

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL040821\
 Data File : VL036756.D
 Acq On : 8 Apr 2021 18:40
 Operator : SY/AP
 Sample : M1981-03 10X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SG-2DL

Quant Time: Apr 09 08:40:16 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032521AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Mar 25 09:42:40 2021
 QLast Update : Thu Mar 25 09:42:40 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1480359	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	3583690	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	2960578	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.41	95	2127545	9.02	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	90.20%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	3.04	85	7541	0.031 ppbv	100
3) Chlorodifluoromethane	2.98	51	29504	0.107 ppbv #	69
4) Chloromethane	3.13	50	4151	0.042 ppbv	99
5) Vinyl Chloride	3.25	62	148117	1.474 ppbv	99
9) Propene	3.01	41	235739	2.674 ppbv	92
10) Heptane	8.12	43	248921	1.108 ppbv	96
13) Ethanol	3.61	45	20767	1.978 ppbv #	16
15) Acetone	3.84	43	2145776	14.727 ppbv	99
16) 1,3-Butadiene	3.30	39	198880	1.961 ppbv #	20
17) tert-Butyl alcohol	4.31	59	4171	0.033 ppbv #	72
19) Isopropyl Alcohol	4.25	45	1764811	22.019 ppbv #	91
20) Methylene Chloride	4.34	84	439254	6.439 ppbv	94
22) trans-1,2-Dichloroethene	4.88	96	7422	0.114 ppbv	86
23) Vinyl Acetate	5.05	43	44136	0.177 ppbv #	1
25) Ethyl Acetate	5.68	43	386090	1.115 ppbv #	79
26) Hexane	5.68	57	534644	3.326 ppbv #	48
27) Carbon Disulfide	4.55	76	45685	0.288 ppbv #	15
30) Cyclohexane	7.12	84	148704	1.141 ppbv	89
31) cis-1,2-Dichloroethene	5.55	61	356134	2.291 ppbv	98
34) 2-Butanone	5.24	43	233806	1.337 ppbv	95
36) Benzene	6.89	78	258077	0.781 ppbv	98
38) Trichloroethene	7.83	130	501315	3.897 ppbv	94
39) 1,2-Dichloropropane	7.17	63	936391	6.984 ppbv #	23
41) Tetrahydrofuran	6.31	42	35657	0.442 ppbv #	41
42) Bromodichloromethane	7.79	83	76231	0.288 ppbv #	25
43) Methyl Methacrylate	7.99	69	4832	0.044 ppbv #	1
44) 2,2,4-Trimethylpentane	7.87	57	3005170	5.166 ppbv #	75
47) 1,1,2-Trichloroethane	9.56	97	31798	0.234 ppbv #	56
50) 4-Methyl-2-Pentanone	8.77	43	73720	0.291 ppbv #	88
51) 2-Hexanone	10.11	43	898144	7.031 ppbv #	31
53) Toluene	9.80	91	95828	0.272 ppbv #	20
57) Chlorobenzene	12.14	112	20203	0.080 ppbv #	82
58) Ethyl Benzene	12.71	91	233544	0.542 ppbv	95
59) m/p-Xylene	12.96	91	538500	1.433 ppbv	95
60) o-Xylene	13.69	91	237902	0.655 ppbv #	30
62) Isopropylbenzene	14.67	105	71763	0.147 ppbv #	49
63) 1,1,2,2-Tetrachloroethane	13.67	83	14907	0.054 ppbv #	24
65) tert-Butylbenzene	16.75	119	22070	0.052 ppbv #	17
67) sec-Butylbenzene	17.29	105	77584	0.130 ppbv	98
69) p-Isopropyltoluene	17.66	119	116610	0.249 ppbv #	89
71) 2-Chlorotoluene	15.32	91	162048	0.442 ppbv	80

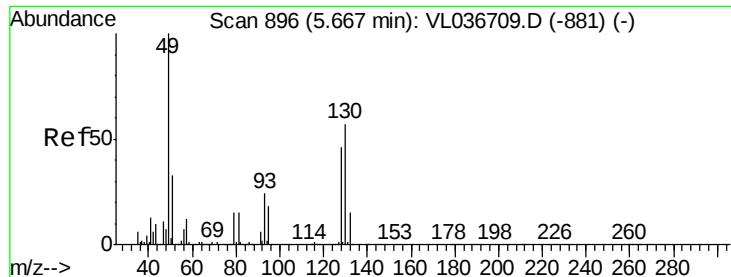
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL040821\
Data File : VL036756.D
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QLast Update : Thu Mar 25 09:42:40 2021
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
72) 4-Ethyltoluene	15.84	105	80325	0.202	ppbv #	58
73) 1,3,5-Trimethylbenzene	16.00	105	247795	0.667	ppbv	95
74) 1,2,4-Trimethylbenzene	16.76	105	217683	0.548	ppbv #	70
76) 1,4-Dichlorobenzene	17.14	146	6826	0.031	ppbv #	1

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 894

Delta R.T. -0.01 min

Lab File: VL036756.D

Acq: 8 Apr 2021 18:40

Instrument :

MSVOA_L

ClientSampleId :

SG-2DL

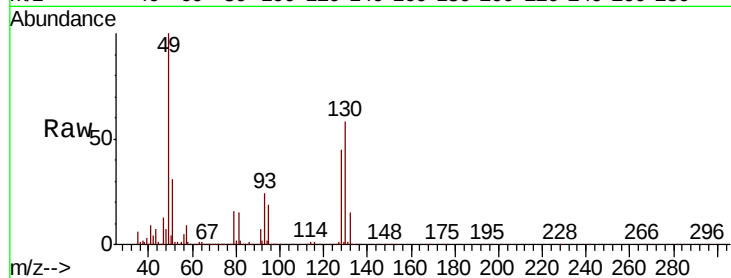
Tot Ion: 49 Resp: 1480359

Ion Ratio Lower Upper

49 100

128 45.9 23.5 70.6

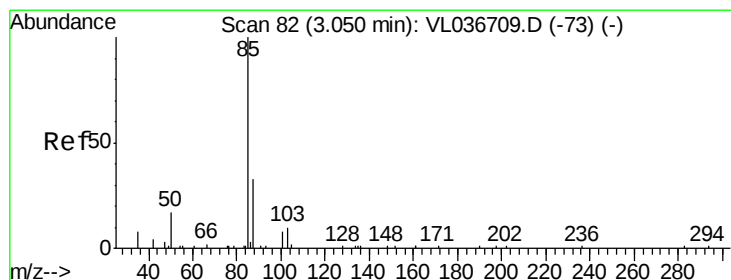
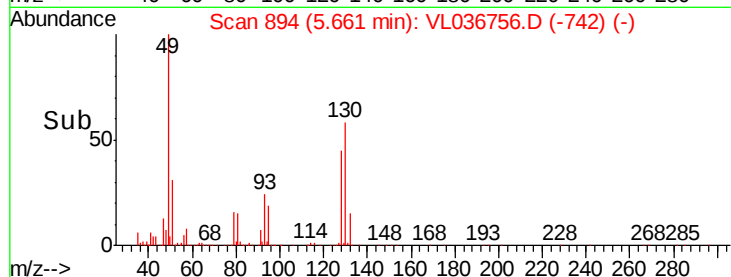
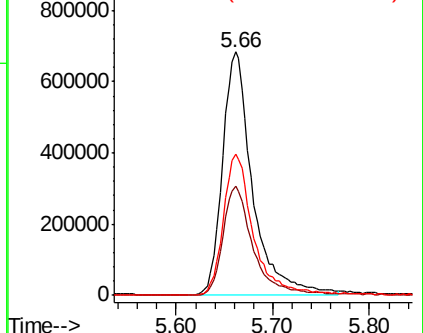
130 58.4 29.1 87.4



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 0.031 ppbv

RT: 3.04 min Scan# 79

Delta R.T. -0.01 min

Lab File: VL036756.D

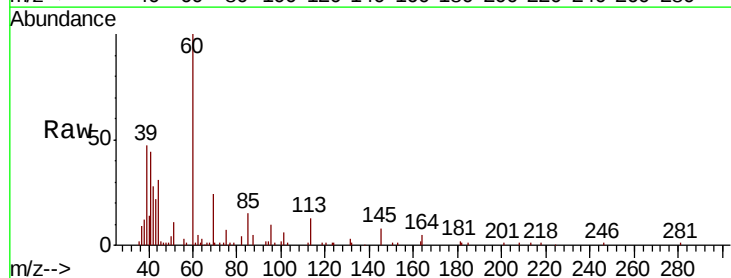
Acq: 8 Apr 2021 18:40

Tgt Ion: 85 Resp: 7541

Ion Ratio Lower Upper

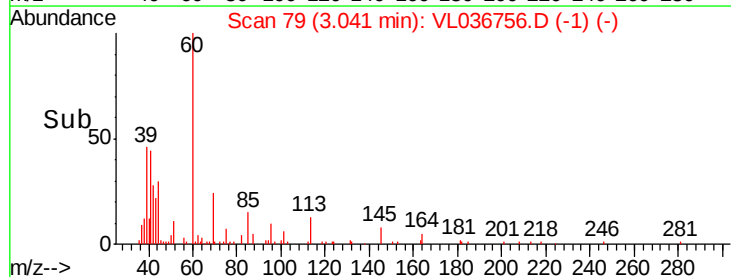
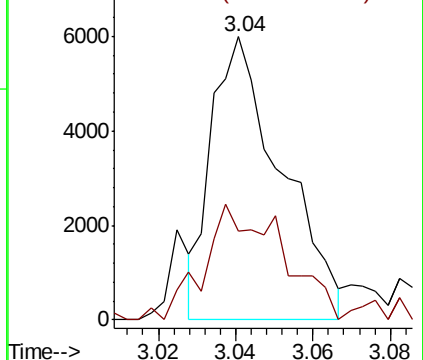
85 100

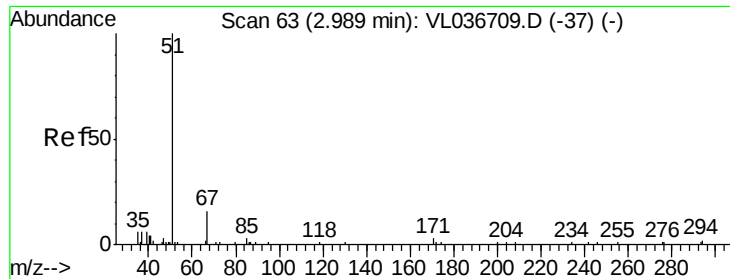
87 35.0 27.8 41.8



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

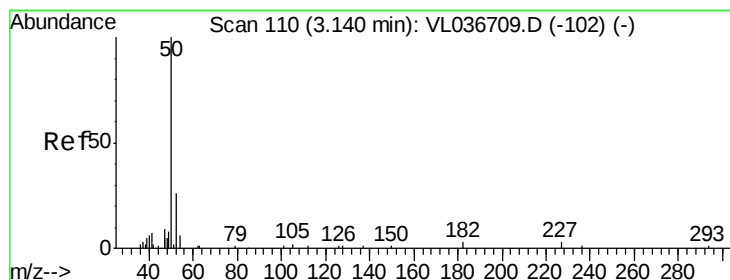
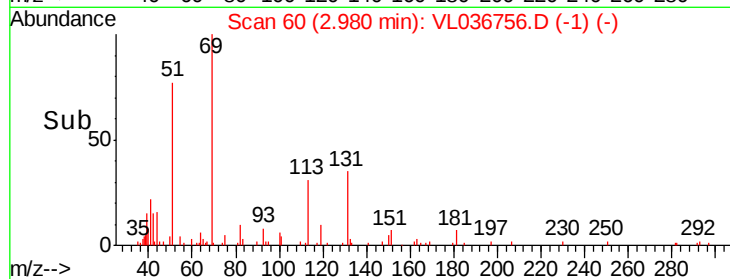
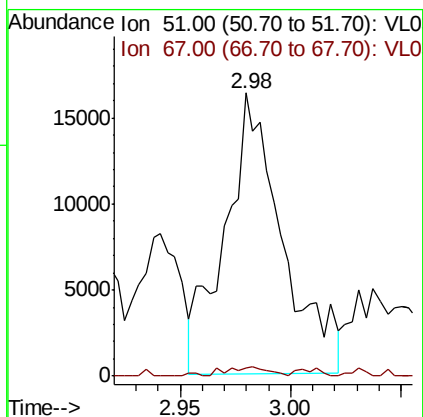
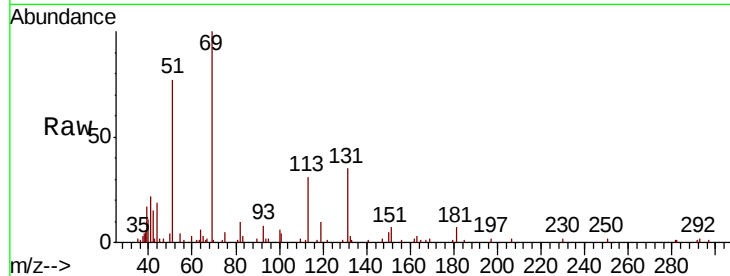




#3
Chlorodifluoromethane
Concen: 0.107 ppbv
RT: 2.98 min Scan# 60
Delta R.T. -0.01 min
Lab File: VL036756.D
Acq: 8 Apr 2021 18:40

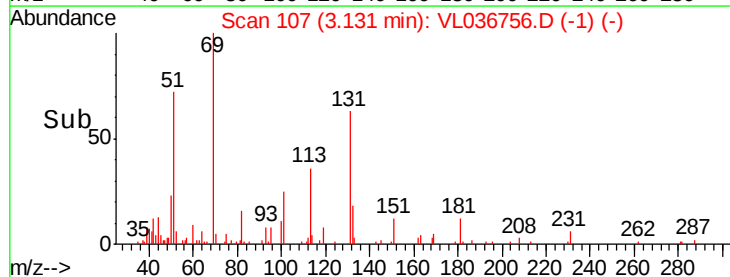
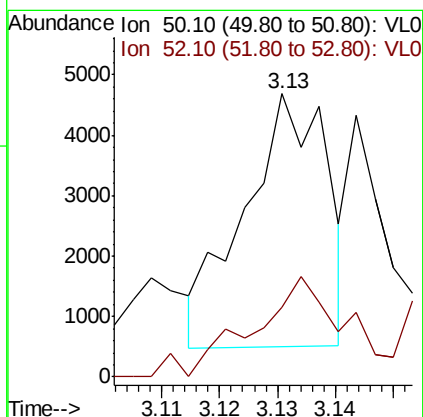
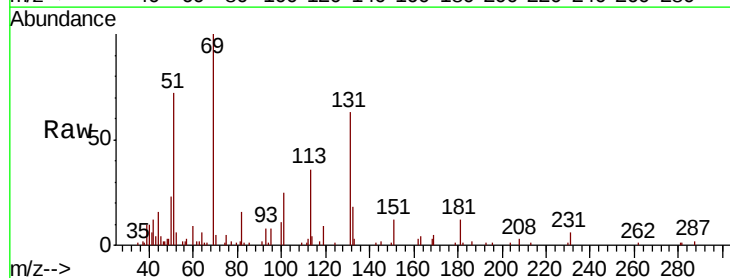
Instrument :
MSVOA_L
ClientSampleId :
SG-2DL

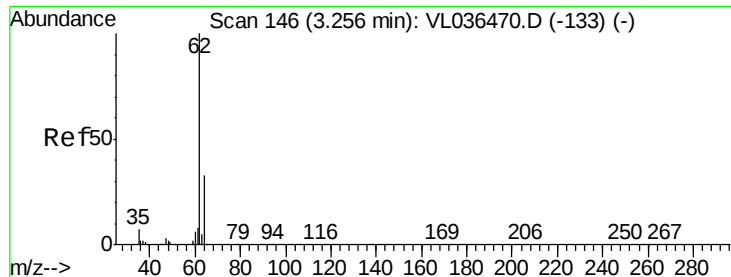
Tot Ion: 51 Resp: 29504
Ion Ratio Lower Upper
51 100
67 4.6 14.7 22.1#



#4
Chloromethane
Concen: 0.042 ppbv
RT: 3.13 min Scan# 107
Delta R.T. -0.01 min
Lab File: VL036756.D
Acq: 8 Apr 2021 18:40

Tgt Ion: 50 Resp: 4151
Ion Ratio Lower Upper
50 100
52 34.6 27.0 40.6





#5

Vinyl Chloride

Concen: 1.474 ppbv

RT: 3.25 min Scan# 145

Delta R.T. -0.00 min

Lab File: VL036756.D

Acq: 8 Apr 2021 18:40

Instrument :

MSVOA_L

ClientSampleId :

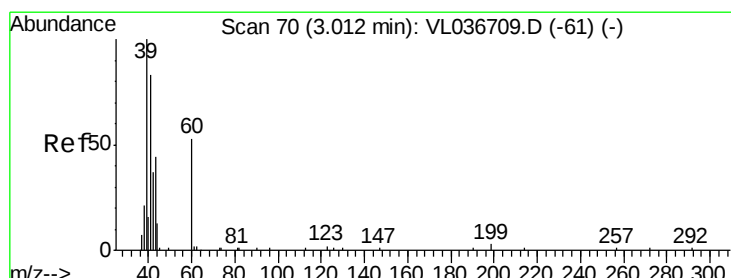
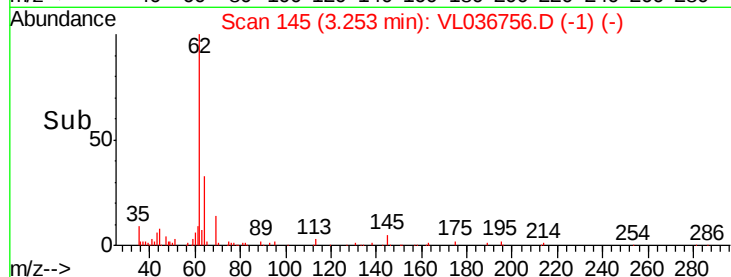
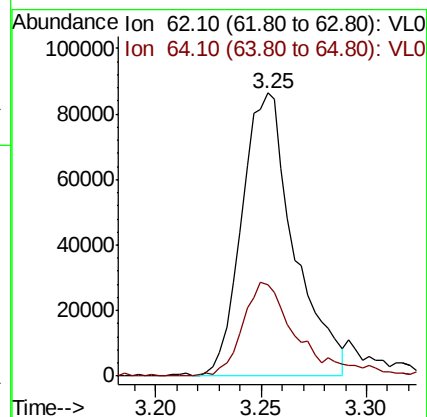
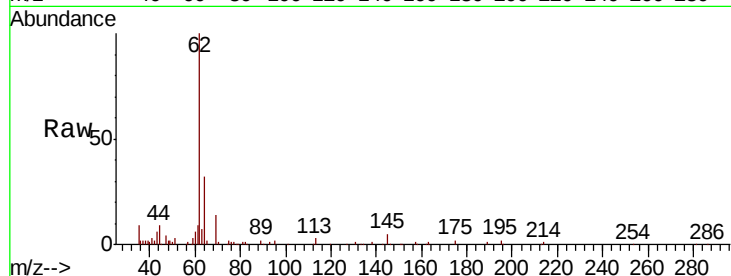
SG-2DL

