

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL062220\
 Data File : VL035113.D
 Acq On : 22 Jun 2020 16:33
 Operator : SY/AP
 Sample : VL0622SBS01DUP
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0622ABS01DUP

Quant Time: Jun 23 01:25:25 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL061920AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Sat Jun 20 02:10:36 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	3774443	10.00	ppbv	0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.46	95	2548932	8.13	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	81.30%

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	197931	5.248	ppbv	# 1
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

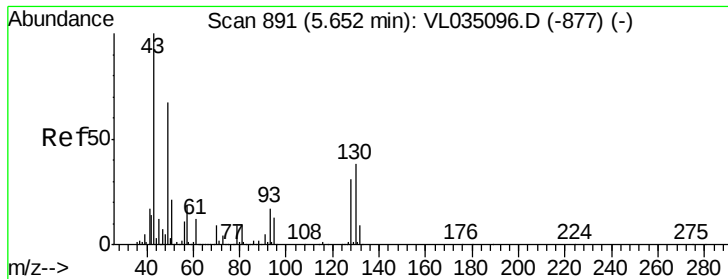
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.88	57	4160668	9.751	ppbv	100
45) t-1,3-Dichloropropene	9.31	75	1283249	12.742	ppbv	100
46) cis-1,3-Dichloropropene	8.73	75	1488347	11.896	ppbv	96
47) 1,1,2-Trichloroethane	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	8.190	ppbv #	61
57) Chlorobenzene	12.19	112	2117915	7.626	ppbv	99
58) Ethyl Benzene	12.75	91	3782789	8.920	ppbv	97
59) m/p-Xylene	13.03	91	3236912	8.613	ppbv #	35
60) o-Xylene	13.73	91	3038614	8.121	ppbv	100
61) Styrene	13.57	104	2225331	9.451	ppbv	100
62) Isopropylbenzene	14.72	105	4527579	8.109	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.73	83	2116323	6.983	ppbv	99
64) n-propylbenzene	15.61	120	1191858	8.365	ppbv	99
65) tert-Butylbenzene	16.80	119	3844837	8.042	ppbv	100
66) Benzyl Chloride	17.04	91	1627655	11.021	ppbv	100
67) sec-Butylbenzene	17.35	105	5473351	7.987	ppbv	100
69) p-Isopropyltoluene	17.70	119	4525031	8.278	ppbv	100
70) n-Butylbenzene	18.60	91	4688354	7.963	ppbv	99
71) 2-Chlorotoluene	15.50	91	3504697	8.304	ppbv	100
72) 4-Ethyltoluene	15.89	105	3554955	8.541	ppbv	99
73) 1,3,5-Trimethylbenzene	16.05	105	3325995	8.453	ppbv	96
74) 1,2,4-Trimethylbenzene	16.82	105	3379447	7.696	ppbv	92
75) 1,3-Dichlorobenzene	17.05	146	1926010	7.349	ppbv	99
76) 1,4-Dichlorobenzene	17.19	146	1922379	7.668	ppbv	99
77) 1,2-Dichlorobenzene	17.87	146	1837743	7.664	ppbv	99
78) Hexachloro-1,3-Butadiene	23.44	225	1490385	6.914	ppbv	99
79) Naphthalene	22.27	128	3362281	8.733	ppbv	98
80) Naphthalene, 2-methyl-	25.02	142	1576688	10.711	ppbv	99
81) 1,2,4-Trichlorobenzene	22.00	180	1759192	7.921	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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VL0622ABS01DUP

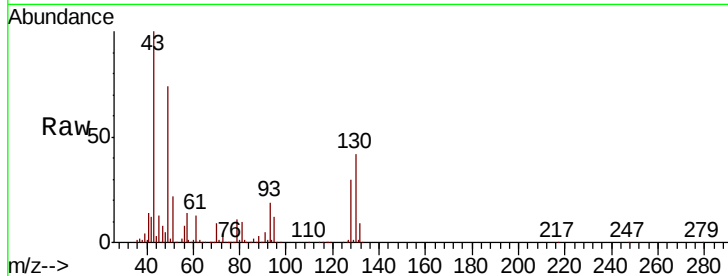
Tot Ion: 49 Resp: 1350913

Ion Ratio Lower Upper

49 100

128 45.3 22.9 68.5

130 58.8 29.0 87.0



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V

5.66

800000

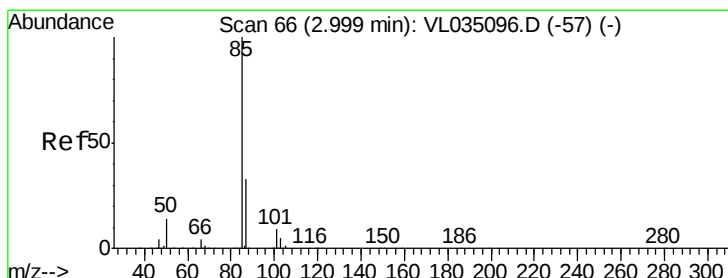
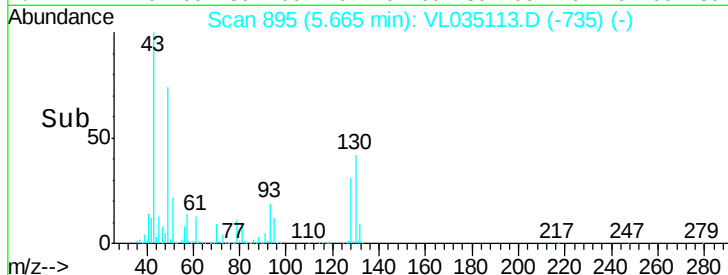
600000

400000

200000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 8.677 ppbv

RT: 3.01 min Scan# 70

Delta R.T. 0.01 min

Lab File: VL035113.D

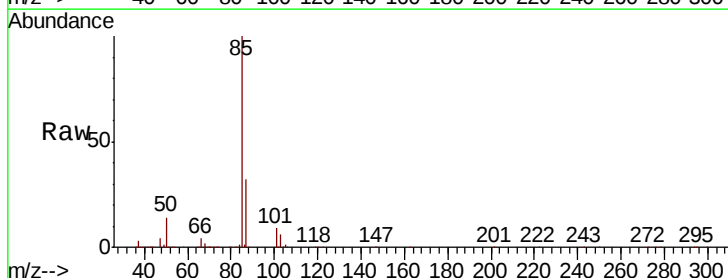
Acq: 22 Jun 2020 16:33

Tgt Ion: 85 Resp: 1582751

Ion Ratio Lower Upper

85 100

87 32.3 26.1 39.1



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

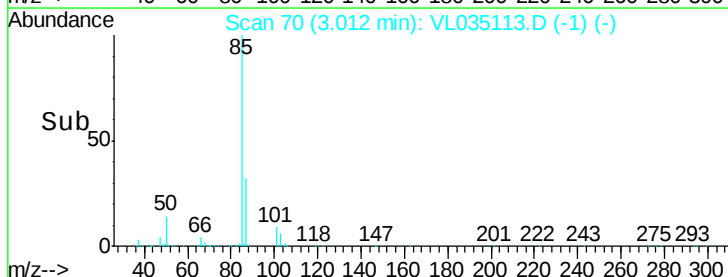
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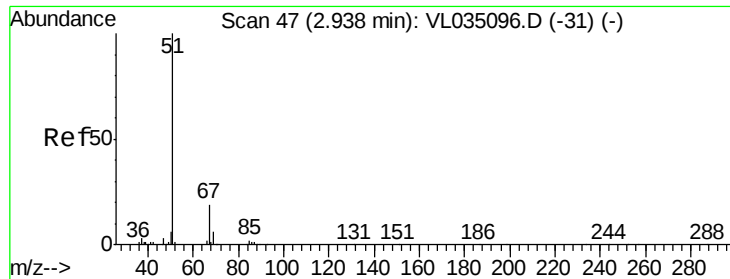
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500000

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Time-->





#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 :

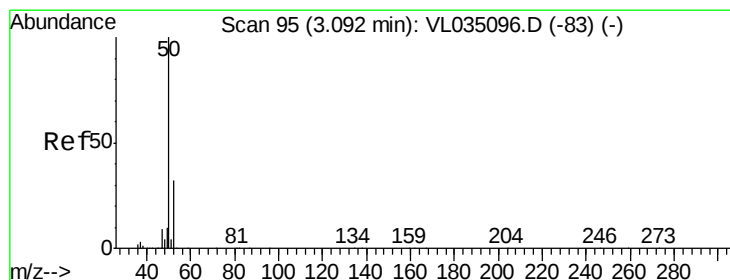
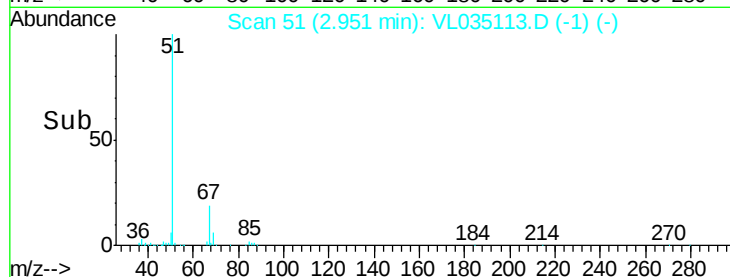
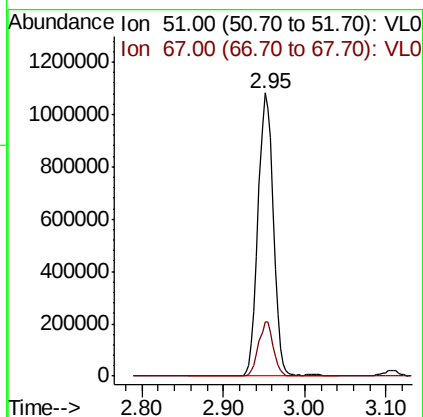
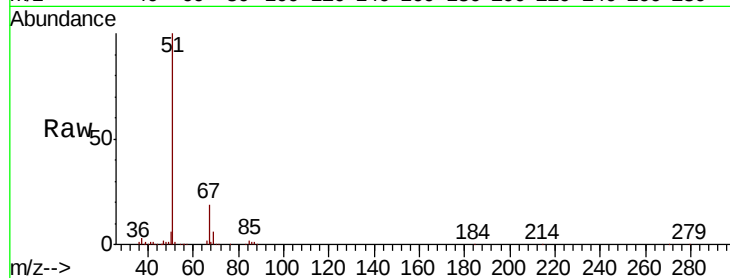
VL0622ABS01DUP

Tot Ion: 51 Resp: 1378659

Ion Ratio Lower Upper

51 100

67 18.6 15.2 22.8



#4

Chloromethane

Concen: 9.585 ppbv

RT: 3.11 min Scan# 99

Delta R.T. 0.01 min

Lab File: VL035113.D

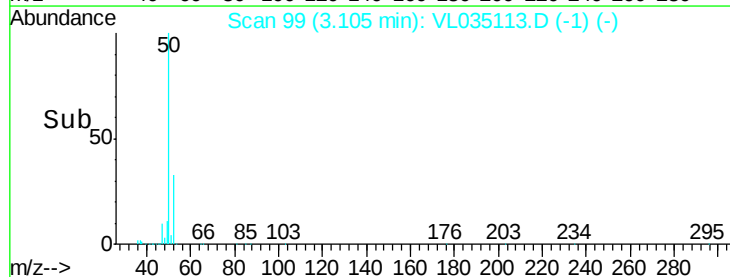
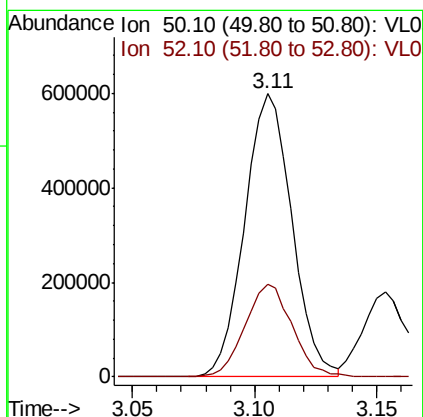
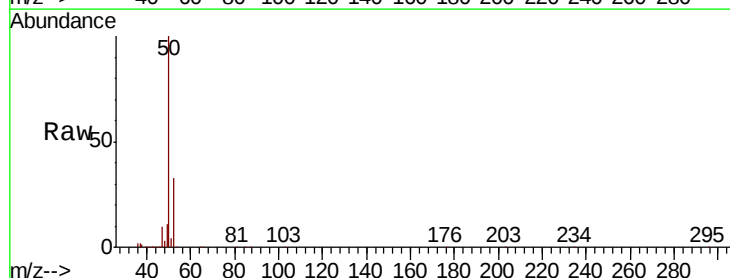
Acq: 22 Jun 2020 16:33

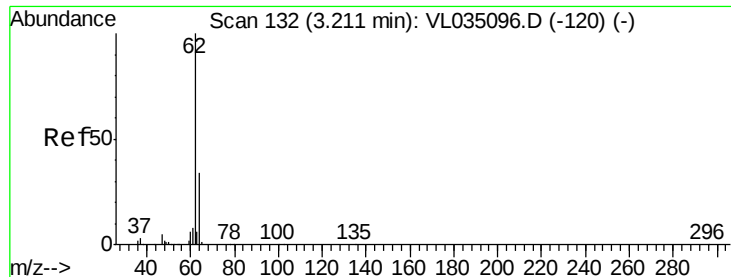
Tgt Ion: 50 Resp: 801848

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 :

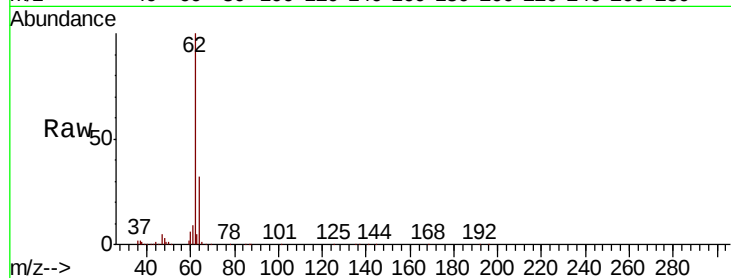
VL0622ABS01DUP

Tot Ion: 62 Resp: 792038

Ion Ratio Lower Upper

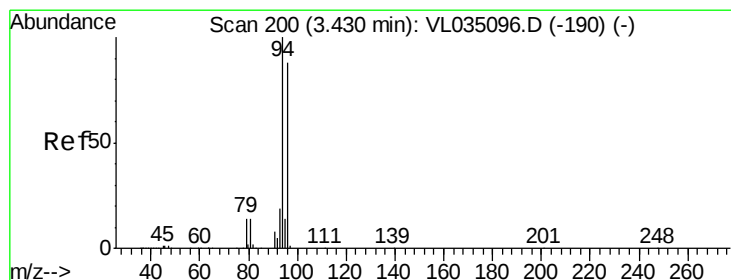
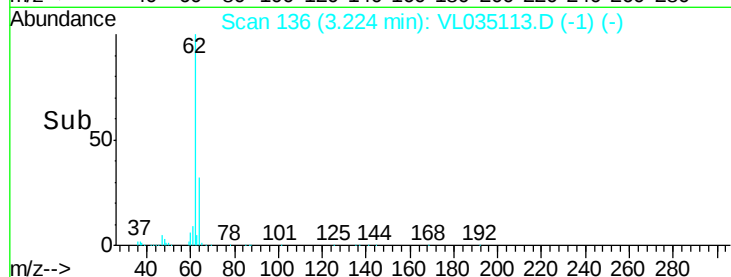
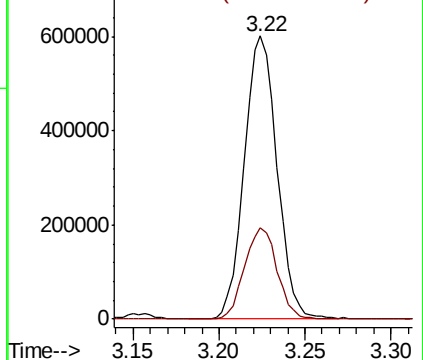
62 100

64 32.4 27.0 40.4



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

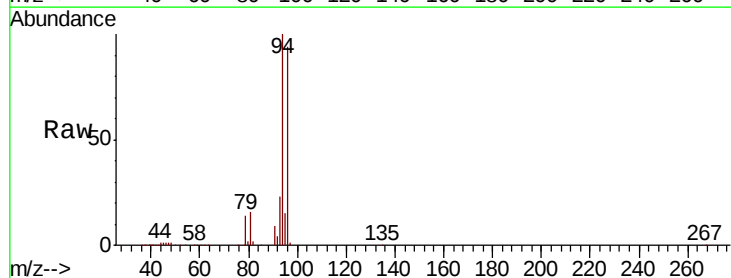
Acq: 22 Jun 2020 16:33

Tgt Ion: 94 Resp: 473018

Ion Ratio Lower Upper

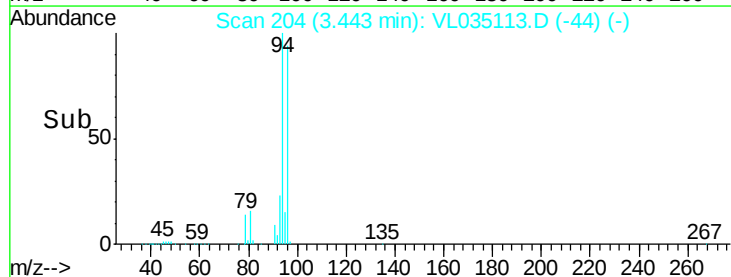
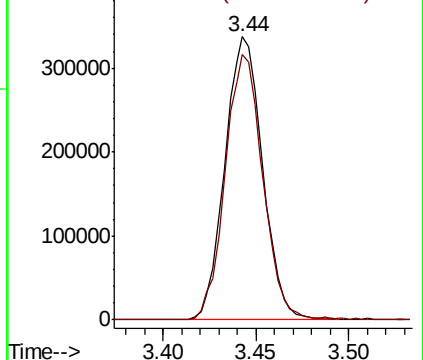
94 100

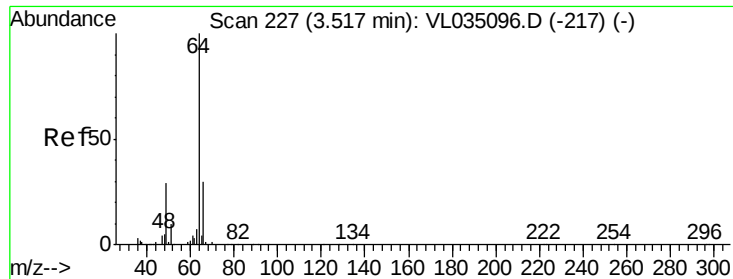
96 93.8 70.2 105.2



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 :

MSVOA_L

ClientSampleId :

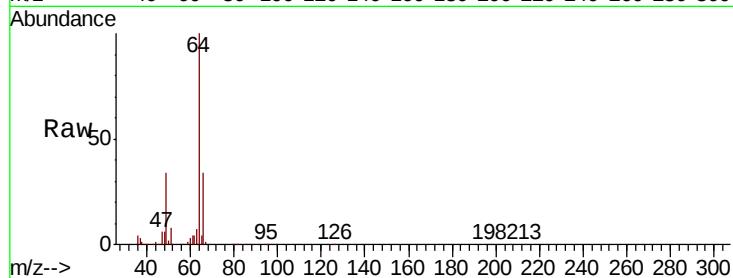
VL0622ABS01DUP

Tot Ion: 64 Resp: 286788

Ion Ratio Lower Upper

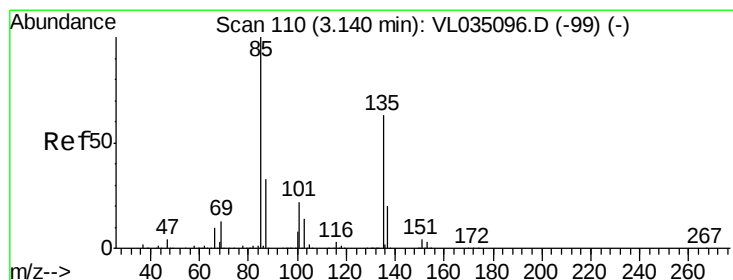
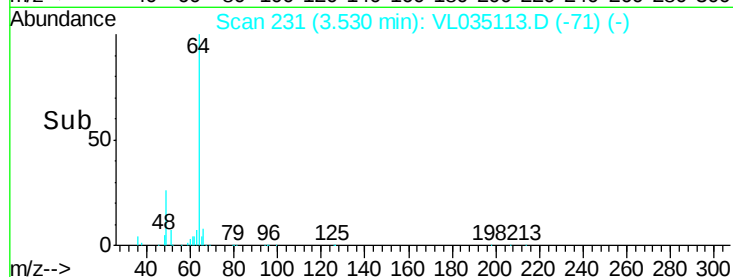
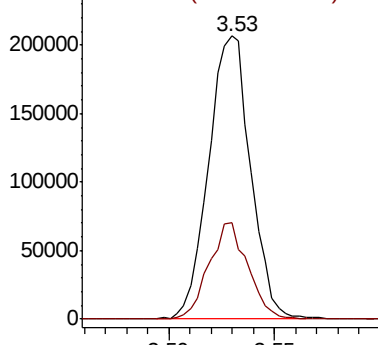
64 100

66 34.3 24.2 36.4



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

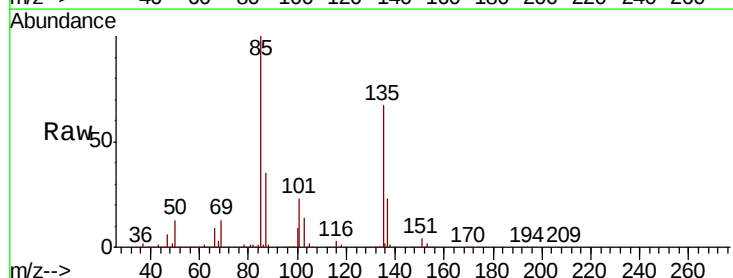
Acq: 22 Jun 2020 16:33

Tgt Ion: 85 Resp: 1741847

Ion Ratio Lower Upper

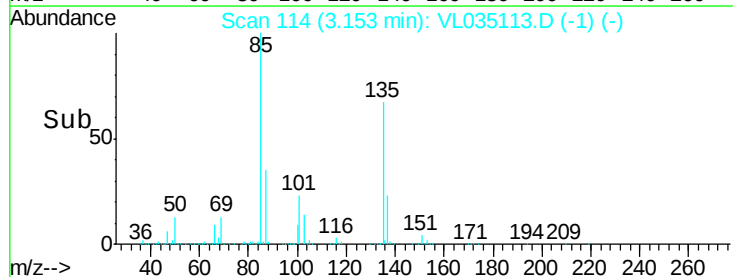
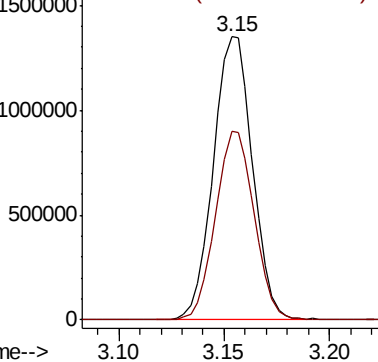
85 100

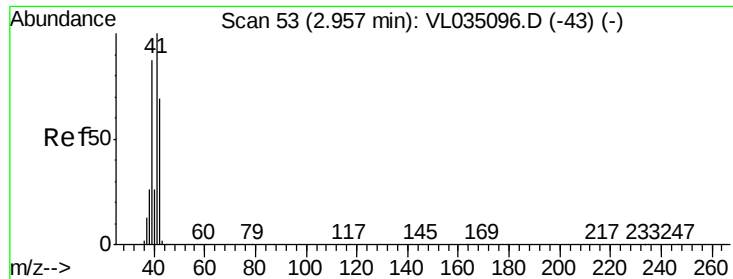
135 66.0 51.0 76.6



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

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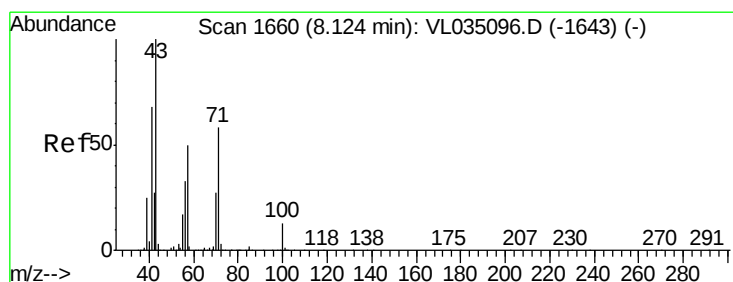
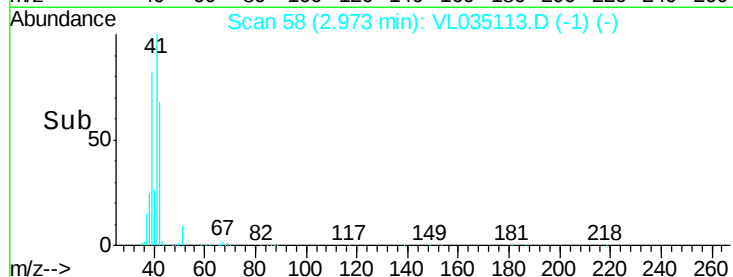
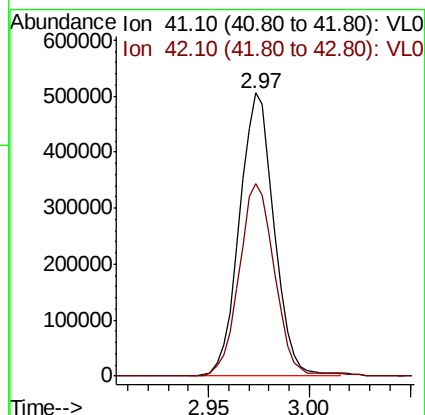
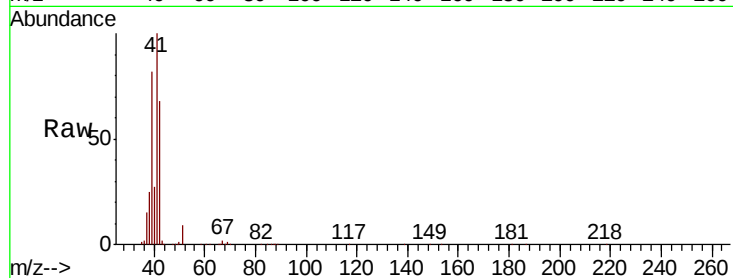
VL0622ABS01DUP

