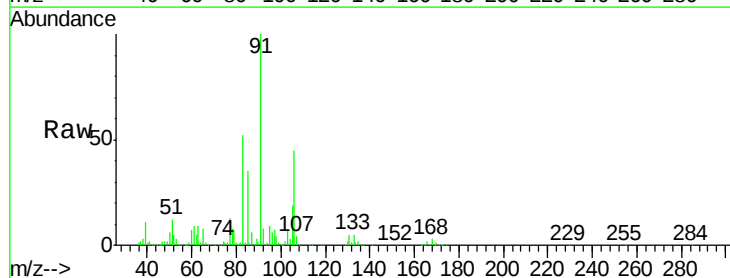
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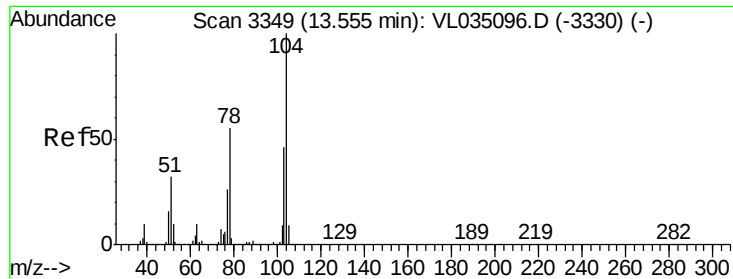
MMDadoda
6/23/2020 10:59:26 AM



#60
o-Xylene
Concen: 9.630 ppbv
RT: 13.73 min Scan# 3405
Delta R.T. 0.02 min
Lab File: VL035113.D
Acq: 22 Jun 2020 16:33

Tgt Ion: 91 Resp: 3038614
Ion Ratio Lower Upper
91 100
106 44.4 22.1 66.5





#61

Stvrene

Concen: 11.208 ppbv

RT: 13.57 min Scan# 3355

Delta R.T. 0.02 min

Lab File: VL035113.D

Acq: 22 Jun 2020 16:33

Instrument :

MSVOA_L

ClientSampleId :

VL0622ABS01DUP

Tot Ion:104 Resp: 2225331

Ion Ratio Lower Upper

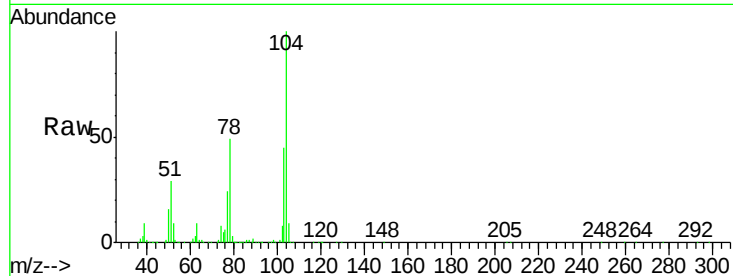
104 100

78 54.1 43.4 65.0

103 47.4 38.3 57.5

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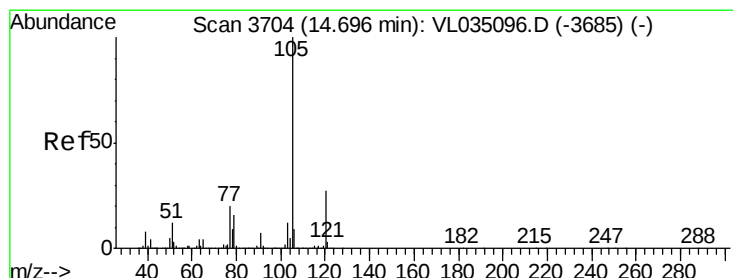
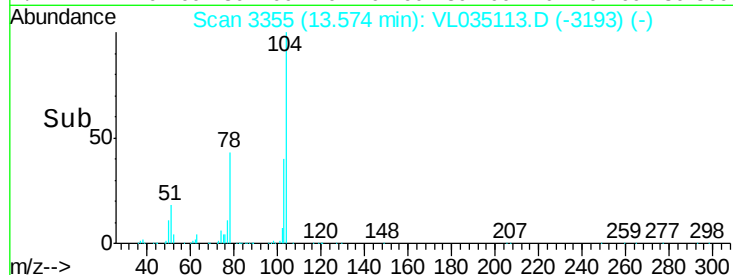
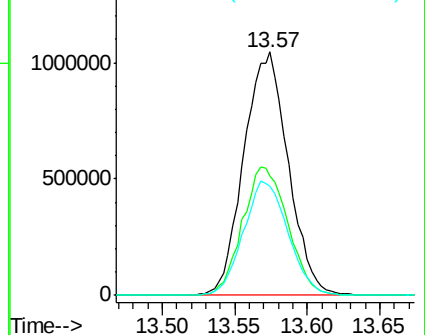
MMDadoda
6/23/2020 10:59:26 AM



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V



#62

Isopropylbenzene

Concen: 9.616 ppbv

RT: 14.72 min Scan# 3710

Delta R.T. 0.02 min

Lab File: VL035113.D

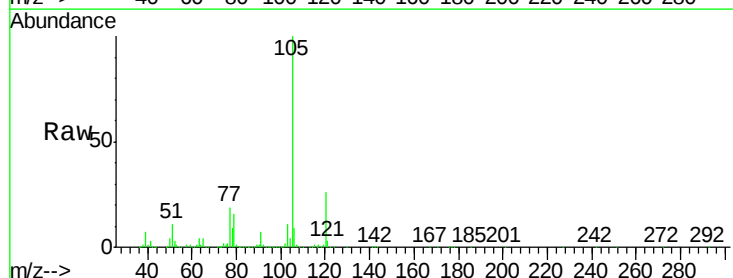
Acq: 22 Jun 2020 16:33

Tgt Ion:105 Resp: 4527579

Ion Ratio Lower Upper

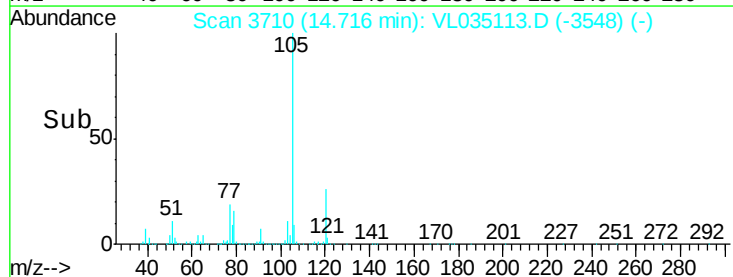
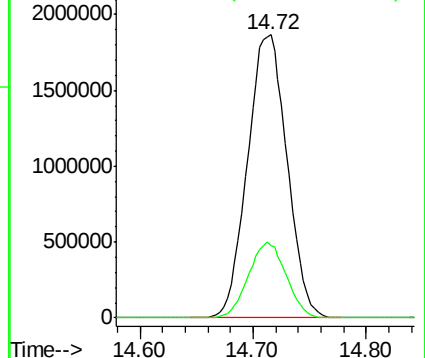
105 100