Tot Ion: 62 Resp: 148117

Ion Ratio Lower Upper

62 100

64 32.2 26.4 39.6



#9

Propene

Concen: 2.674 ppbv

RT: 3.01 min Scan# 68

Delta R.T. -0.00 min

Lab File: VL036756.D

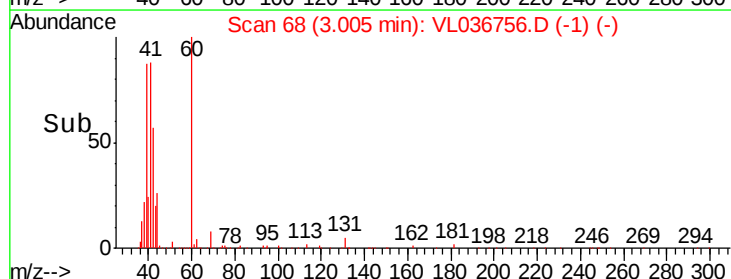
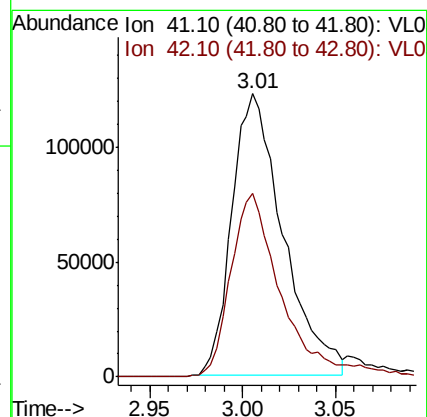
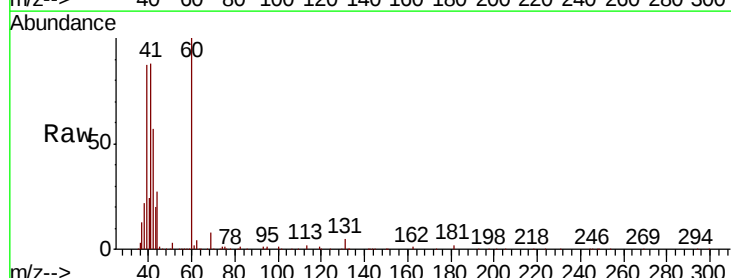
Acq: 8 Apr 2021 18:40

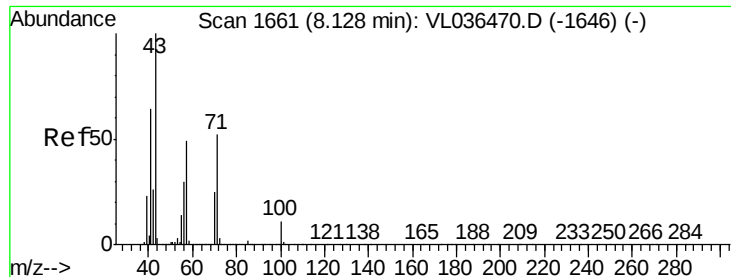
Tgt Ion: 41 Resp: 235739

Ion Ratio Lower Upper

41 100

42 64.8 57.0 85.4





#10

Heptane

Concen: 1.108 ppbv

RT: 8.12 min Scan# 1658

Delta R.T. -0.01 min

Lab File: VL036756.D

Acq: 8 Apr 2021 18:40

Instrument :

MSVOA_L

ClientSampleId :

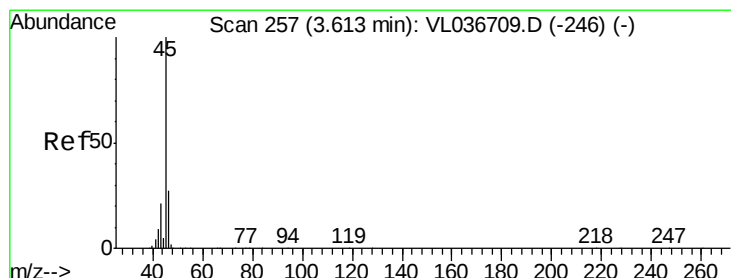
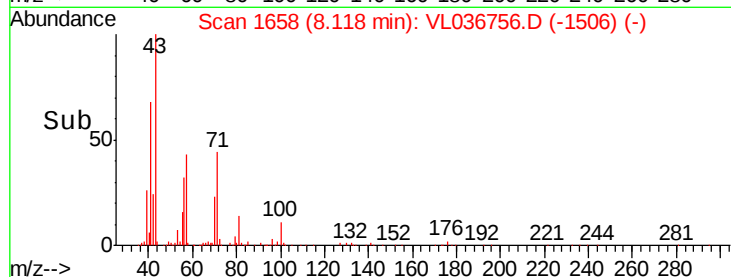
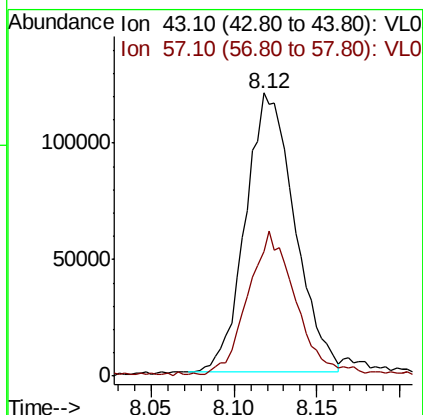
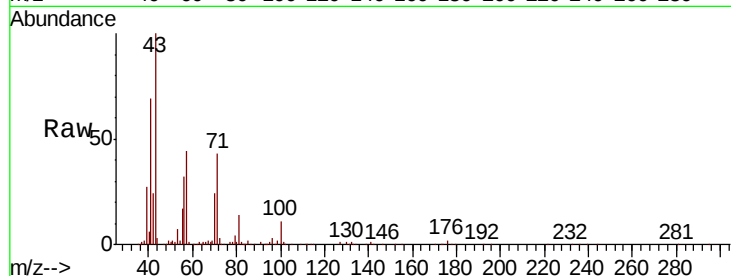
SG-2DL

Tot Ion: 43 Resp: 248921

Ion Ratio Lower Upper

43 100

57 51.3 39.0 58.6



#13

Ethanol

Concen: 1.978 ppbv

RT: 3.61 min Scan# 255

Delta R.T. -0.00 min

Lab File: VL036756.D

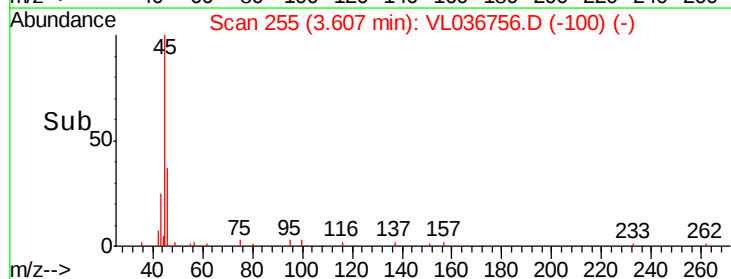
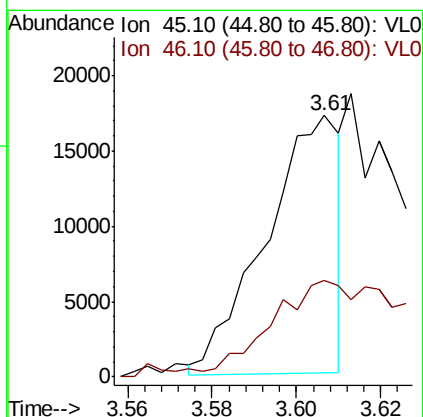
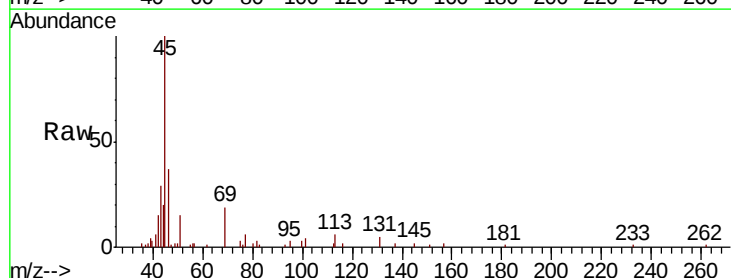
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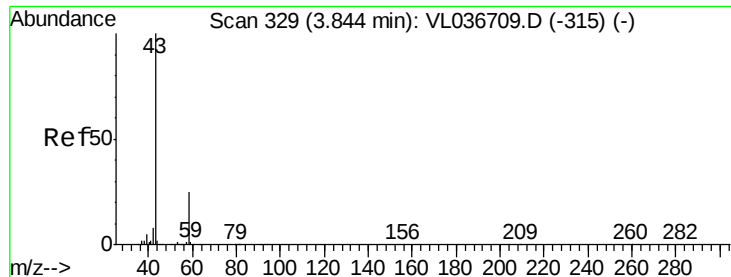
Tgt Ion: 45 Resp: 20767

Ion Ratio Lower Upper

45 100

46 94.1 16.6 66.2#





#15

Acetone

Concen: 14.727 ppbv

RT: 3.84 min Scan# 328

Delta R.T. -0.01 min

Lab File: VL036756.D

Acq: 8 Apr 2021 18:40

Instrument :

MSVOA_L

ClientSampleId :

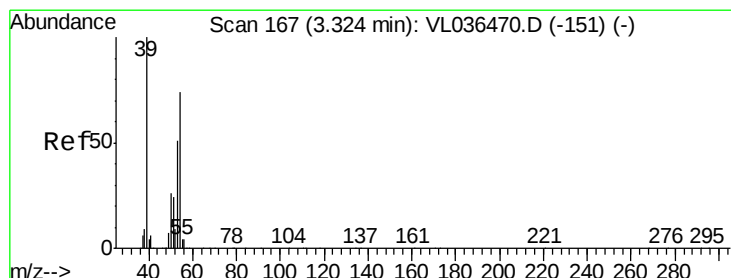
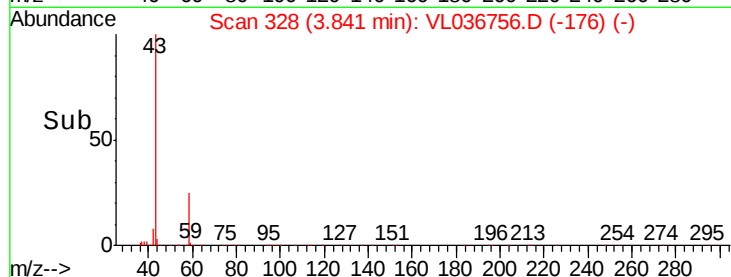
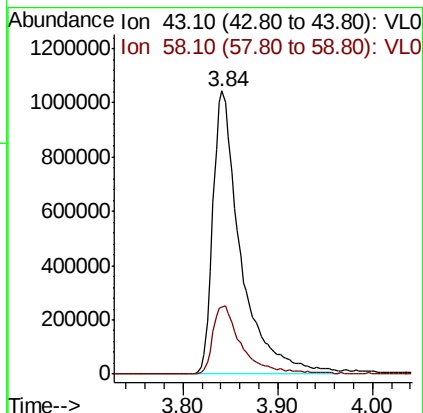
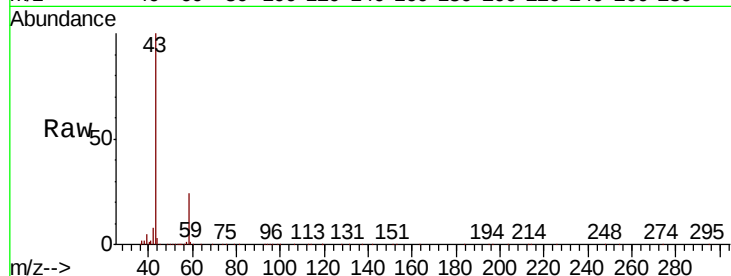
SG-2DL

Tot Ion: 43 Resp: 2145776

Ion Ratio Lower Upper

43 100

58 25.8 21.2 31.8



#16

1,3-Butadiene

Concen: 1.961 ppbv

RT: 3.30 min Scan# 159

Delta R.T. -0.03 min

Lab File: VL036756.D

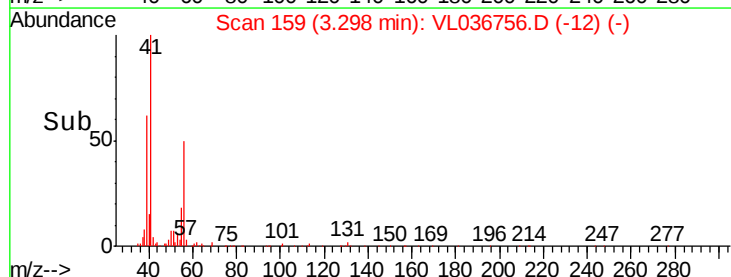
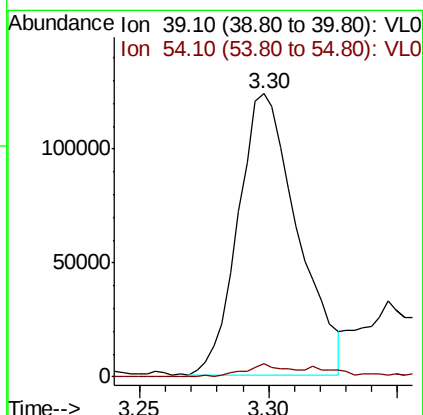
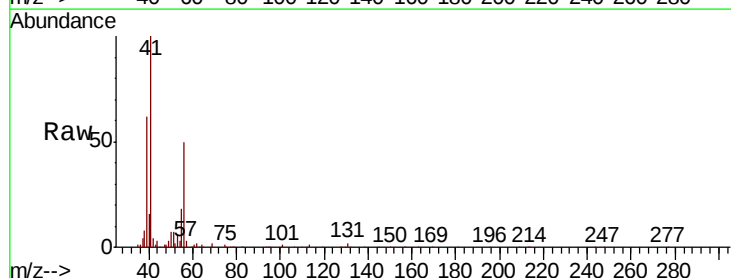
Acq: 8 Apr 2021 18:40

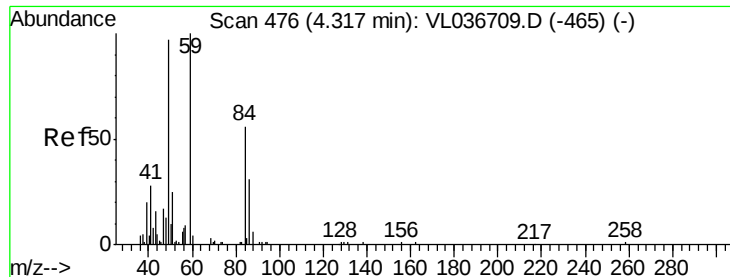
Tgt Ion: 39 Resp: 198880

Ion Ratio Lower Upper

39 100

54 6.3 58.8 88.2#



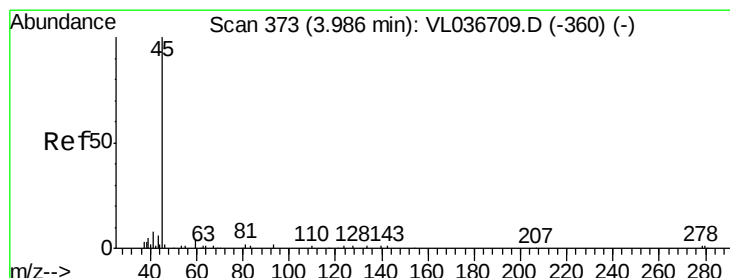
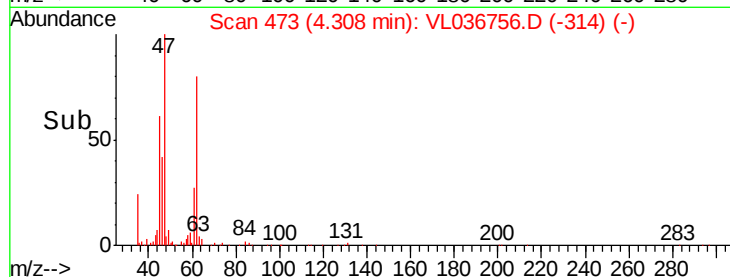
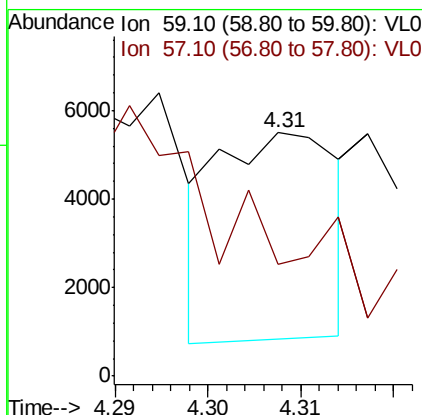
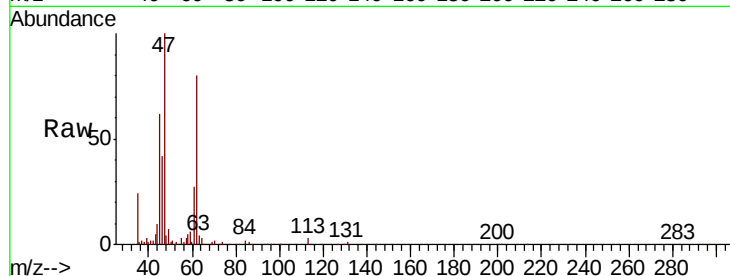


#17

tert-Butyl alcohol
 Concen: 0.033 ppbv
 RT: 4.31 min Scan# 473
 Delta R.T. 0.01 min
 Lab File: VL036756.D
 Acq: 8 Apr 2021 18:40