Tot Ion: 41 Resp: 609200

Ion Ratio Lower Upper

41 100

42 69.9 55.8 83.6



#10

Heptane

Concen: 10.392 ppbv

RT: 8.14 min Scan# 1666

Delta R.T. 0.02 min

Lab File: VL035113.D

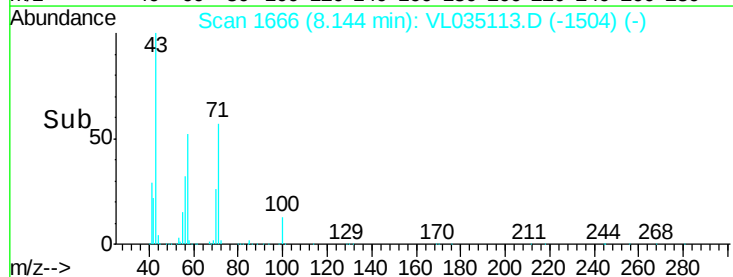
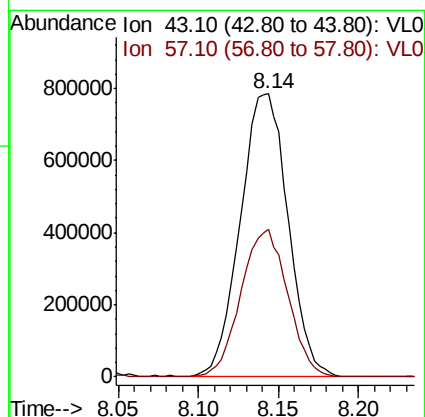
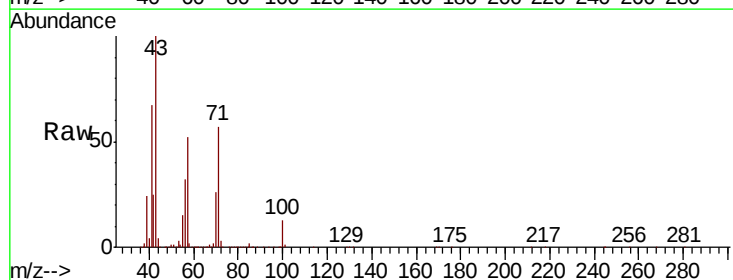
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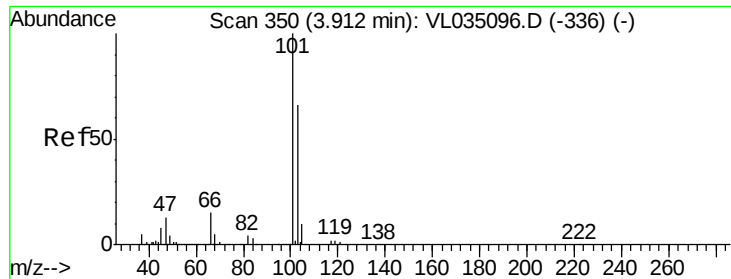
Tgt Ion: 43 Resp: 1591442

Ion Ratio Lower Upper

43 100

57 51.6 41.9 62.9

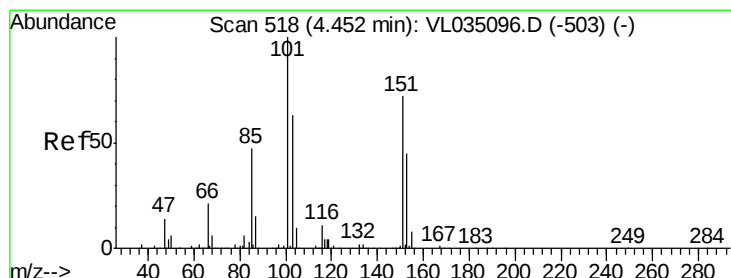
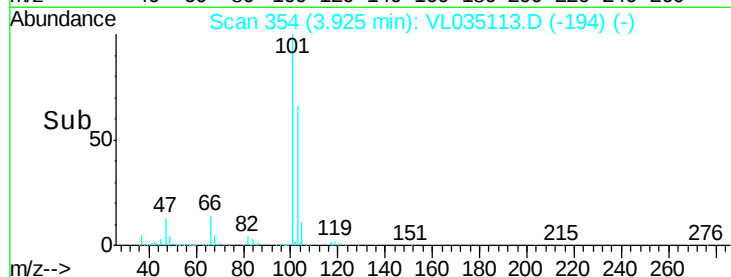
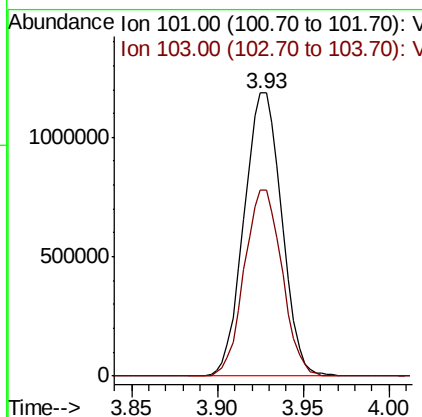
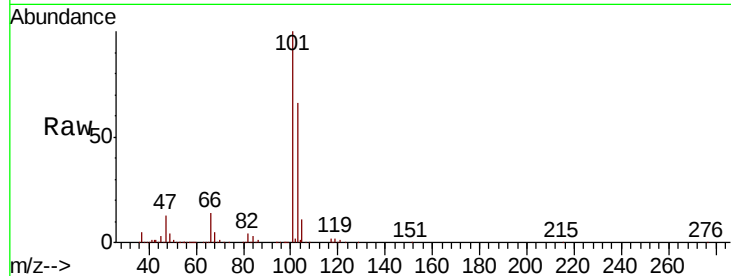




#11
 Trichlorofluoromethane
 Concen: 9.273 ppbv
 RT: 3.93 min Scan# 354
 Delta R.T. 0.01 min
 Lab File: VL035113.D
 Acq: 22 Jun 2020 16:33

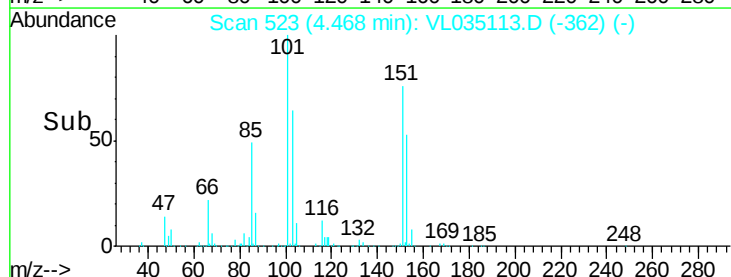
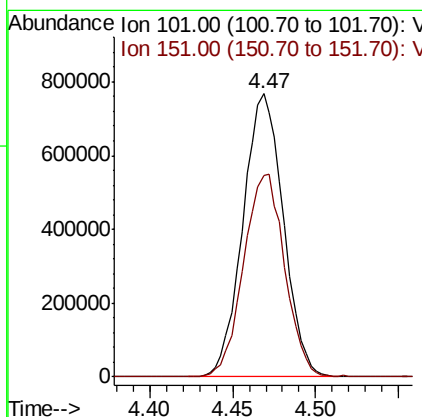
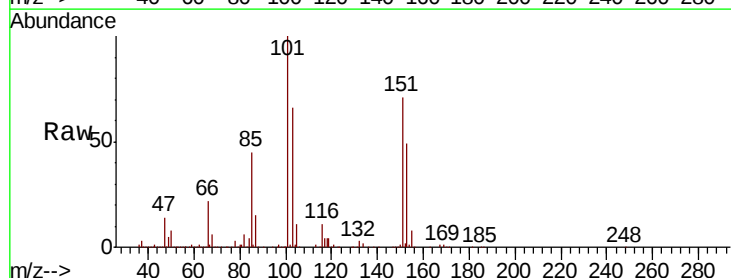
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0622ABS01DUP

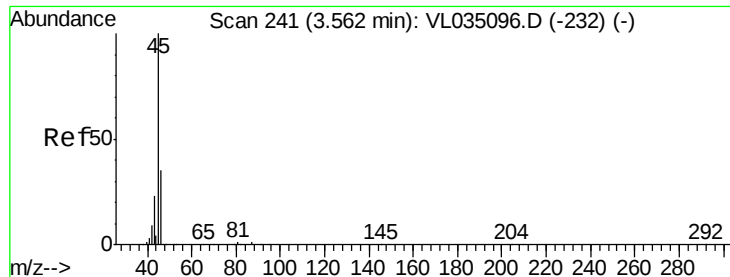
Tot Ion:101 Resp: 1807027
 Ion Ratio Lower Upper
 101 100
 103 65.9 52.6 79.0



#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 :

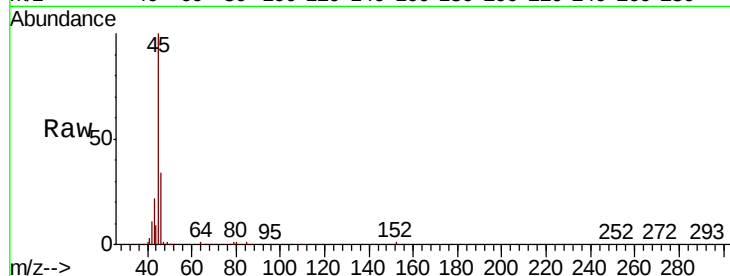
VL0622ABS01DUP

Tot Ion: 45 Resp: 159424

Ion Ratio Lower Upper

45 100

46 36.9 14.2 57.0



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0

3.58

100000

80000

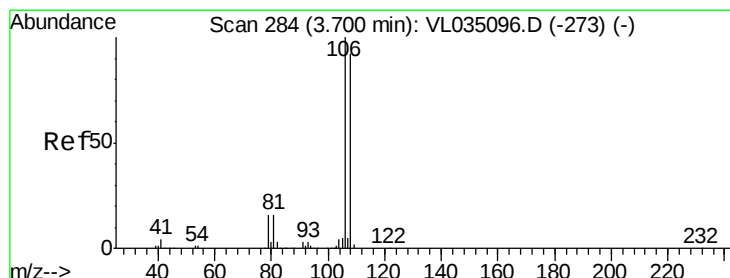
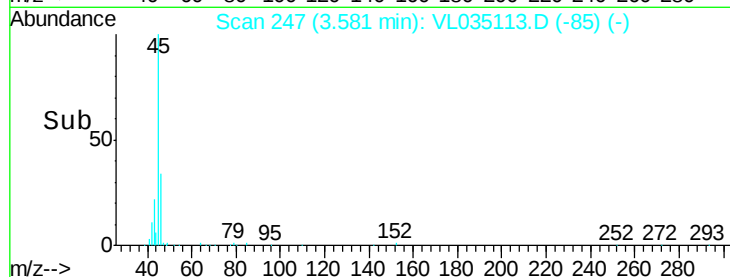
60000

40000

20000

0

Time-->



#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

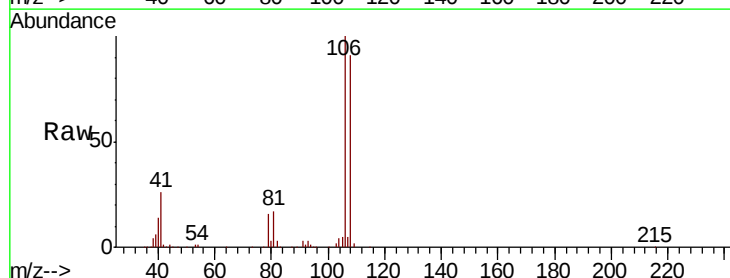
Tgt Ion: 108 Resp: 581785

Ion Ratio Lower Upper

108 100

106 107.5 84.4 126.6

79 17.5 14.2 21.2



Abundance Ion 108.00 (107.70 to 108.70): V

Ion 106.00 (105.70 to 106.70): V

Ion 79.00 (78.70 to 79.70): VL0

3.71

600000

500000

400000

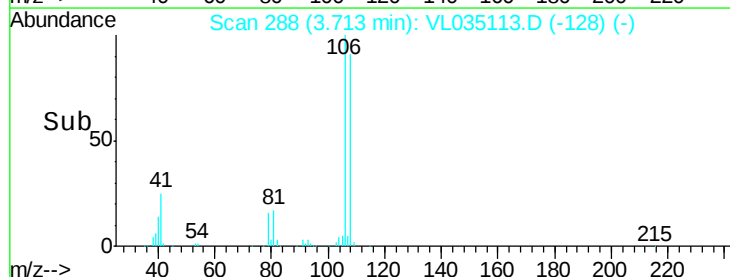
300000

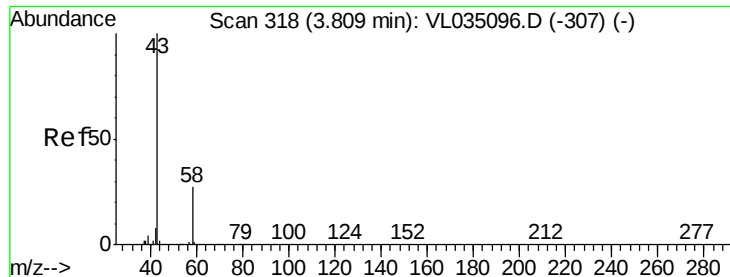
200000

100000

0

Time-->





#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 :

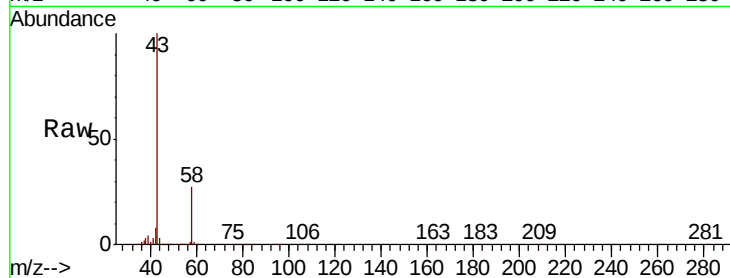
VL0622ABS01DUP

Tot Ion: 43 Resp: 1403434

Ion Ratio Lower Upper

43 100

58 27.4 21.8 32.6



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.83

1000000

800000

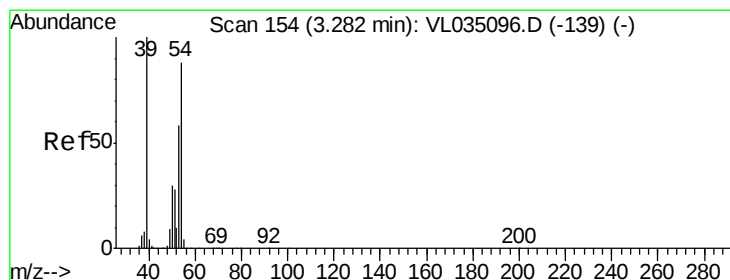
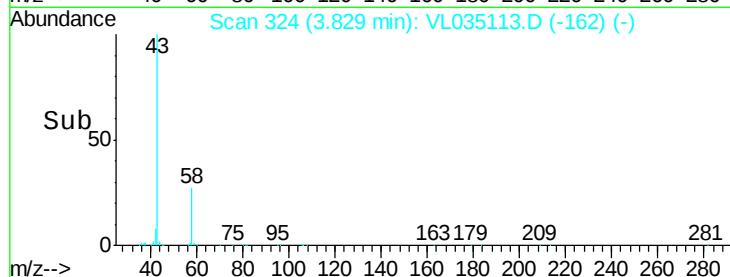
600000

400000

200000

0

Time--> 3.75 3.80 3.85



#16

1,3-Butadiene

Concen: 9.981 ppbv

RT: 3.29 min Scan# 158

Delta R.T. 0.01 min

Lab File: VL035113.D

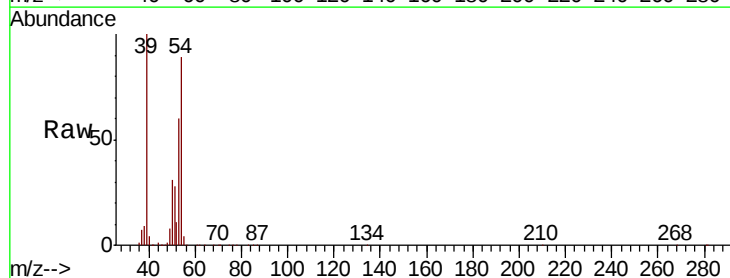
Acq: 22 Jun 2020 16:33

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

3.29

600000

500000

400000

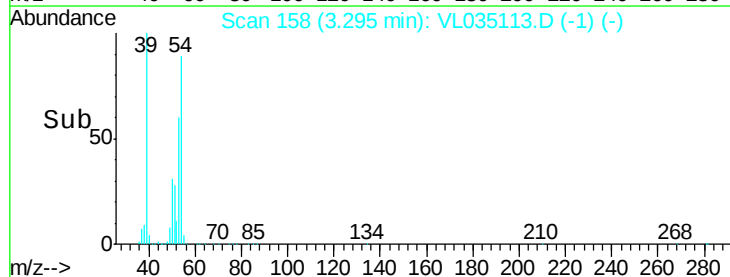
300000

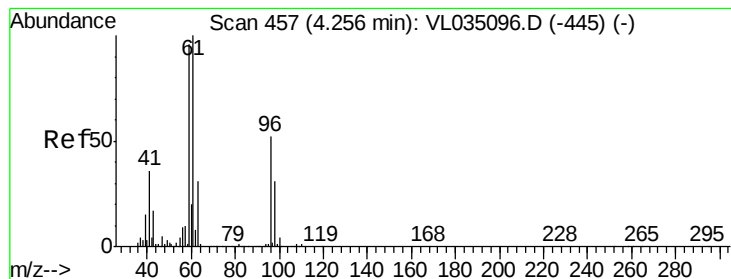
200000

100000

0

Time--> 3.20 3.25 3.30 3.35



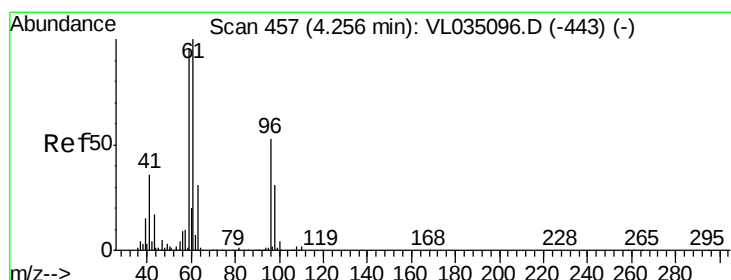
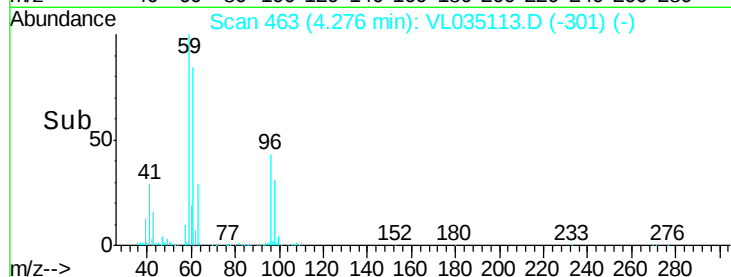
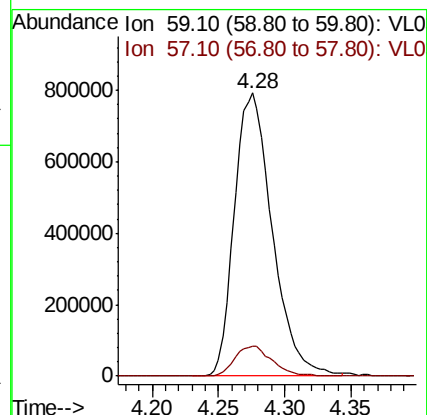
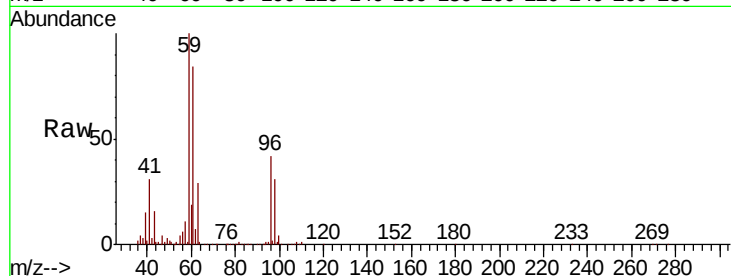


#17

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

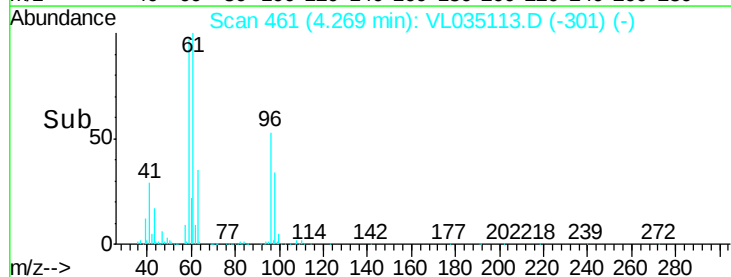
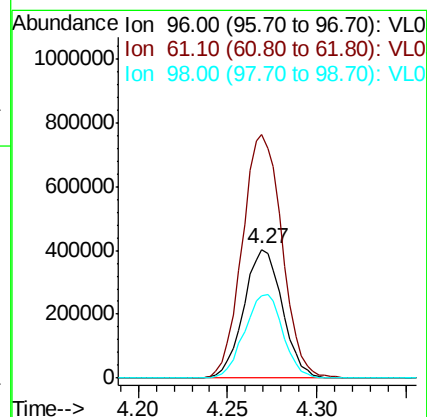
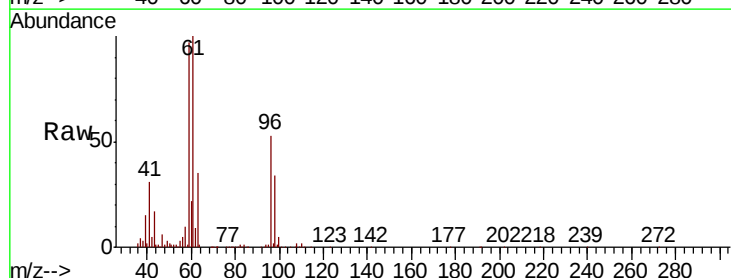
Tot Ion: 59 Resp: 1579207
 Ion Ratio Lower Upper
 59 100
 57 10.7 8.6 12.8

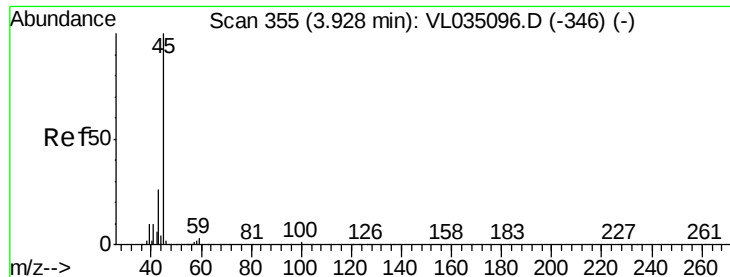


#18

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



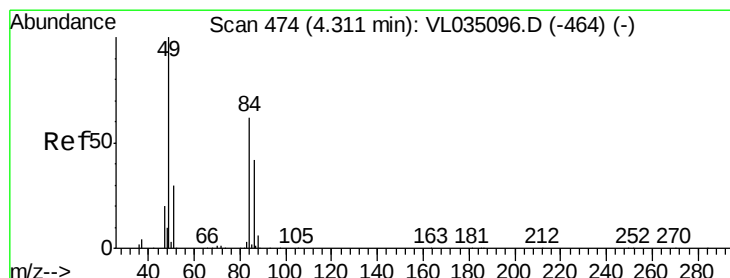
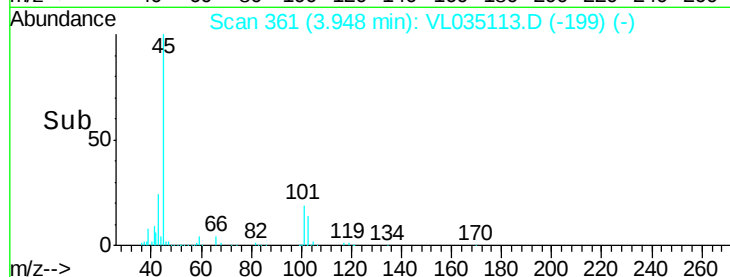
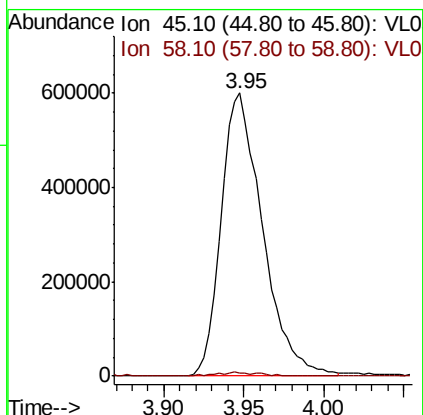
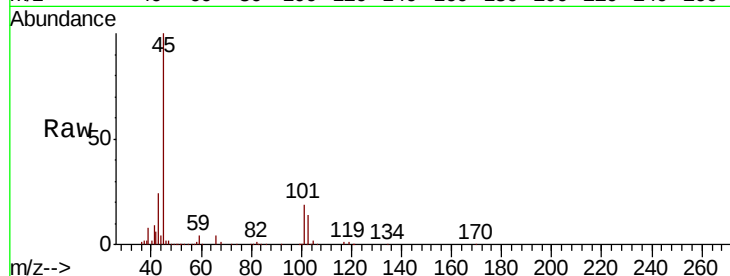


#19

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

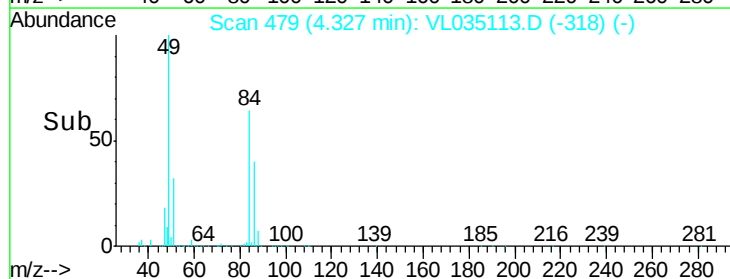
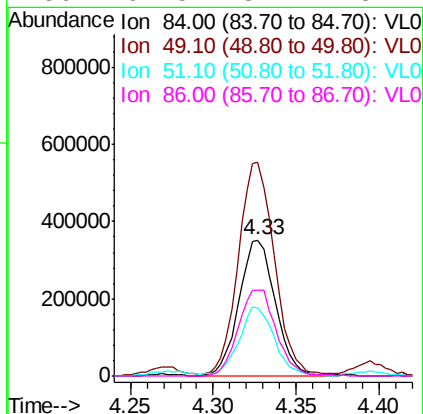
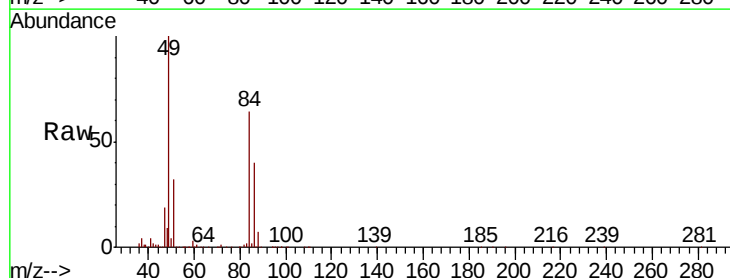
Tot Ion: 45 Resp: 1058422
 Ion Ratio Lower Upper
 45 100
 58 1.6 1.8 2.8#