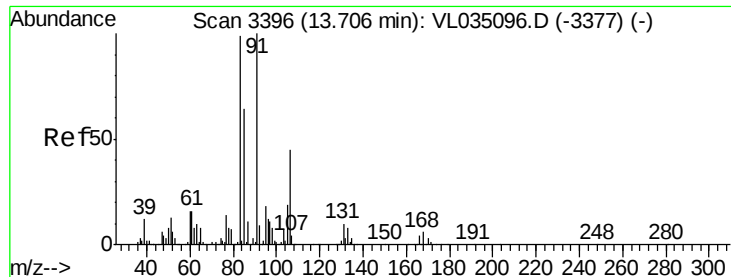
120 25.6 20.8 31.2



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V





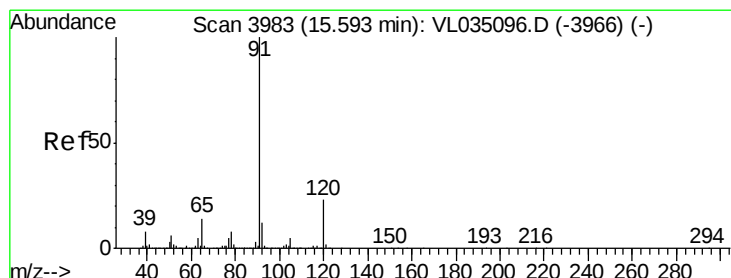
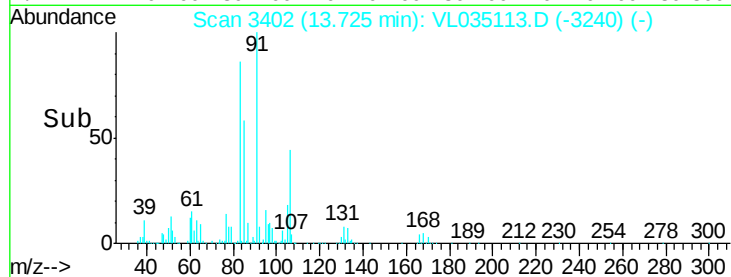
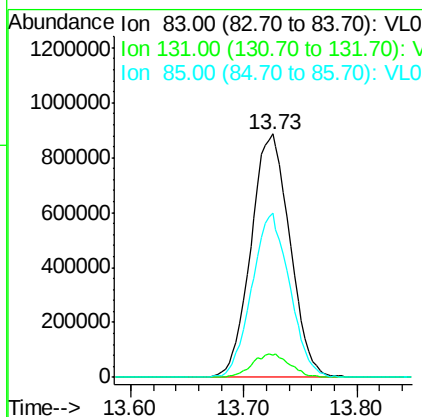
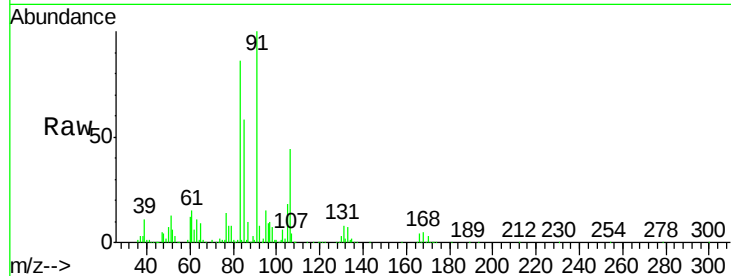
#63
 1,1,2,2-Tetrachloroethane
 Concen: 8.281 ppbv
 RT: 13.73 min Scan# 3402
 Delta R.T. 0.02 min
 Lab File: VL035113.D
 Acq: 22 Jun 2020 16:33

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0622ABS01DUP

Tot Ion	Ratio	Lower	Upper
83	100		
131	9.4	4.7	14.0
85	65.5	32.4	97.0

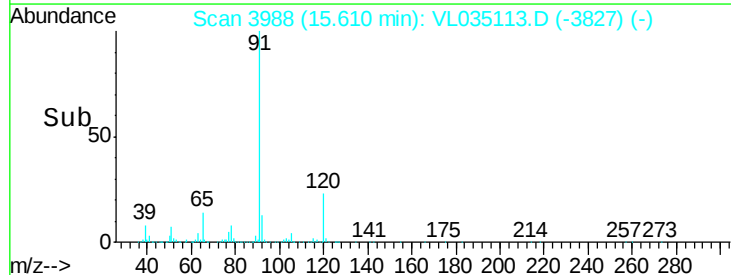
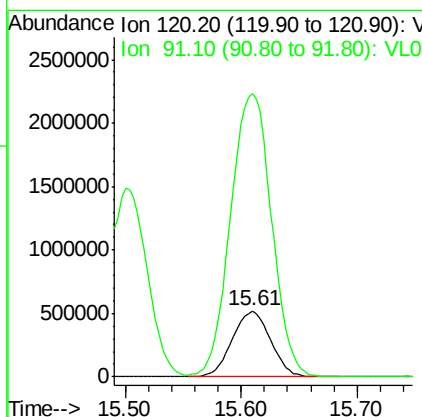
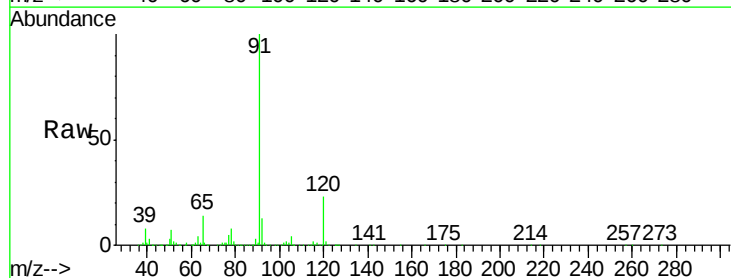
Manual Integrations
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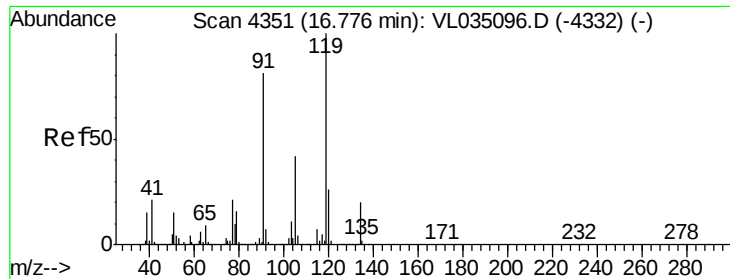
MMDadoda
 6/23/2020 10:59:26 AM



#64
 n-propylbenzene
 Concen: 9.919 ppbv
 RT: 15.61 min Scan# 3988
 Delta R.T. 0.02 min
 Lab File: VL035113.D
 Acq: 22 Jun 2020 16:33

Tgt Ion	Ratio	Lower	Upper
120	100		
91	461.7	367.9	551.9





#65

tert-Butylbenzene

Concen: 9.536 ppbv

RT: 16.80 min Scan# 4358

Delta R.T. 0.02 min

Lab File: VL035113.D

Acq: 22 Jun 2020 16:33

Instrument :

MSVOA_L

ClientSampleId :

VL0622ABS01DUP

Tot Ion:119 Resp: 3844837

Ion Ratio Lower Upper

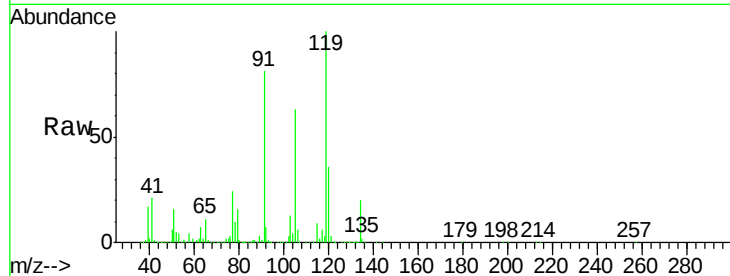
119 100

91 84.6 67.6 101.4

134 20.1 15.7 23.5

Manual Integrations
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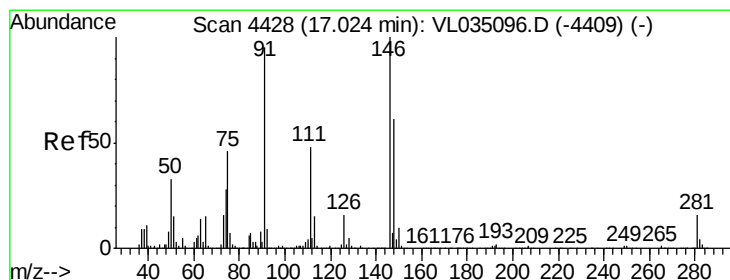
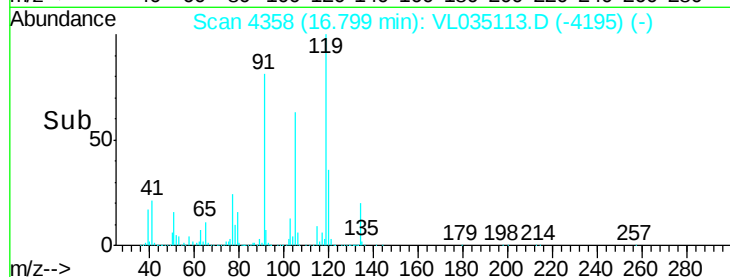
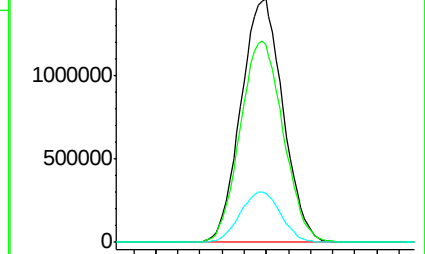
MMDadoda
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Abundance Ion 119.20 (118.90 to 119.90): V