Instrument :
 MSVOA_L
 ClientSampleId :
 SG-2DL

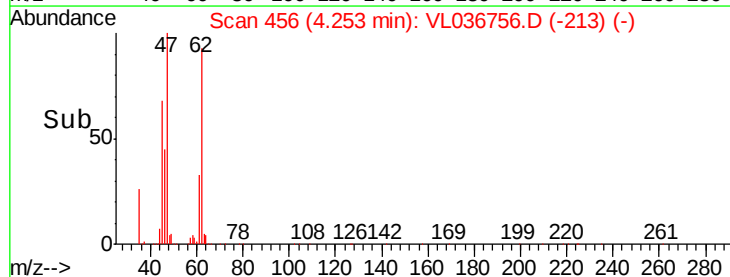
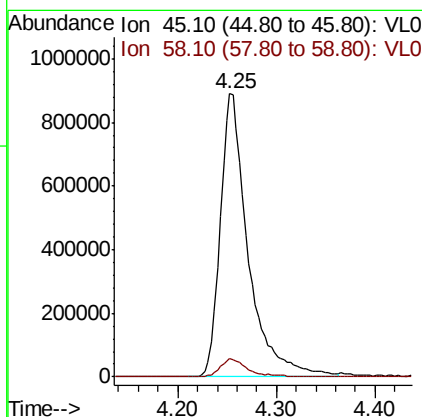
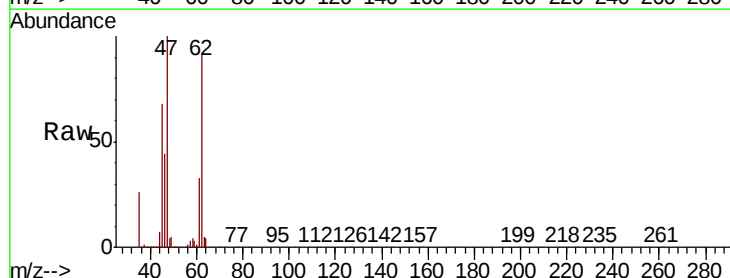
Tot Ion: 59 Resp: 4171
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.6 12.8#

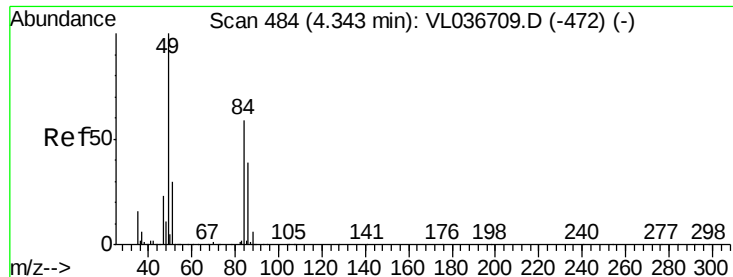


#19

Isopropyl Alcohol
 Concen: 22.019 ppbv
 RT: 4.25 min Scan# 456
 Delta R.T. 0.28 min
 Lab File: VL036756.D
 Acq: 8 Apr 2021 18:40

Tgt Ion: 45 Resp: 1764811
 Ion Ratio Lower Upper
 45 100
 58 6.5 2.9 4.3#

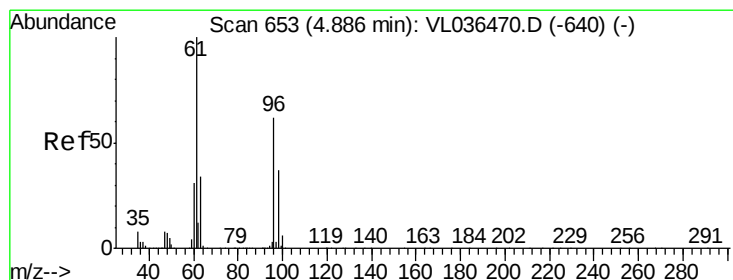
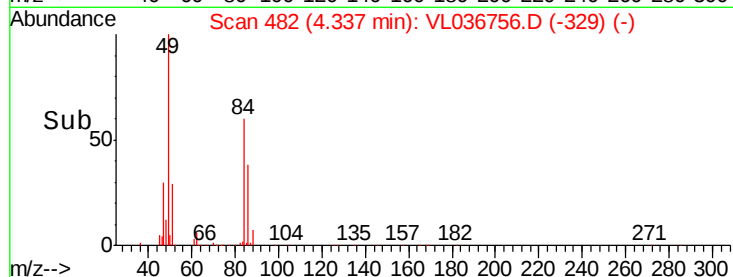
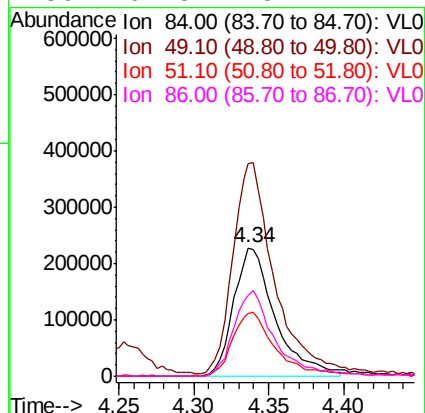
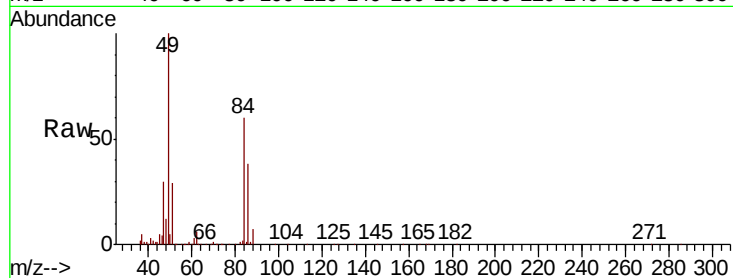




#20
Methvlene Chloride
Concen: 6.439 ppbv
RT: 4.34 min Scan# 482
Delta R.T. -0.01 min
Lab File: VL036756.D
Acq: 8 Apr 2021 18:40

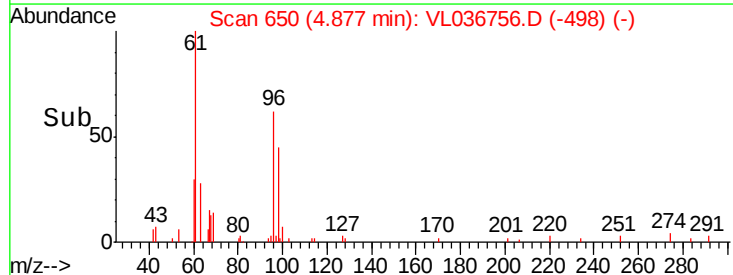
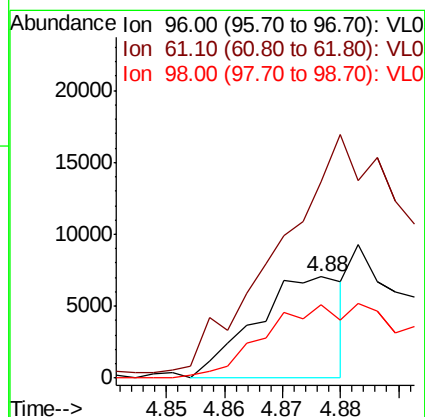
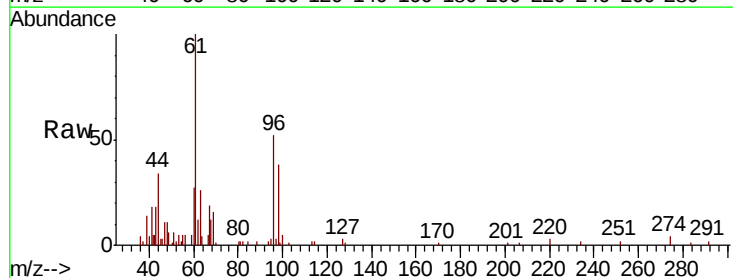
Instrument :
MSVOA_L
ClientSampleId :
SG-2DL

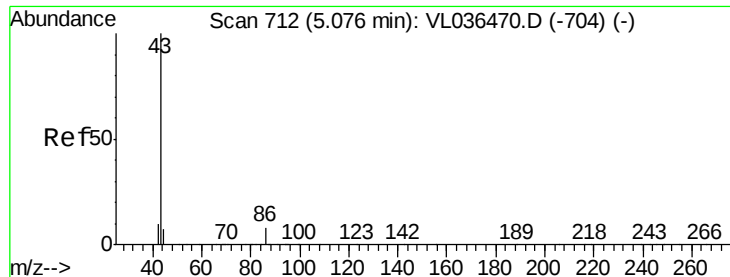
Tot Ion: 84 Resp: 439254
Ion Ratio Lower Upper
84 100
49 163.0 122.9 184.3
51 48.5 36.9 55.3
86 62.8 48.2 72.4



#22
trans-1,2-Dichloroethene
Concen: 0.114 ppbv
RT: 4.88 min Scan# 650
Delta R.T. -0.01 min
Lab File: VL036756.D
Acq: 8 Apr 2021 18:40

Tgt Ion: 96 Resp: 7422
Ion Ratio Lower Upper
96 100
61 181.6 129.4 194.0
98 69.7 48.2 72.4





#23

Vinyl Acetate

Concen: 0.177 ppbv

RT: 5.05 min Scan# 705

Delta R.T. -0.02 min

Lab File: VL036756.D

Acq: 8 Apr 2021 18:40

Instrument :

MSVOA_L

ClientSampleID :

SG-2DL

Tot Ion: 43 Resp: 44136

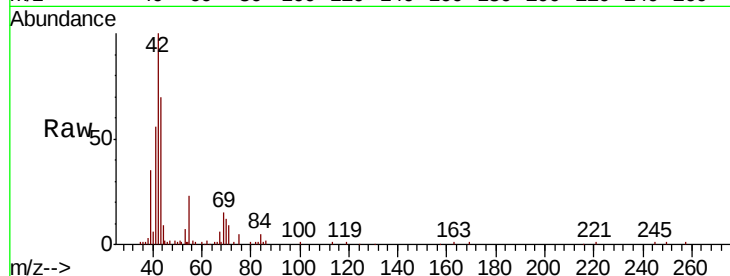
Ion Ratio Lower Upper

43 100

86 3.4 5.4 8.0#

42 139.2 8.5 12.7#

44 4.2 4.6 7.0#

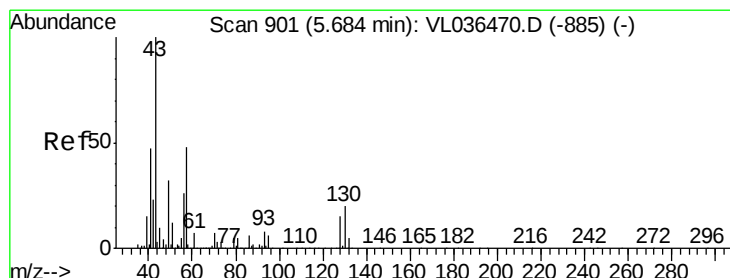
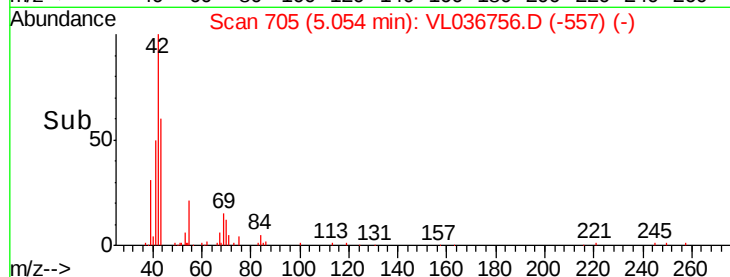
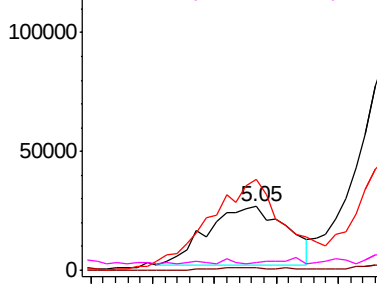


Abundance Ion 43.10 (42.80 to 43.80): VL0

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



#25

Ethyl Acetate

Concen: 1.115 ppbv

RT: 5.68 min Scan# 900

Delta R.T. -0.00 min

Lab File: VL036756.D

Acq: 8 Apr 2021 18:40

Tgt Ion: 43 Resp: 386090

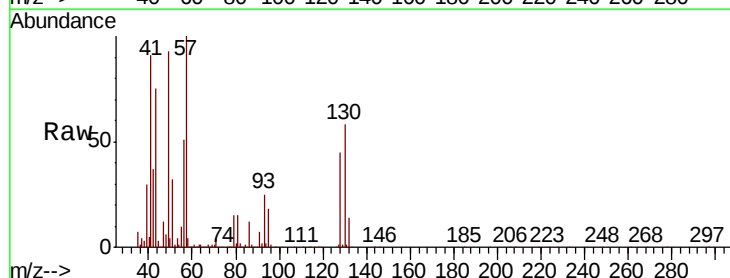
Ion Ratio Lower Upper

43 100

45 1.9 7.9 11.9#

61 0.0 7.4 11.2#

70 1.6 5.1 7.7#

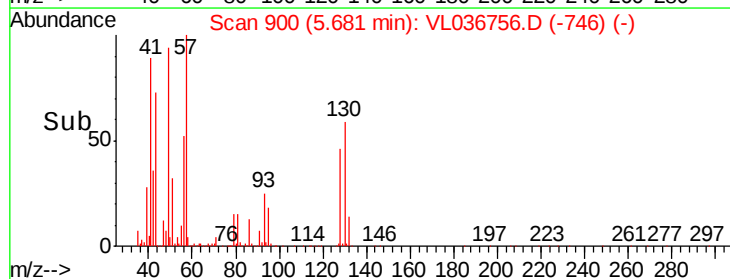
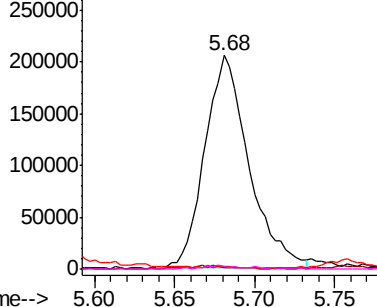


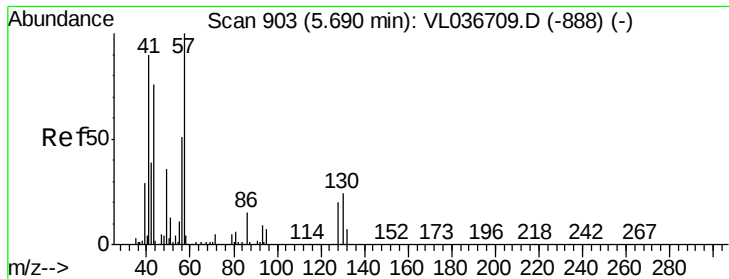
Abundance Ion 43.10 (42.80 to 43.80): VL0

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

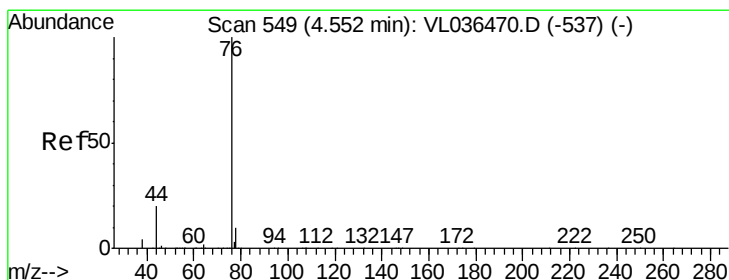
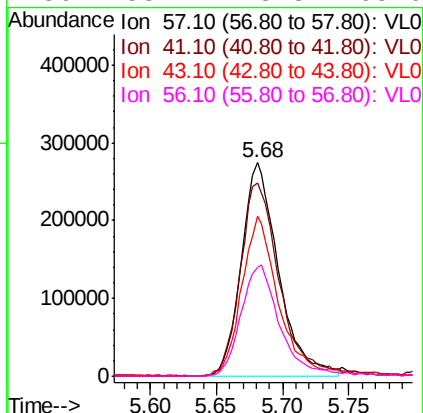
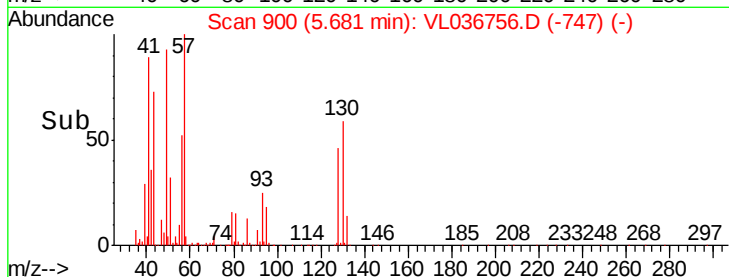
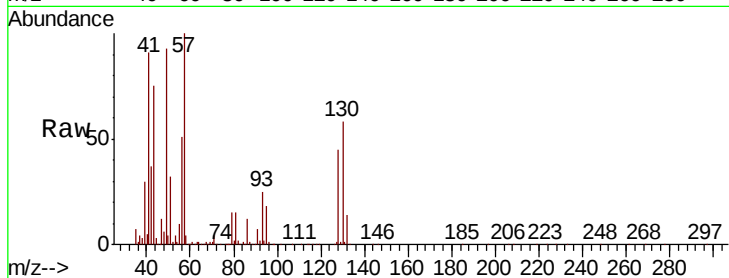




#26
Hexane
Concen: 3.326 ppbv
RT: 5.68 min Scan# 900
Delta R.T. -0.01 min
Lab File: VL036756.D
Acq: 8 Apr 2021 18:40