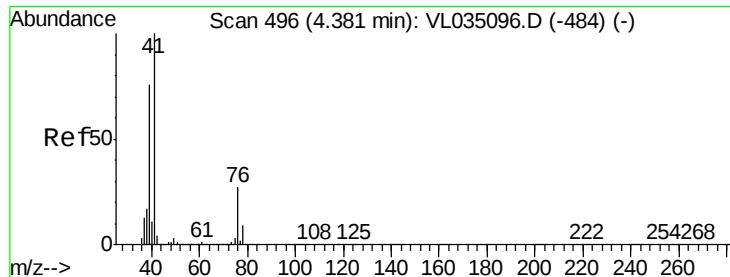


#20

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

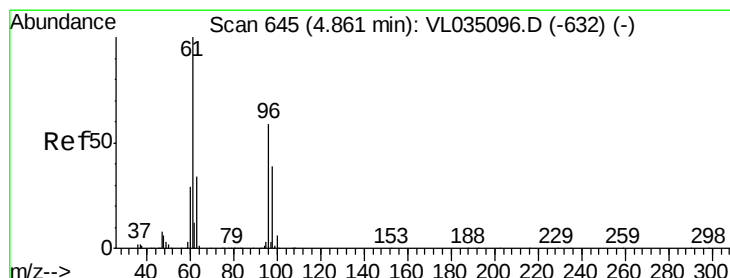
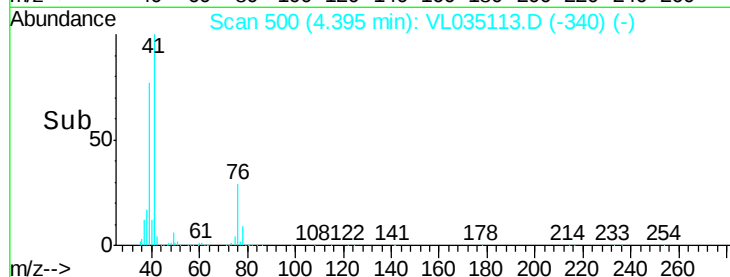
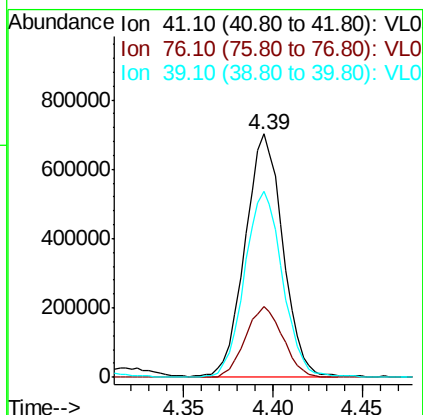
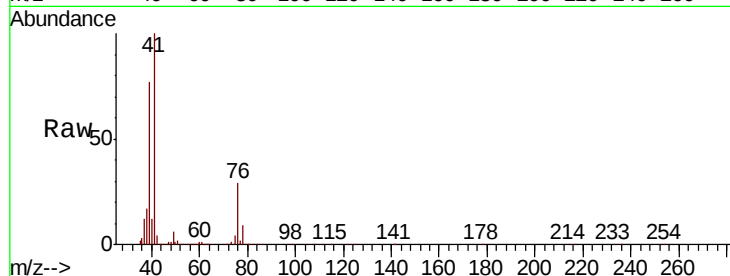




#21
Allvl Chloride
Concen: 10.624 ppbv
RT: 4.39 min Scan# 500
Delta R.T. 0.01 min
Lab File: VL035113.D
Acq: 22 Jun 2020 16:33

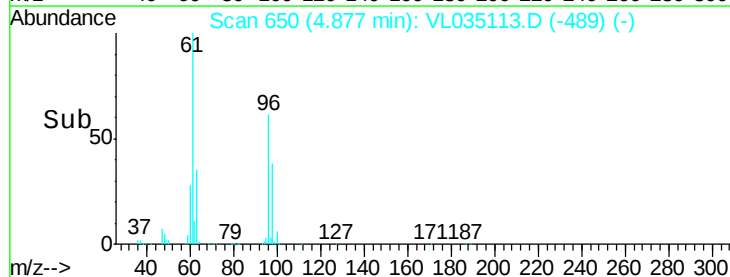
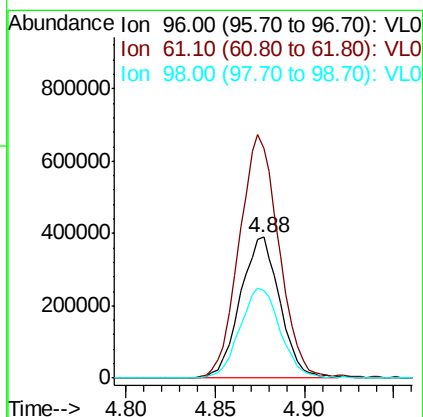
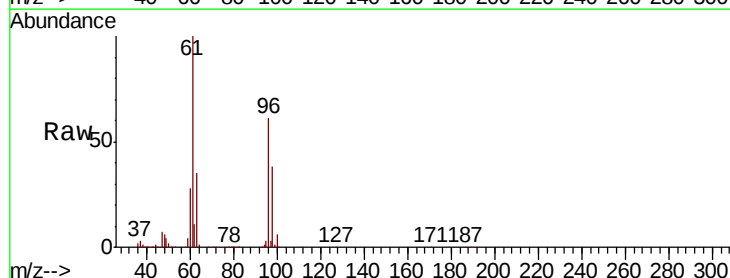
Instrument :
MSVOA_L
ClientSampleId :
VL0622ABS01DUP

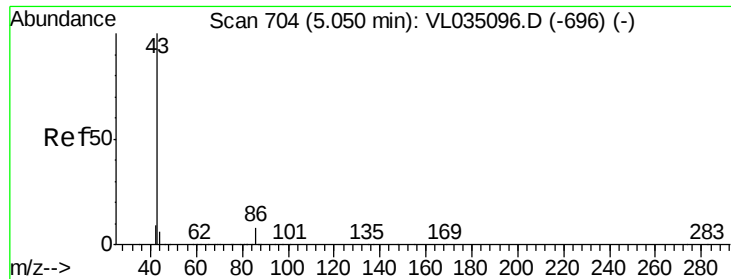
Tot Ion: 41 Resp: 1031217
Ion Ratio Lower Upper
41 100
76 29.2 22.6 34.0
39 77.3 61.6 92.4



#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: 96 Resp: 606446
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

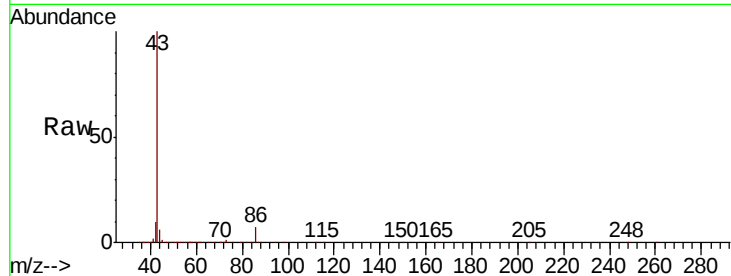
Ion	Ratio	Lower	Upper
43	100		
86	7.3	6.2	9.2
42	9.7	8.1	12.1
44	5.7	4.6	7.0

43 100

86 7.3 6.2 9.2

42 9.7 8.1 12.1

44 5.7 4.6 7.0



Abundance Ion 43.10 (42.80 to 43.80): VL0

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

2000000

1500000

1000000

500000

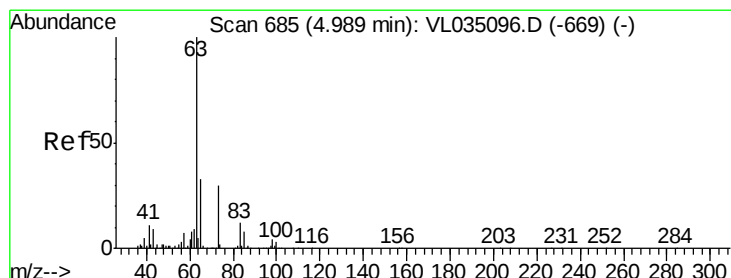
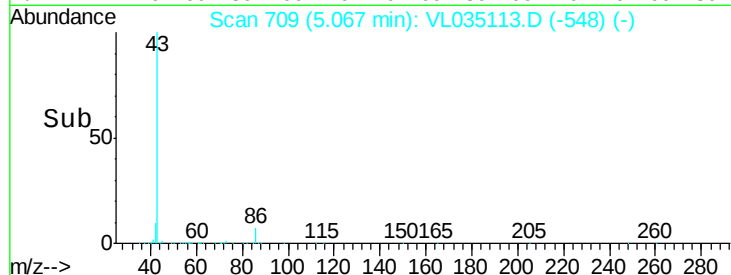
0

5.07

5.05

5.10

Time-->



#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

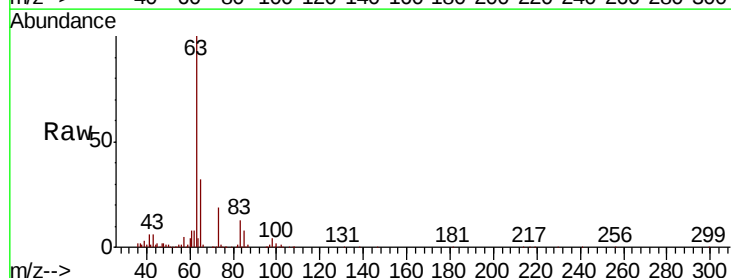
Tgt Ion: 63 Resp: 1562354

Ion	Ratio	Lower	Upper
63	100		
98	4.2	2.3	6.9
100	2.3	1.4	4.0

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

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0

1200000

1000000

800000

600000

400000

200000

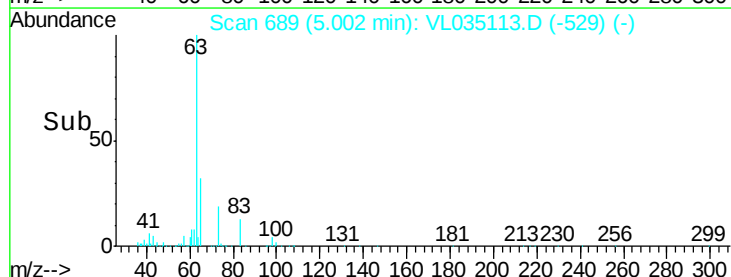
0

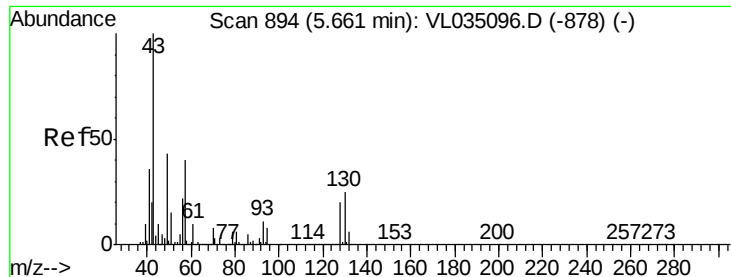
5.00

4.95

5.05

Time-->



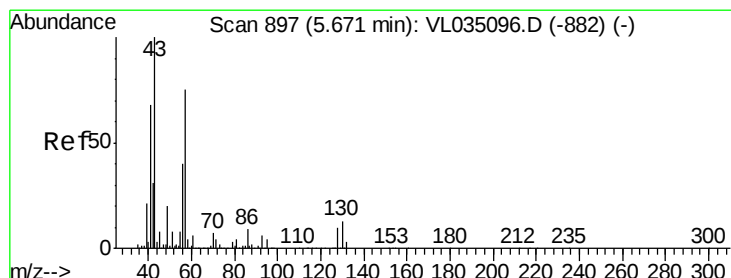
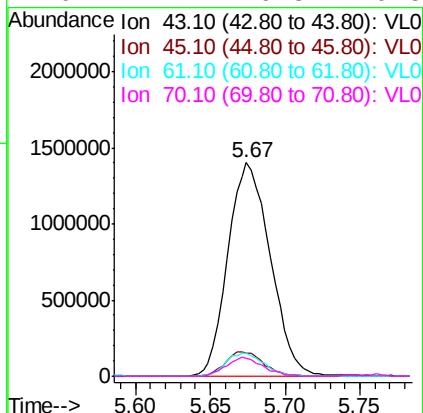
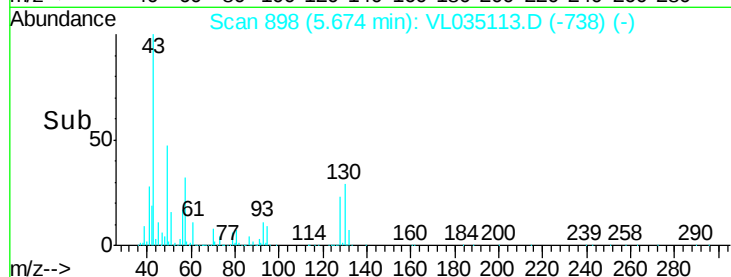
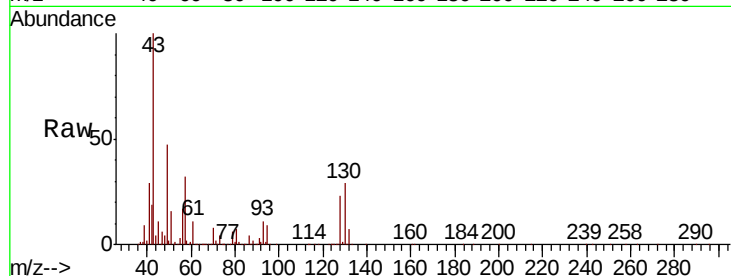


#25
Ethyl Acetate
Concen: 9.351 ppbv
RT: 5.67 min Scan# 898
Delta R.T. 0.01 min
Lab File: VL035113.D
Acq: 22 Jun 2020 16:33

Instrument :
MSVOA_L
ClientSampleId :
VL0622ABS01DUP

Tot Ion: 43 Resp: 2756241

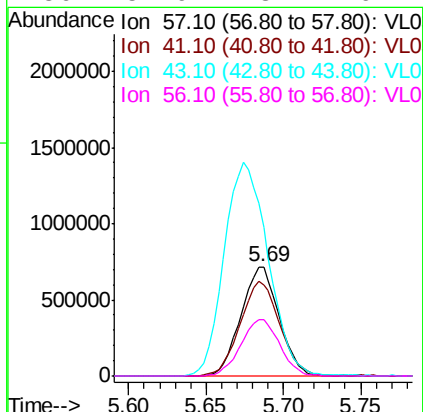
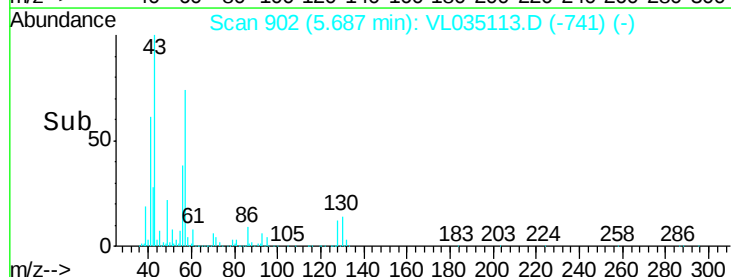
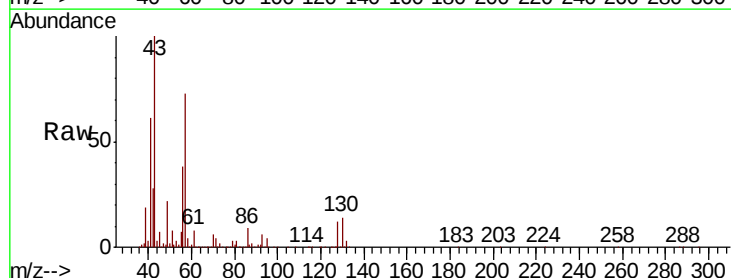
Ion	Ratio	Lower	Upper
43	100		
45	10.6	8.4	12.6
61	10.1	8.0	12.0
70	7.7	6.3	9.5

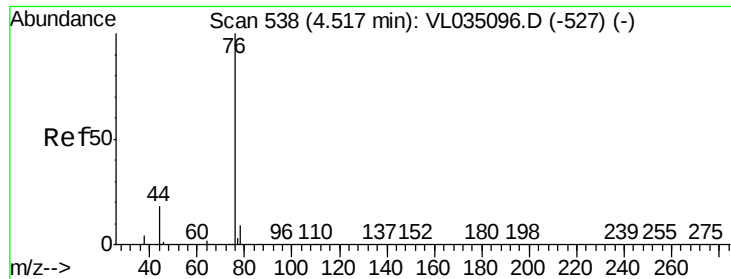


#26
Hexane
Concen: 9.232 ppbv
RT: 5.69 min Scan# 902
Delta R.T. 0.02 min
Lab File: VL035113.D
Acq: 22 Jun 2020 16:33

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





#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 :

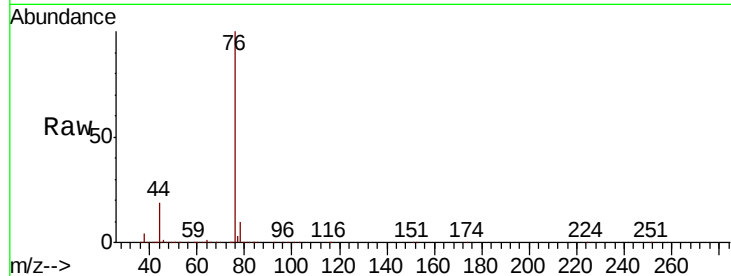
MSVOA_L

ClientSampleId :

VL0622ABS01DUP

Tot Ion: 76 Resp: 1629475

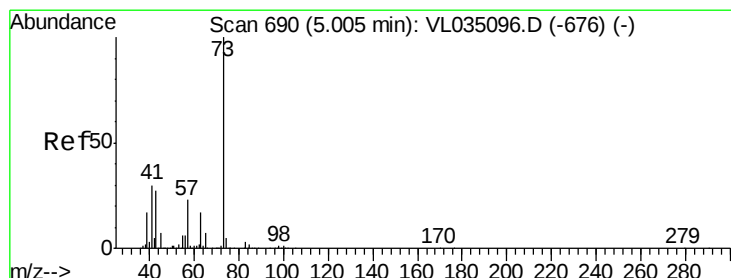
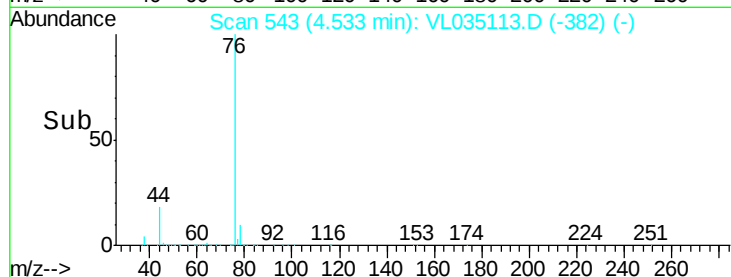
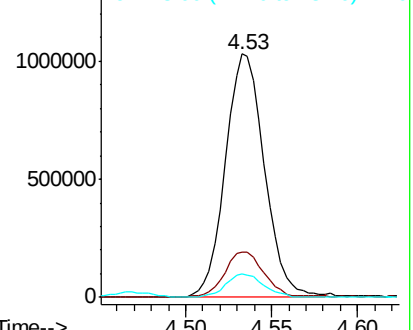
Ion	Ratio	Lower	Upper
76	100		
44	18.7	15.8	23.8
78	9.7	7.6	11.4



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

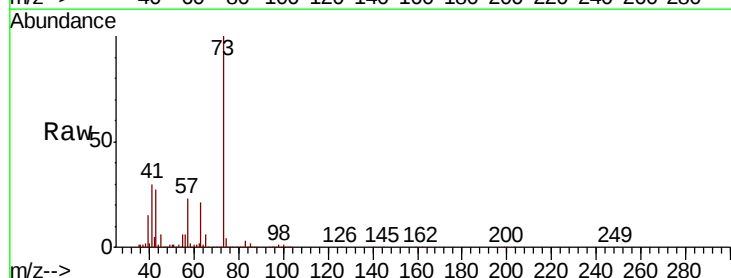
Delta R.T. 0.02 min

Lab File: VL035113.D

Acq: 22 Jun 2020 16:33

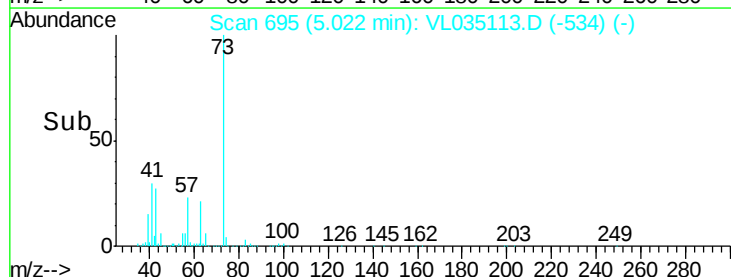
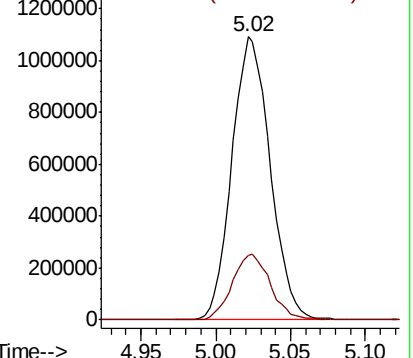
Tgt Ion: 73 Resp: 1942846

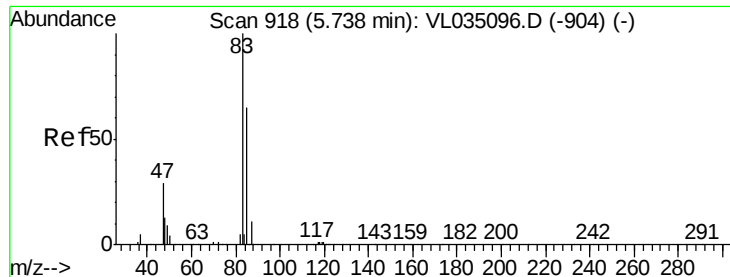
Ion	Ratio	Lower	Upper
73	100		
57	23.2	18.5	27.7



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 :

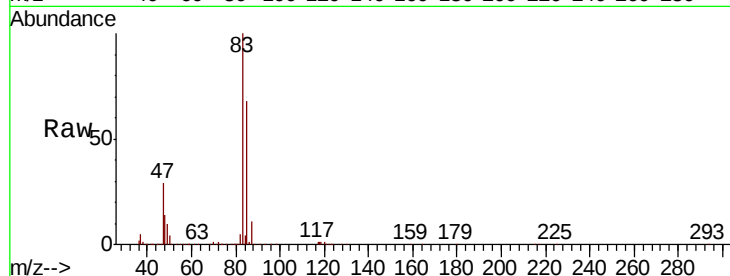
VL0622ABS01DUP

Tot Ion: 83 Resp: 1890388

Ion Ratio Lower Upper

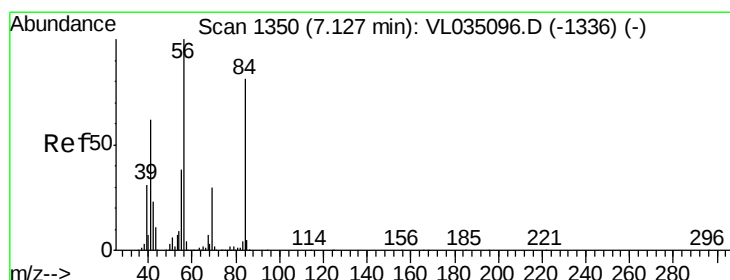
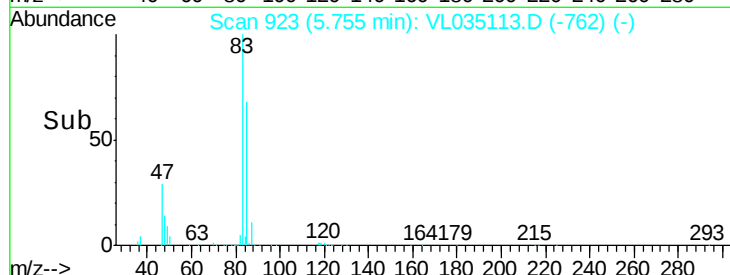
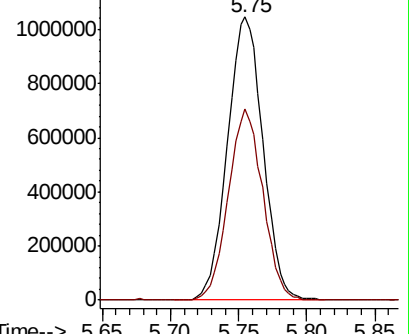
83 100

85 67.5 52.1 78.1



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0



#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

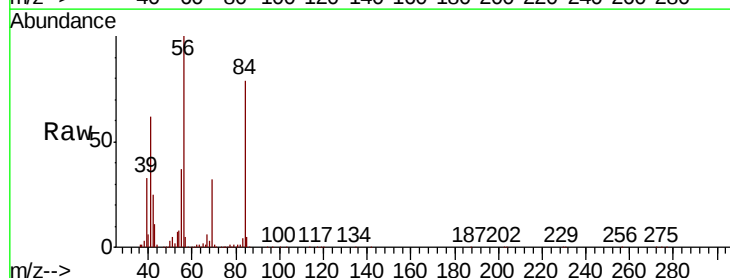
Tgt Ion: 84 Resp: 1028522

Ion Ratio Lower Upper

84 100

56 137.5 108.0 162.0

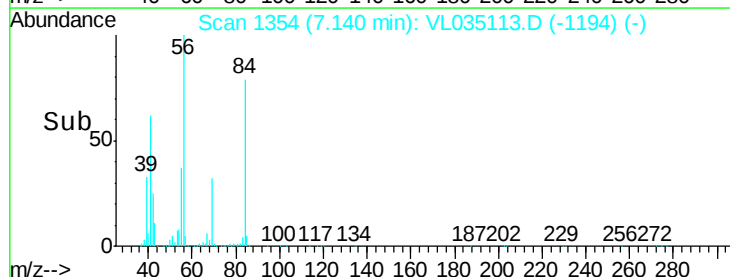
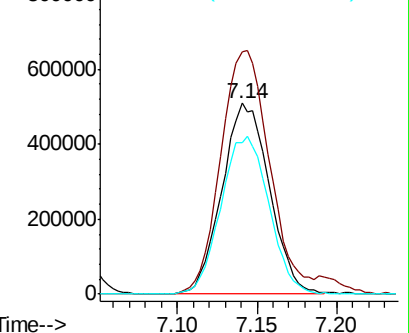
41 84.1 65.6 98.4

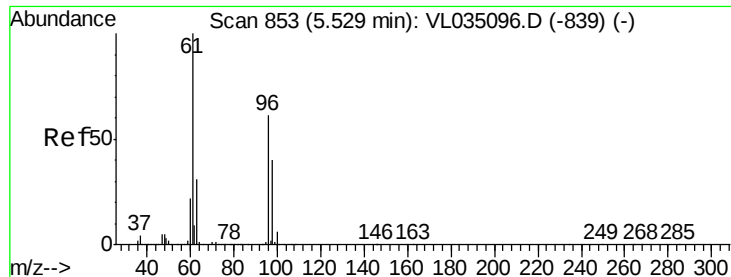


Abundance Ion 84.20 (83.90 to 84.90): VL0

Ion 56.10 (55.80 to 56.80): VL0

Ion 41.10 (40.80 to 41.80): VL0





#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 :

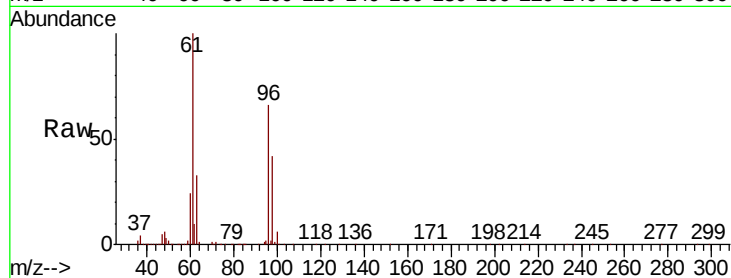
MSVOA_L

ClientSampleId :