2000000 Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V



#66

Benzyl Chloride

Concen: 13.069 ppbv

RT: 17.04 min Scan# 4434

Delta R.T. 0.02 min

Lab File: VL035113.D

Acq: 22 Jun 2020 16:33

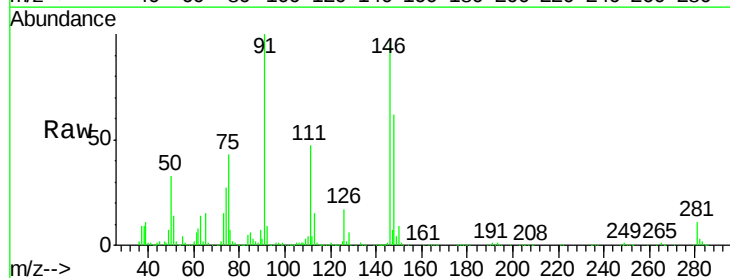
Tgt Ion: 91 Resp: 1627655

Ion Ratio Lower Upper

91 100

126 16.9 13.5 20.3

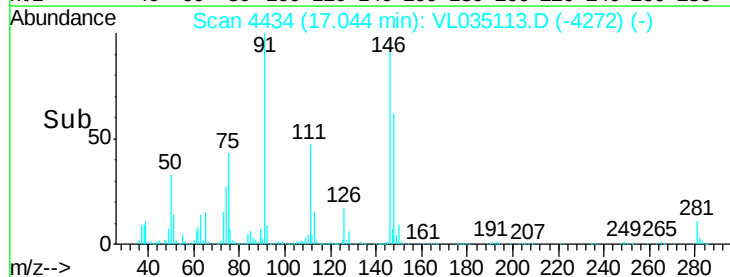
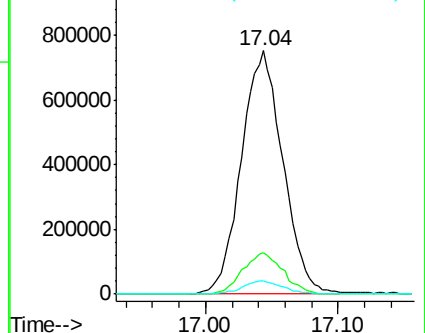
128 5.4 4.3 6.5

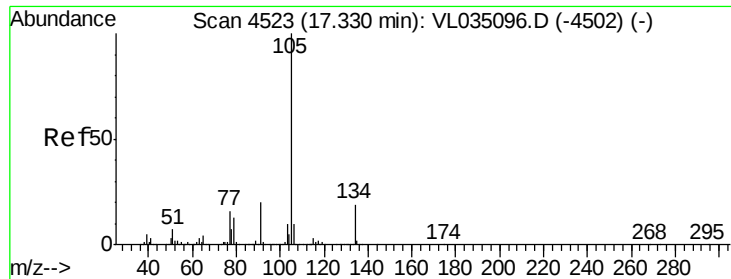


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V





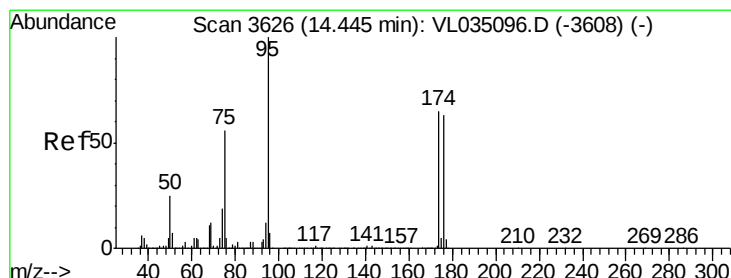
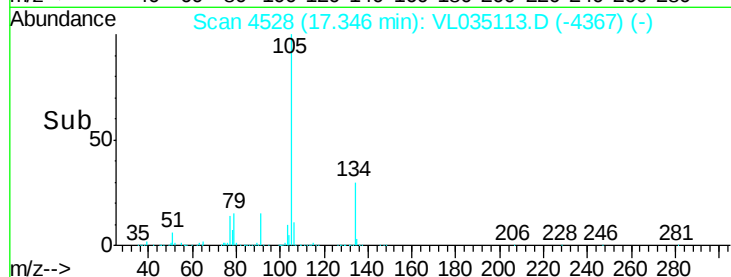
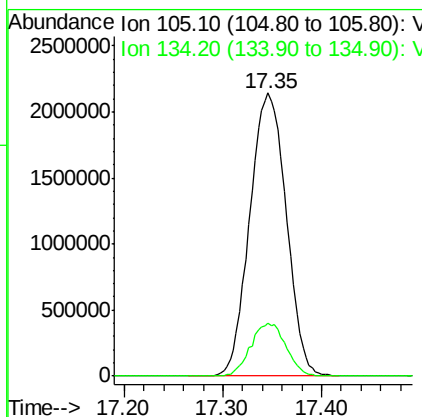
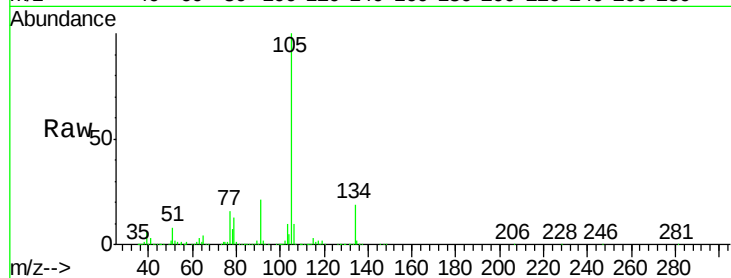
#67
 sec-Butylbenzene
 Concen: 9.472 ppbv
 RT: 17.35 min Scan# 4528
 Delta R.T. 0.02 min
 Lab File: VL035113.D
 Acq: 22 Jun 2020 16:33