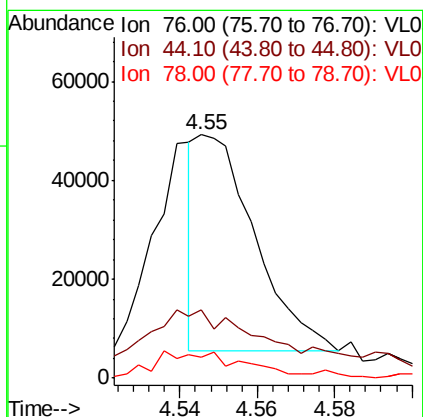
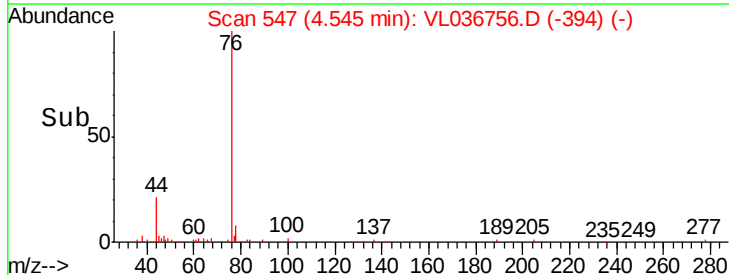
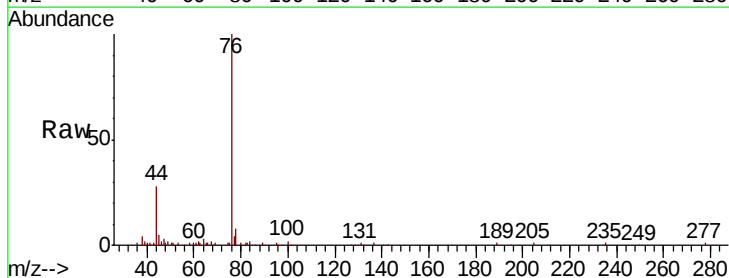
Instrument :
MSVOA_L
ClientSampleId :
SG-2DL

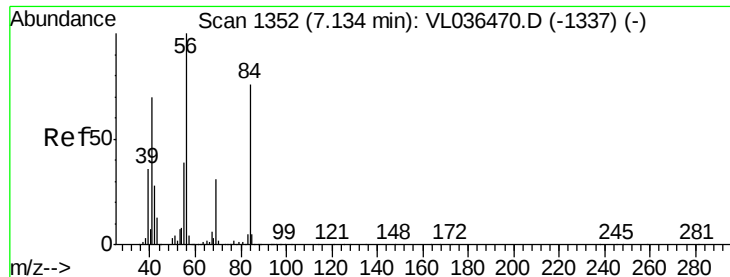
Tot Ion: 57 Resp: 534644
Ion Ratio Lower Upper
57 100
41 96.8 77.2 115.8
43 76.7 173.8 260.6#
56 55.1 43.8 65.6



#27
Carbon Disulfide
Concen: 0.288 ppbv
RT: 4.55 min Scan# 547
Delta R.T. -0.01 min
Lab File: VL036756.D
Acq: 8 Apr 2021 18:40

Tgt Ion: 76 Resp: 45685
Ion Ratio Lower Upper
76 100
44 74.6 17.5 26.3#
78 23.0 8.6 13.0#

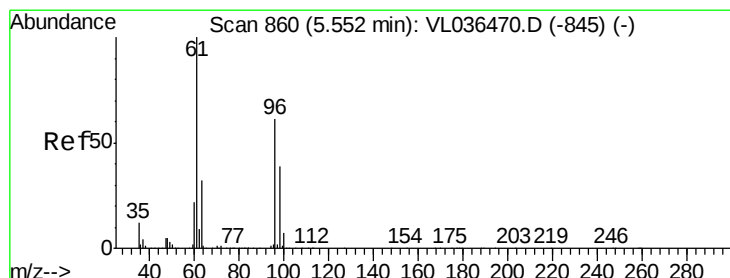
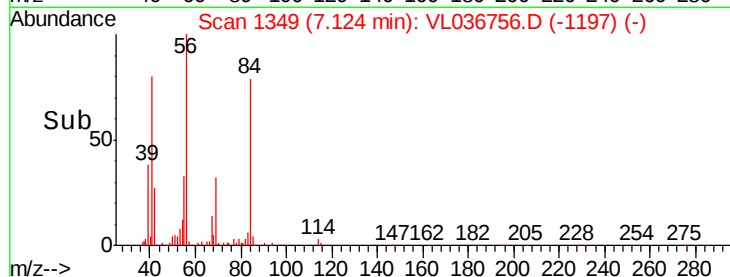
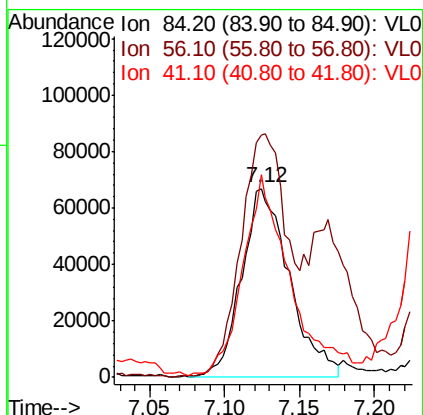
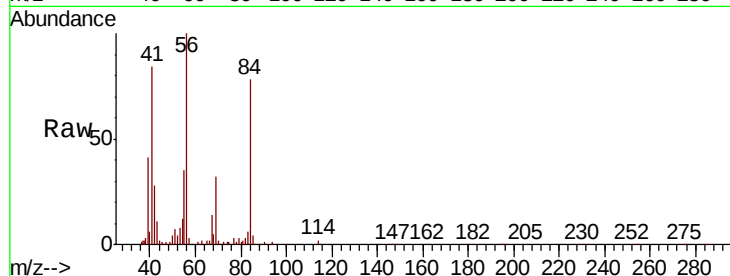




#30
Cvclohexane
Concen: 1.141 ppbv
RT: 7.12 min Scan# 1349
Delta R.T. -0.01 min
Lab File: VL036756.D
Acq: 8 Apr 2021 18:40

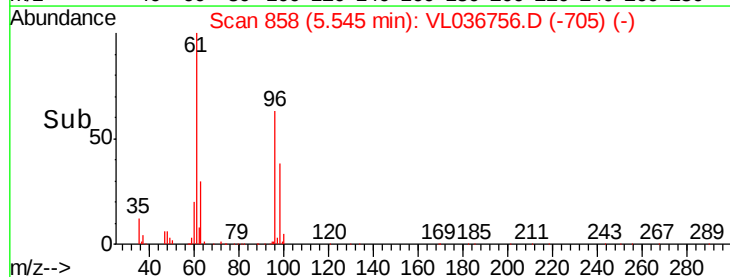
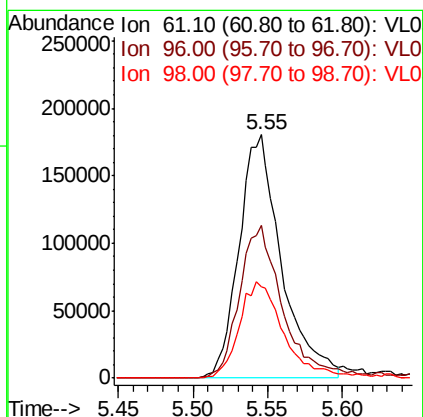
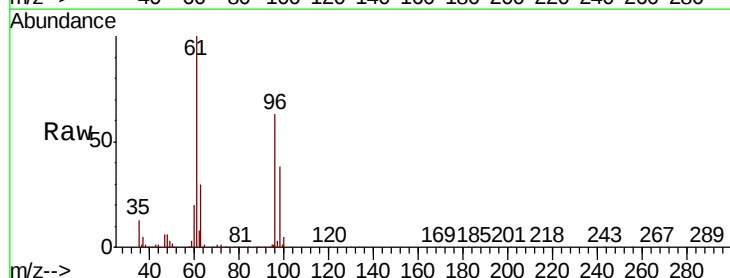
Instrument :
MSVOA_L
ClientSampleId :
SG-2DL

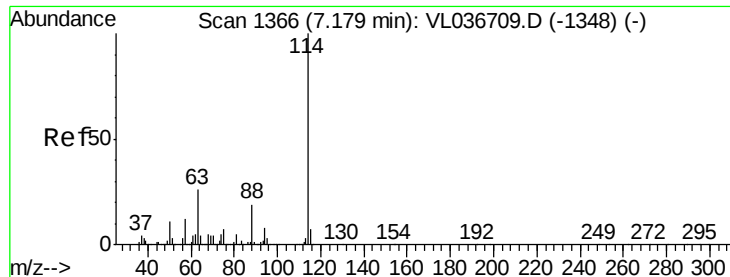
Tot Ion: 84 Resp: 148704
Ion Ratio Lower Upper
84 100
56 129.7 114.6 171.8
41 105.1 75.3 112.9



#31
cis-1,2-Dichloroethene
Concen: 2.291 ppbv
RT: 5.55 min Scan# 858
Delta R.T. -0.01 min
Lab File: VL036756.D
Acq: 8 Apr 2021 18:40

Tgt Ion: 61 Resp: 356134
Ion Ratio Lower Upper
61 100
96 62.6 48.7 73.1
98 37.5 31.4 47.0



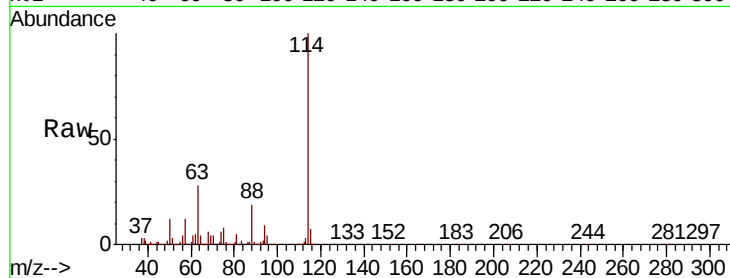


#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.17 min Scan# 1363
 Delta R.T. -0.01 min
 Lab File: VL036756.D
 Acq: 8 Apr 2021 18:40

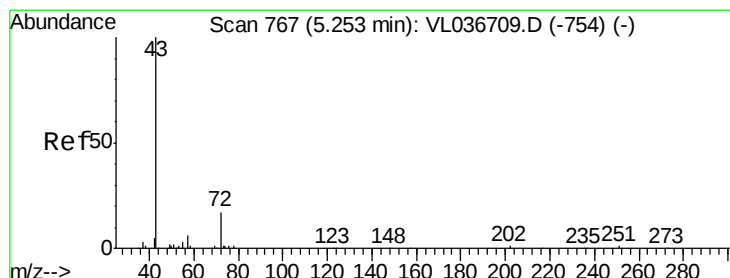
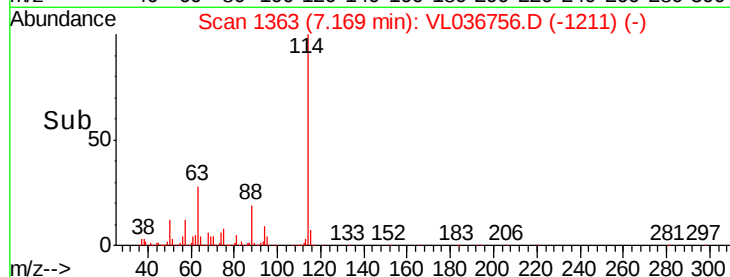
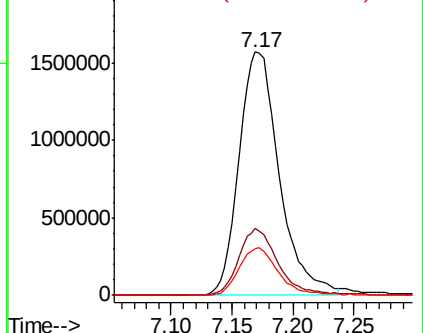
Instrument :
 MSVOA_L
 ClientSampleId :
 SG-2DL

Tot Ion:114 Resp: 3583690

Ion	Ratio	Lower	Upper
114	100		
63	27.2	22.4	33.6
88	19.3	15.4	23.0



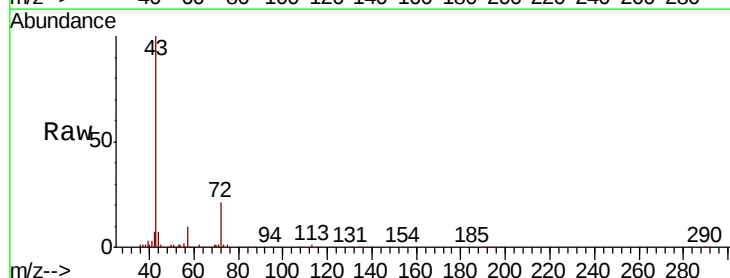
Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0



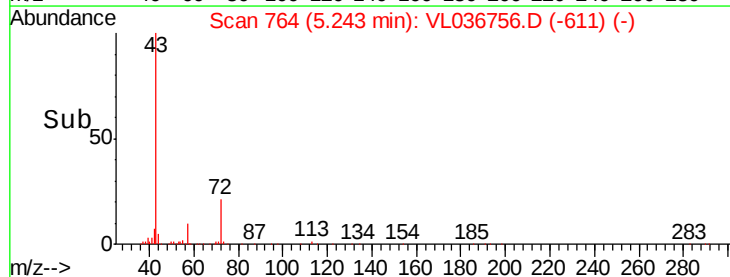
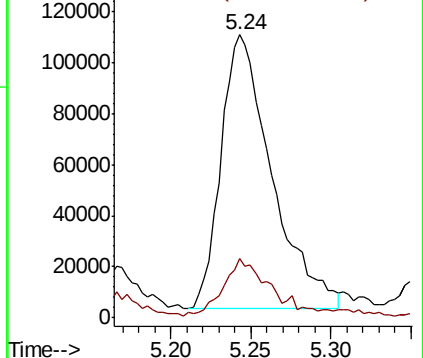
#34
 2-Butanone
 Concen: 1.337 ppbv
 RT: 5.24 min Scan# 764
 Delta R.T. -0.01 min
 Lab File: VL036756.D
 Acq: 8 Apr 2021 18:40

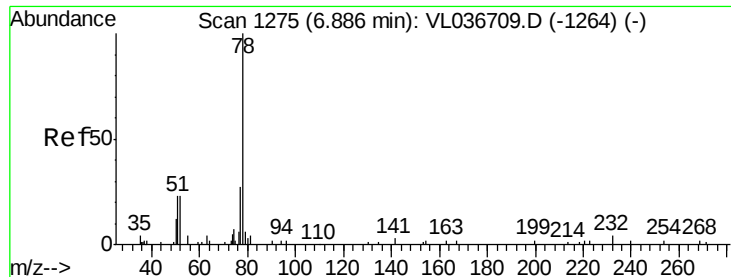
Tgt Ion: 43 Resp: 233806

Ion	Ratio	Lower	Upper
43	100		
72	23.7	17.0	25.6



Abundance Ion 43.10 (42.80 to 43.80): VL0
 Ion 72.10 (71.80 to 72.80): VL0





#36

Benzene

Concen: 0.781 ppbv

RT: 6.89 min Scan# 1275

Delta R.T. -0.01 min

Lab File: VL036756.D

Acq: 8 Apr 2021 18:40

Instrument :

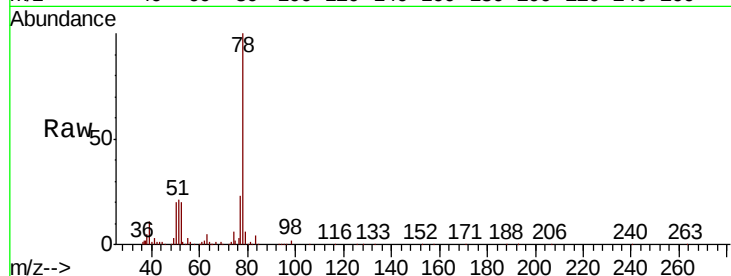
MSVOA_L

ClientSampleId :

SG-2DL

Tot Ion: 78 Resp: 258077

Ion	Ratio	Lower	Upper
78	100		
77	21.5	18.0	27.0
50	19.7	16.5	24.7

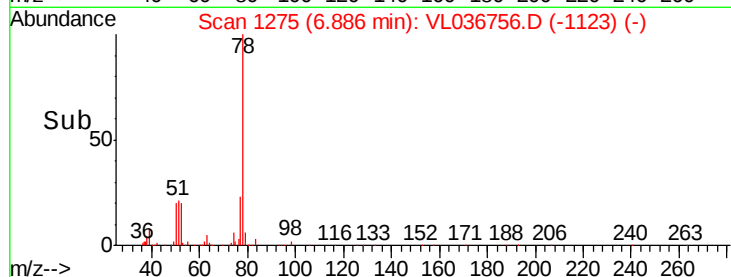
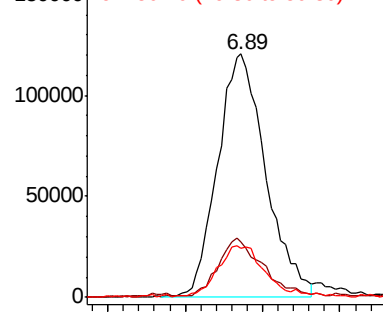


Abundance

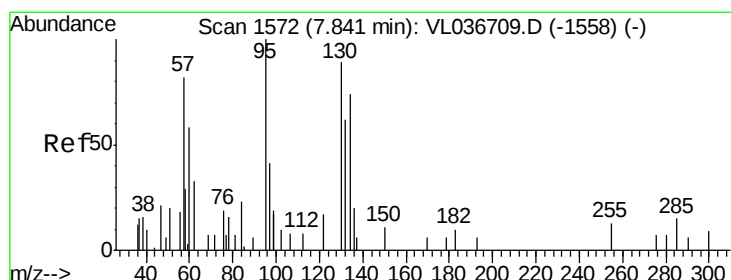
Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0



Time-->



#38

Trichloroethene

Concen: 3.897 ppbv

RT: 7.83 min Scan# 1569

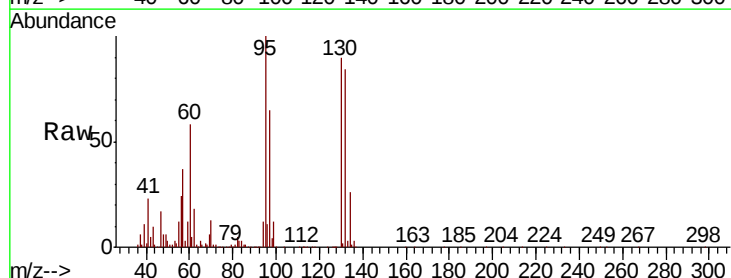
Delta R.T. -0.01 min

Lab File: VL036756.D

Acq: 8 Apr 2021 18:40

Tgt Ion: 130 Resp: 501315

Ion	Ratio	Lower	Upper
130	100		
95	110.6	95.7	143.5
132	93.6	76.2	114.4
97	71.3	61.8	92.6