VL0622ABS01DUP

Tot Ion: 61 Resp: 1250019

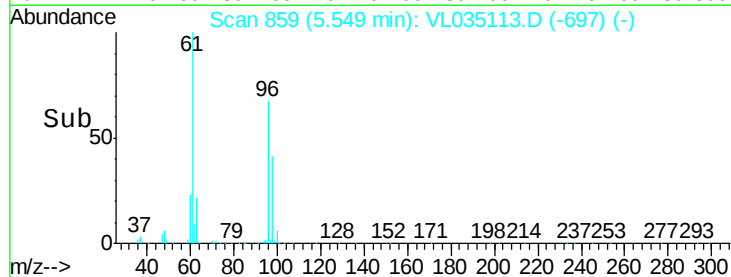
Ion	Ratio	Lower	Upper
61	100		
96	66.2	48.8	73.2
98	41.6	31.9	47.9



Abundance Ion 61.10 (60.80 to 61.80): VL0

Ion 96.00 (95.70 to 96.70): VL0

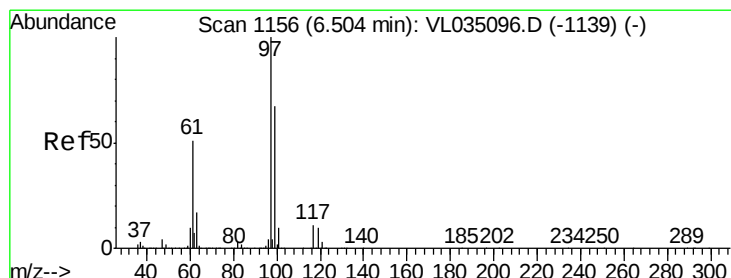
Ion 98.00 (97.70 to 98.70): VL0



Abundance Ion 61.10 (60.80 to 61.80): VL0

Ion 96.00 (95.70 to 96.70): VL0

Ion 98.00 (97.70 to 98.70): VL0



#32

1,1,1-Trichloroethane

Concen: 9.563 ppbv

RT: 6.52 min Scan# 1161

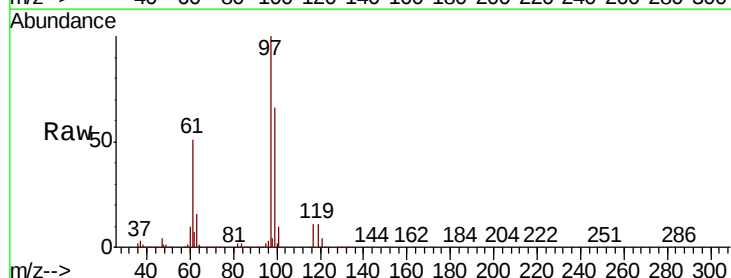
Delta R.T. 0.02 min

Lab File: VL035113.D

Acq: 22 Jun 2020 16:33

Tgt Ion: 97 Resp: 1844575

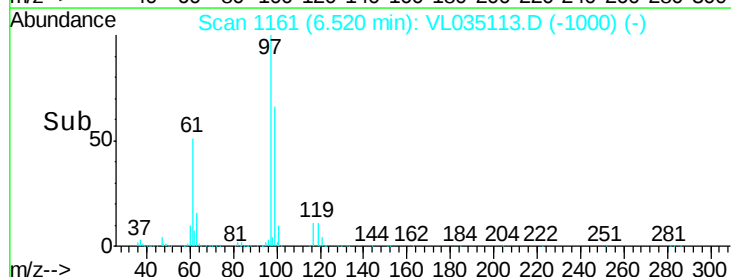
Ion	Ratio	Lower	Upper
97	100		
99	66.1	52.0	78.0
61	51.3	41.0	61.6



Abundance Ion 97.00 (96.70 to 97.70): VL0

Ion 99.00 (98.70 to 99.70): VL0

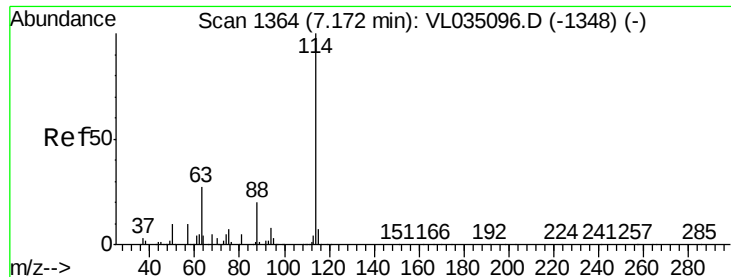
Ion 61.10 (60.80 to 61.80): VL0



Abundance Ion 97.00 (96.70 to 97.70): VL0

Ion 99.00 (98.70 to 99.70): VL0

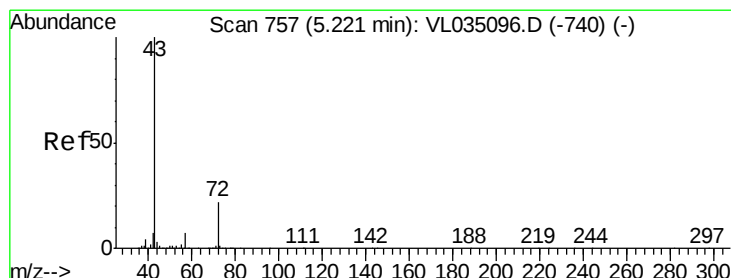
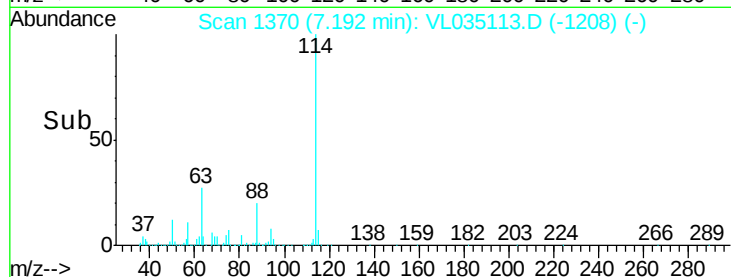
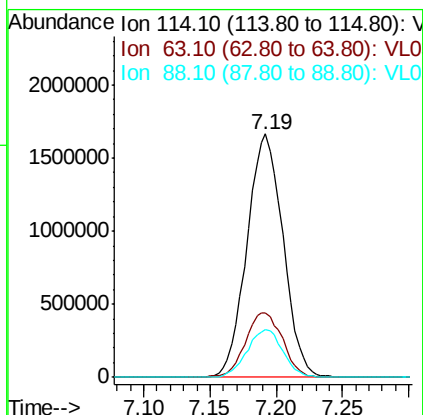
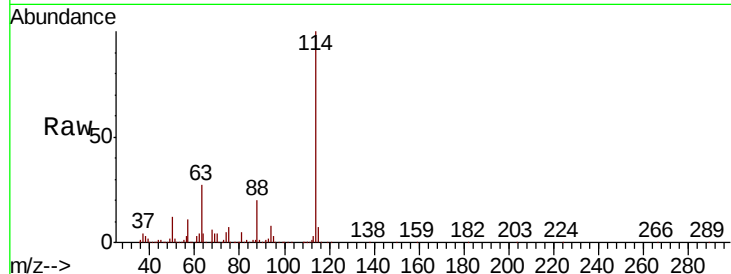
Ion 61.10 (60.80 to 61.80): VL0



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

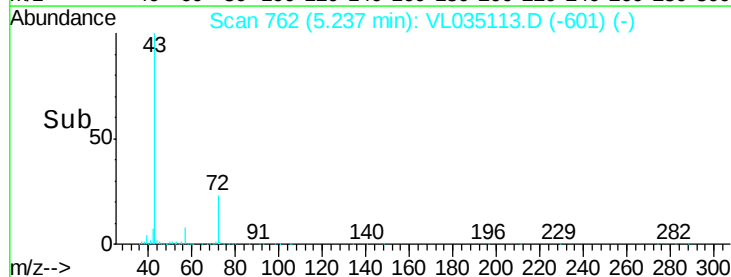
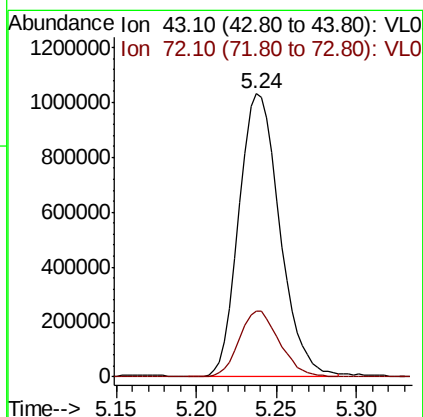
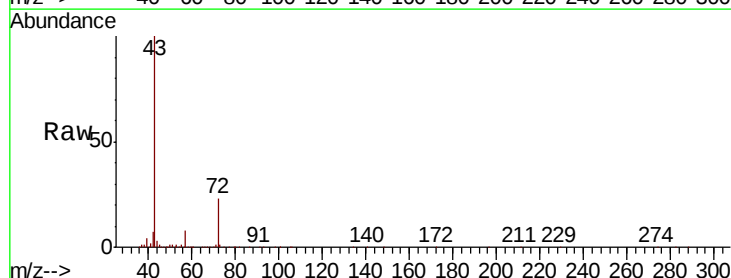
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0622ABS01DUP

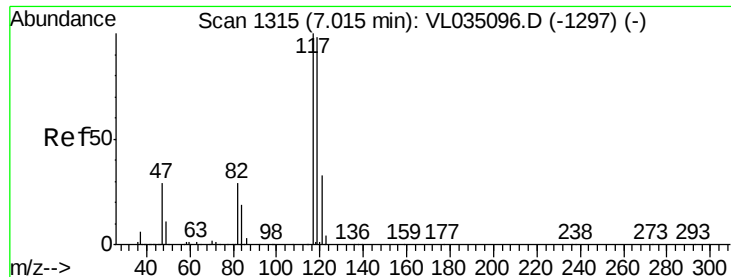
Tot Ion:114 Resp: 3157165
 Ion Ratio Lower Upper
 114 100
 63 27.6 21.9 32.9
 88 19.5 15.6 23.4



#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: 43 Resp: 1795437
 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 :

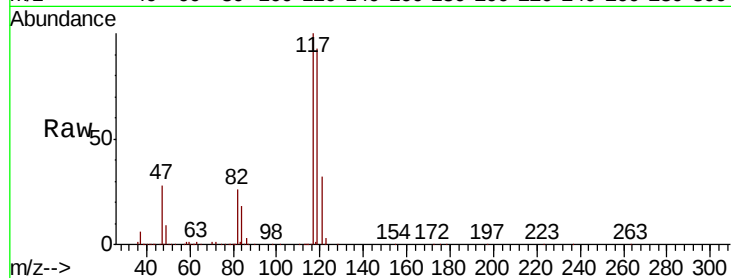
MSVOA_L

ClientSampleId :

VL0622ABS01DUP

Tot Ion:117 Resp: 1882110

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

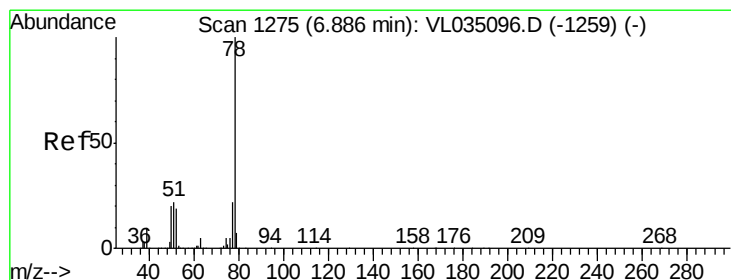
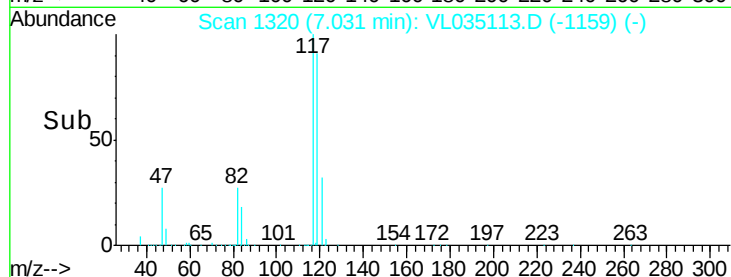
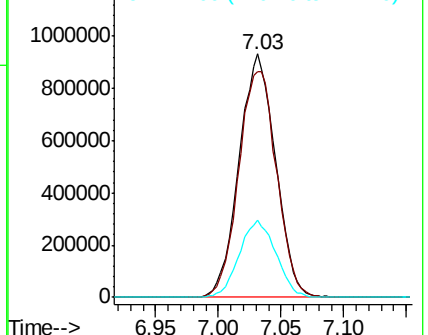


Abundance

Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 10.086 ppbv

RT: 6.90 min Scan# 1280

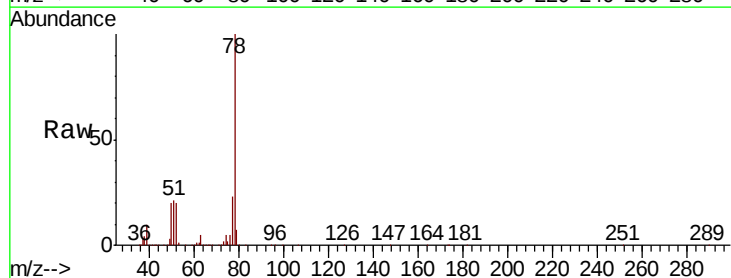
Delta R.T. 0.02 min

Lab File: VL035113.D

Acq: 22 Jun 2020 16:33

Tgt Ion: 78 Resp: 2465844

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

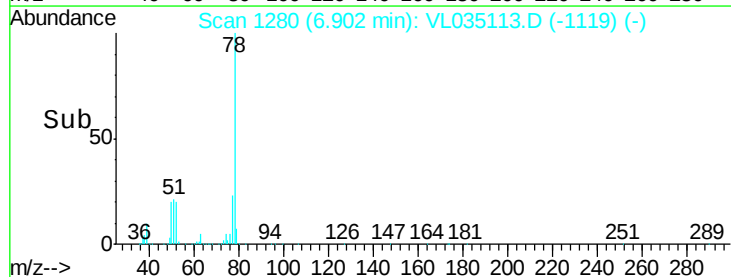
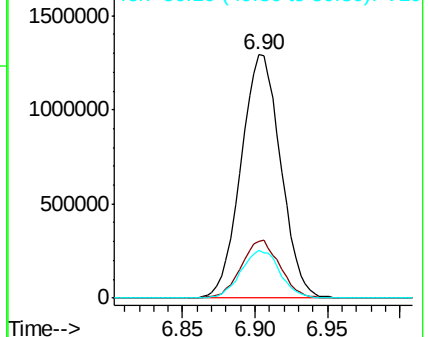


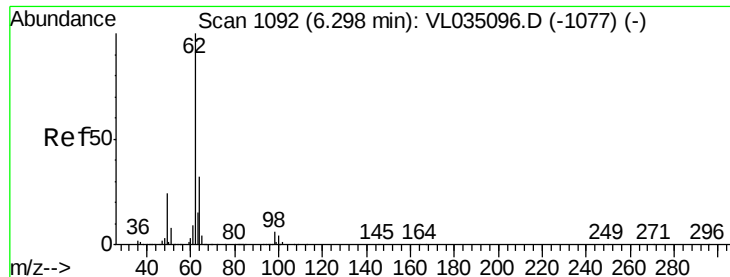
Abundance

Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0

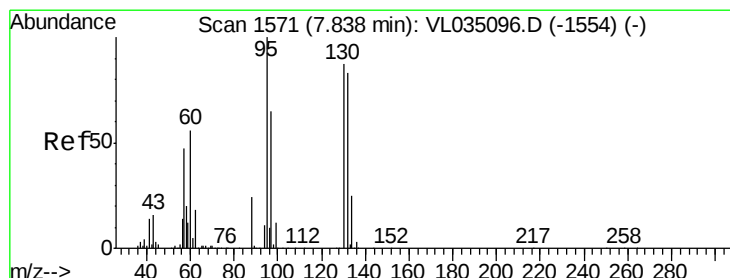
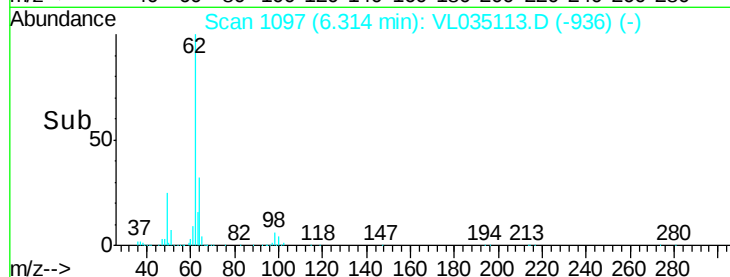
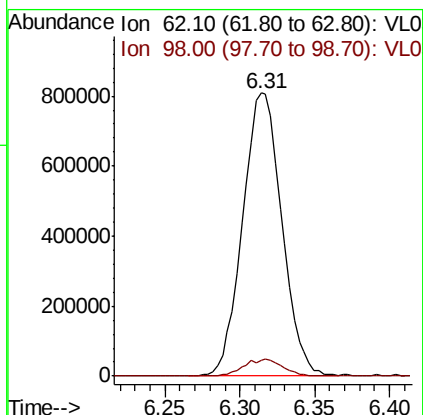
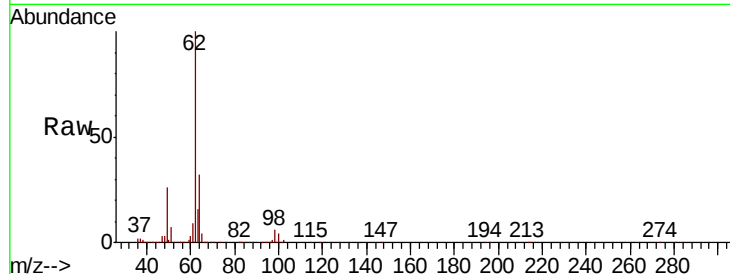




#37
 1,2-Dichloroethane
 Concen: 9.557 ppbv
 RT: 6.31 min Scan# 1097
 Delta R.T. 0.02 min
 Lab File: VL035113.D
 Acq: 22 Jun 2020 16:33

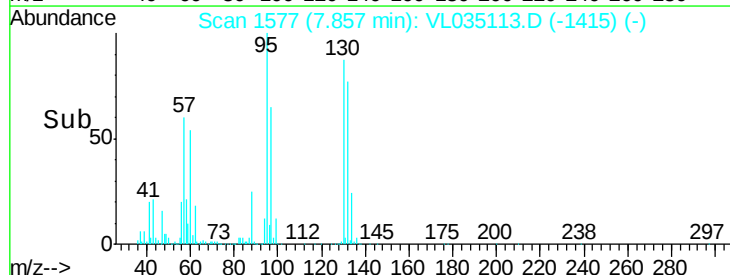
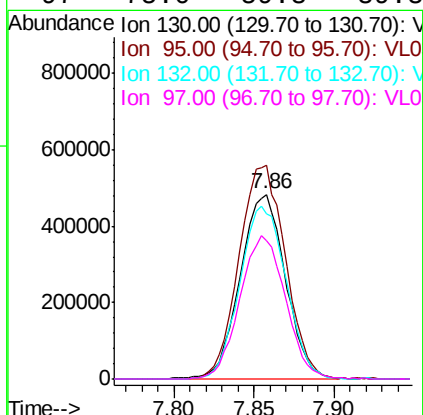
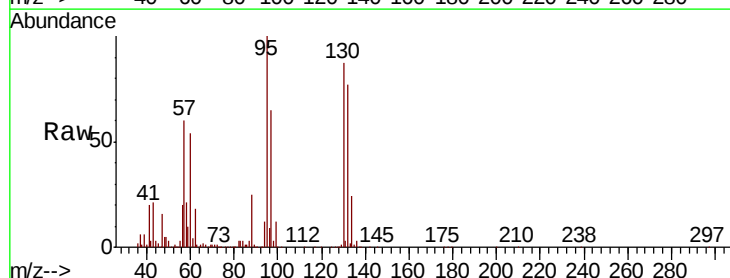
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0622ABS01DUP

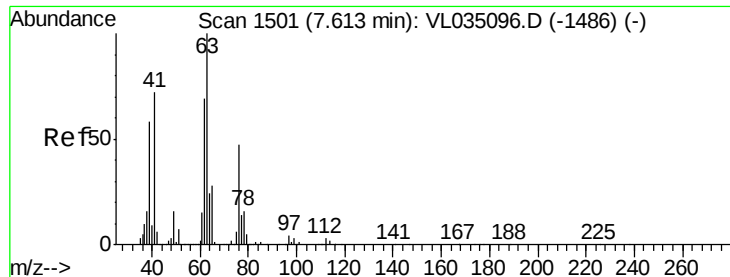
Tot Ion: 62 Resp: 1476689
 Ion Ratio Lower Upper
 62 100
 98 6.1 4.8 7.2



#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

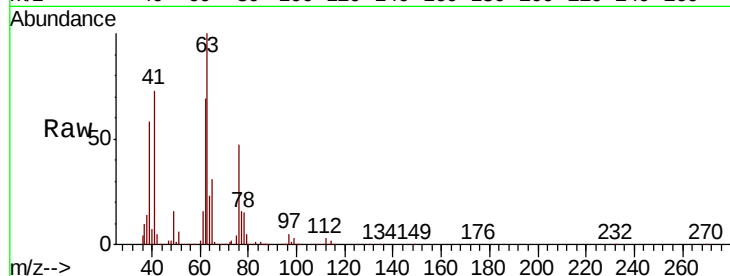
Tot Ion: 63 Resp: 972173

Ion Ratio Lower Upper

63 100

41 73.3 58.0 87.0

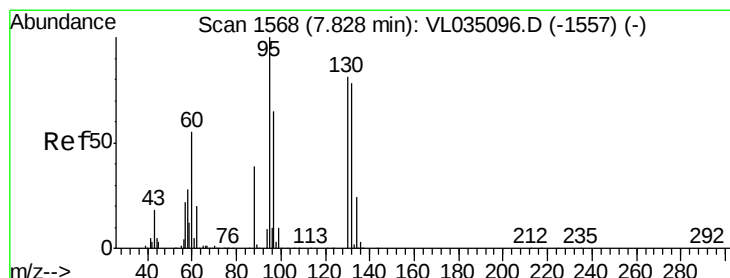
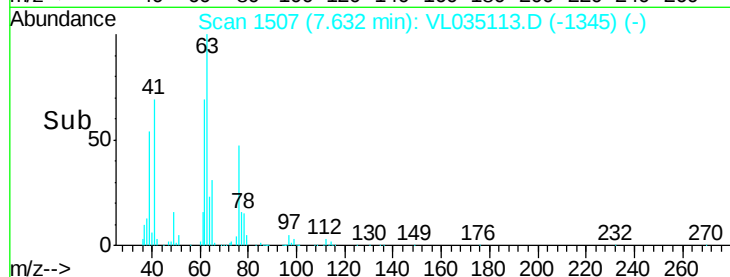
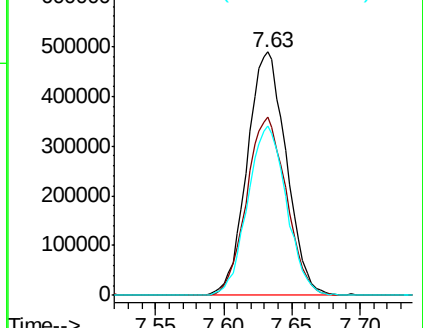
62 69.4 55.4 83.0



Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0



#40

1,4-Dioxane

Concen: 5.248 ppbv

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: 197931

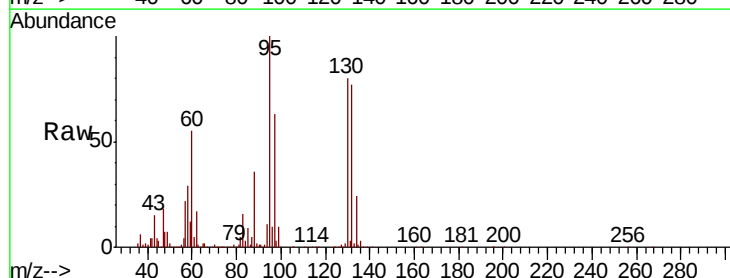
Ion Ratio Lower Upper

88 100

58 0.0 110.2 165.4#

43 0.0 0.0 0.0

57 0.0 0.0 0.0

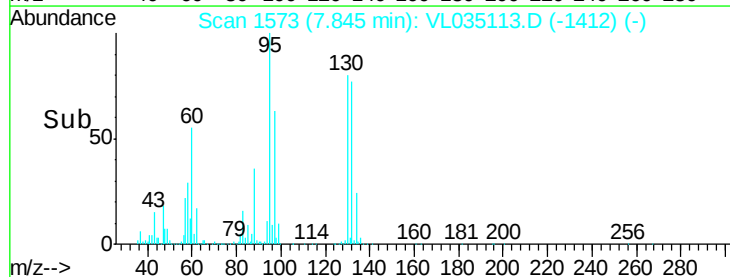
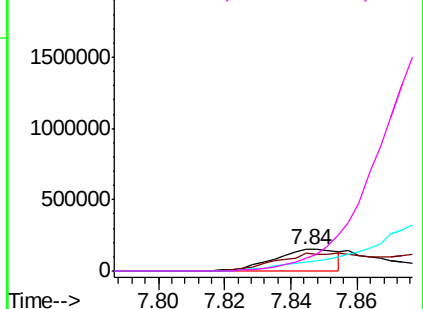


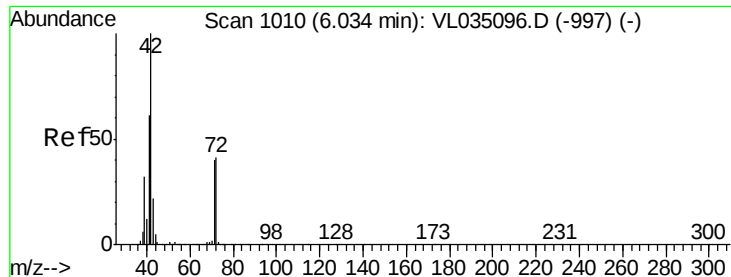
Abundance Ion 88.10 (87.80 to 88.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#41

Tetrahydrofuran

Concen: 11.055 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

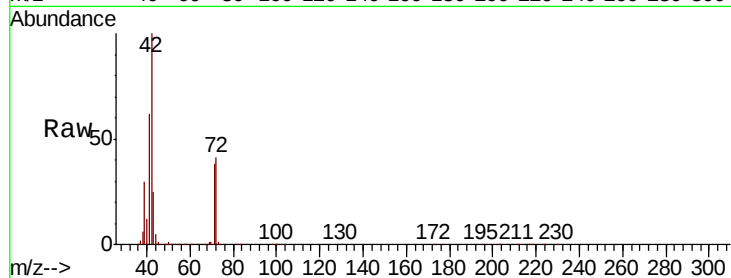
Tot Ion: 42 Resp: 1023698

Ion Ratio Lower Upper

42 100

72 40.2 33.4 50.2

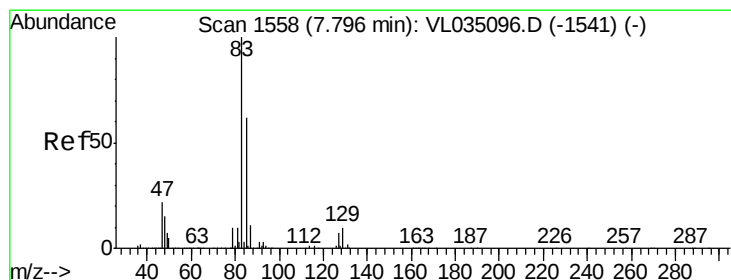
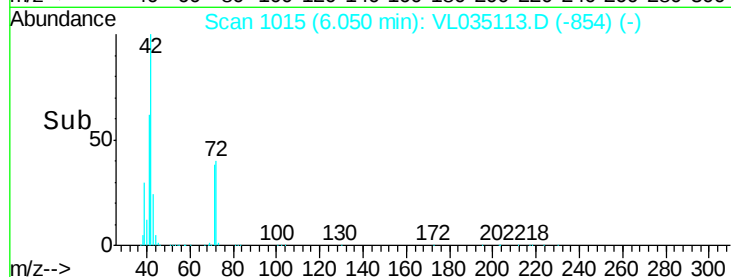
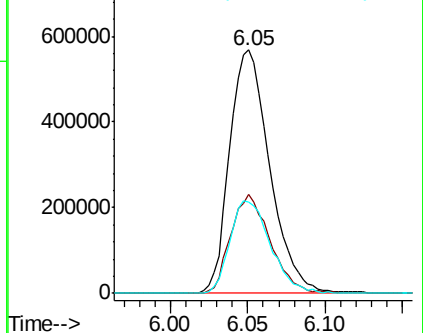
71 38.3 31.8 47.6