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0622ABS01DUP

Tot Ion: 105 Resp: 5473351
 Ion Ratio Lower Upper
 105 100
 134 18.3 14.7 22.1

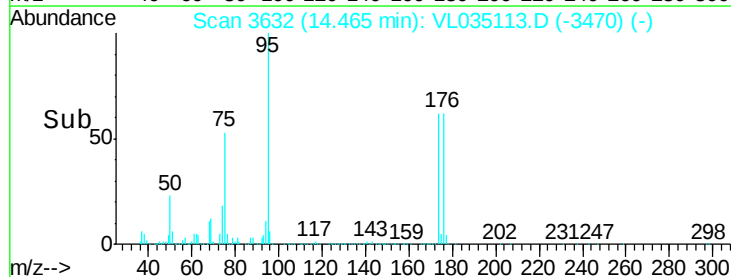
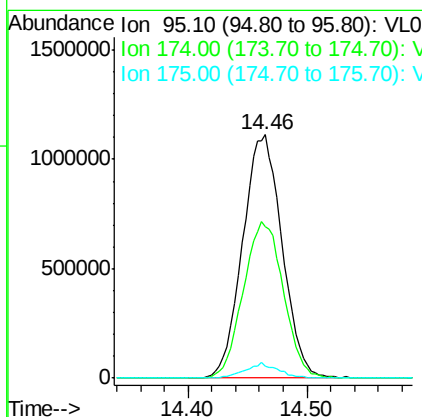
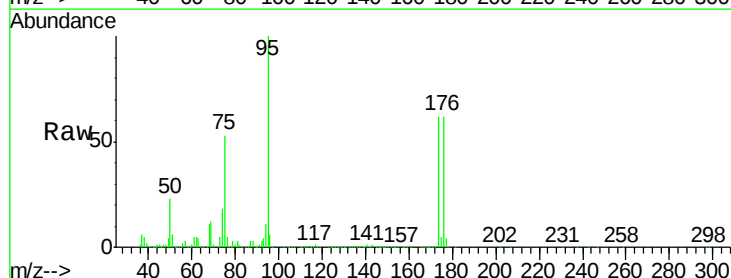
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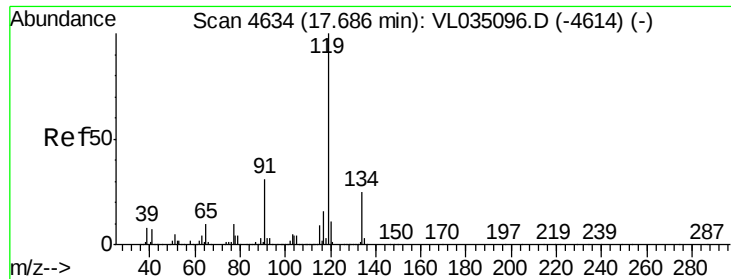
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 6/23/2020 10:59:26 AM



#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.640 ppbv
 RT: 14.46 min Scan# 3632
 Delta R.T. 0.02 min
 Lab File: VL035113.D
 Acq: 22 Jun 2020 16:33

Tgt Ion: 95 Resp: 2548932
 Ion Ratio Lower Upper
 95 100
 174 65.5 52.2 78.2
 175 5.2 4.0 6.0





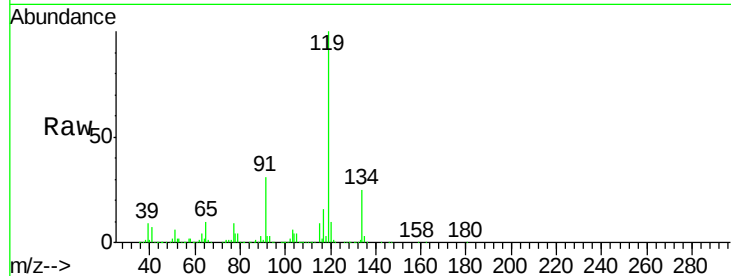
#69
p-Isopropyltoluene
Concen: 9.817 ppbv
RT: 17.70 min Scan# 4639
Delta R.T. 0.02 min
Lab File: VL035113.D
Acq: 22 Jun 2020 16:33

Instrument :
MSVOA_L
ClientSampleId :
VL0622ABS01DUP

Tot Ion	Ratio	Lower	Upper
119	100		
134	25.6	20.4	30.6
91	30.7	24.5	36.7

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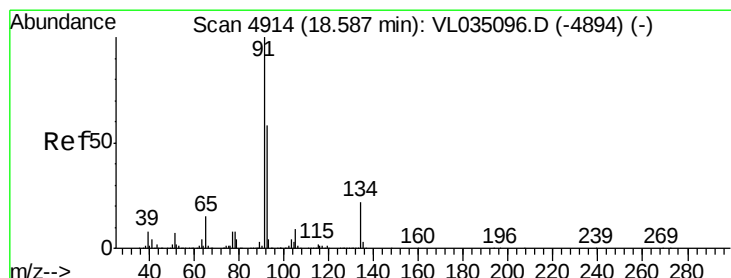
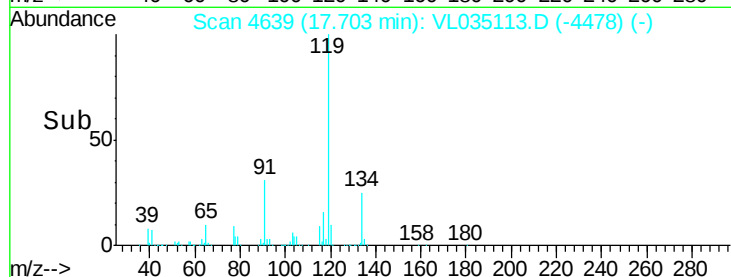
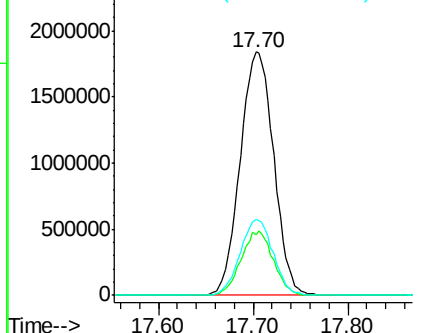


Abundance

Ion 119.10 (118.80 to 119.80): V

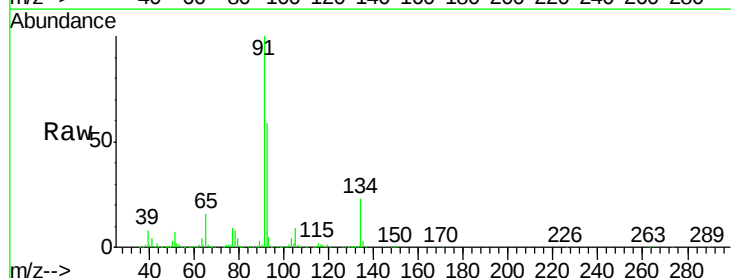
Ion 134.20 (133.90 to 134.90): V

Ion 91.10 (90.80 to 91.80): V



#70
n-Butylbenzene
Concen: 9.443 ppbv
RT: 18.60 min Scan# 4919
Delta R.T. 0.02 min
Lab File: VL035113.D
Acq: 22 Jun 2020 16:33

Tgt Ion	Ratio	Lower	Upper
91	100		
92	55.2	44.4	66.6
134	22.9	18.0	27.0

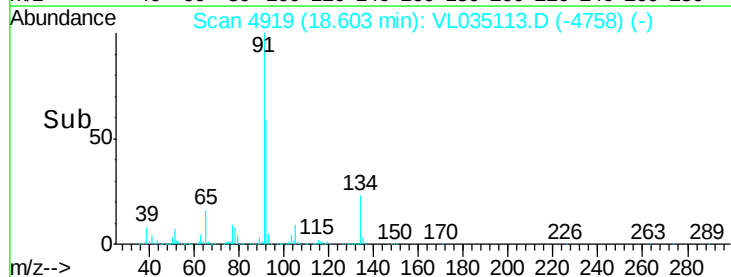
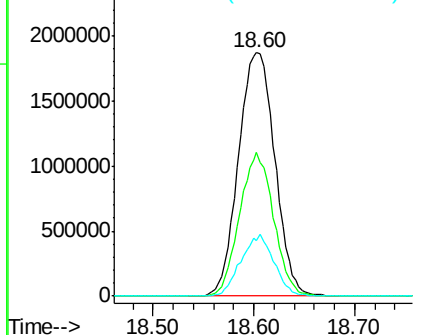


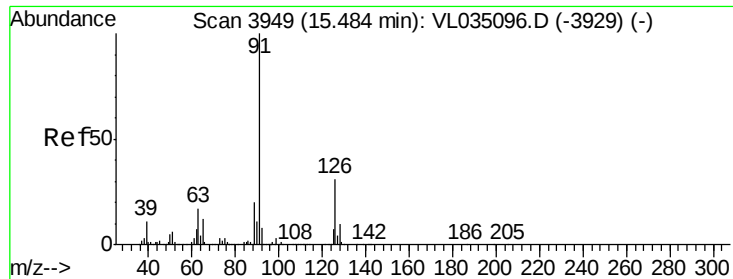
Abundance

Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

Ion 134.20 (133.90 to 134.90): V





#71

2-Chlorotoluene

Concen: 9.848 ppbv

RT: 15.50 min Scan# 3954

Delta R.T. 0.02 min

Lab File: VL035113.D

Acq: 22 Jun 2020 16:33

Instrument :