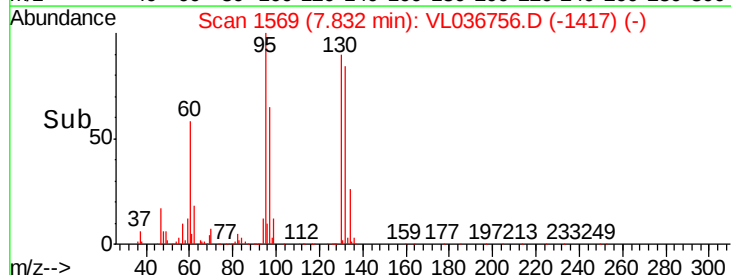
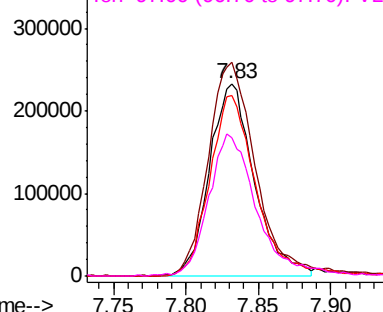
Abundance

Ion 130.00 (129.70 to 130.70): V

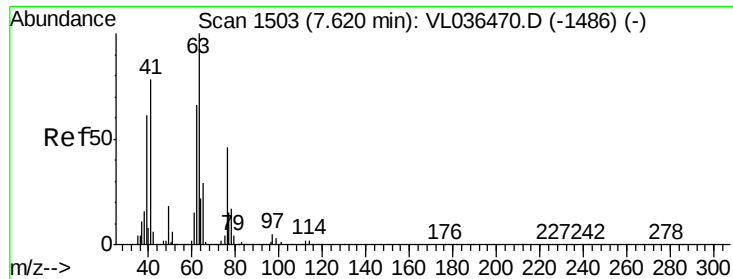
Ion 95.00 (94.70 to 95.70): VL0

Ion 132.00 (131.70 to 132.70): V

Ion 97.00 (96.70 to 97.70): VL0



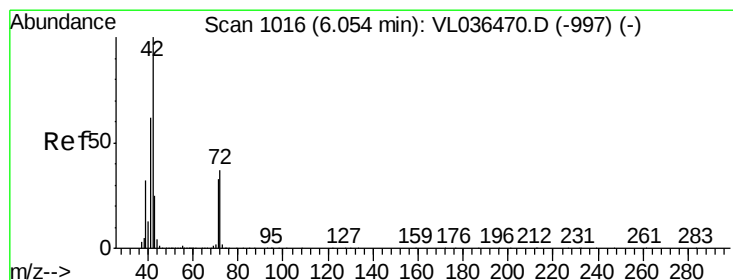
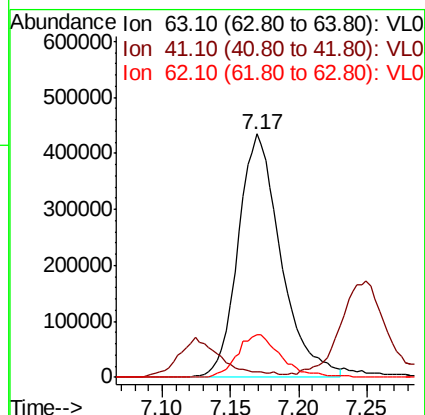
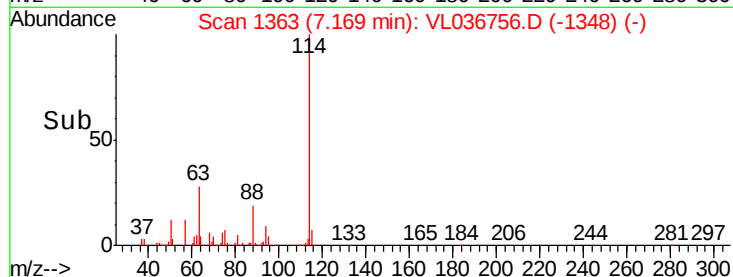
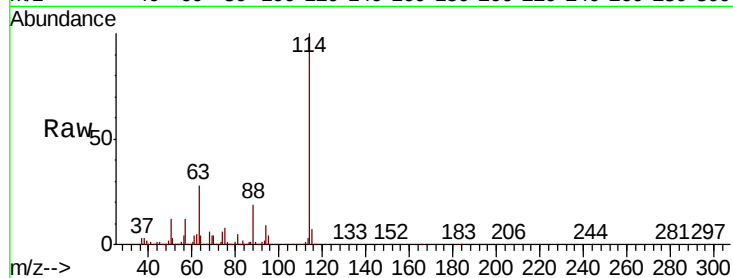
Time-->



#39
 1,2-Dichloropropane
 Concen: 6.984 ppbv
 RT: 7.17 min Scan# 1363
 Delta R.T. -0.45 min
 Lab File: VL036756.D
 Acq: 8 Apr 2021 18:40

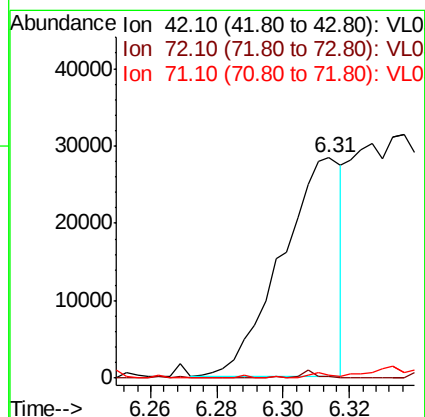
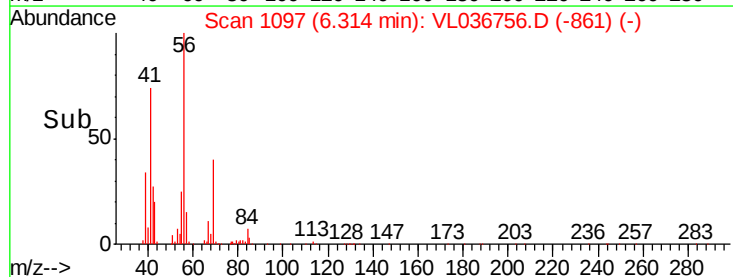
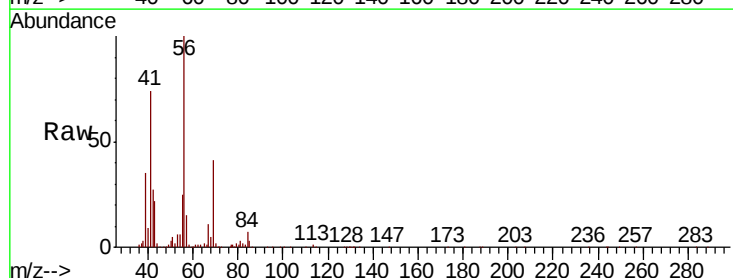
Instrument :
 MSVOA_L
 ClientSampled :
 SG-2DL

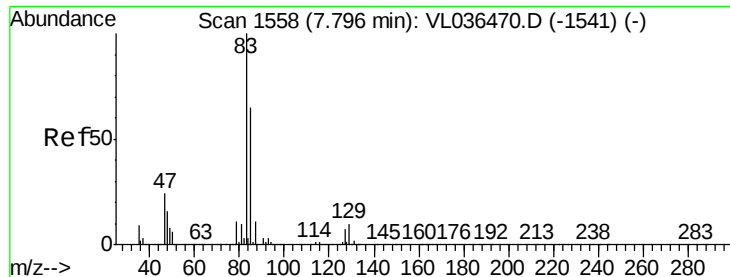
Tot Ion: 63 Resp: 936391
 Ion Ratio Lower Upper
 63 100
 41 0.0 62.4 93.6#
 62 17.2 52.8 79.2#



#41
 Tetrahydrofuran
 Concen: 0.442 ppbv
 RT: 6.31 min Scan# 1097
 Delta R.T. 0.26 min
 Lab File: VL036756.D
 Acq: 8 Apr 2021 18:40

Tgt Ion: 42 Resp: 35657
 Ion Ratio Lower Upper
 42 100
 72 1.0 27.6 41.4#
 71 0.0 27.0 40.4#





#42

Bromodichloromethane

Concen: 0.288 ppbv

RT: 7.79 min Scan# 1556

Delta R.T. -0.01 min

Lab File: VL036756.D

Acq: 8 Apr 2021 18:40

Instrument :

MSVOA_L

ClientSampled :

SG-2DL

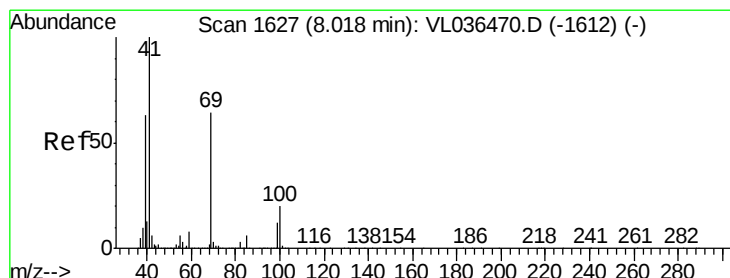
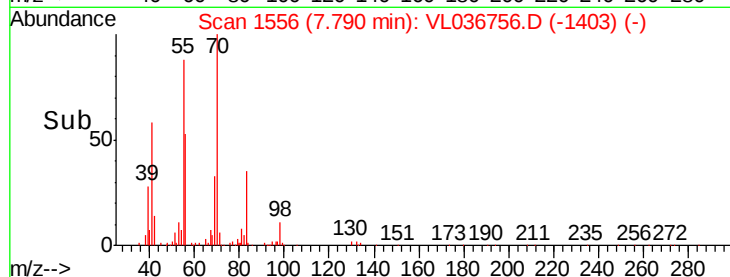
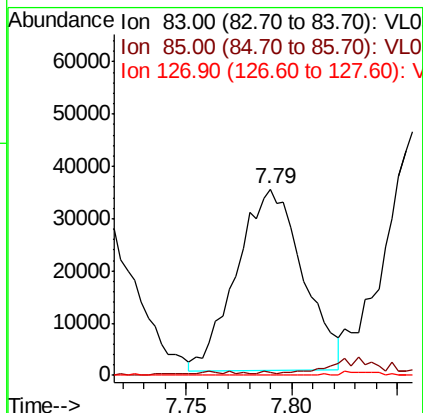
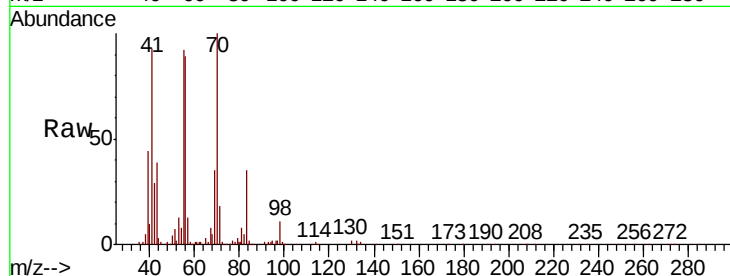
Tot Ion: 83 Resp: 76231

Ion Ratio Lower Upper

83 100

85 0.8 51.8 77.6#

127 0.0 5.8 8.8#



#43

Methyl Methacrylate

Concen: 0.044 ppbv

RT: 7.99 min Scan# 1617

Delta R.T. -0.03 min

Lab File: VL036756.D

Acq: 8 Apr 2021 18:40

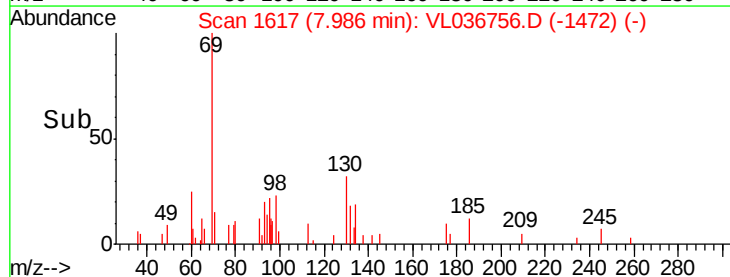
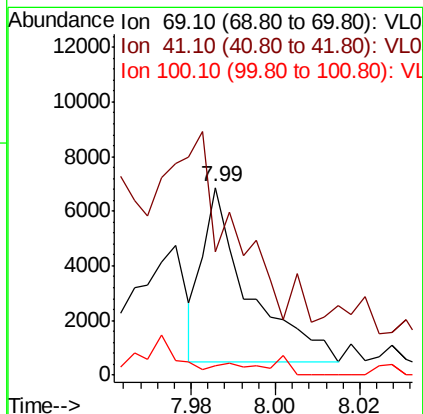
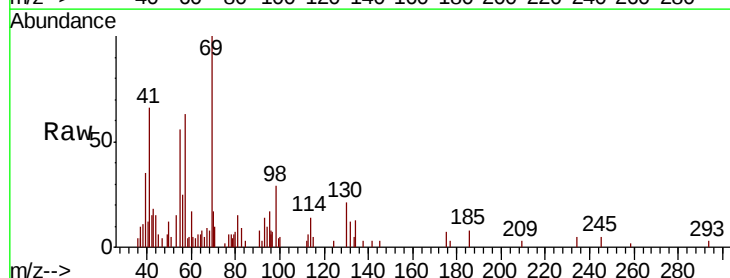
Tgt Ion: 69 Resp: 4832

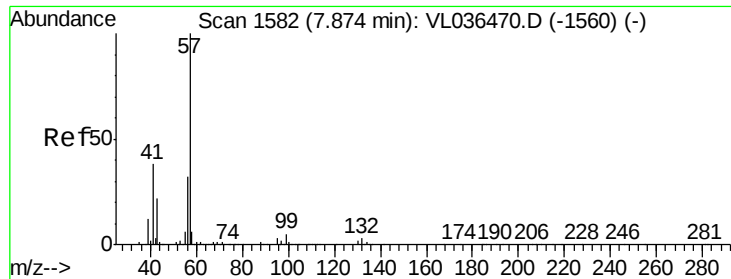
Ion Ratio Lower Upper

69 100

41 0.0 126.8 190.2#

100 0.0 24.9 37.3#





#44

2,2,4-Trimethylpentane

Concen: 5.166 ppbv

RT: 7.87 min Scan# 1580

Delta R.T. -0.01 min

Lab File: VL036756.D

Acq: 8 Apr 2021 18:40

Instrument :

MSVOA_L

ClientSampleId :

SG-2DL

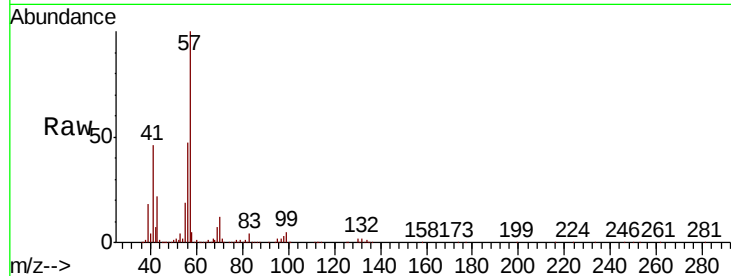
Tot Ion: 57 Resp: 3005170

Ion Ratio Lower Upper

57 100

41 48.3 28.8 43.2#

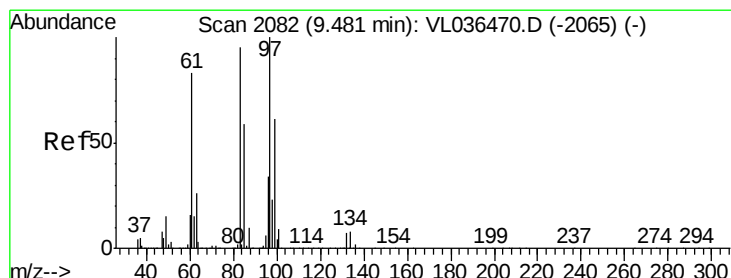
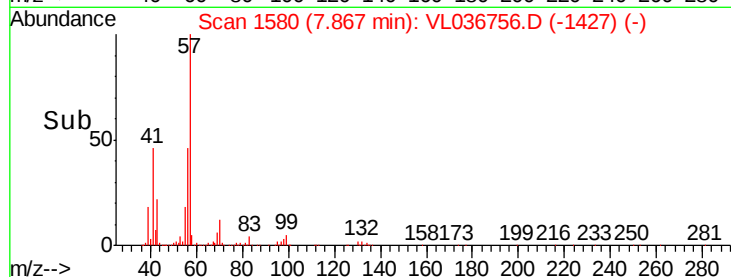
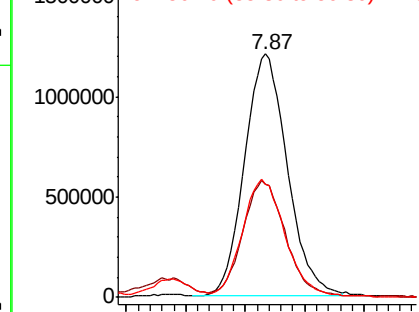
56 49.7 26.1 39.1#



Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 56.10 (55.80 to 56.80): VL0



#47

1,1,2-Trichloroethane

Concen: 0.234 ppbv

RT: 9.56 min Scan# 2108

Delta R.T. 0.08 min

Lab File: VL036756.D

Acq: 8 Apr 2021 18:40

Tgt Ion: 97 Resp: 31798

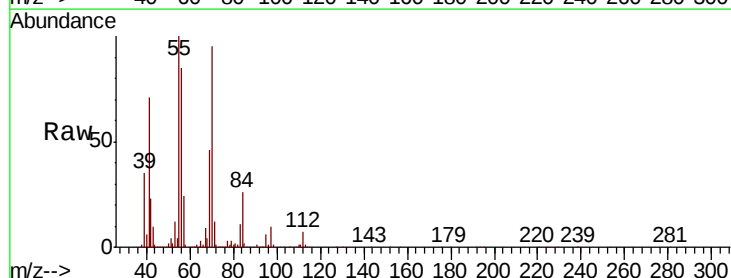
Ion Ratio Lower Upper

97 100

83 109.6 75.8 113.8

85 20.0 47.1 70.7#

99 0.0 49.2 73.8#

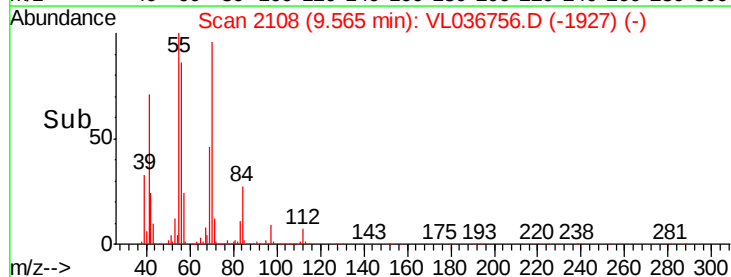
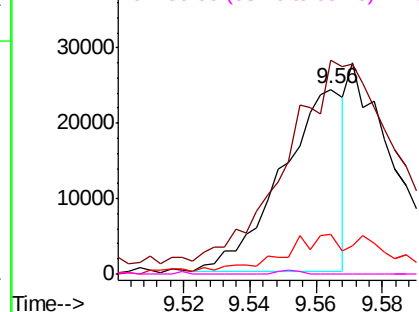