Abundance Ion 42.10 (41.80 to 42.80): VL0

Ion 72.10 (71.80 to 72.80): VL0

Ion 71.10 (70.80 to 71.80): VL0



#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

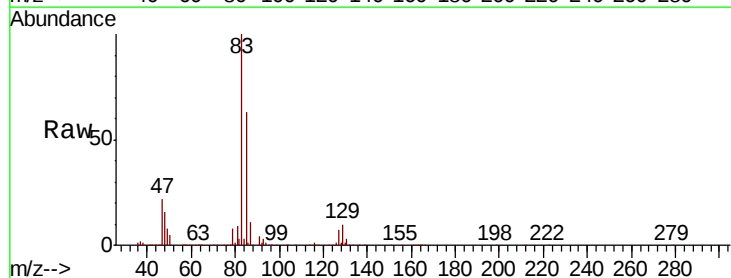
Tgt Ion: 83 Resp: 2069889

Ion Ratio Lower Upper

83 100

85 62.9 49.4 74.0

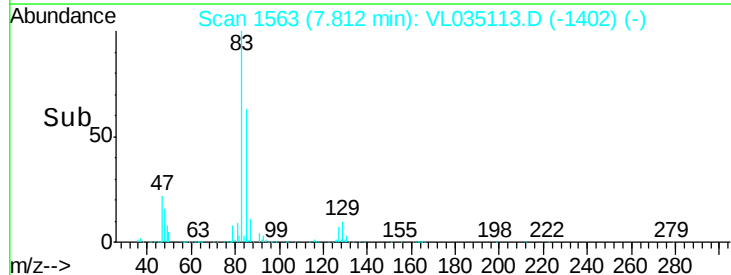
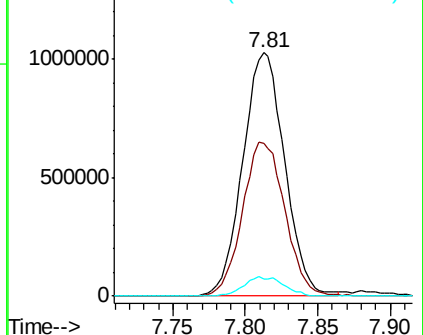
127 7.0 5.9 8.9

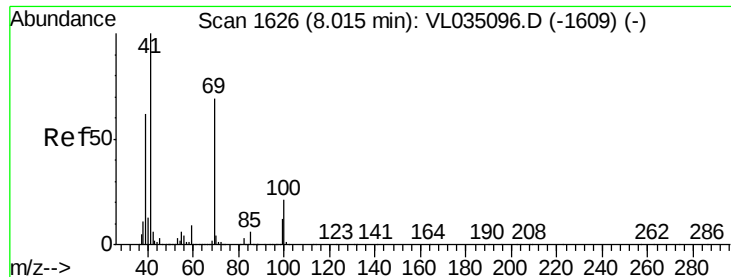


Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 126.90 (126.60 to 127.60): V

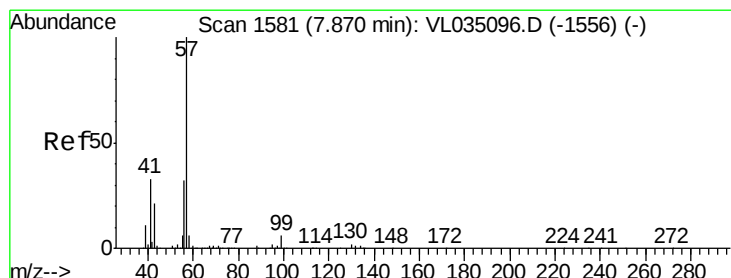
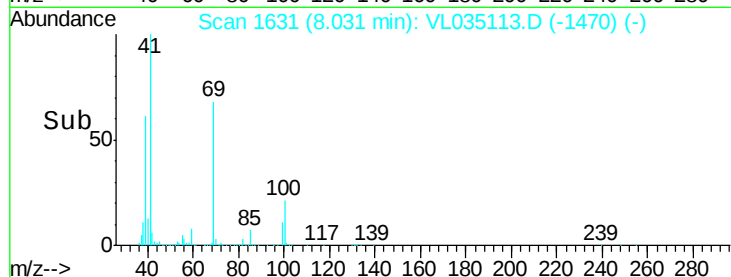
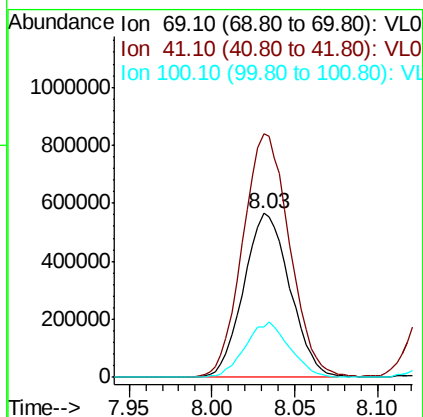
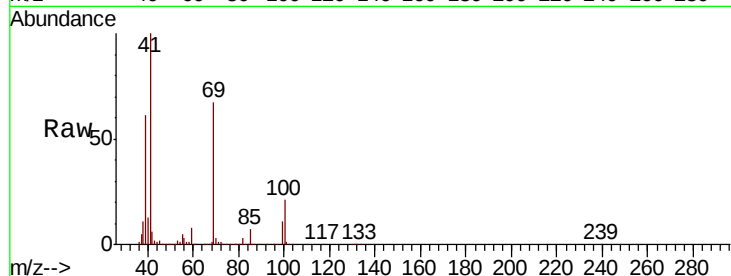




#43
Methvl Methacrilate
Concen: 10.581 ppbv
RT: 8.03 min Scan# 1631
Delta R.T. 0.02 min
Lab File: VL035113.D
Acq: 22 Jun 2020 16:33

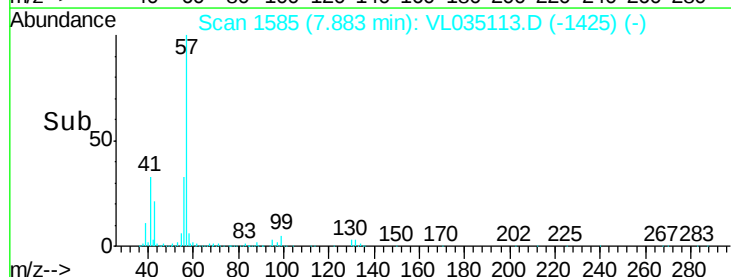
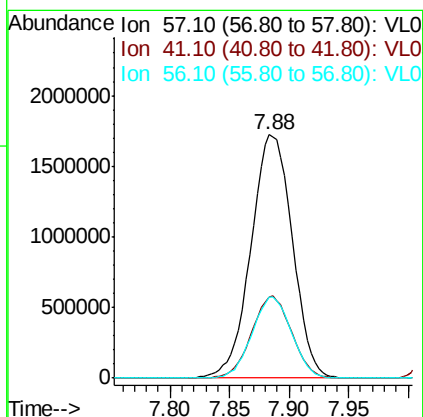
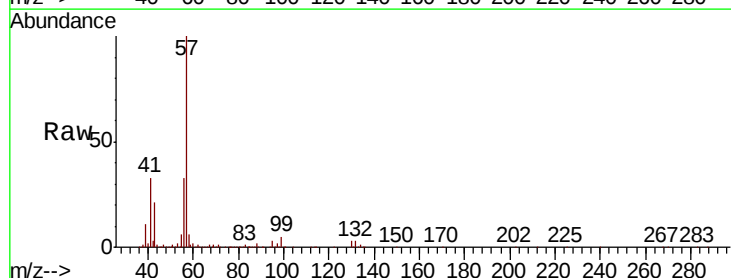
Instrument :
MSVOA_L
ClientSampleId :
VL0622ABS01DUP

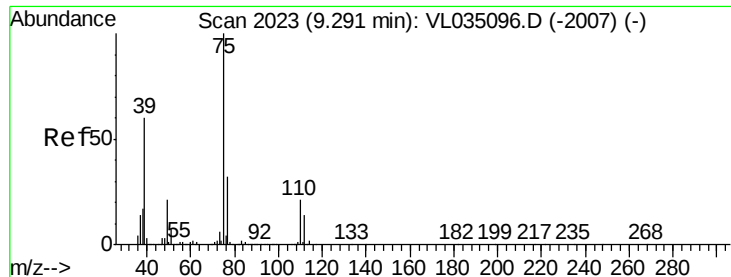
Tot Ion: 69 Resp: 1094895
Ion Ratio Lower Upper
69 100
41 150.4 116.4 174.6
100 32.4 25.3 37.9



#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 :

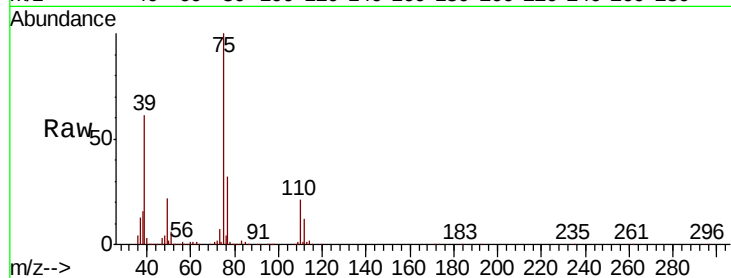
VL0622ABS01DUP

Tot Ion: 75 Resp: 1283249

Ion Ratio Lower Upper

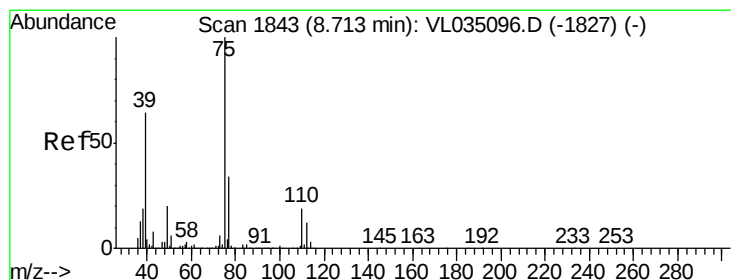
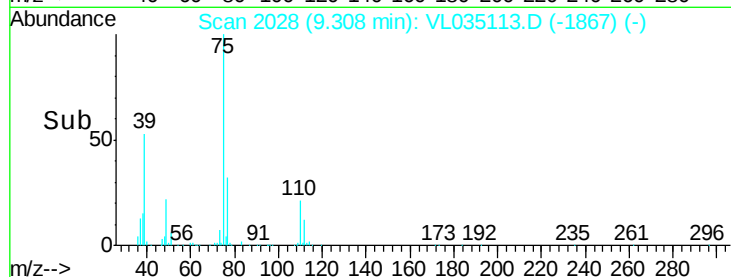
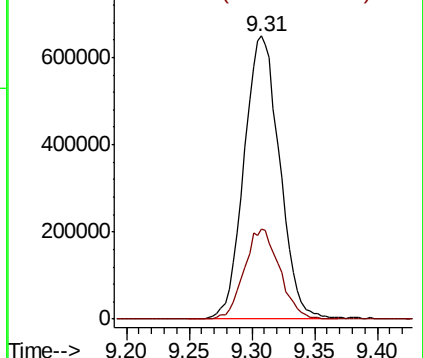
75 100

77 31.9 25.5 38.3



Abundance Ion 75.10 (74.80 to 75.80): VL0

Ion 77.10 (76.80 to 77.80): VL0



#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

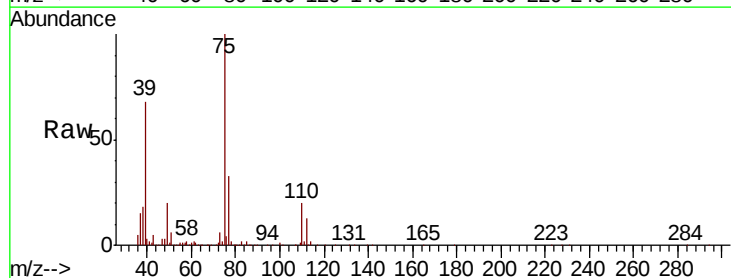
Tgt Ion: 75 Resp: 1488347

Ion Ratio Lower Upper

75 100

39 68.1 51.1 76.7

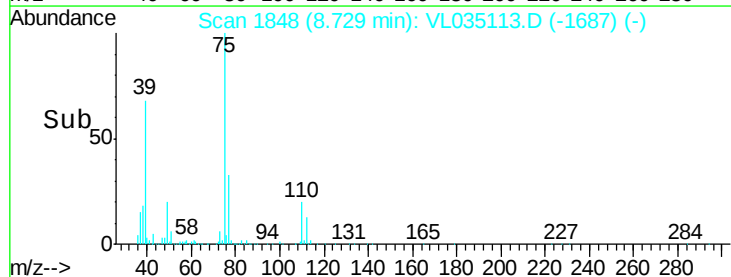
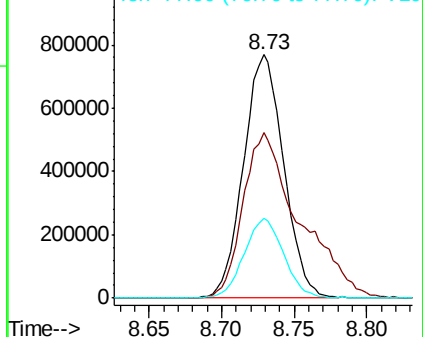
77 32.6 26.9 40.3

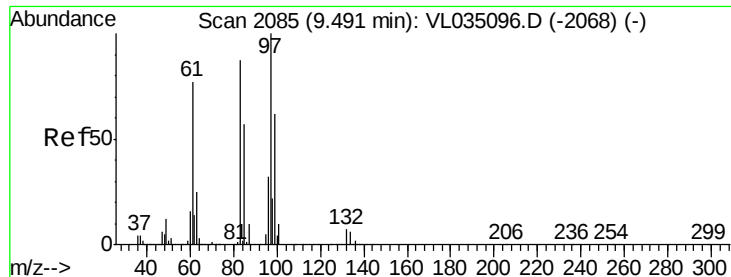


Abundance Ion 75.00 (74.70 to 75.70): VL0

Ion 39.00 (38.70 to 39.70): VL0

Ion 77.00 (76.70 to 77.70): VL0





#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

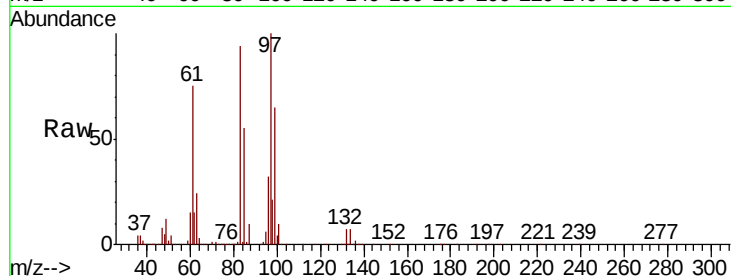
Ion	Ratio	Lower	Upper
97	100		
83	93.3	69.5	104.3
85	55.0	46.0	69.0
99	64.9	49.6	74.4

97 100

83 93.3 69.5 104.3

85 55.0 46.0 69.0

99 64.9 49.6 74.4

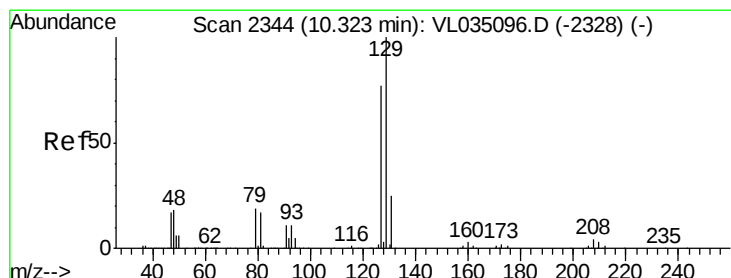
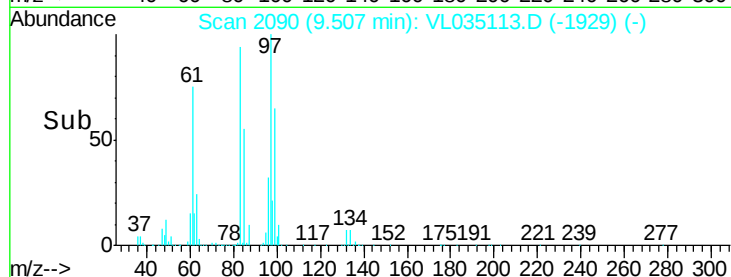
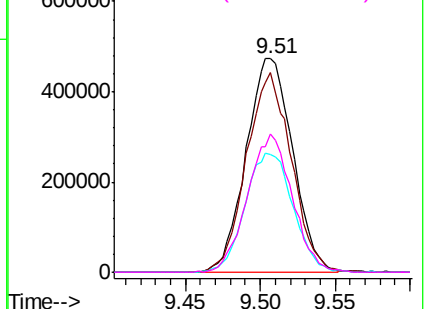


Abundance Ion 97.00 (96.70 to 97.70): VL0

Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 99.00 (98.70 to 99.70): VL0



#48

Dibromochloromethane

Concen: 11.098 ppbv

RT: 10.34 min Scan# 2349

Delta R.T. 0.02 min

Lab File: VL035113.D

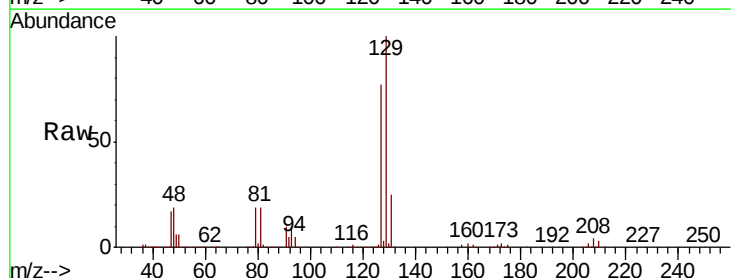
Acq: 22 Jun 2020 16:33

Tgt Ion: 129 Resp: 1726637

Ion	Ratio	Lower	Upper
129	100		
127	77.5	39.3	117.8

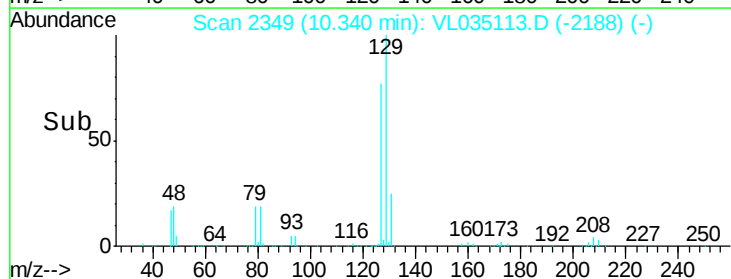
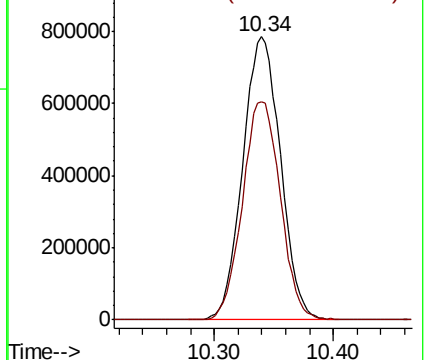
129 100

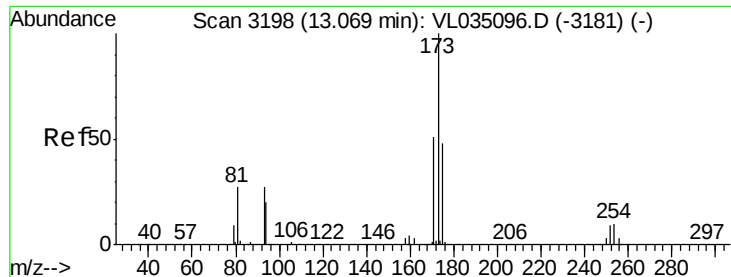
127 77.5 39.3 117.8



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





#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

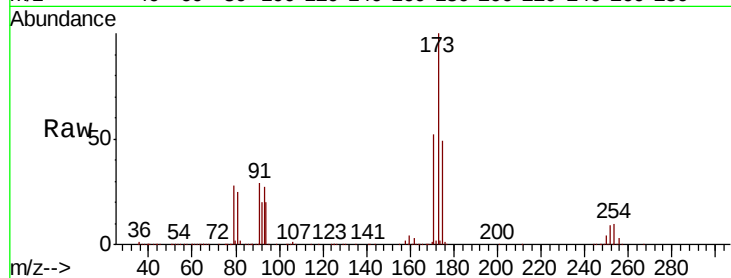
Tot Ion:173 Resp: 1478988

Ion Ratio Lower Upper

173 100

175 49.6 39.1 58.7

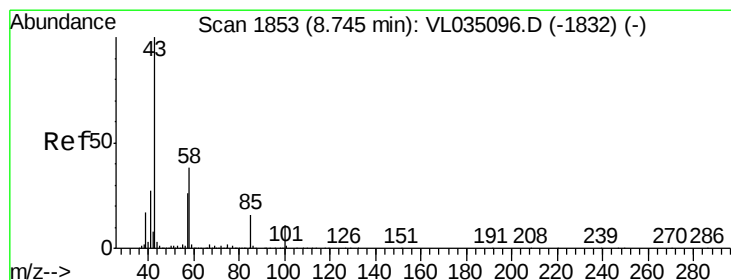
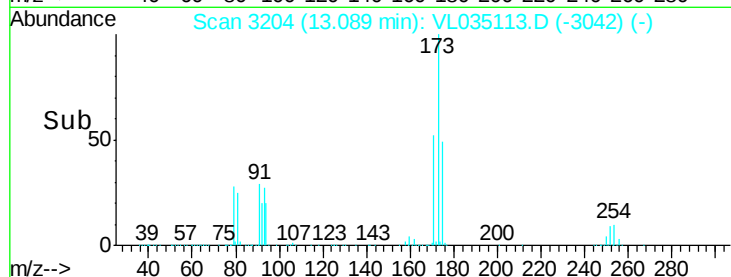
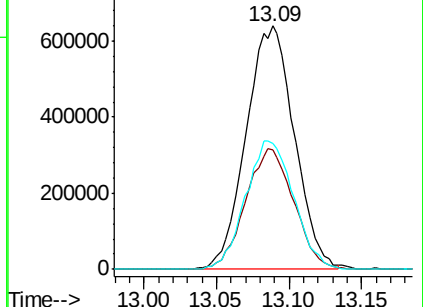
171 52.8 41.7 62.5



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

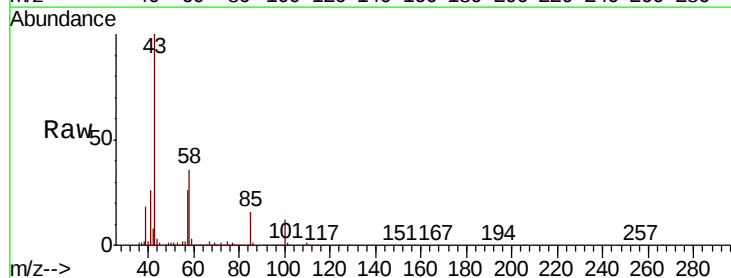
Acq: 22 Jun 2020 16:33

Tgt Ion: 43 Resp: 2651014

Ion Ratio Lower Upper

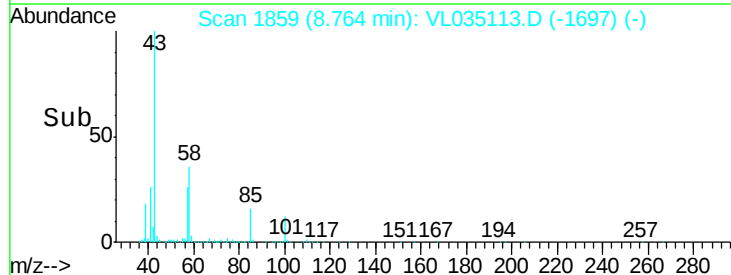
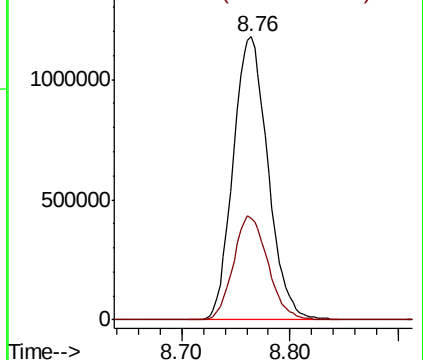
43 100

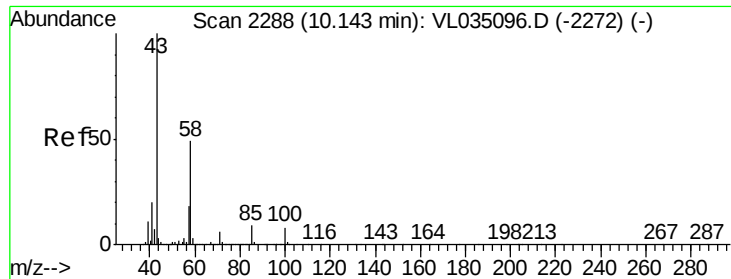
58 36.3 29.4 44.0



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

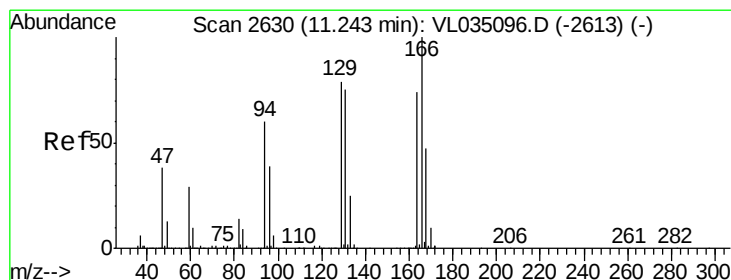
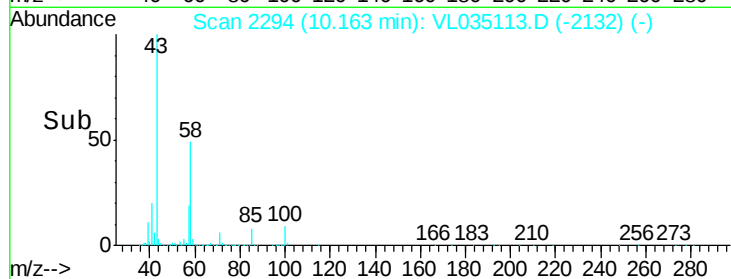
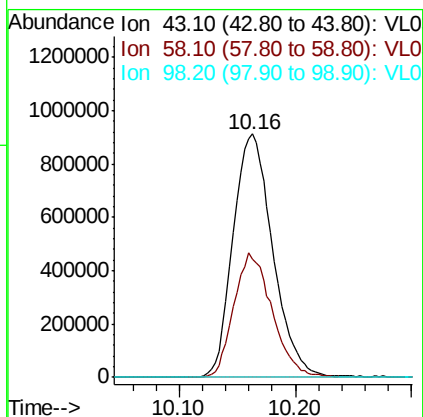
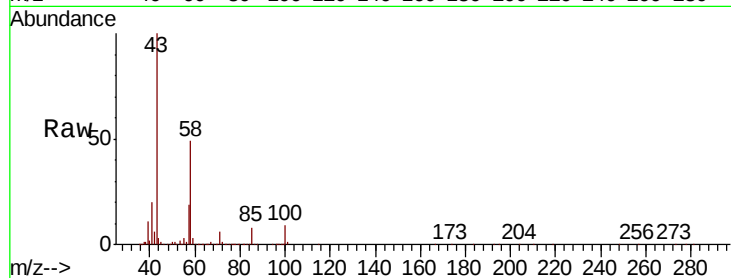