MSVOA_L

ClientSampleId :

VL0622ABS01DUP

Tot Ion: 91 Resp: 3504697

Ion Ratio Lower Upper

91 100

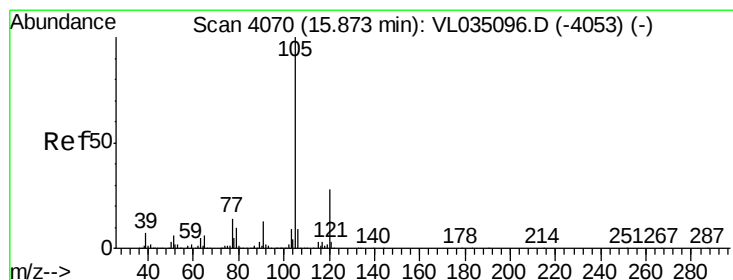
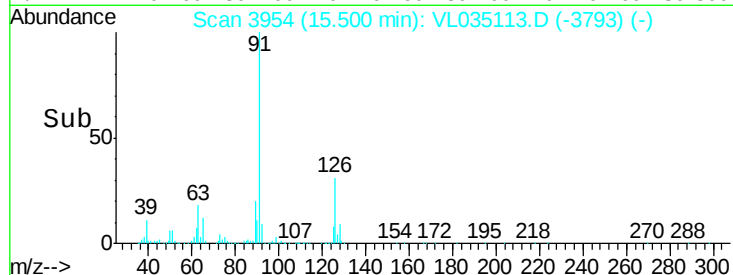
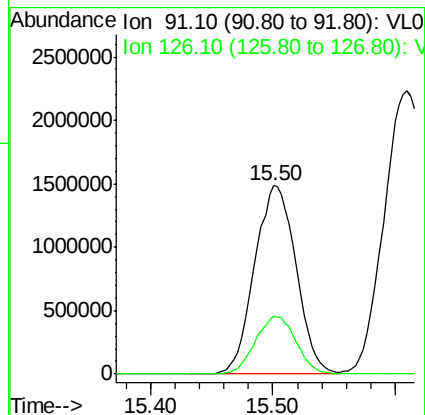
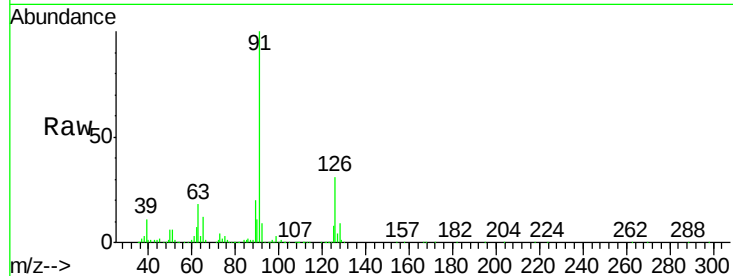
126 30.1 12.0 48.0

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#72

4-Ethyltoluene

Concen: 10.128 ppbv

RT: 15.89 min Scan# 4075

Delta R.T. 0.02 min

Lab File: VL035113.D

Acq: 22 Jun 2020 16:33

Tgt Ion: 105 Resp: 3554955

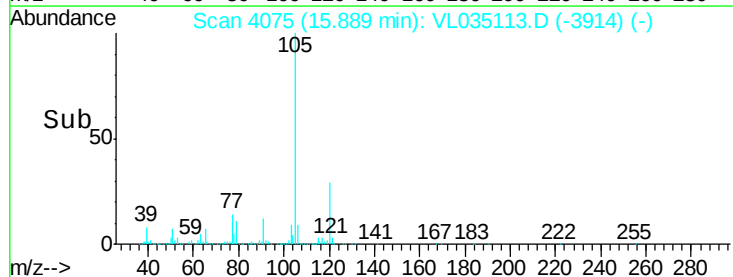
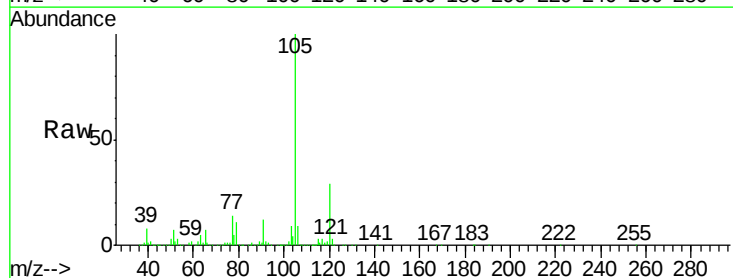
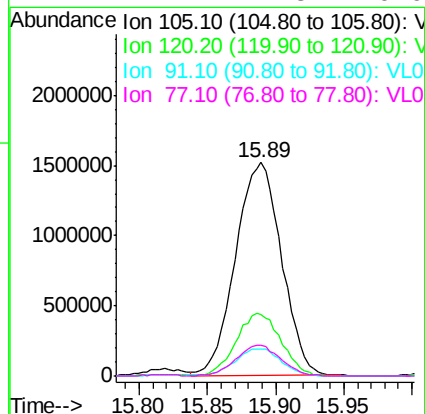
Ion Ratio Lower Upper

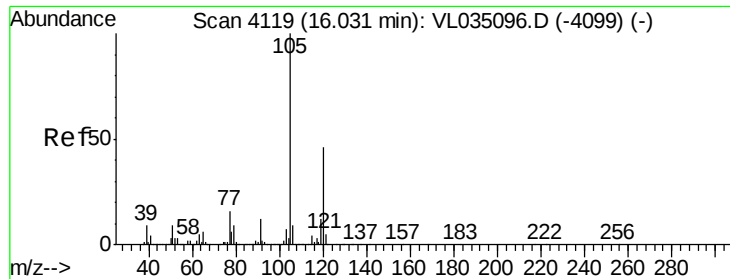
105 100

120 29.0 23.4 35.0

91 12.8 10.6 16.0

77 14.1 11.3 16.9





#73

1,3,5-Trimethylbenzene

Concen: 10.024 ppbv

RT: 16.05 min Scan# 4124

Delta R.T. 0.02 min

Lab File: VL035113.D

Acq: 22 Jun 2020 16:33

Instrument :

MSVOA_L

ClientSampleId :

VL0622ABS01DUP

Tot Ion:105 Resp: 3325995

Ion Ratio Lower Upper

105 100

120 43.9

37.0

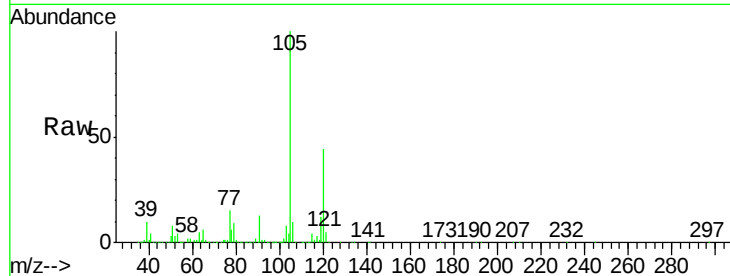
55.6

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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