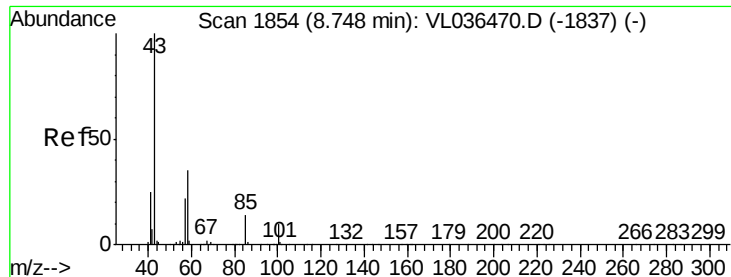
Abundance Ion 97.00 (96.70 to 97.70): VL0

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

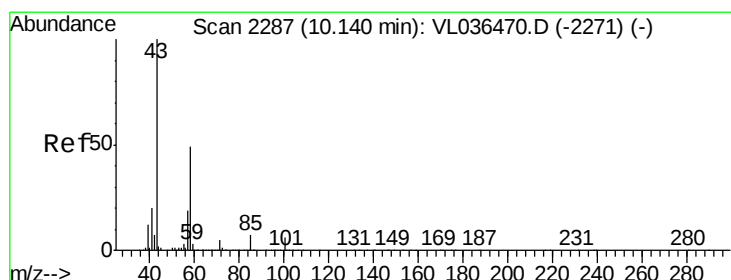
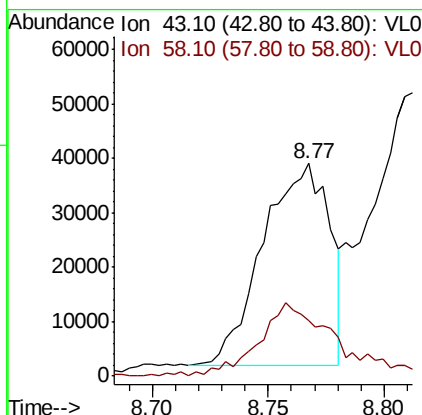
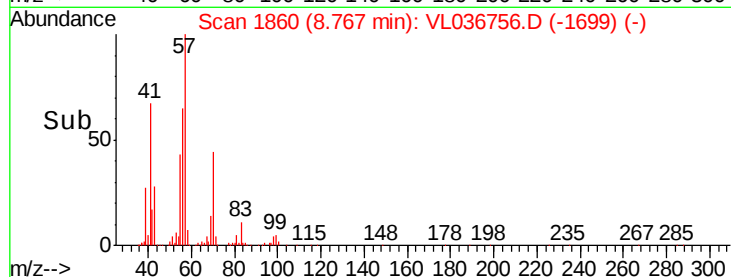
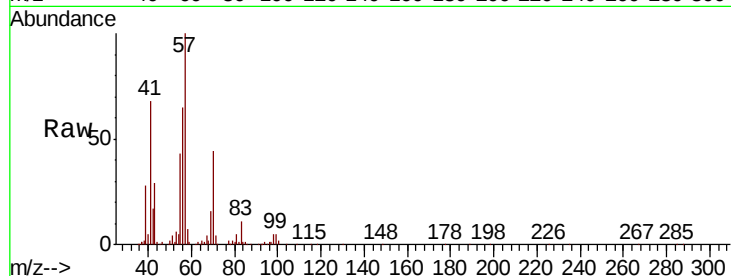




#50
4-Methyl-2-Pentanone
Concen: 0.291 ppbv
RT: 8.77 min Scan# 1860
Delta R.T. 0.02 min
Lab File: VL036756.D
Acq: 8 Apr 2021 18:40

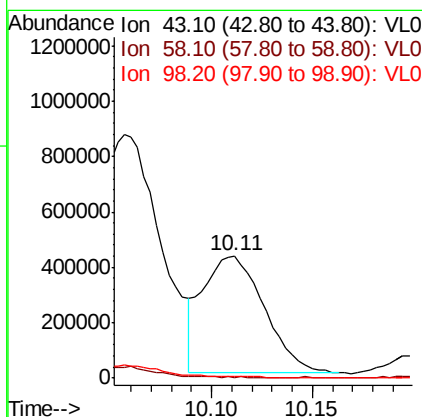
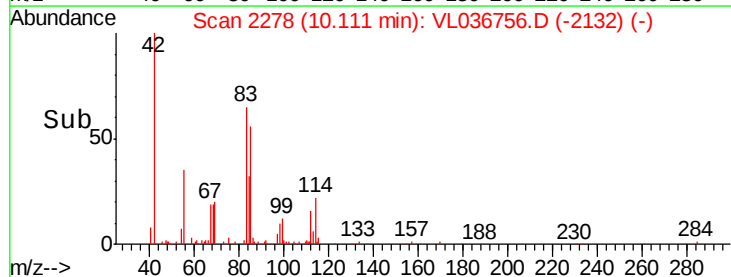
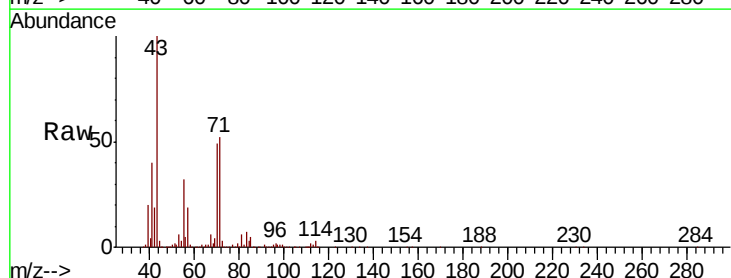
Instrument :
MSVOA_L
ClientSampleId :
SG-2DL

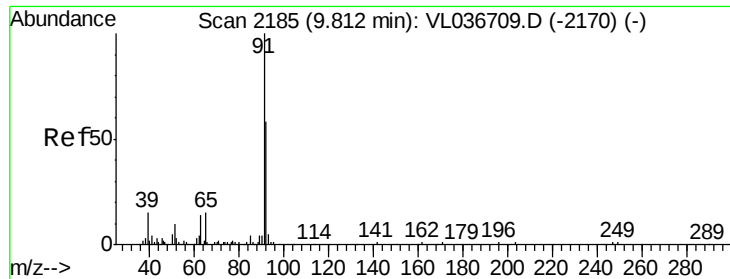
Tot Ion: 43 Resp: 73720
Ion Ratio Lower Upper
43 100
58 42.4 28.2 42.2#



#51
2-Hexanone
Concen: 7.031 ppbv
RT: 10.11 min Scan# 2278
Delta R.T. -0.03 min
Lab File: VL036756.D
Acq: 8 Apr 2021 18:40

Tgt Ion: 43 Resp: 898144
Ion Ratio Lower Upper
43 100
58 0.5 37.7 56.5#
98 0.0 0.2 0.2#





#53

Toluene

Concen: 0.272 ppbv

RT: 9.80 min Scan# 2181

Delta R.T. -0.01 min

Lab File: VL036756.D

Acq: 8 Apr 2021 18:40

Instrument :

MSVOA_L

ClientSampleId :

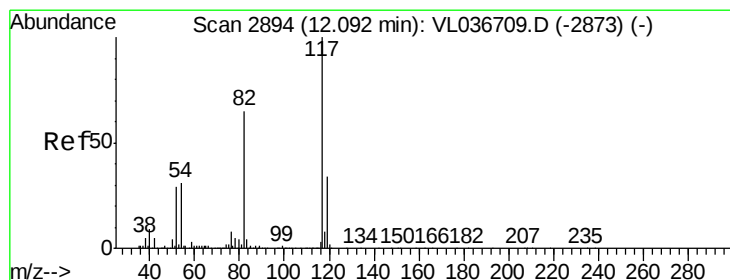
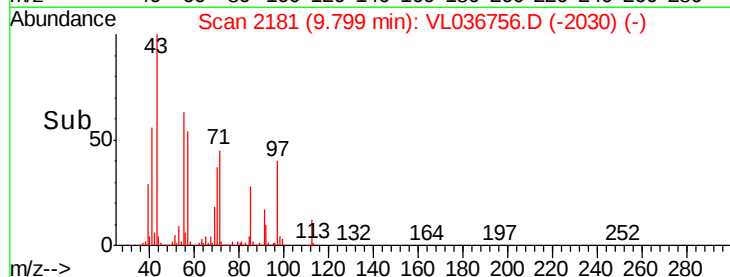
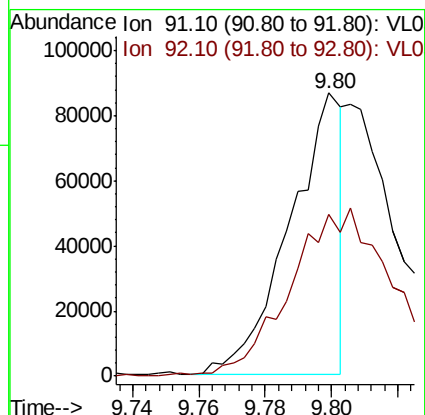
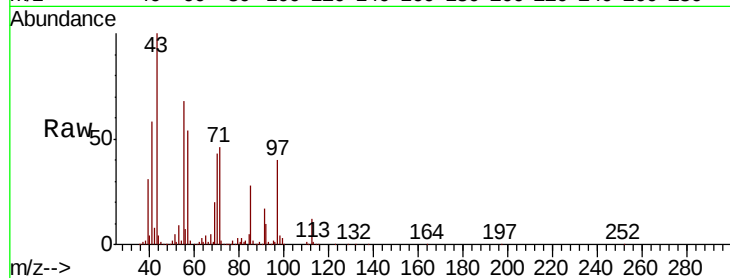
SG-2DL

Tot Ion: 91 Resp: 95828

Ion Ratio Lower Upper

91 100

92 0.0 48.8 73.2#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.09 min Scan# 2892

Delta R.T. -0.01 min

Lab File: VL036756.D

Acq: 8 Apr 2021 18:40

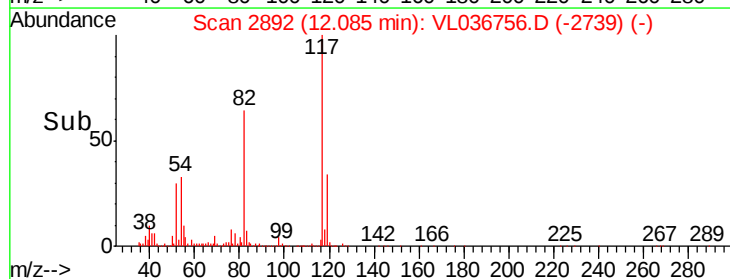
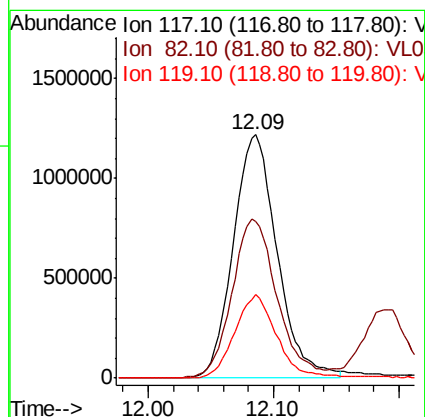
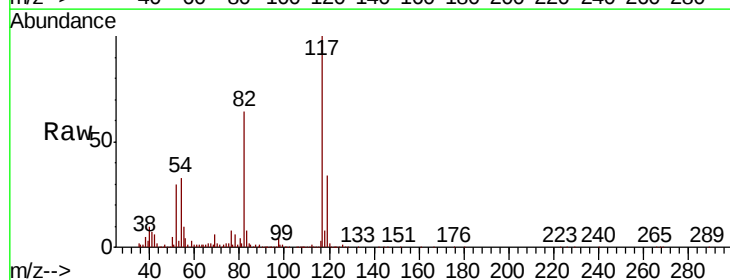
Tgt Ion: 117 Resp: 2960578

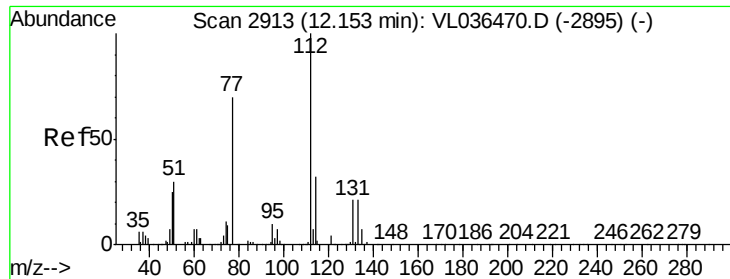
Ion Ratio Lower Upper

117 100

82 67.1 57.4 86.0

119 33.8 47.4 71.0#





#57

Chlorobenzene

Concen: 0.080 ppbv

RT: 12.14 min Scan# 2909

Delta R.T. -0.01 min

Lab File: VL036756.D

Acq: 8 Apr 2021 18:40

Instrument :

MSVOA_L

ClientSampleId :

SG-2DL

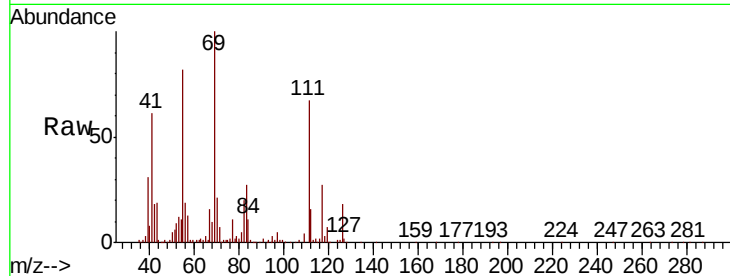
Tot Ion:112 Resp: 20203

Ion Ratio Lower Upper

112 100

77 71.6 56.0 84.0

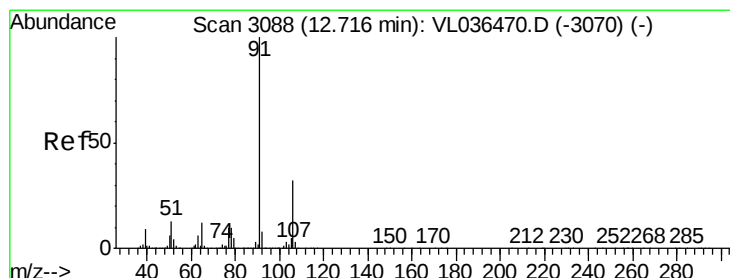
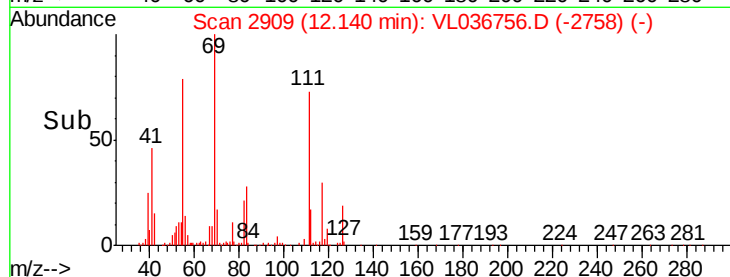
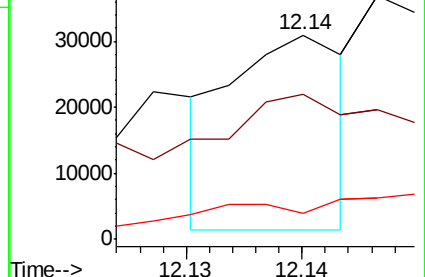
114 1.9 29.0 35.4#



Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 0.542 ppbv

RT: 12.71 min Scan# 3086

Delta R.T. -0.01 min

Lab File: VL036756.D

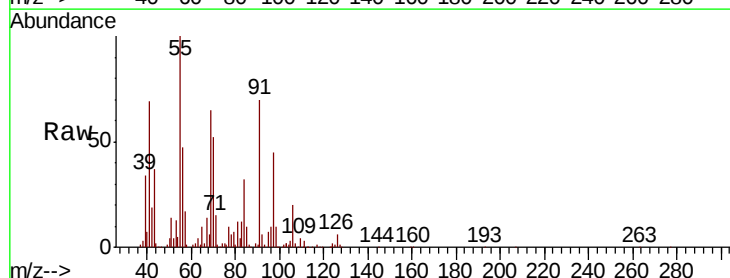
Acq: 8 Apr 2021 18:40

Tgt Ion: 91 Resp: 233544

Ion Ratio Lower Upper

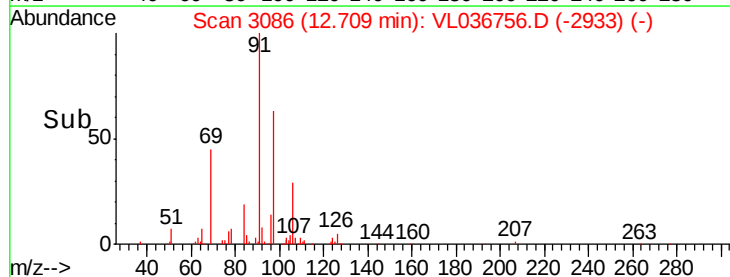
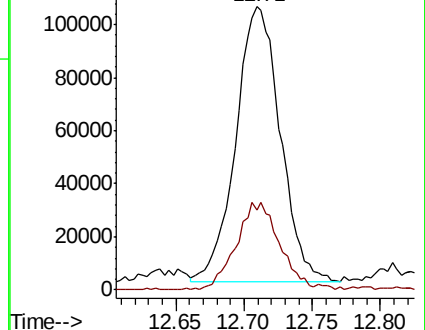
91 100