#51
2-Hexanone
Concen: 10.712 ppbv
RT: 10.16 min Scan# 2294
Delta R.T. 0.02 min
Lab File: VL035113.D
Acq: 22 Jun 2020 16:33

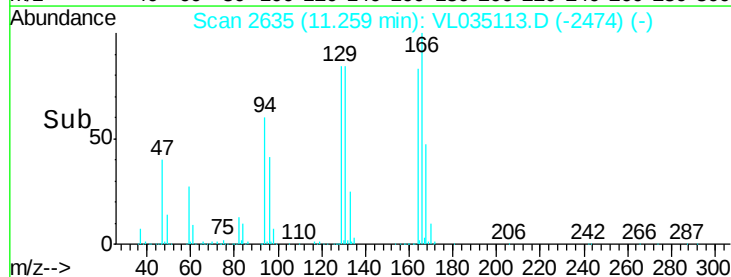
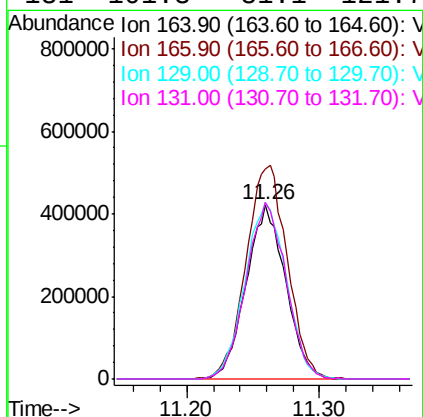
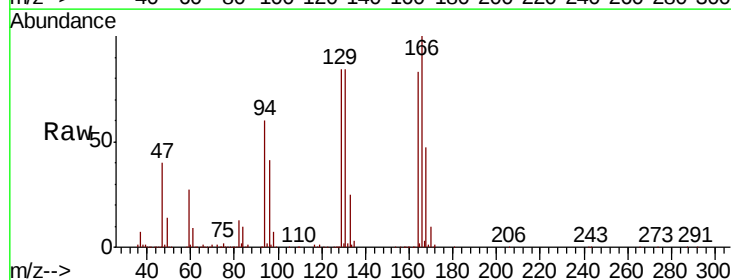
Instrument :
MSVOA_L
ClientSampleId :
VL0622ABS01DUP

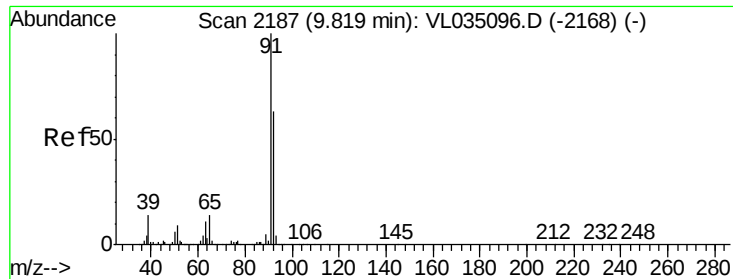
Tot Ion: 43 Resp: 2161095
Ion Ratio Lower Upper
43 100
58 49.4 39.2 58.8
98 0.2 0.3 0.5#



#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 :

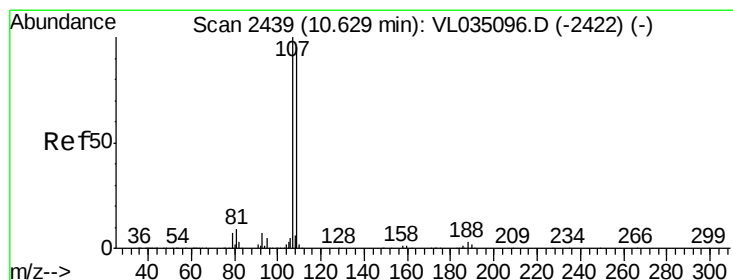
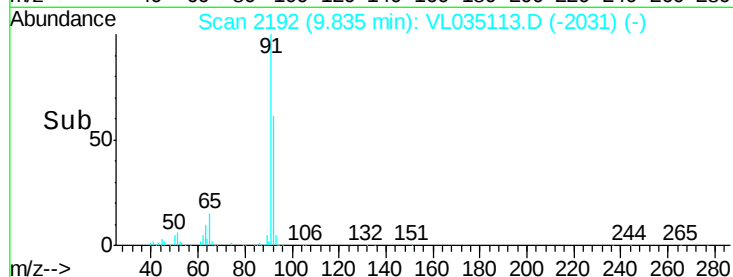
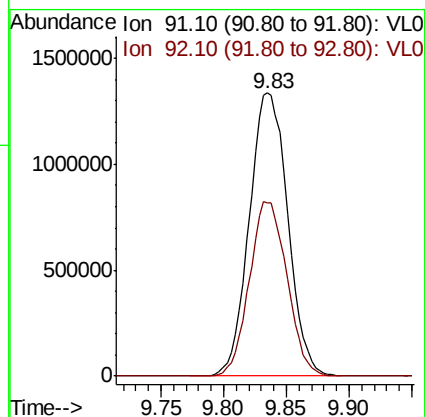
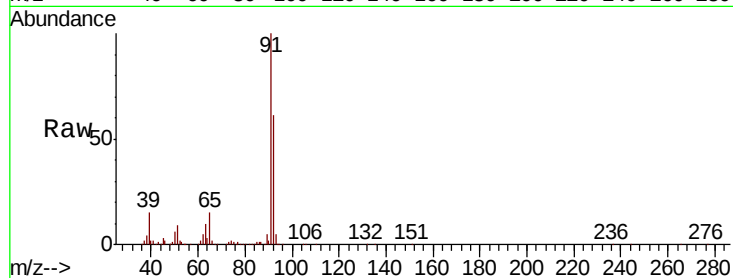
VL0622ABS01DUP

Tot Ion: 91 Resp: 2851268

Ion Ratio Lower Upper

91 100

92 60.5 49.0 73.6



#54

1,2-Dibromoethane

Concen: 10.017 ppbv

RT: 10.65 min Scan# 2444

Delta R.T. 0.02 min

Lab File: VL035113.D

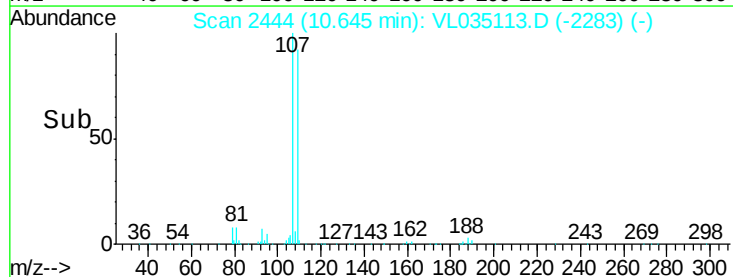
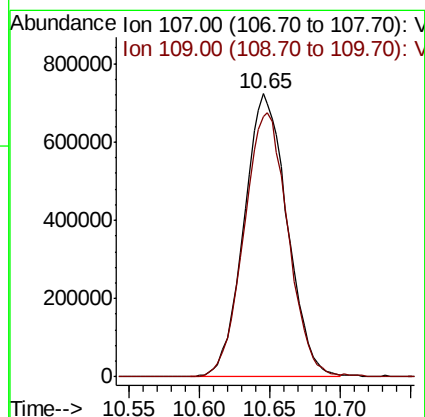
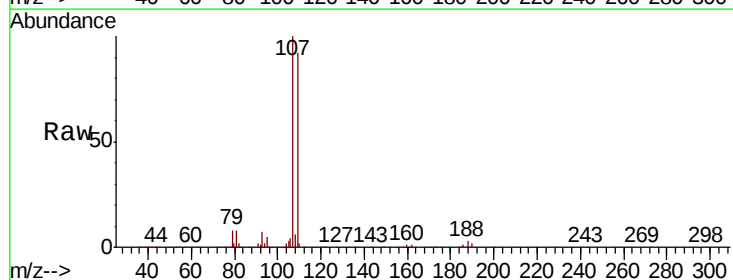
Acq: 22 Jun 2020 16:33

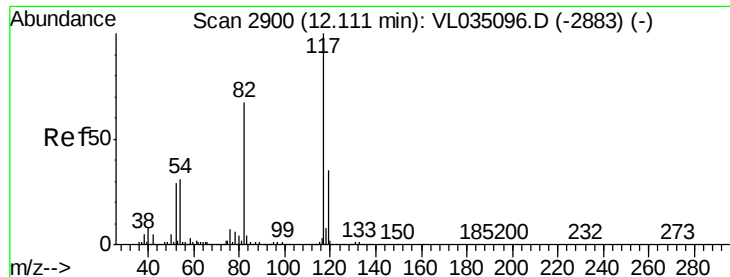
Tgt Ion: 107 Resp: 1547766

Ion Ratio Lower Upper

107 100

109 92.2 75.9 113.9

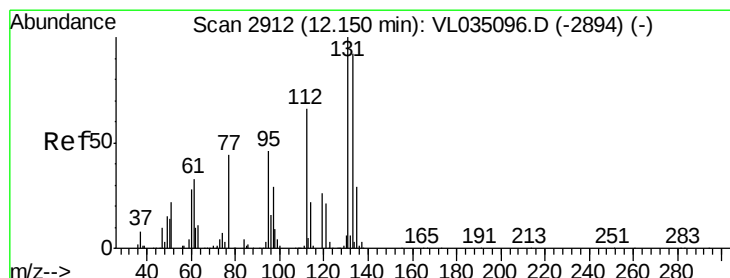
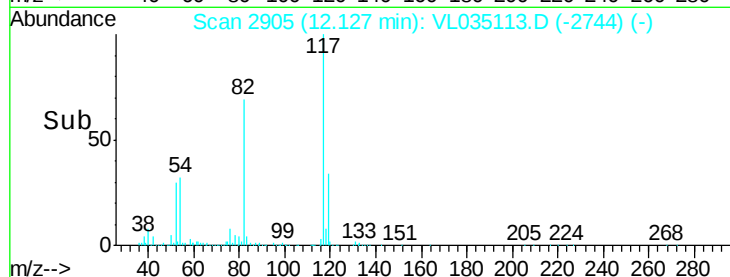
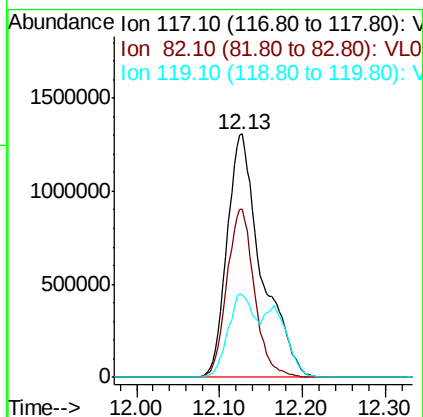
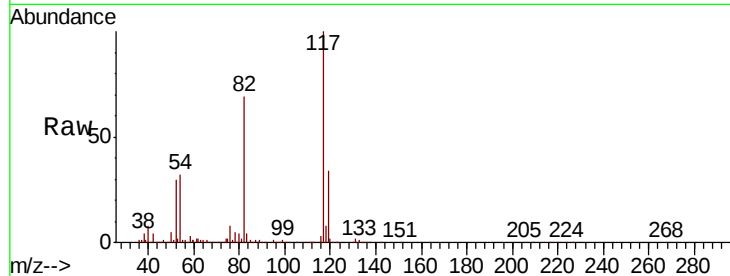




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.13 min Scan# 2905
Delta R.T. 0.02 min
Lab File: VL035113.D
Acq: 22 Jun 2020 16:33

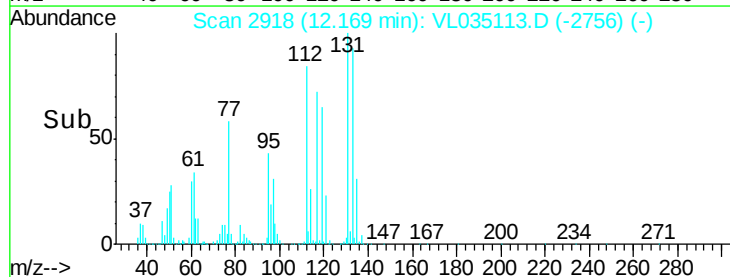
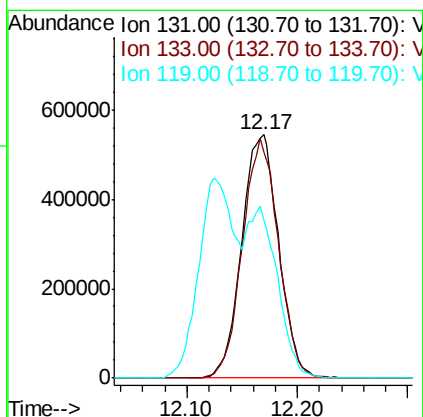
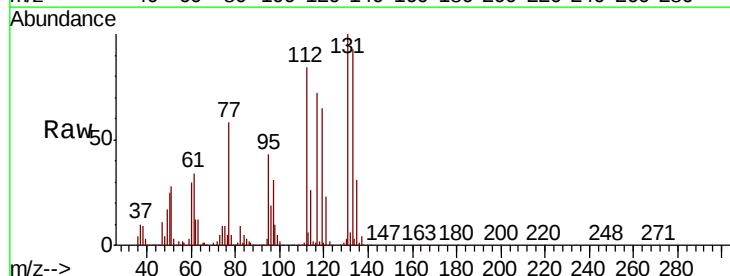
Instrument :
MSVOA_L
ClientSampleId :
VL0622ABS01DUP

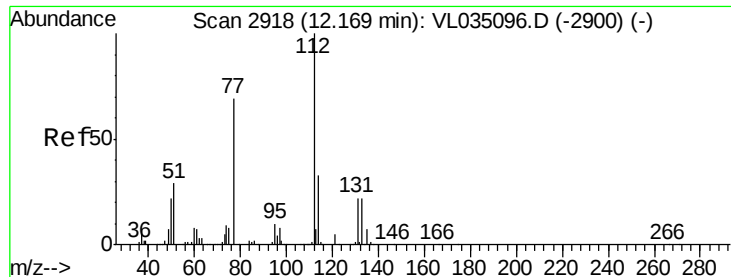
Tot Ion:117 Resp: 3774443
Ion Ratio Lower Upper
117 100
82 55.6 50.4 75.6
119 47.3 25.4 38.0#



#56
1,1,1,2-Tetrachloroethane
Concen: 8.190 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:131 Resp: 1265105
Ion Ratio Lower Upper
131 100
133 95.7 76.2 114.4
119 63.4 114.6 172.0#

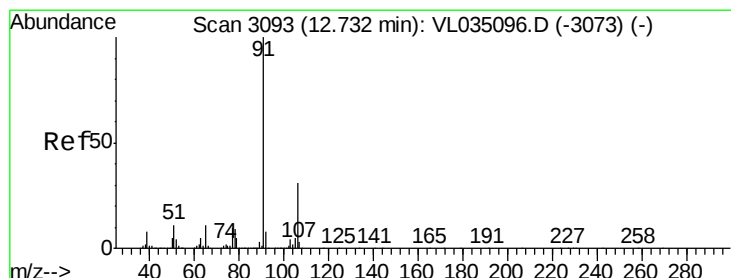
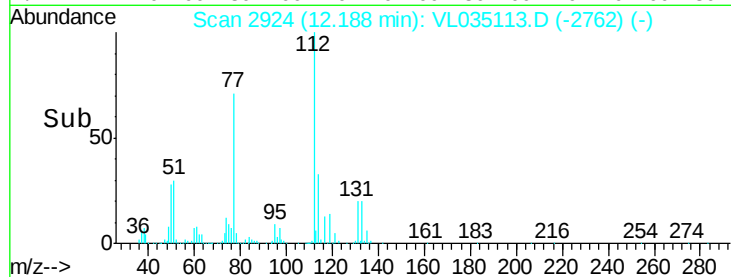
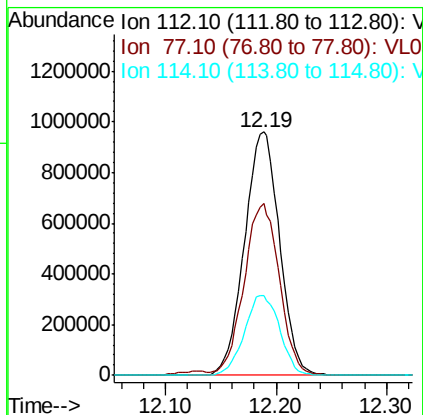
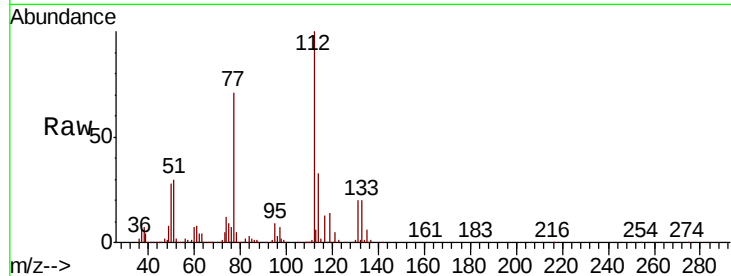




#57
Chlorobenzene
Concen: 7.626 ppbv
RT: 12.19 min Scan# 2924
Delta R.T. 0.02 min
Lab File: VL035113.D
Acq: 22 Jun 2020 16:33

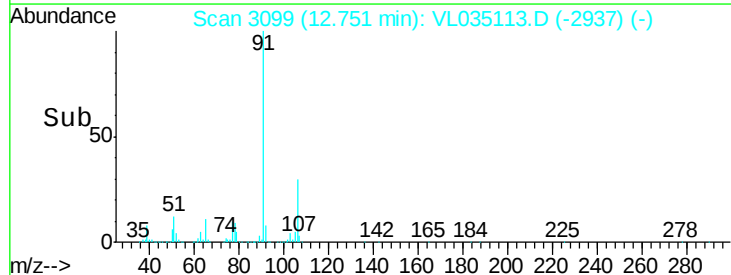
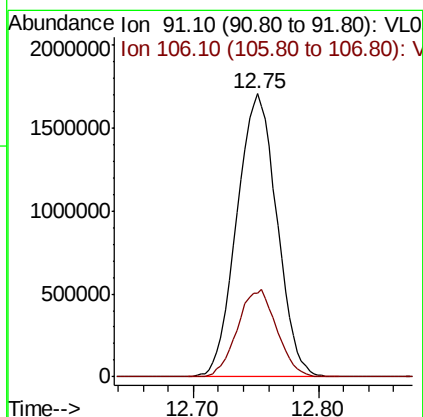
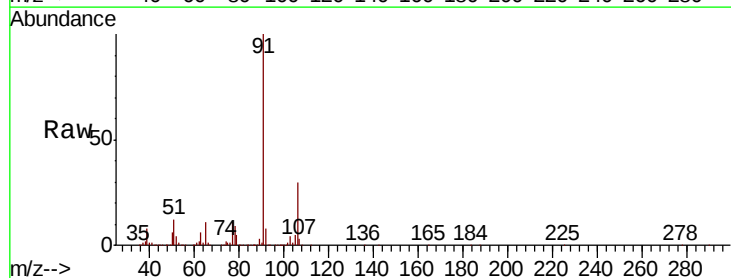
Instrument :
MSVOA_L
ClientSampleId :
VL0622ABS01DUP

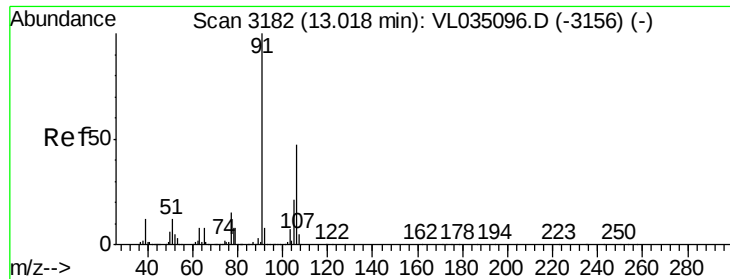
Tot Ion:112 Resp: 2117915
Ion Ratio Lower Upper
112 100
77 70.4 56.7 85.1
114 32.4 29.3 35.9



#58
Ethyl Benzene
Concen: 8.920 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: 91 Resp: 3782789
Ion Ratio Lower Upper
91 100
106 29.6 25.0 37.6





#59

m/p-Xylene

Concen: 8.613 ppbv

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 :

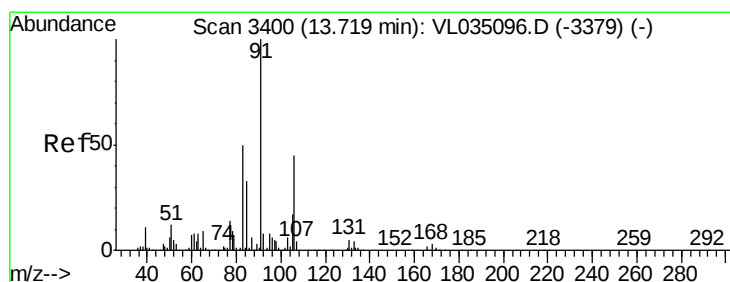
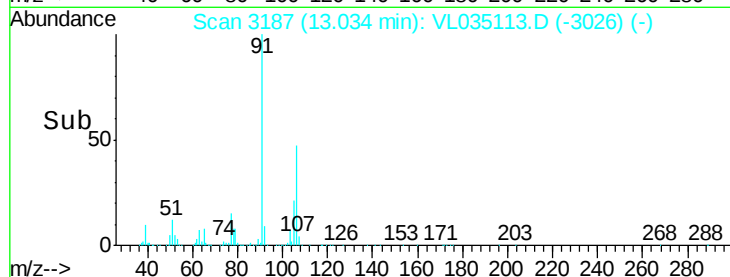
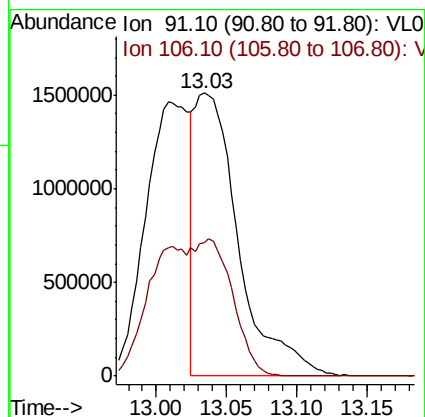
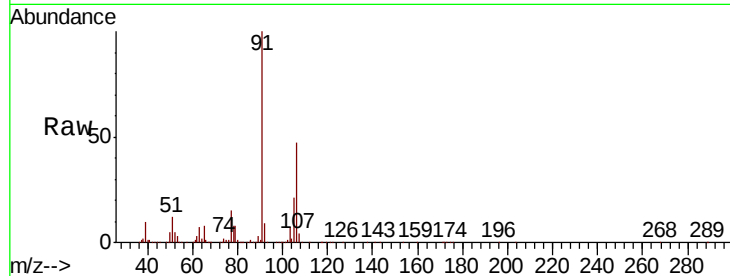
VL0622ABS01DUP

Tot Ion: 91 Resp: 3236912

Ion Ratio Lower Upper

91 100

106 88.1 36.5 54.7#



#60

o-Xylene

Concen: 8.121 ppbv

RT: 13.73 min Scan# 3405

Delta R.T. 0.02 min

Lab File: VL035113.D

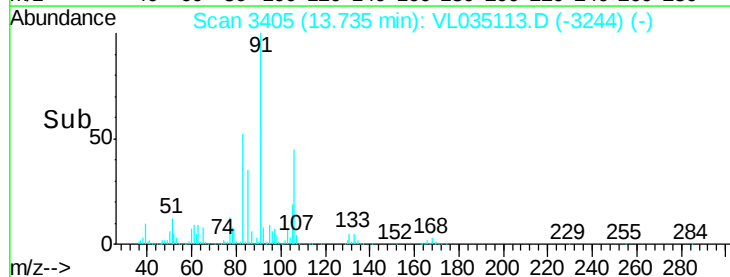
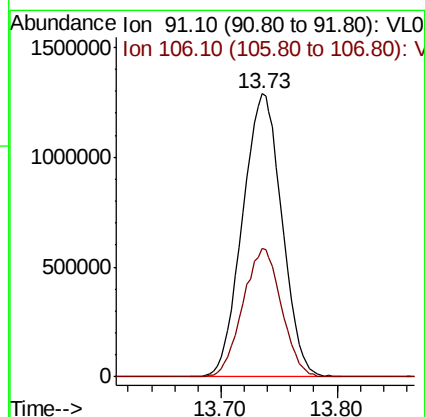
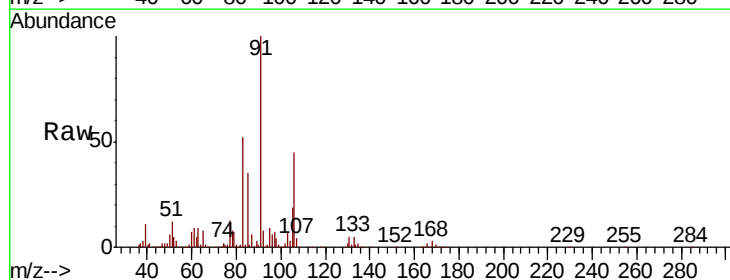
Acq: 22 Jun 2020 16:33