16.05

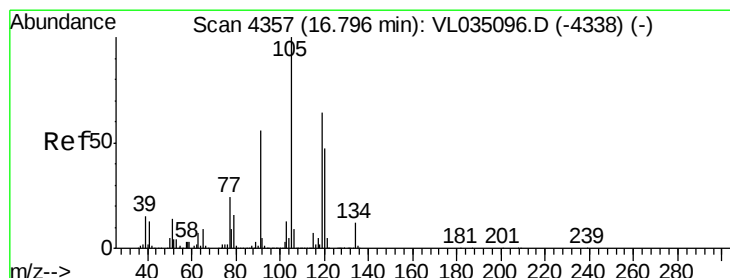
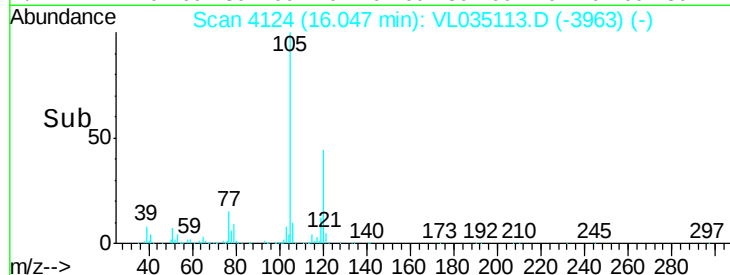
1500000

1000000

500000

0

Time-->



#74

1,2,4-Trimethylbenzene

Concen: 9.126 ppbv

RT: 16.82 min Scan# 4363

Delta R.T. 0.02 min

Lab File: VL035113.D

Acq: 22 Jun 2020 16:33

Tgt Ion:105 Resp: 3379447

Ion Ratio Lower Upper

105 100

120 48.0

37.9

56.9

91 46.8

46.0

69.0

77 22.3

19.4

29.2

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): V

Ion 77.10 (76.80 to 77.80): V

16.82

2000000

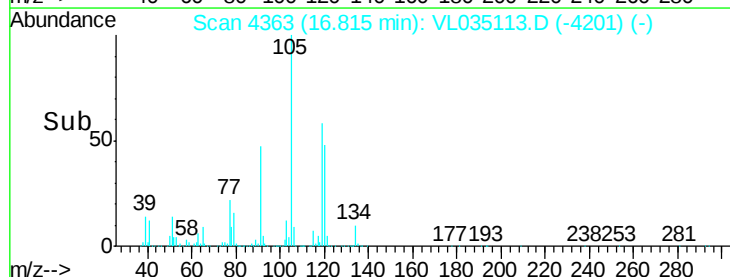
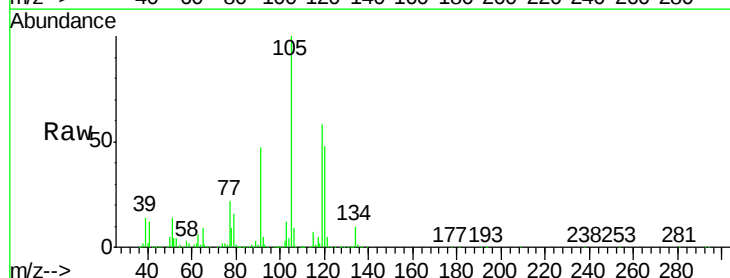
1500000

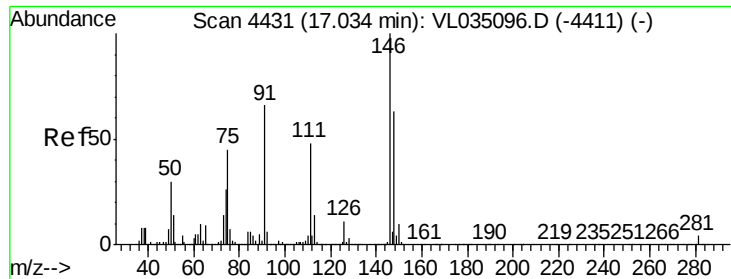
1000000

500000

0

Time-->





#75

1,3-Dichlorobenzene

Concen: 8.715 ppbv

RT: 17.05 min Scan# 4436

Delta R.T. 0.02 min

Lab File: VL035113.D

Acq: 22 Jun 2020 16:33

Instrument :

MSVOA_L

ClientSampleId :

VL0622ABS01DUP

Tot Ion:146 Resp: 1926010

Ion Ratio Lower Upper

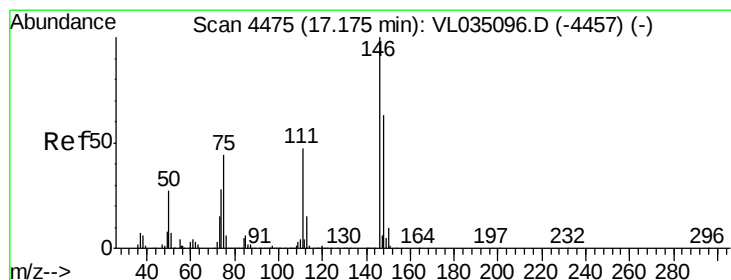
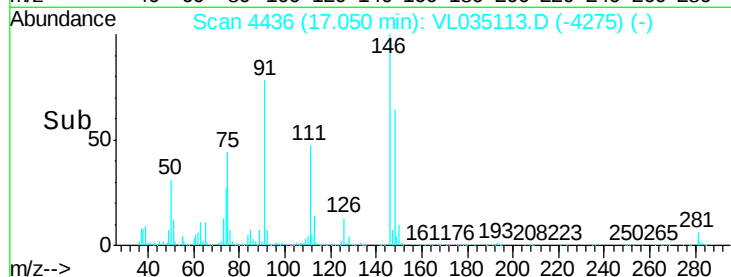
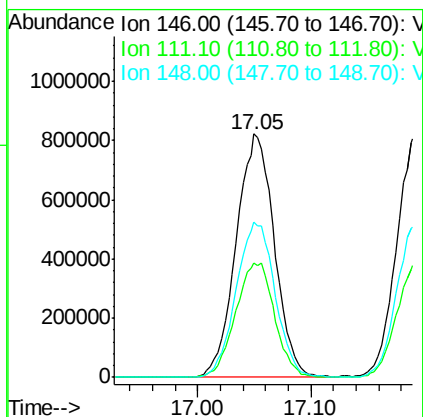
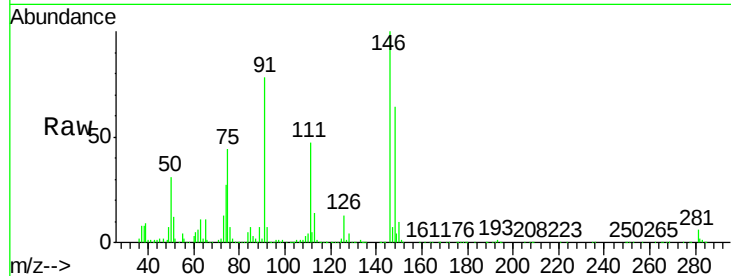
146 100

111 48.2 24.1 72.4

148 65.2 32.3 96.8

Manual Integrations
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MMDadoda
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#76

1,4-Dichlorobenzene

Concen: 9.093 ppbv

RT: 17.19 min Scan# 4480

Delta R.T. 0.02 min

Lab File: VL035113.D

Acq: 22 Jun 2020 16:33

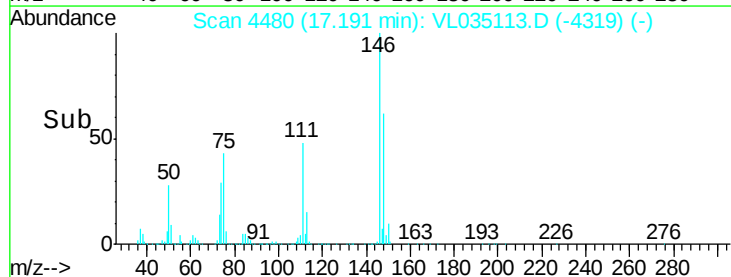
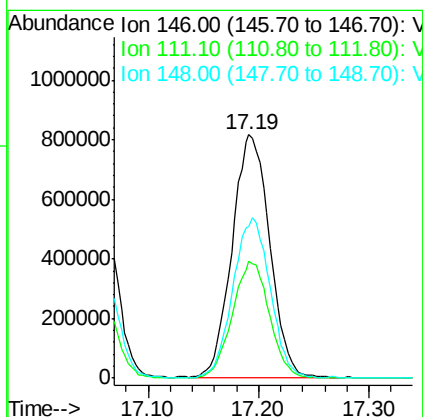
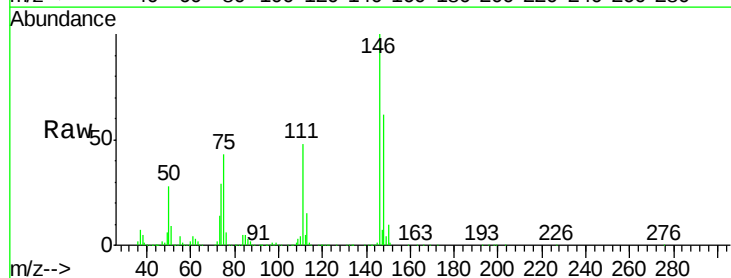
Tgt Ion:146 Resp: 1922379