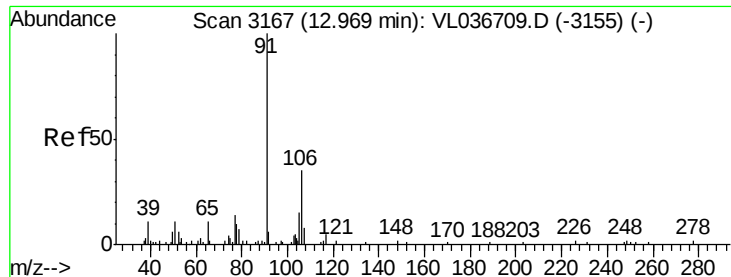
106 28.9 25.3 37.9



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

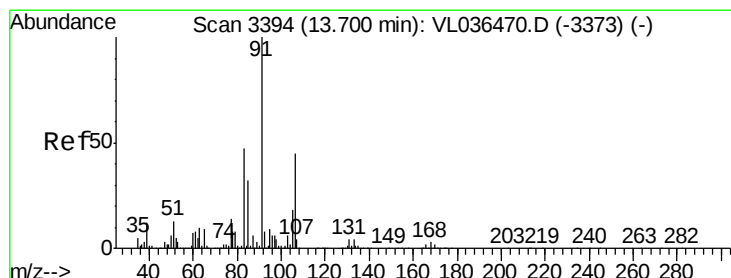
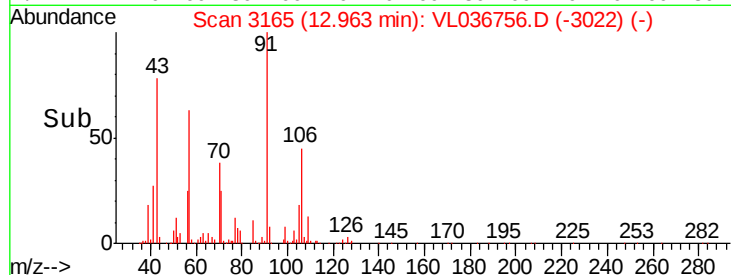
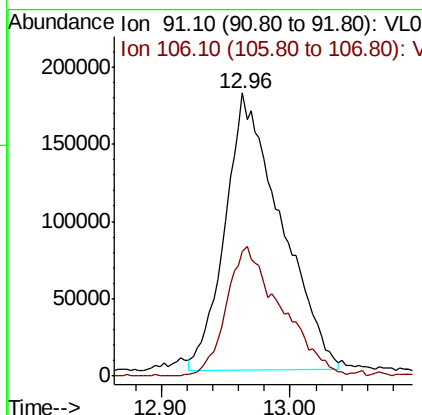
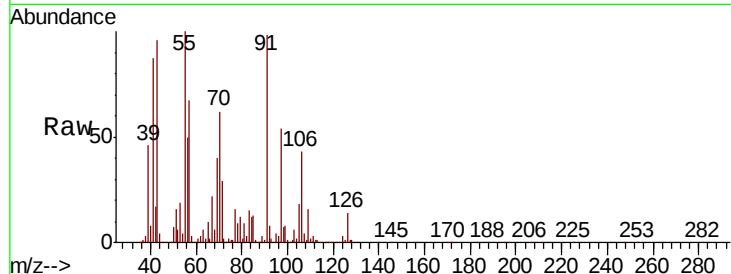




#59
m/p-Xylene
Concen: 1.433 ppbv
RT: 12.96 min Scan# 3165
Delta R.T. -0.04 min
Lab File: VL036756.D
Acq: 8 Apr 2021 18:40

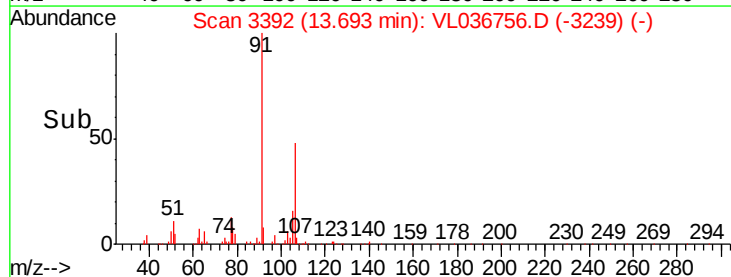
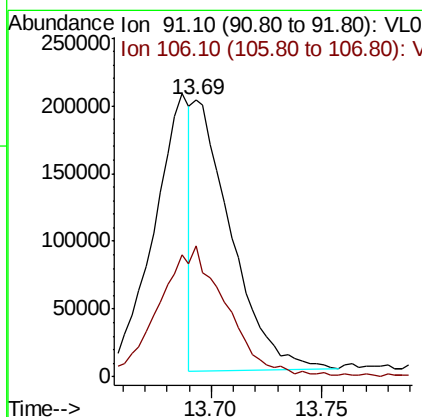
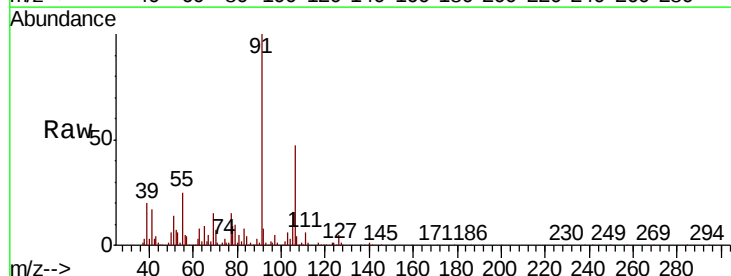
Instrument :
MSVOA_L
ClientSampleId :
SG-2DL

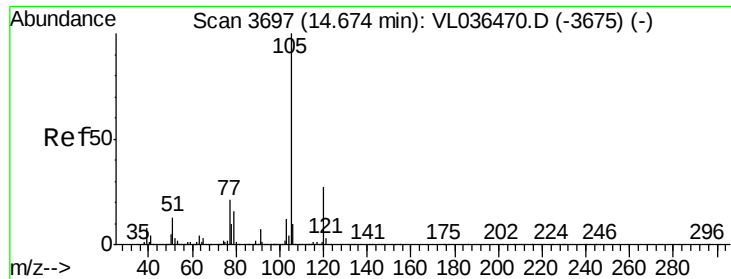
Tot Ion: 91 Resp: 538500
Ion Ratio Lower Upper
91 100
106 47.4 35.3 52.9



#60
o-Xylene
Concen: 0.655 ppbv
RT: 13.69 min Scan# 3392
Delta R.T. -0.01 min
Lab File: VL036756.D
Acq: 8 Apr 2021 18:40

Tgt Ion: 91 Resp: 237902
Ion Ratio Lower Upper
91 100
106 90.0 22.3 66.9#





#62

Isopropylbenzene

Concen: 0.147 ppbv

RT: 14.67 min Scan# 3695

Delta R.T. -0.01 min

Lab File: VL036756.D

Acq: 8 Apr 2021 18:40

Instrument :

MSVOA_L

ClientSampleId :

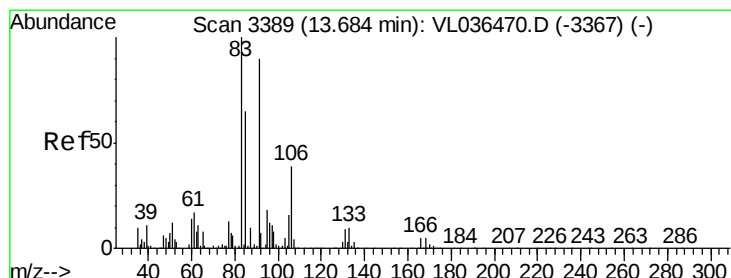
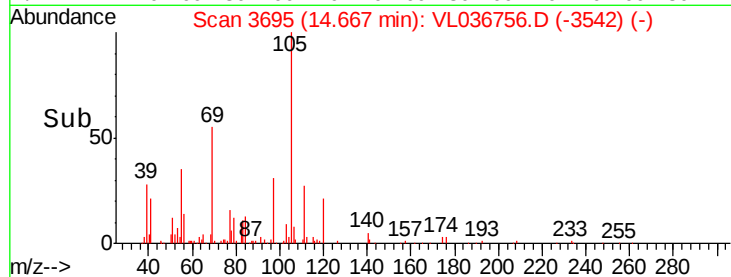
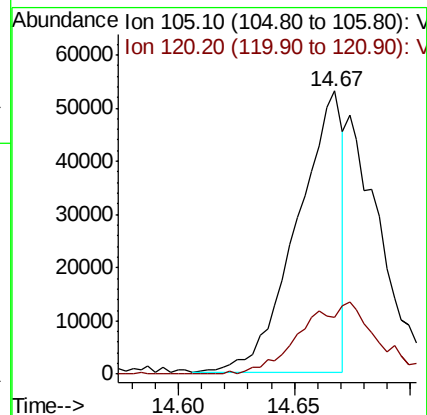
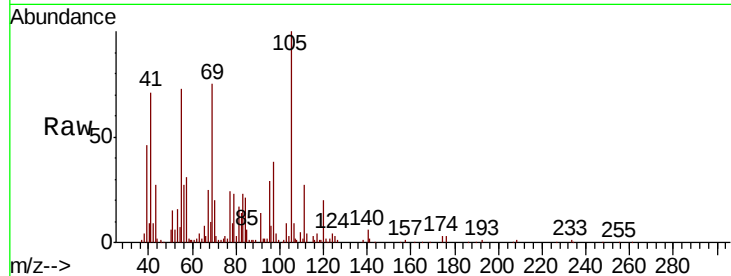
SG-2DL

Tot Ion:105 Resp: 71763

Ion Ratio Lower Upper

105 100

120 0.0 20.6 31.0#



#63

1,1,2,2-Tetrachloroethane

Concen: 0.054 ppbv

RT: 13.67 min Scan# 3384

Delta R.T. -0.02 min

Lab File: VL036756.D

Acq: 8 Apr 2021 18:40

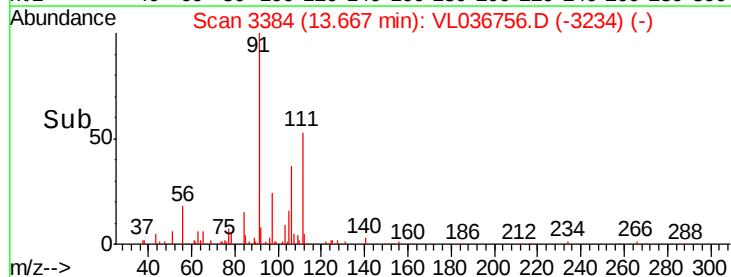
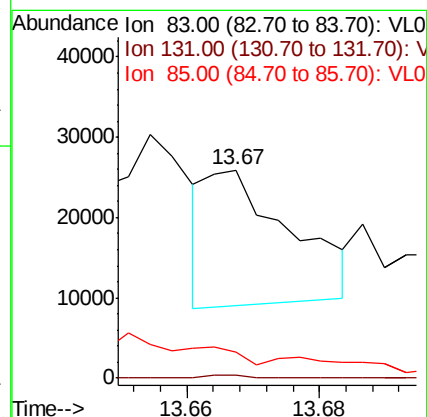
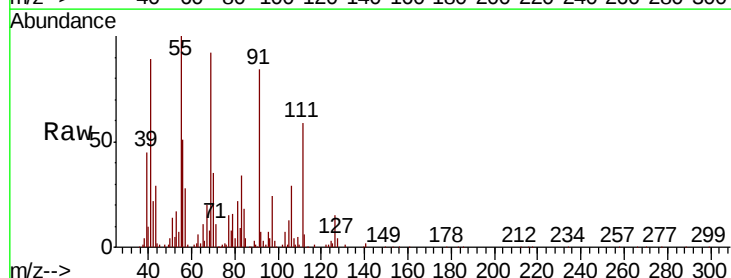
Tgt Ion: 83 Resp: 14907

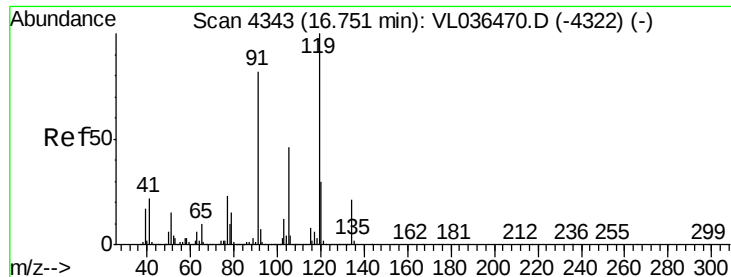
Ion Ratio Lower Upper

83 100

131 1.1 4.7 14.0#

85 0.0 33.1 99.3#





#65

tert-Butylbenzene

Concen: 0.052 ppbv

RT: 16.75 min Scan# 4343

Delta R.T. -0.00 min

Lab File: VL036756.D

Acq: 8 Apr 2021 18:40

Instrument :

MSVOA_L

ClientSampleId :

SG-2DL

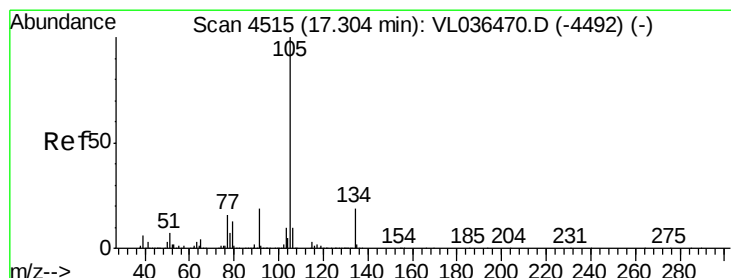
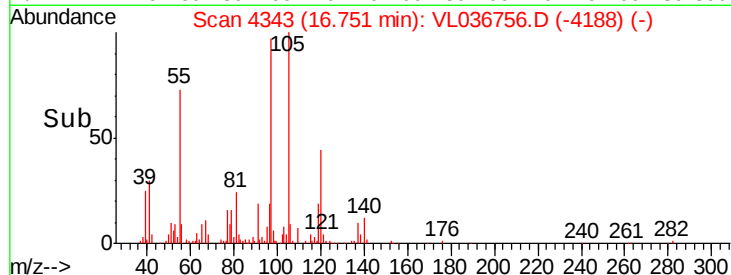
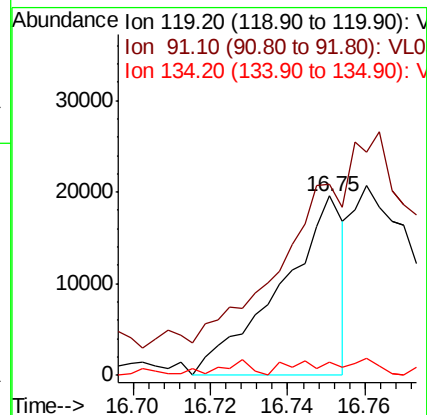
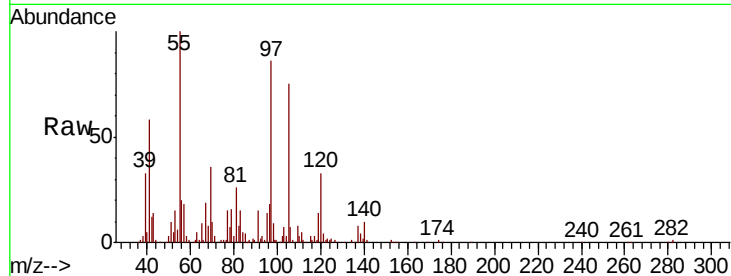
Tot Ion:119 Resp: 22070

Ion Ratio Lower Upper

119 100

91 0.0 67.5 101.3#

134 0.0 15.8 23.8#



#67

sec-Butylbenzene

Concen: 0.130 ppbv

RT: 17.29 min Scan# 4511

Delta R.T. -0.01 min

Lab File: VL036756.D

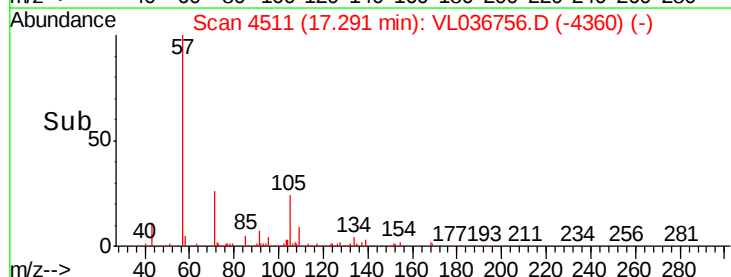
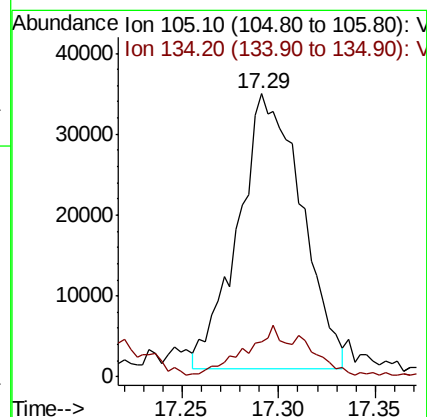
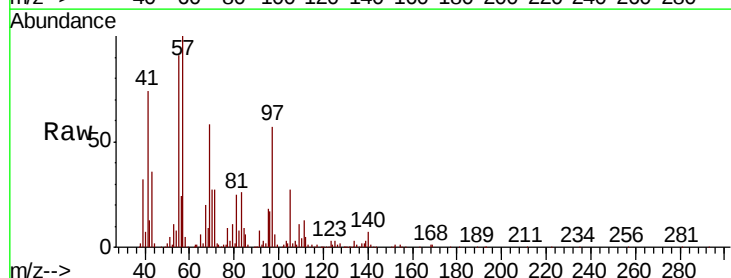
Acq: 8 Apr 2021 18:40