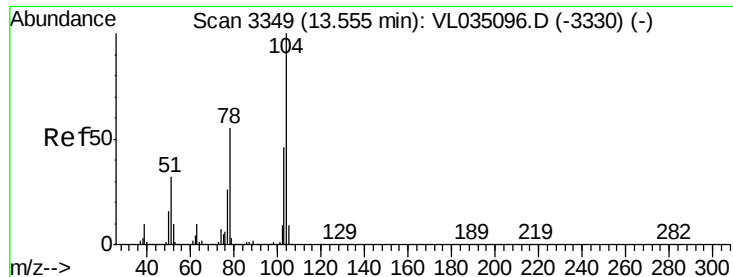
Tgt Ion: 91 Resp: 3038614

Ion Ratio Lower Upper

91 100

106 44.4 22.1 66.5





#61

Stvrene

Concen: 9.451 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

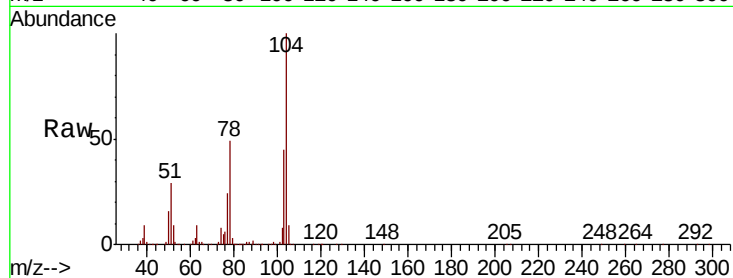
Tot Ion:104 Resp: 2225331

Ion Ratio Lower Upper

104 100

78 54.1 43.4 65.0

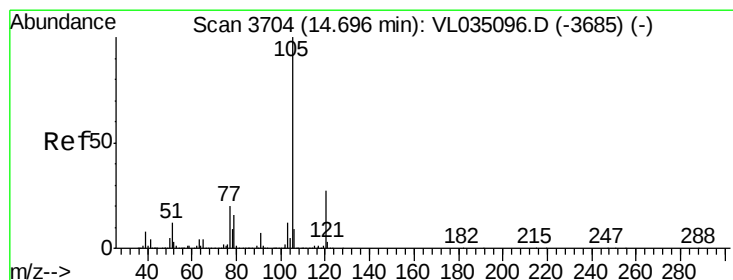
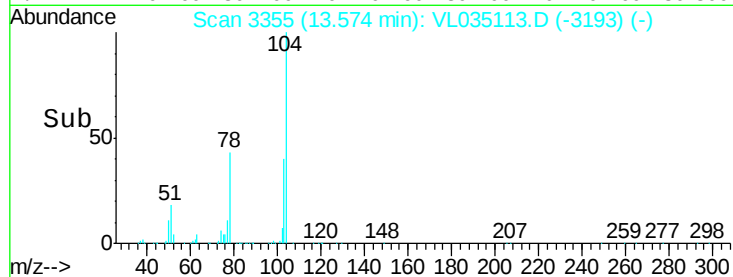
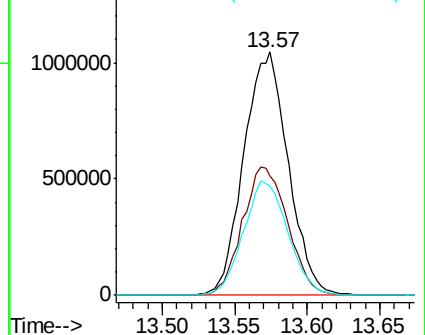
103 47.4 38.3 57.5



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: 8.109 ppbv

RT: 14.72 min Scan# 3710

Delta R.T. 0.02 min

Lab File: VL035113.D

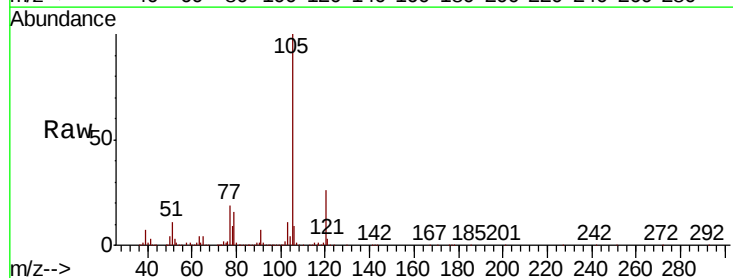
Acq: 22 Jun 2020 16:33

Tgt Ion:105 Resp: 4527579

Ion Ratio Lower Upper

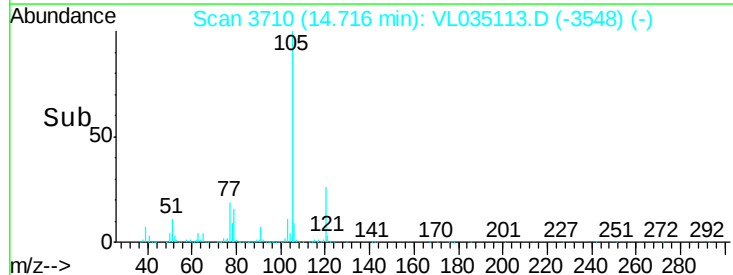
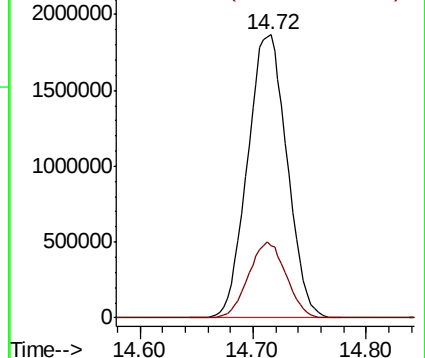
105 100

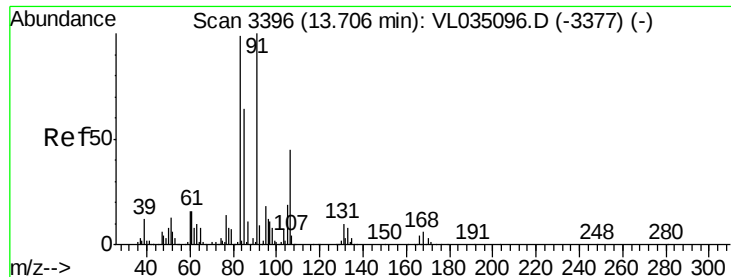
120 25.6 20.8 31.2



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

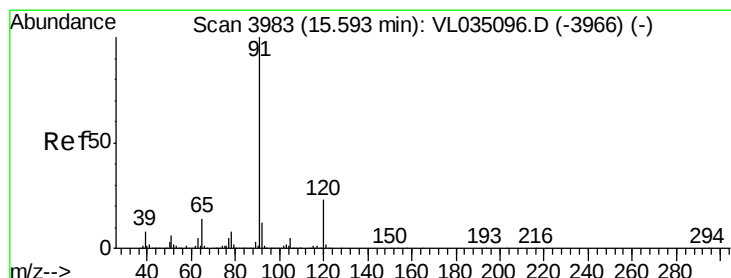
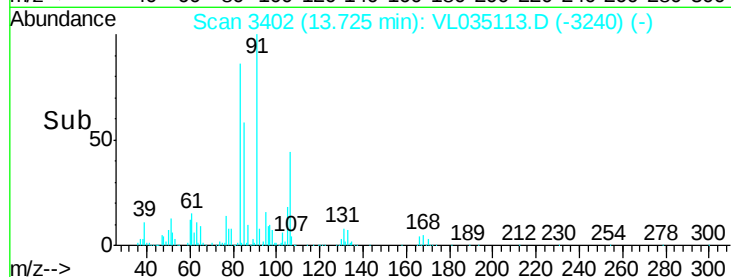
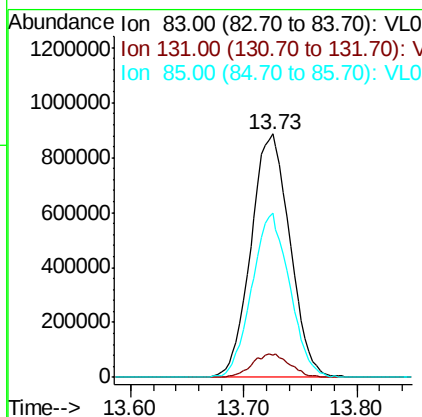
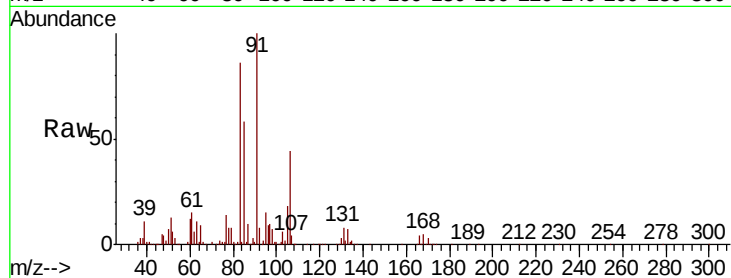




#63
 1,1,2,2-Tetrachloroethane
 Concen: 6.983 ppbv
 RT: 13.73 min Scan# 3402
 Delta R.T. 0.02 min
 Lab File: VL035113.D
 Acq: 22 Jun 2020 16:33

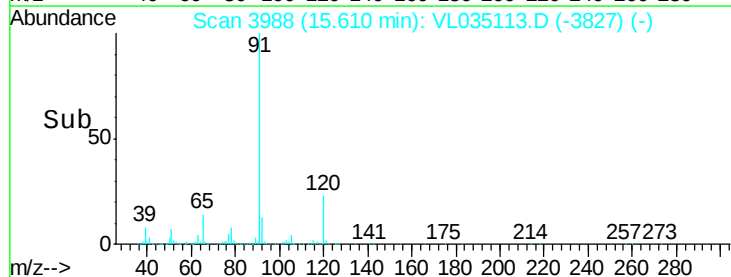
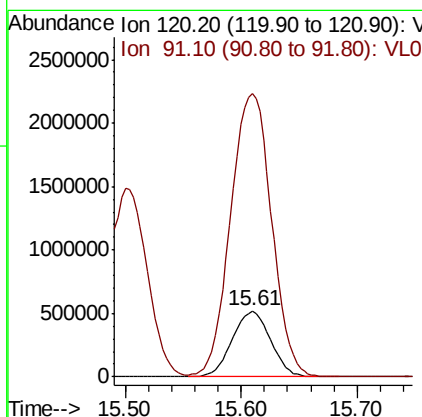
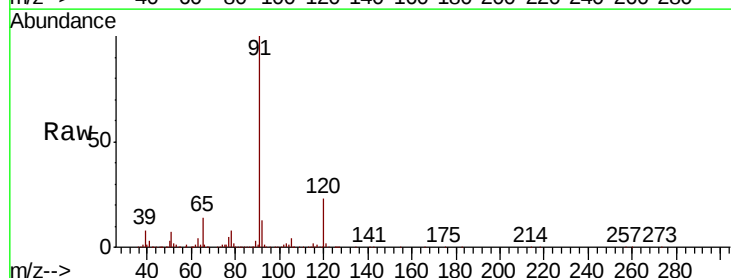
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0622ABS01DUP

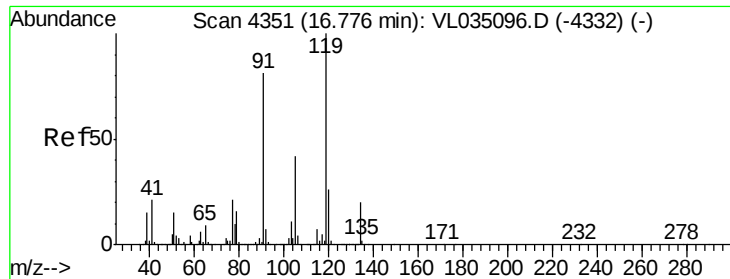
Tot Ion: 83 Resp: 2116323
 Ion Ratio Lower Upper
 83 100
 131 9.4 4.7 14.0
 85 65.5 32.4 97.0



#64
 n-propylbenzene
 Concen: 8.365 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:120 Resp: 1191858
 Ion Ratio Lower Upper
 120 100
 91 461.7 367.9 551.9





#65

tert-Butylbenzene

Concen: 8.042 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

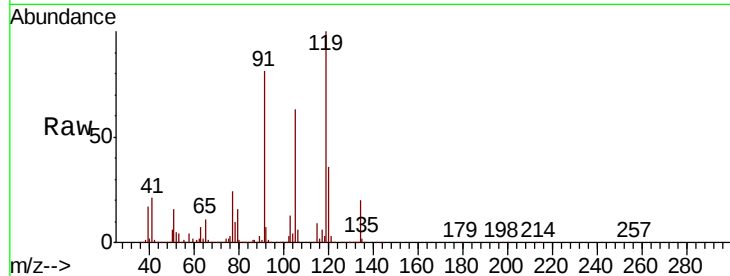
Tot Ion:119 Resp: 3844837

Ion Ratio Lower Upper

119 100

91 84.6 67.6 101.4

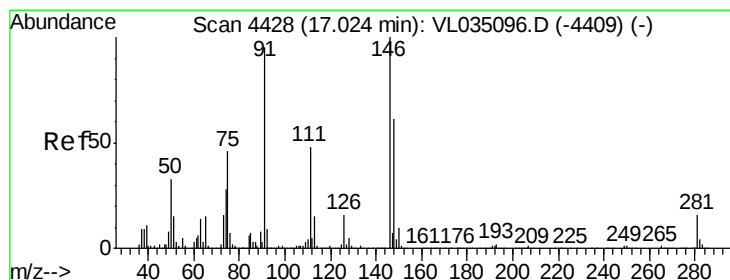
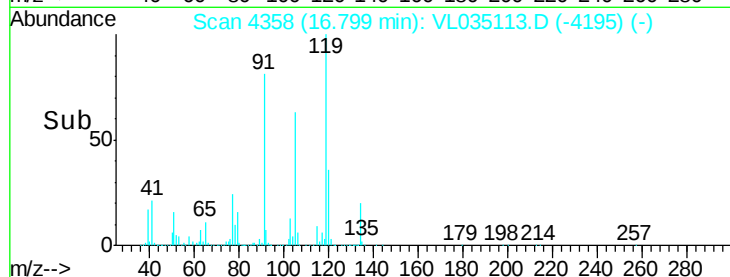
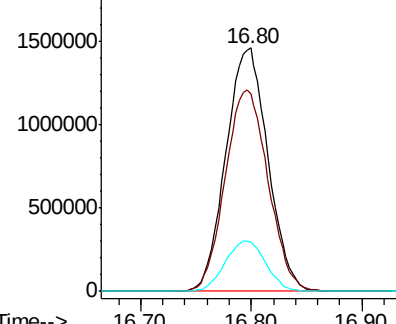
134 20.1 15.7 23.5



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: 11.021 ppbv

RT: 17.04 min Scan# 4434

Delta R.T. 0.02 min

Lab File: VL035113.D

Acq: 22 Jun 2020 16:33

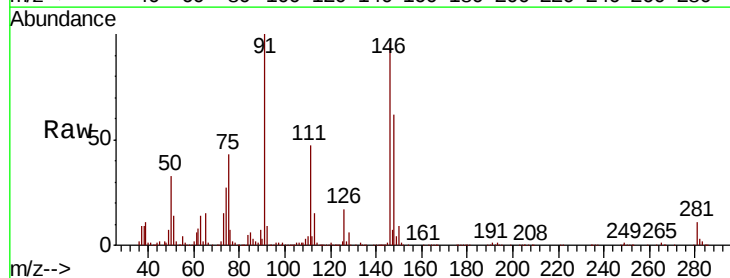
Tgt Ion: 91 Resp: 1627655

Ion Ratio Lower Upper

91 100

126 16.9 13.5 20.3

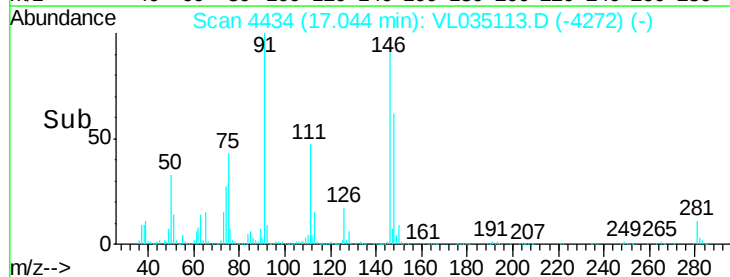
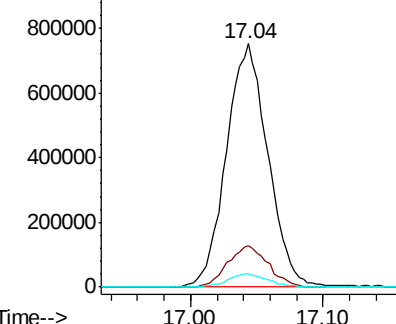
128 5.4 4.3 6.5

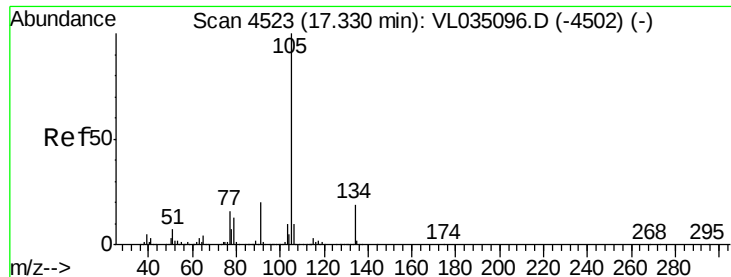


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V





#67

sec-Butylbenzene

Concen: 7.987 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 :

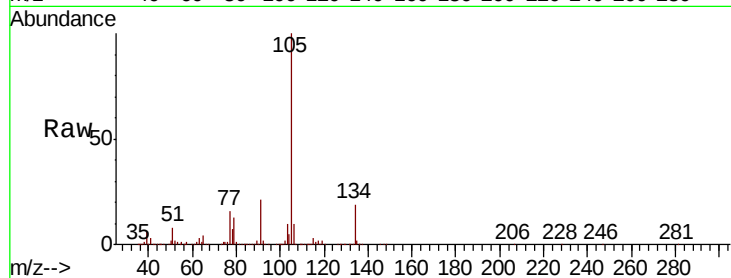
VL0622ABS01DUP

Tot Ion:105 Resp: 5473351

Ion Ratio Lower Upper

105 100

134 18.3 14.7 22.1



Abundance Ion 105.10 (104.80 to 105.80): V

2500000 Ion 134.20 (133.90 to 134.90): V

2000000

1500000

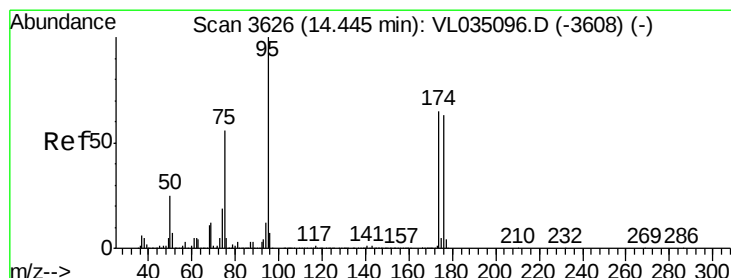
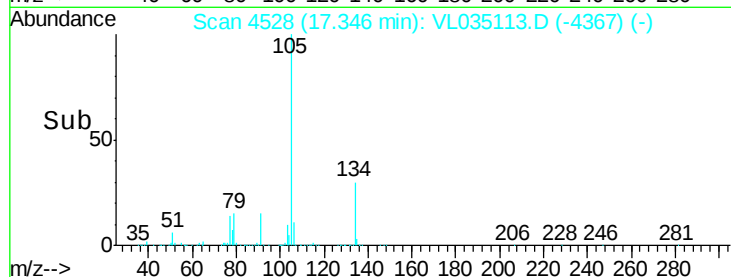
1000000

500000

0

Time--> 17.20 17.30 17.40

17.35



#68

1-Bromo-4-Fluorobenzene

Concen: 8.129 ppbv

RT: 14.46 min Scan# 3632

Delta R.T. 0.02 min

Lab File: VL035113.D

Acq: 22 Jun 2020 16:33

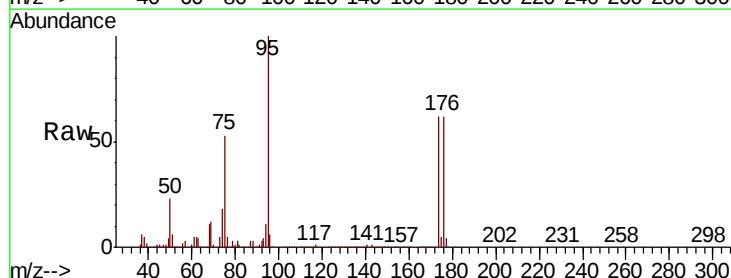
Tgt Ion: 95 Resp: 2548932

Ion Ratio Lower Upper

95 100

174 65.5 52.2 78.2

175 5.2 4.0 6.0



Abundance Ion 95.10 (94.80 to 95.80): VL0

1500000 Ion 174.00 (173.70 to 174.70): V

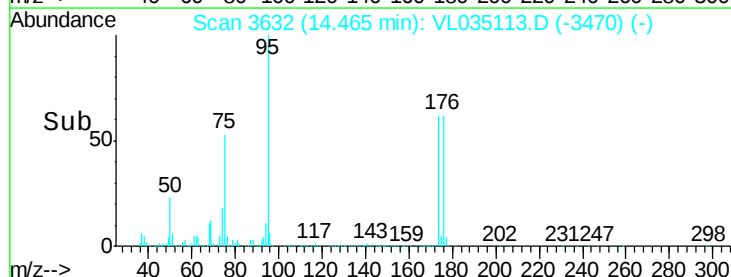
1000000 Ion 175.00 (174.70 to 175.70): V

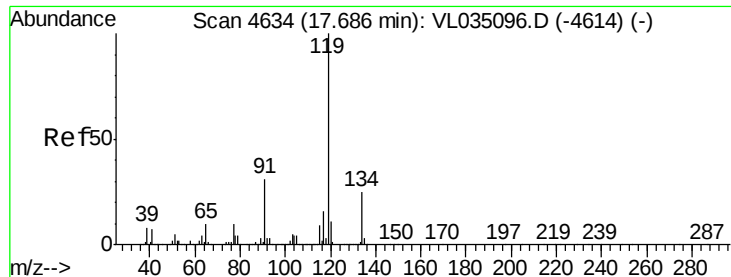
500000

0

Time--> 14.40 14.50

14.46

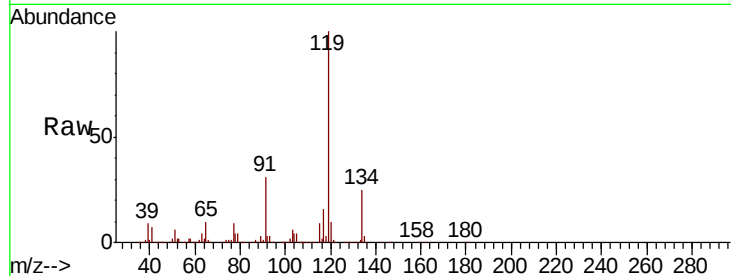




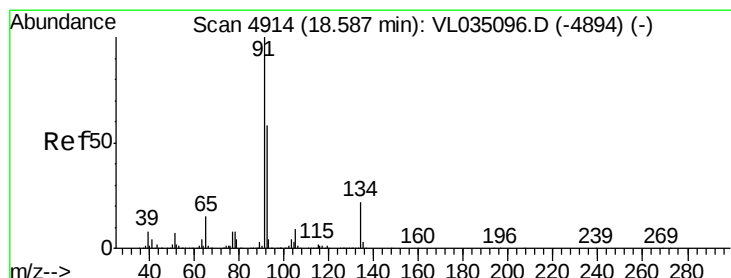
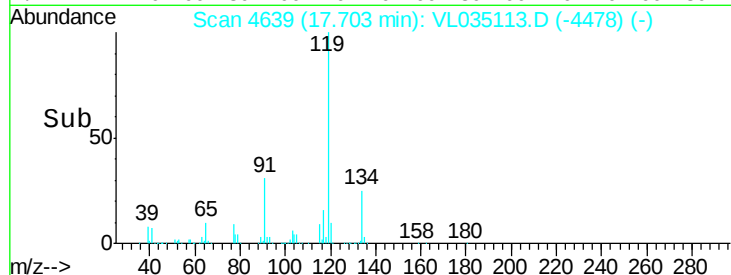
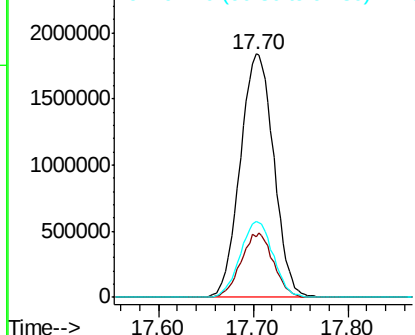
#69
 p-Isopropyltoluene
 Concen: 8.278 ppbv
 RT: 17.70 min Scan# 4639
 Delta R.T. 0.02 min
 Lab File: VL035113.D
 Acq: 22 Jun 2020 16:33

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0622ABS01DUP

Tot Ion: 119 Resp: 4525031
 Ion Ratio Lower Upper
 119 100
 134 25.6 20.4 30.6
 91 30.7 24.5 36.7

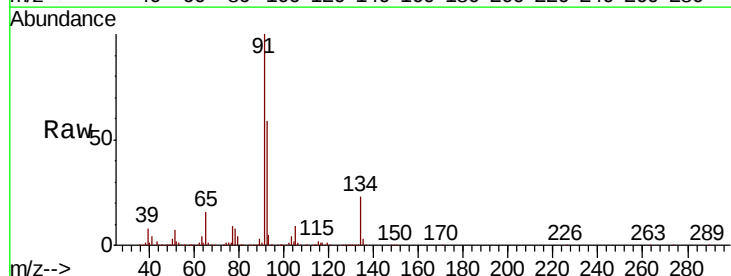


Abundance Ion 119.10 (118.80 to 119.80): V
 2500000 Ion 134.20 (133.90 to 134.90): V
 Ion 91.10 (90.80 to 91.80): V

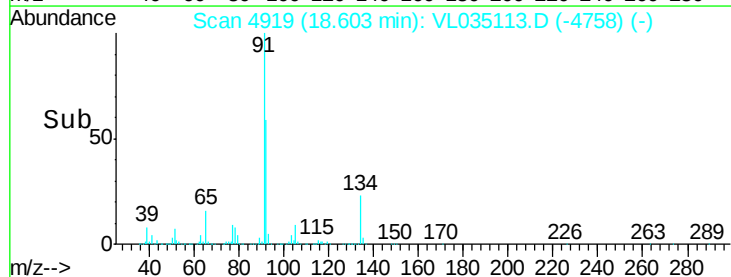
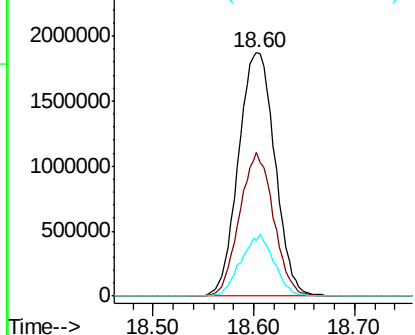


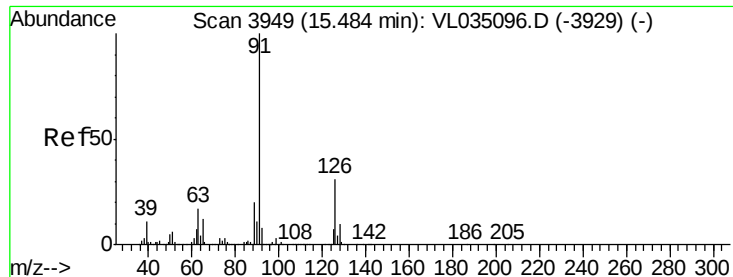
#70
 n-Butylbenzene
 Concen: 7.963 ppbv
 RT: 18.60 min Scan# 4919
 Delta R.T. 0.02 min
 Lab File: VL035113.D
 Acq: 22 Jun 2020 16:33

Tgt Ion: 91 Resp: 4688354
 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
 2500000 Ion 92.10 (91.80 to 92.80): VL0
 Ion 134.20 (133.90 to 134.90): V





#71

2-Chlorotoluene

Concen: 8.304 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 :