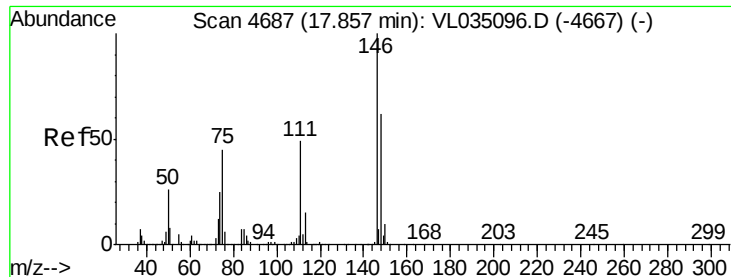
Ion Ratio Lower Upper

146 100

111 47.3 23.5 70.5

148 65.9 32.0 96.2





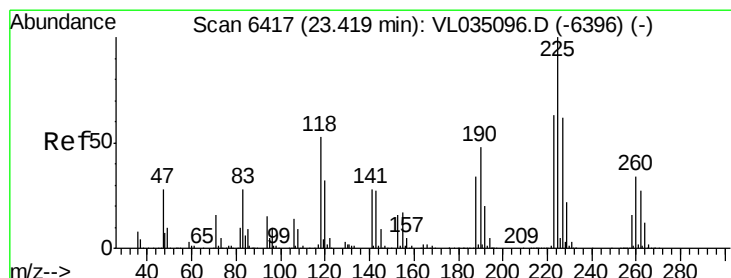
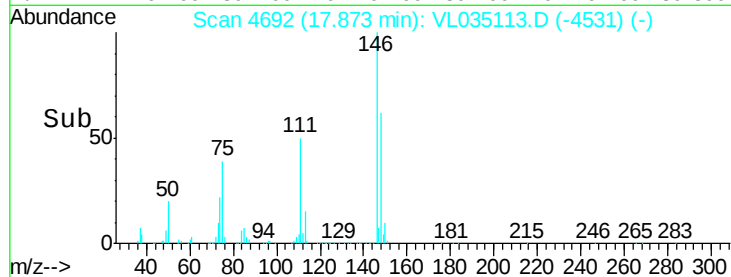
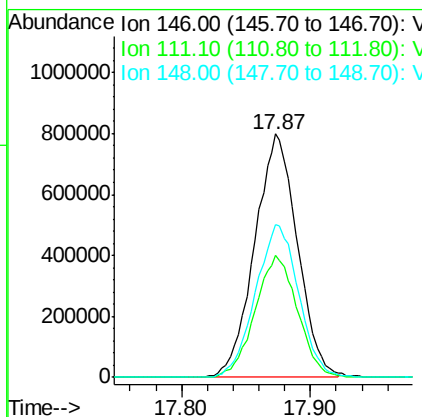
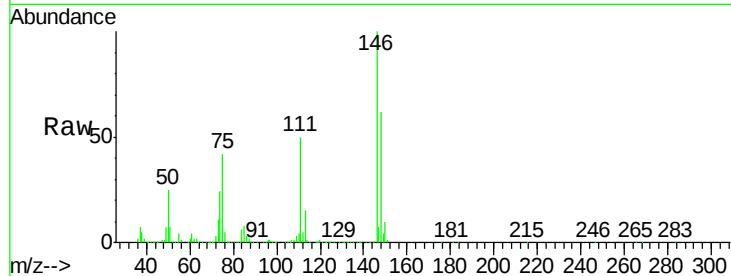
#77
 1,2-Dichlorobenzene
 Concen: 9.088 ppbv
 RT: 17.87 min Scan# 4692
 Delta R.T. 0.02 min
 Lab File: VL035113.D
 Acq: 22 Jun 2020 16:33

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0622ABS01DUP

Tot Ion:146 Resp: 1837743
 Ion Ratio Lower Upper
 146 100
 111 50.0 25.0 75.0
 148 63.6 32.3 96.8

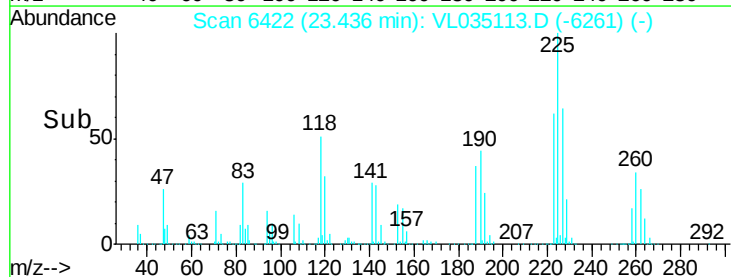
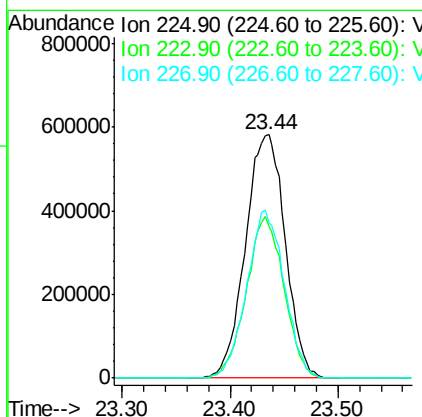
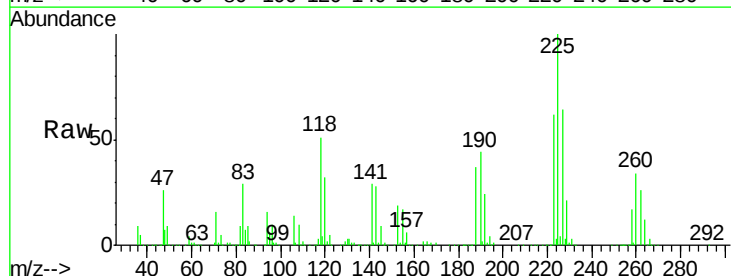
Manual Integrations
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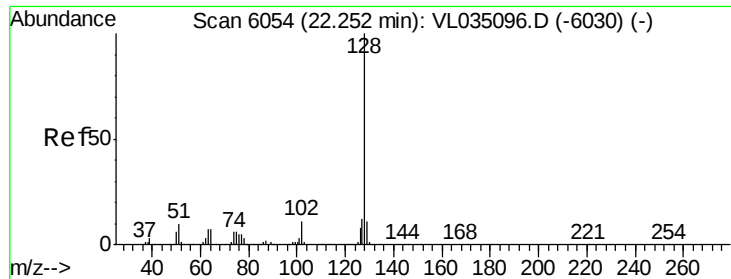
MMDadoda
 6/23/2020 10:59:26 AM



#78
 Hexachloro-1,3-Butadiene
 Concen: 8.200 ppbv
 RT: 23.44 min Scan# 6422
 Delta R.T. 0.02 min
 Lab File: VL035113.D
 Acq: 22 Jun 2020 16:33

Tgt Ion:225 Resp: 1490385
 Ion Ratio Lower Upper
 225 100
 223 62.9 51.4 77.0
 227 65.0 51.8 77.8