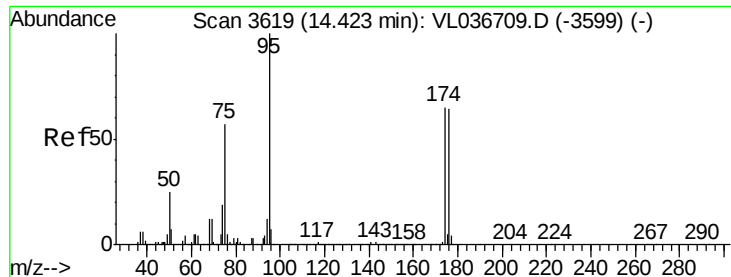
Tgt Ion:105 Resp: 77584

Ion Ratio Lower Upper

105 100

134 19.3 14.7 22.1

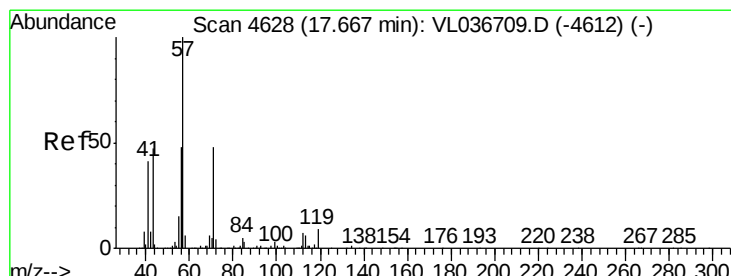
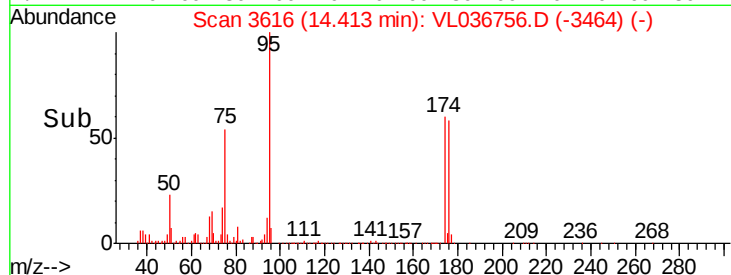
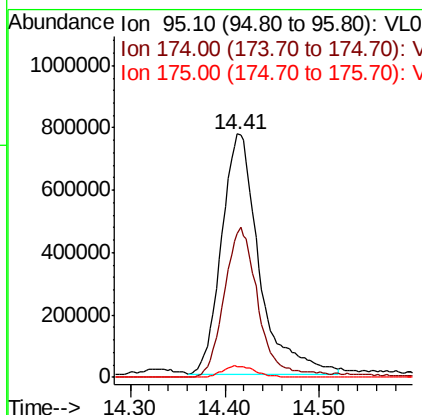
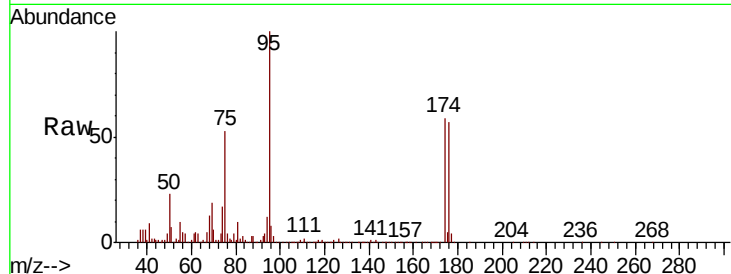




#68
1-Bromo-4-Fluorobenzene
Concen: 9.017 ppbv
RT: 14.41 min Scan# 3616
Delta R.T. -0.01 min
Lab File: VL036756.D
Acq: 8 Apr 2021 18:40

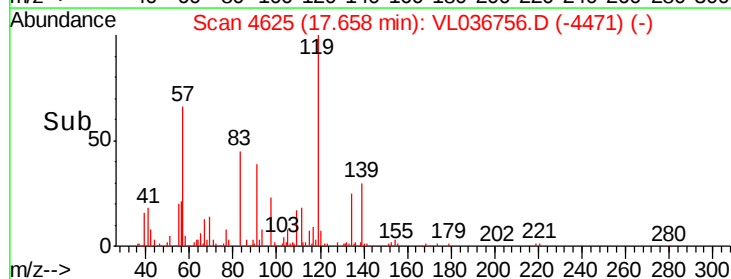
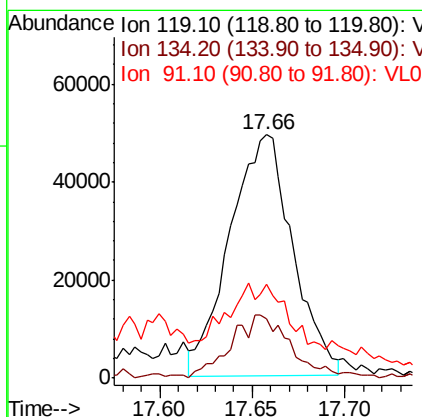
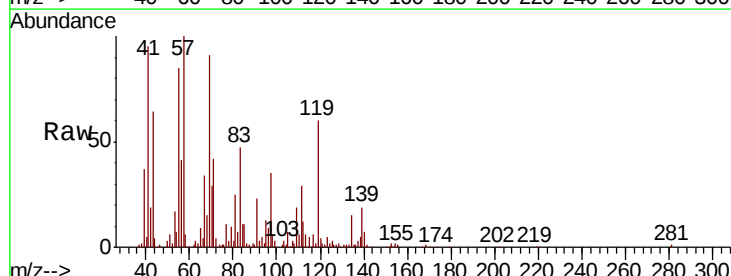
Instrument :
MSVOA_L
ClientSampleId :
SG-2DL

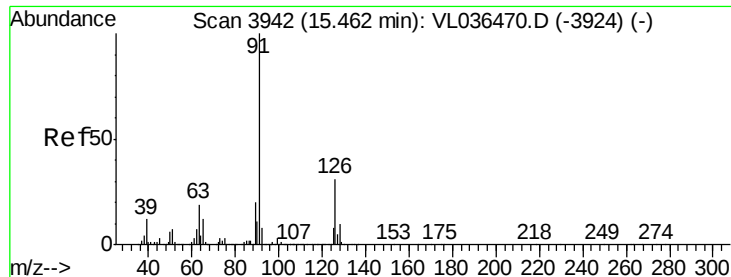
Tot Ion: 95 Resp: 2127545
Ion Ratio Lower Upper
95 100
174 59.1 51.0 76.6
175 4.4 3.9 5.9



#69
p-Isopropyltoluene
Concen: 0.249 ppbv
RT: 17.66 min Scan# 4625
Delta R.T. -0.00 min
Lab File: VL036756.D
Acq: 8 Apr 2021 18:40

Tgt Ion: 119 Resp: 116610
Ion Ratio Lower Upper
119 100
134 26.4 20.6 30.8
91 41.3 25.0 37.6#





#71

2-Chlorotoluene

Concen: 0.442 ppbv

RT: 15.32 min Scan# 3899

Delta R.T. -0.14 min

Lab File: VL036756.D

Acq: 8 Apr 2021 18:40

Instrument :

MSVOA_L

ClientSampleId :

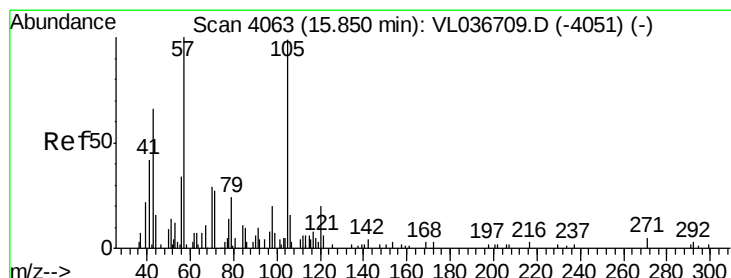
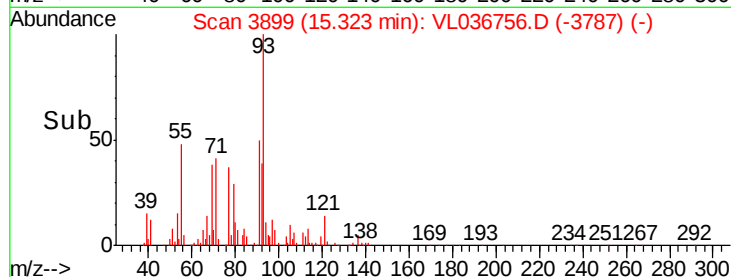
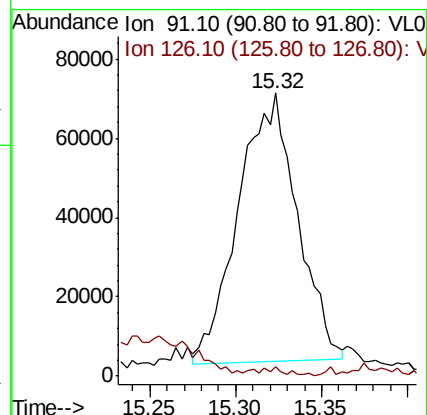
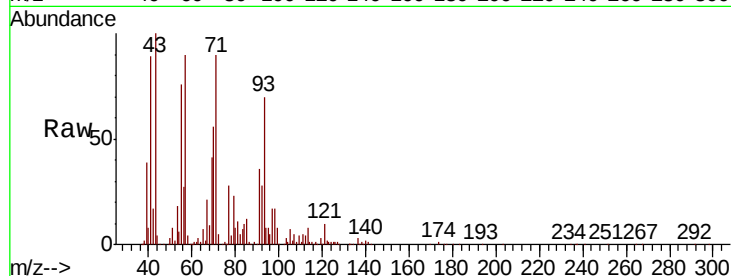
SG-2DL

Tot Ion: 91 Resp: 162048

Ion Ratio Lower Upper

91 100

126 19.4 12.1 48.5



#72

4-Ethyltoluene

Concen: 0.202 ppbv

RT: 15.84 min Scan# 4059

Delta R.T. -0.01 min

Lab File: VL036756.D

Acq: 8 Apr 2021 18:40

Tgt Ion:105 Resp: 80325

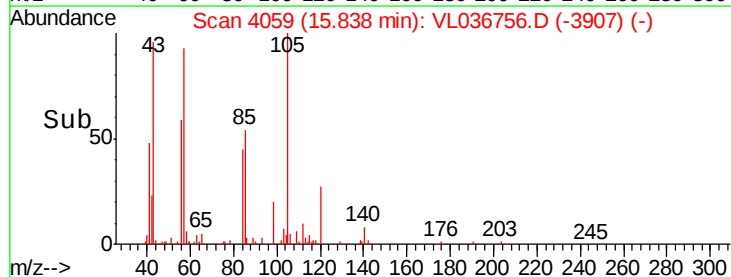
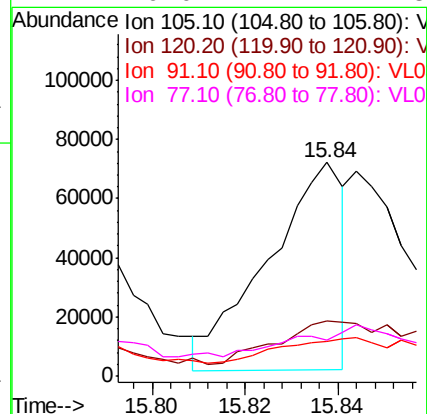
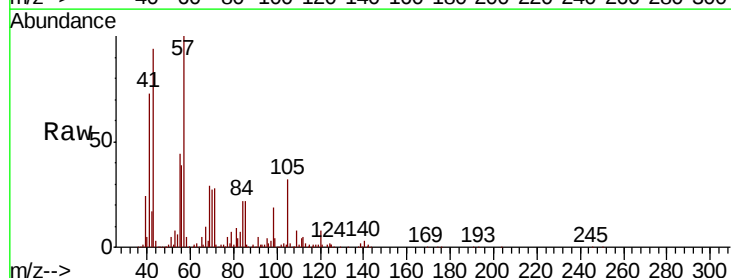
Ion Ratio Lower Upper

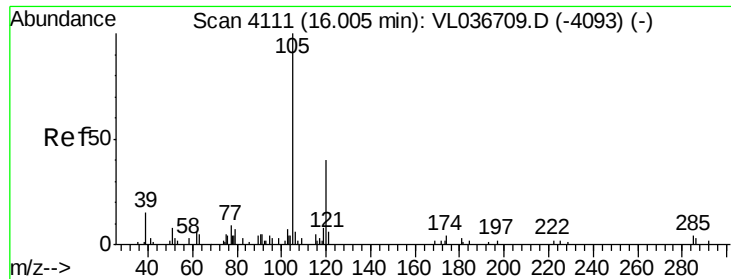
105 100

120 56.8 24.0 36.0#

91 0.0 11.0 16.4#

77 0.0 11.7 17.5#





#73

1,3,5-Trimethylbenzene

Concen: 0.667 ppbv

RT: 16.00 min Scan# 4110

Delta R.T. -0.01 min

Lab File: VL036756.D

Acq: 8 Apr 2021 18:40

Instrument :

MSVOA_L

ClientSampleId :

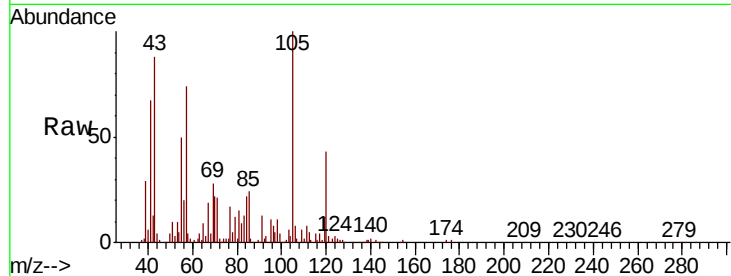
SG-2DL

Tot Ion:105 Resp: 247795

Ion Ratio Lower Upper

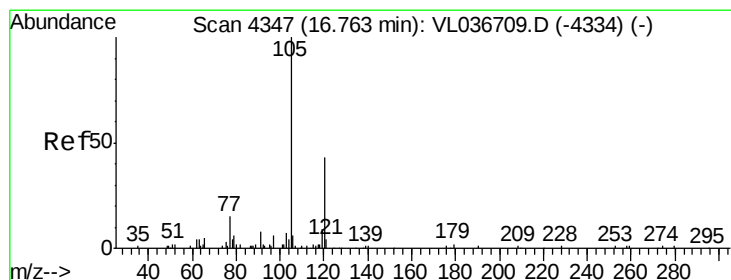
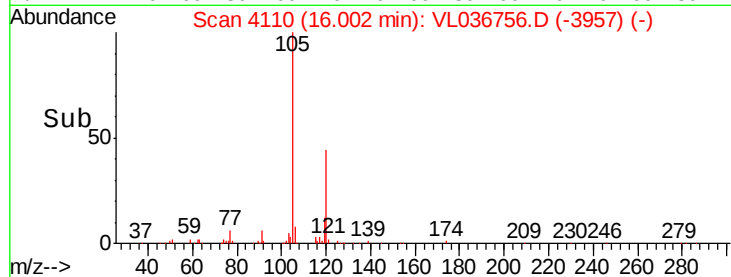
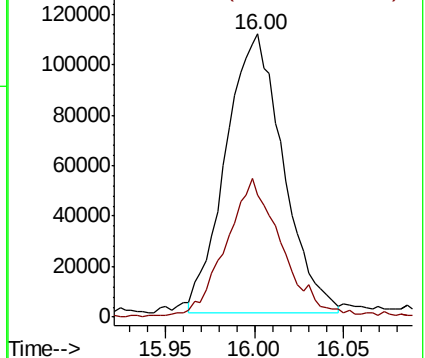
105 100

120 42.2 36.6 54.8



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 0.548 ppbv

RT: 16.76 min Scan# 4346

Delta R.T. -0.01 min

Lab File: VL036756.D

Acq: 8 Apr 2021 18:40

Tgt Ion:105 Resp: 217683

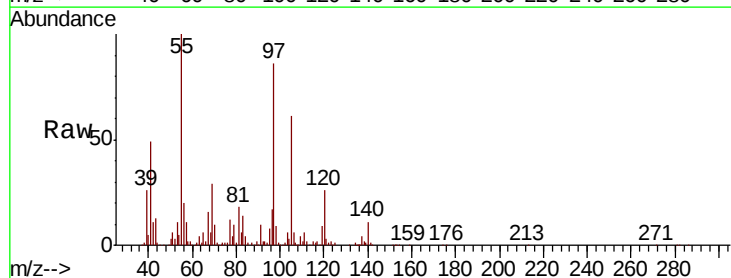
Ion Ratio Lower Upper

105 100

120 42.6 39.2 58.8

91 13.1 42.6 64.0#

77 16.8 18.6 28.0#

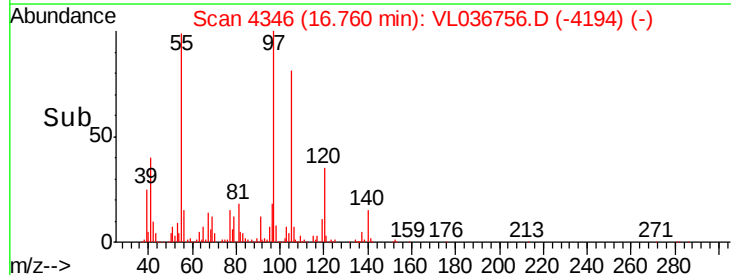
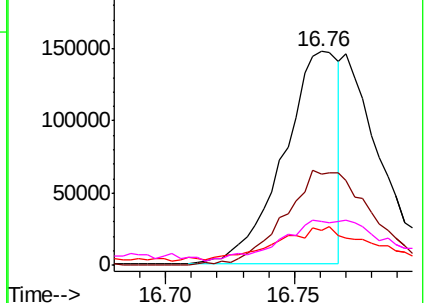


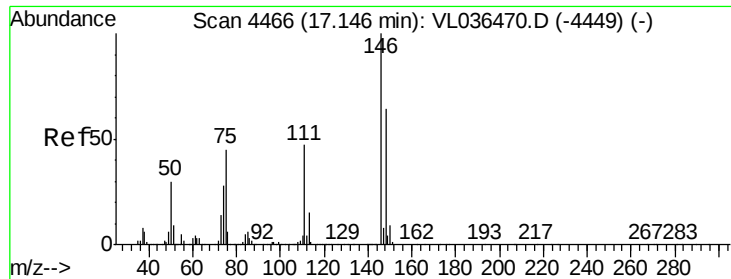
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0





#76

1,4-Dichlorobenzene

Concen: 0.031 ppbv

RT: 17.14 min Scan# 4463

Delta R.T. -0.01 min

Lab File: VL036756.D

Acq: 8 Apr 2021 18:40

Instrument :

MSVOA_L

ClientSampleId :

SG-2DL

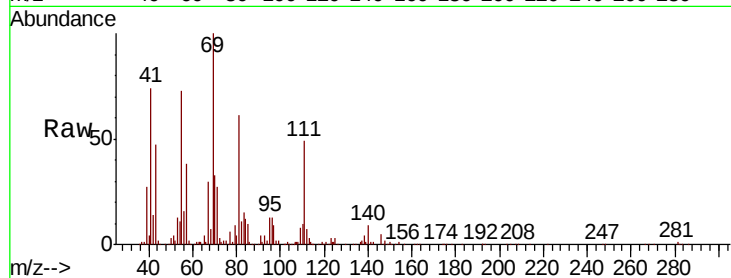
Tot Ion:146 Resp: 6826

Ion Ratio Lower Upper

146 100

111 2033.4 24.3 72.8#

148 129.9 33.0 98.9#



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V