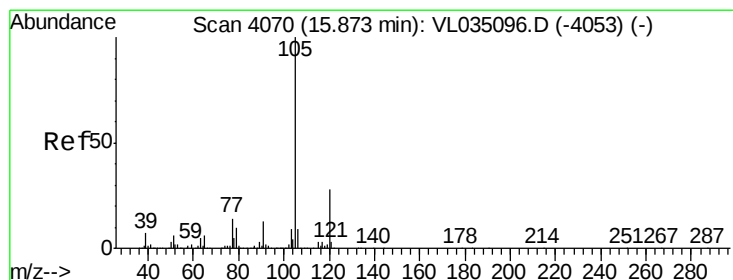
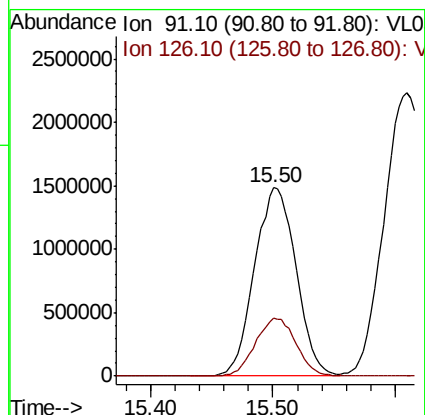
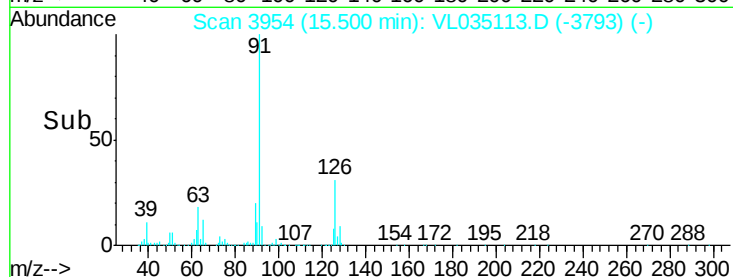
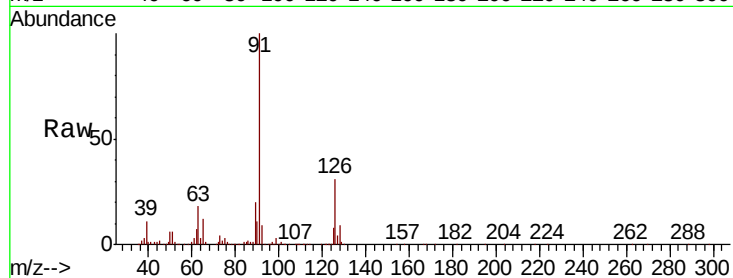
VL0622ABS01DUP

Tot Ion: 91 Resp: 3504697

Ion Ratio Lower Upper

91 100

126 30.1 12.0 48.0



#72

4-Ethyltoluene

Concen: 8.541 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

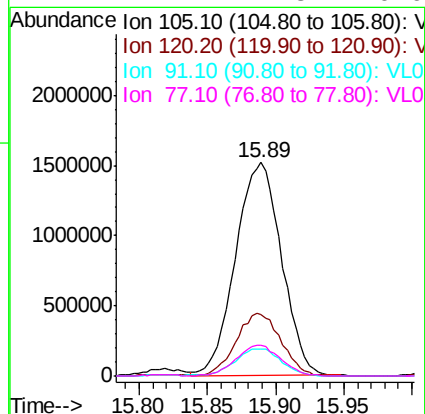
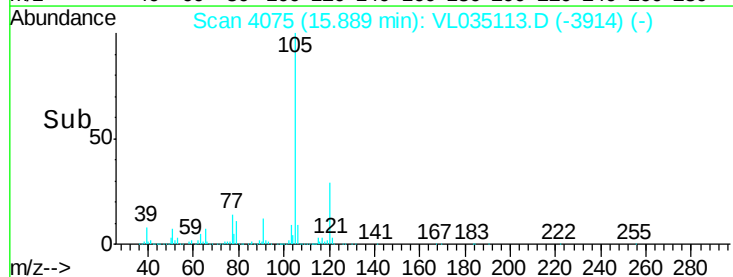
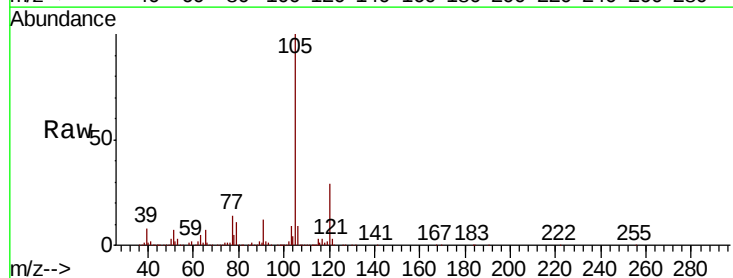
Ion Ratio Lower Upper

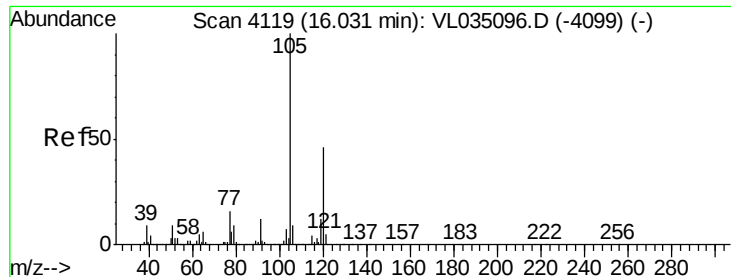
105 100

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: 8.453 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 :

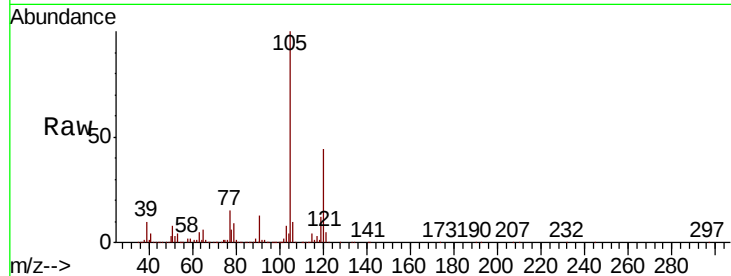
VL0622ABS01DUP

Tot Ion:105 Resp: 3325995

Ion Ratio Lower Upper

105 100

120 43.9 37.0 55.6



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

16.05

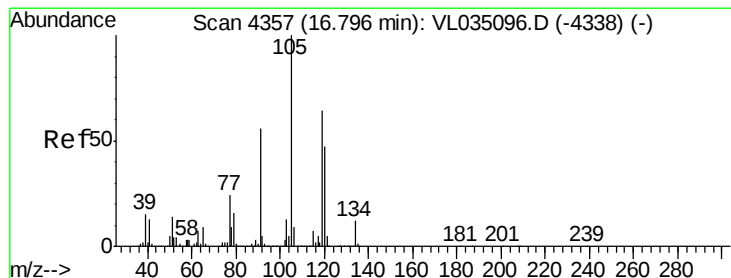
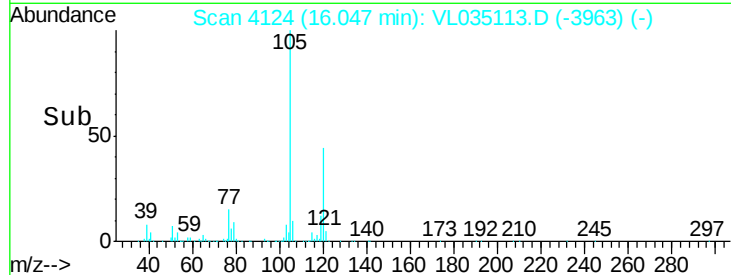
1500000

1000000

500000

0

Time-->



#74

1,2,4-Trimethylbenzene

Concen: 7.696 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

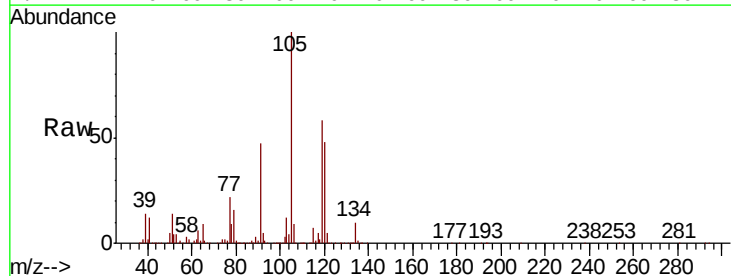
Ion Ratio Lower Upper

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): VL0

Ion 77.10 (76.80 to 77.80): VL0

2000000

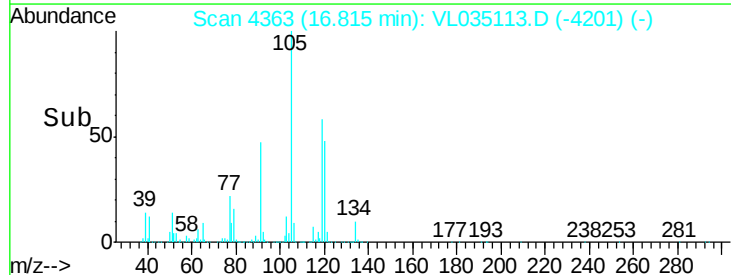
1500000

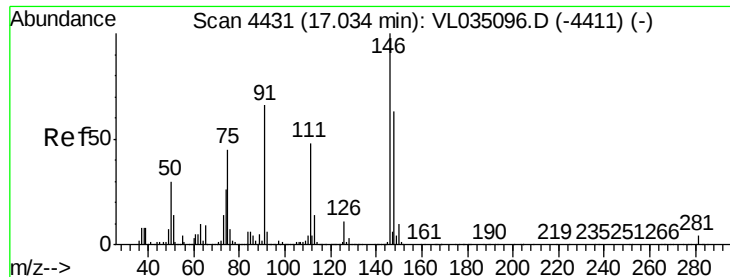
1000000

500000

0

Time-->





#75

1,3-Dichlorobenzene

Concen: 7.349 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

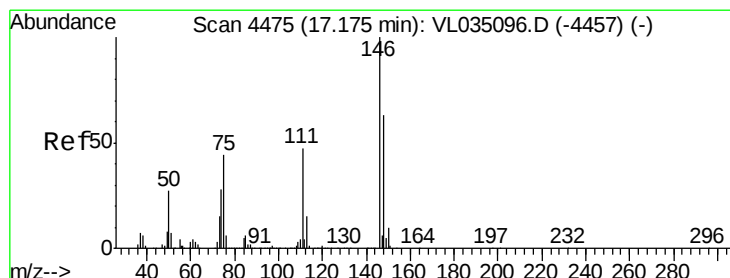
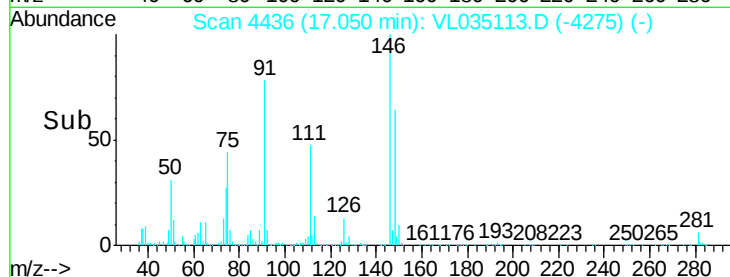
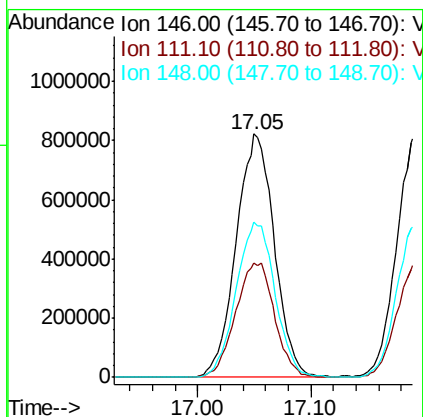
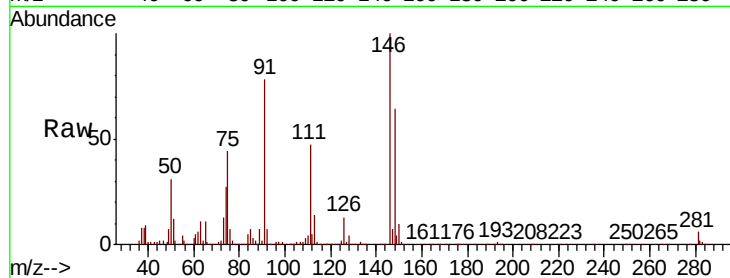
Tot Ion:146 Resp: 1926010

Ion Ratio Lower Upper

146 100

111 48.2 24.1 72.4

148 65.2 32.3 96.8



#76

1,4-Dichlorobenzene

Concen: 7.668 ppbv

RT: 17.19 min Scan# 4480

Delta R.T. 0.02 min

Lab File: VL035113.D

Acq: 22 Jun 2020 16:33

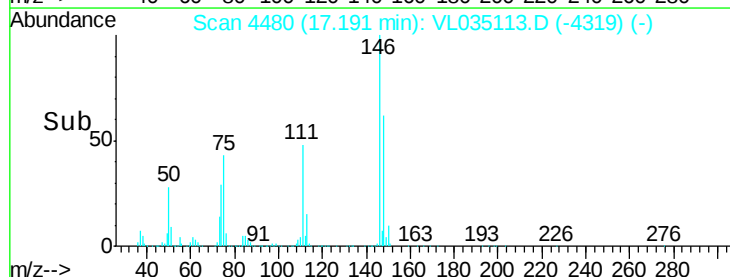
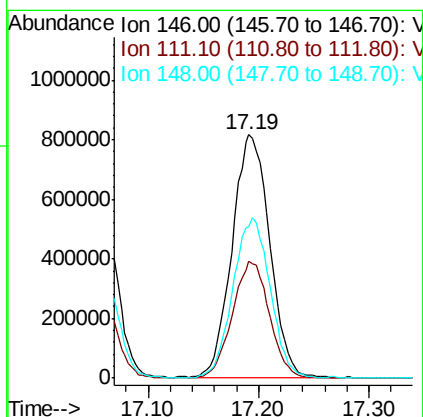
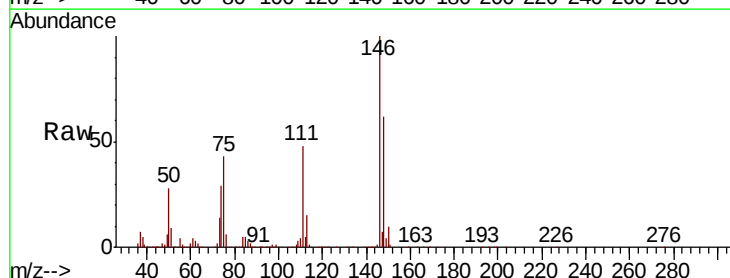
Tgt Ion:146 Resp: 1922379

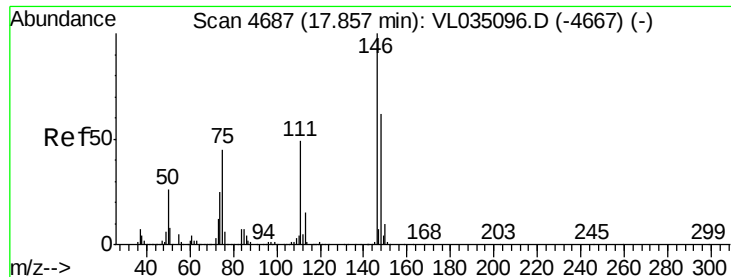
Ion Ratio Lower Upper

146 100

111 47.3 23.5 70.5

148 65.9 32.0 96.2

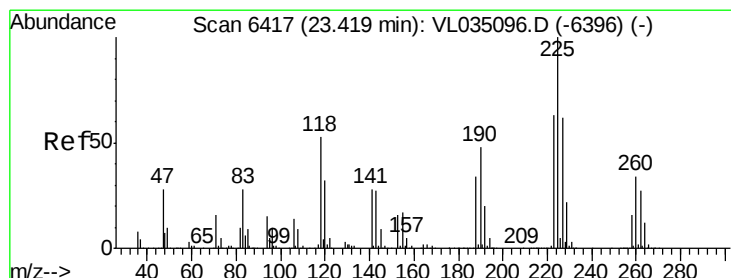
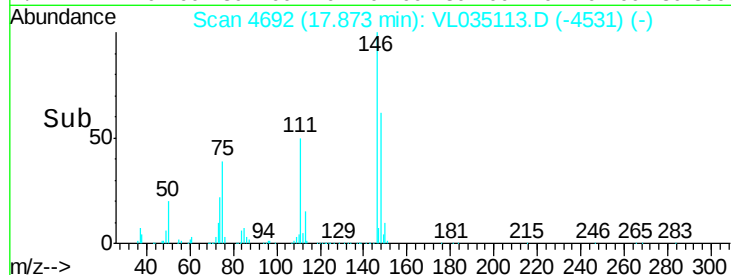
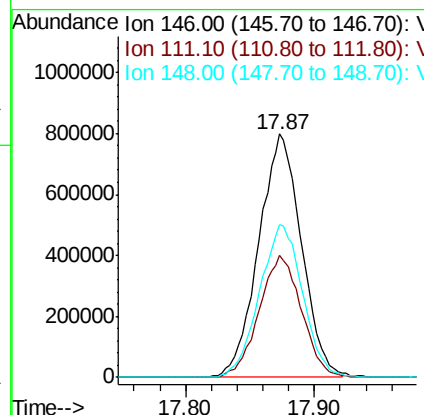
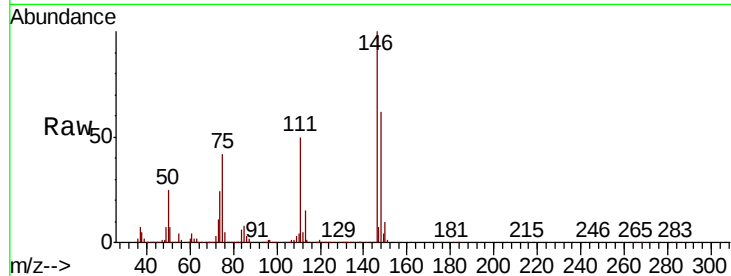




#77
 1,2-Dichlorobenzene
 Concen: 7.664 ppbv
 RT: 17.87 min Scan# 4692
 Delta R.T. 0.02 min
 Lab File: VL035113.D
 Acq: 22 Jun 2020 16:33

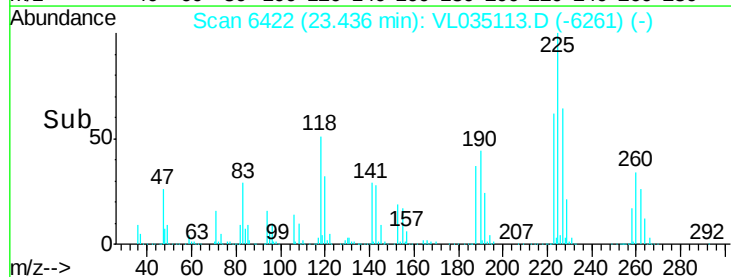
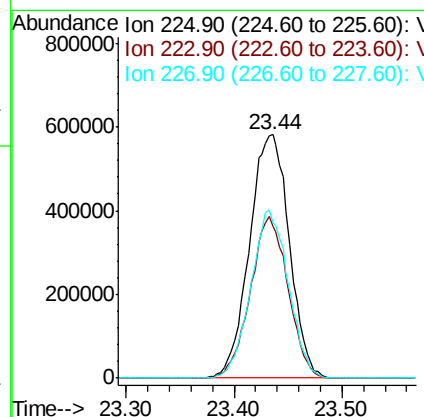
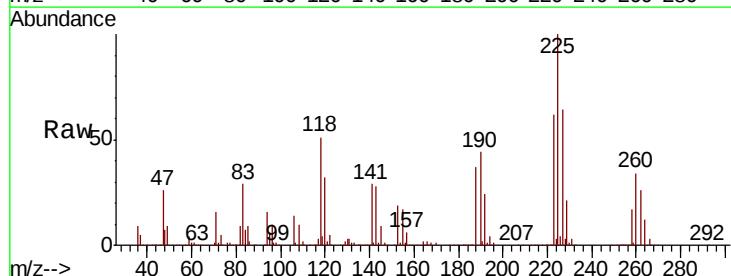
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0622ABS01DUP

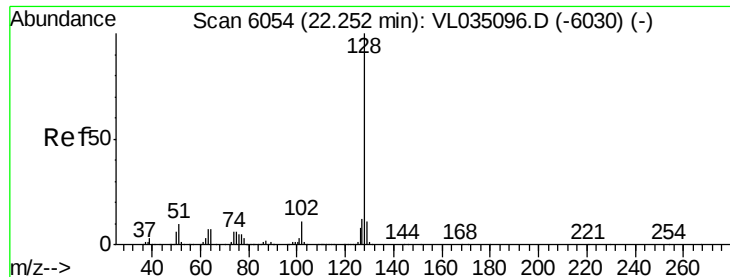
Tot Ion:146 Resp: 1837743
 Ion Ratio Lower Upper
 146 100
 111 50.0 25.0 75.0
 148 63.6 32.3 96.8



#78
 Hexachloro-1,3-Butadiene
 Concen: 6.914 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: 8.733 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

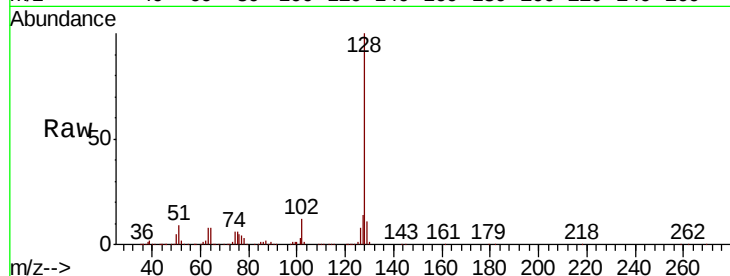
Tot Ion:128 Resp: 3362281

Ion Ratio Lower Upper

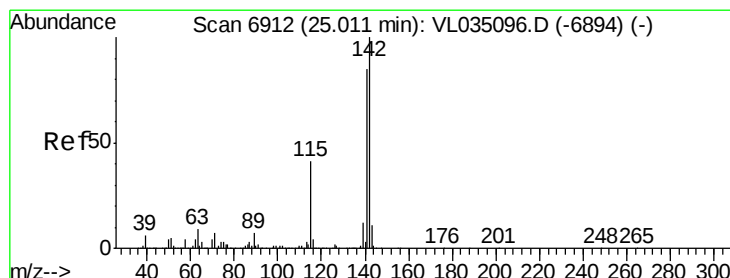
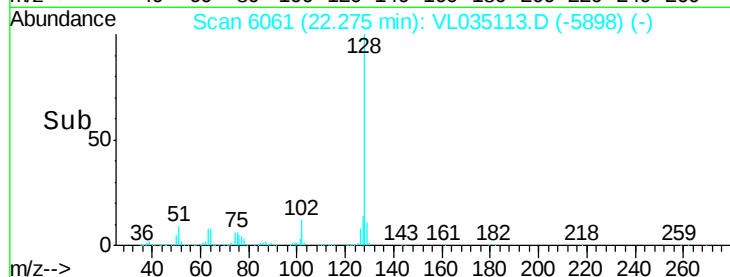
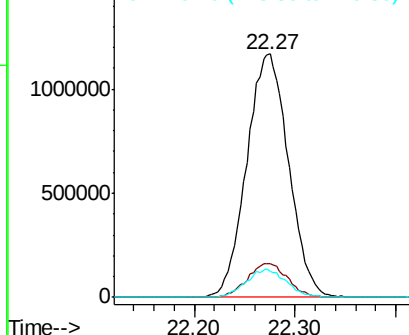
128 100

127 13.6 9.9 14.9

129 10.9 9.0 13.4



Abundance Ion 128.10 (127.80 to 128.80): V
Ion 127.10 (126.80 to 127.80): V
Ion 129.10 (128.80 to 129.80): V



#80

Naphthalene, 2-methyl-

Concen: 10.711 ppbv

RT: 25.02 min Scan# 6916

Delta R.T. 0.01 min

Lab File: VL035113.D

Acq: 22 Jun 2020 16:33

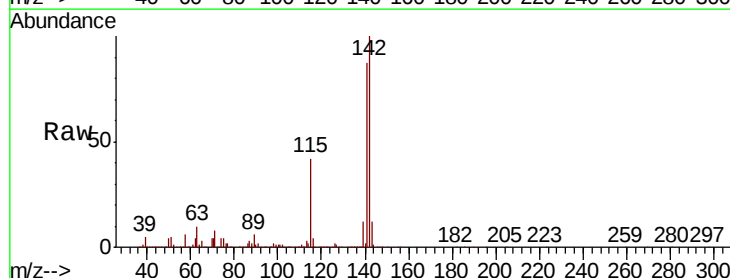
Tgt Ion:142 Resp: 1576688

Ion Ratio Lower Upper

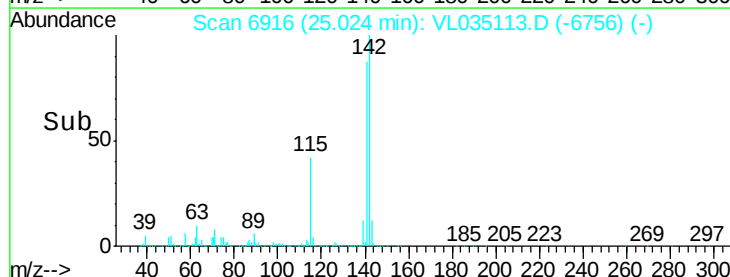
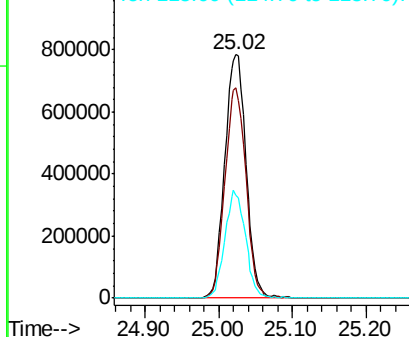
142 100

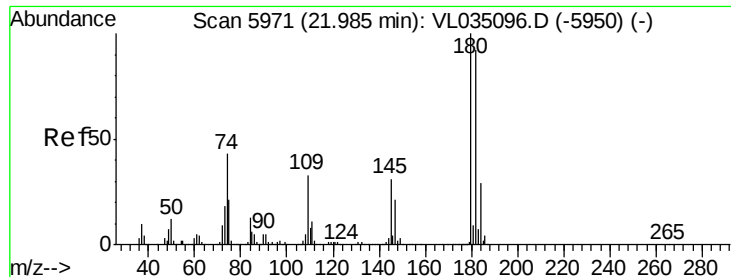
141 85.4 67.5 101.3

115 43.0 33.8 50.8



Abundance Ion 142.00 (141.70 to 142.70): V
Ion 141.00 (140.70 to 141.70): V
Ion 115.00 (114.70 to 115.70): V





#81

1,2,4-Trichlorobenzene

Concen: 7.921 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

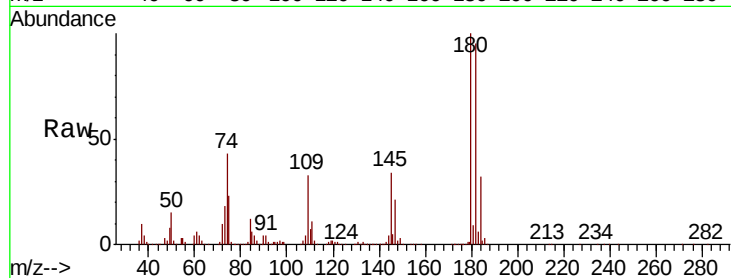
Tot Ion:180 Resp: 1759192

Ion Ratio Lower Upper

180 100

182 97.5 77.9 116.9

184 31.6 24.6 37.0



Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 184.00 (183.70 to 184.70): V