#79

Naphthalene

Concen: 10.356 ppbv

RT: 22.27 min Scan# 6061

Delta R.T. 0.02 min

Lab File: VL035113.D

Acq: 22 Jun 2020 16:33

Instrument :

MSVOA_L

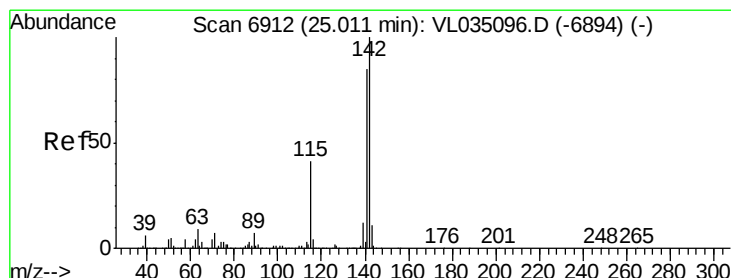
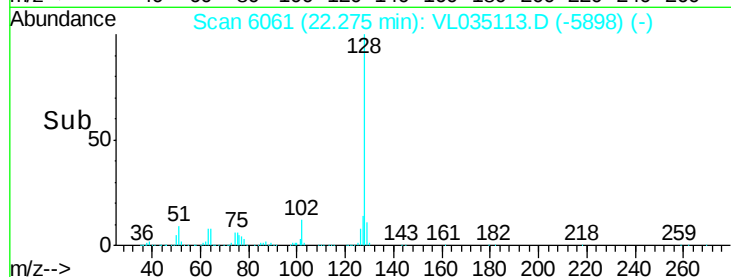
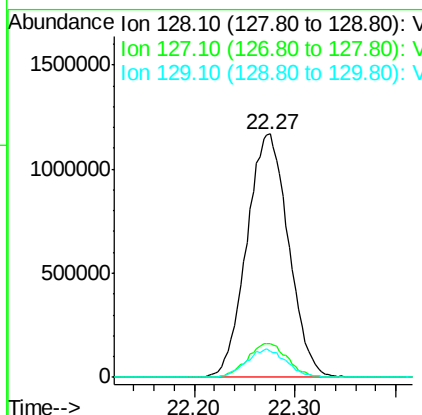
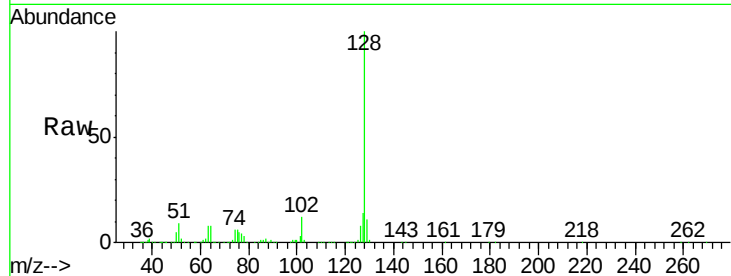
ClientSampleId :

VL0622ABS01DUP

Tot Ion:	128	Resp:	3362281
Ion	Ratio	Lower	Upper
128	100		
127	13.6	9.9	14.9
129	10.9	9.0	13.4

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#80

Naphthalene, 2-methyl-

Concen: 12.701 ppbv

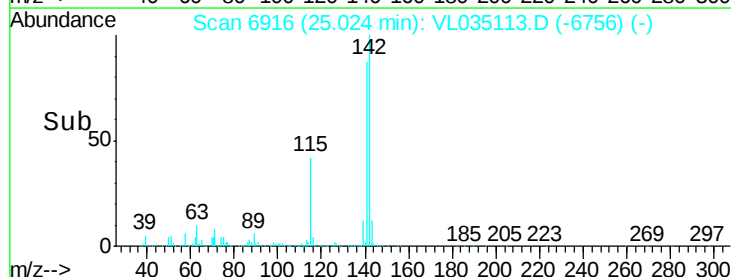
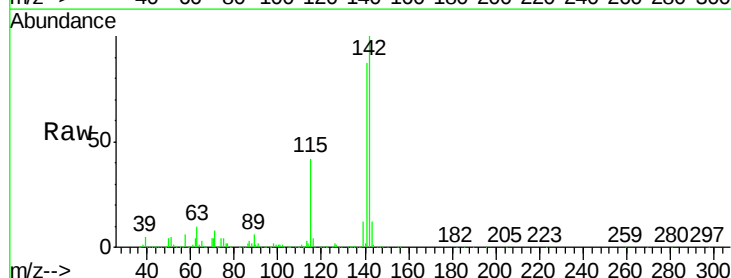
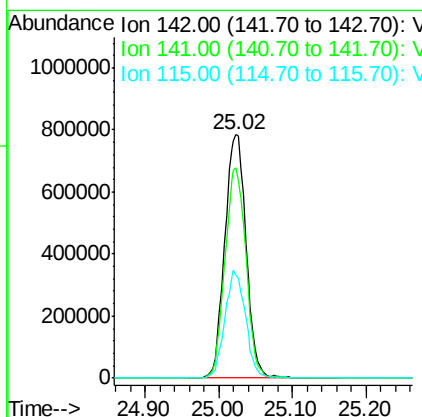
RT: 25.02 min Scan# 6916

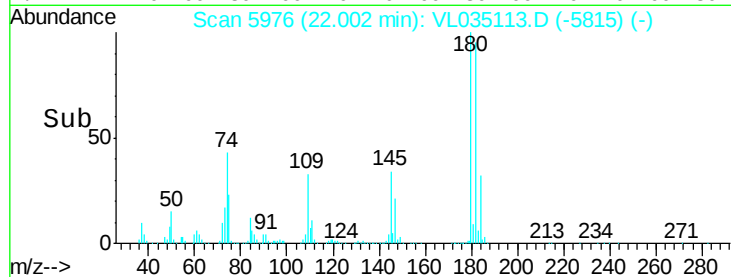
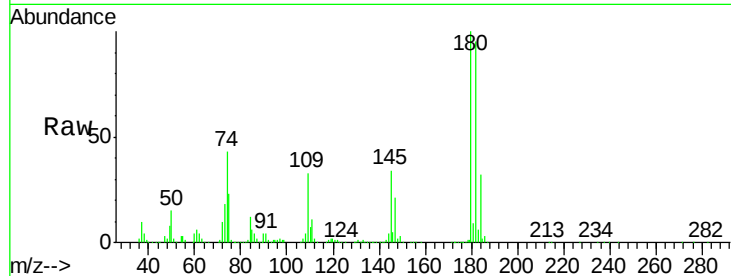
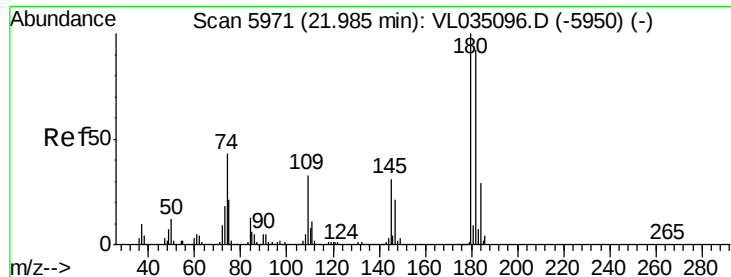
Delta R.T. 0.01 min

Lab File: VL035113.D

Acq: 22 Jun 2020 16:33

Tgt Ion:	142	Resp:	1576688
Ion	Ratio	Lower	Upper
142	100		
141	85.4	67.5	101.3
115	43.0	33.8	50.8





#81
 1,2,4-Trichlorobenzene
 Concen: 9.393 ppbv
 RT: 22.00 min Scan# 5976
 Delta R.T. 0.02 min
 Lab File: VL035113.D
 Acq: 22 Jun 2020 16:33

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0622ABS01DUP

Tot Ion	Ratio	Lower	Upper
180	100		
182	97.5	77.9	116.9
184	31.6	24.6	37.0

Manual Integrations
 APPROVED

MMDadoda
 6/23/2020 10:59:26 AM

