

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL040821\
 Data File : VL036762.D
 Acq On : 8 Apr 2021 23:10
 Operator : SY/AP
 Sample : M1981-04
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SG-1

Quant Time: Apr 09 08:41:53 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	5.67	49	1289836	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	3205071	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.08	117	2622211	10.00	ppbv	-0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.41	95	1640501	7.85	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	78.50%

Target Compounds

					Ovalue
3) Chlorodifluoromethane	2.99	51	4583167	19.018	ppbv # 60
4) Chloromethane	3.13	50	176614	2.075	ppbv # 82
5) Vinyl Chloride	3.25	62	5625	0.064	ppbv # 88
6) Bromomethane	3.49	94	42136	0.874	ppbv # 11
7) Chloroethane	3.49	64	100944	3.356	ppbv # 51
8) Dichlorotetrafluoroethane	3.04	85	19869	0.099	ppbv 85
9) Propene	3.00	41	1348946	17.558	ppbv 96
10) Heptane	8.12	43	92539	0.473	ppbv 93
11) Trichlorofluoromethane	3.94	101	38251	0.178	ppbv 85
12) 1,1,2-Trichlorotrifluoroet	4.48	101	9782	0.071	ppbv # 82
13) Ethanol	3.62	45	563224	61.563	ppbv 98
14) Bromoethene	3.75	108	2090	0.037	ppbv # 1
15) Acetone	3.85	43	18808092	148.154	ppbv # 80
16) 1,3-Butadiene	3.34	39	304331	3.443	ppbv # 13
17) tert-Butyl alcohol	4.26	59	1463065	13.239	ppbv # 1
19) Isopropyl Alcohol	3.98	45	324420	4.646	ppbv # 1
20) Methylene Chloride	4.35	84	4234230	71.237	ppbv 96
21) Allyl Chloride	4.40	41	6041	0.060	ppbv # 17
23) Vinyl Acetate	5.10	43	143010	0.659	ppbv # 43
24) 1,1-Dichloroethane	5.01	63	5322	0.034	ppbv # 80
25) Ethyl Acetate	5.68	43	3001040	9.943	ppbv # 79
26) Hexane	5.68	57	3977076	28.395	ppbv # 47
27) Carbon Disulfide	4.54	76	348372	2.525	ppbv 98
28) Methyl tert-Butyl Ether	5.03	73	4962	0.030	ppbv # 52
30) Cyclohexane	7.13	84	24111	0.212	ppbv # 1
31) cis-1,2-Dichloroethene	5.56	61	15094	0.111	ppbv 93
32) 1,1,1-Trichloroethane	6.51	97	7141	0.032	ppbv # 19
34) 2-Butanone	5.24	43	2214945	14.158	ppbv 99
35) Carbon Tetrachloride	7.02	117	10903	0.044	ppbv # 77
36) Benzene	6.89	78	952864	3.224	ppbv 100
38) Trichloroethene	7.83	130	7634	0.066	ppbv 87
39) 1,2-Dichloropropane	7.18	63	833607	6.952	ppbv # 24
41) Tetrahydrofuran	6.31	42	22159	0.307	ppbv # 43
44) 2,2,4-Trimethylpentane	7.87	57	97206	0.187	ppbv # 1
50) 4-Methyl-2-Pentanone	8.74	43	557190	2.461	ppbv 98
51) 2-Hexanone	10.13	43	130364	1.141	ppbv # 92
53) Toluene	9.80	91	761616	2.419	ppbv 99
56) 1,1,1,2-Tetrachloroethane	12.35	131	29530	0.249	ppbv # 9
57) Chlorobenzene	12.14	112	80683	0.362	ppbv # 74
58) Ethyl Benzene	12.70	91	205450	0.539	ppbv 96
59) m/p-Xylene	12.96	91	343134	1.031	ppbv 95

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

60) o-Xylene	13.69	91	111536	0.347	ppbv #	14
61) Styrene	13.53	104	7267	0.045	ppbv #	1
62) Isopropylbenzene	14.66	105	34488	0.080	ppbv #	49
65) tert-Butylbenzene	16.99	119	1065394	2.836	ppbv #	23
66) Benzyl Chloride	16.98	91	9596	0.231	ppbv #	66
67) sec-Butylbenzene	17.00	105	99426	0.187	ppbv	95
69) p-Isopropyltoluene	17.64	119	66958	0.162	ppbv #	41
71) 2-Chlorotoluene	15.56	91	30062	0.093	ppbv	90
72) 4-Ethyltoluene	15.83	105	59625	0.169	ppbv #	82
73) 1,3,5-Trimethylbenzene	15.99	105	117574	0.357	ppbv	93
74) 1,2,4-Trimethylbenzene	16.75	105	187100	0.531	ppbv #	68
75) 1,3-Dichlorobenzene	16.99	146	16961	0.086	ppbv #	1
76) 1,4-Dichlorobenzene	17.13	146	12429	0.063	ppbv #	1
79) Naphthalene	22.18	128	9158	0.045	ppbv #	82
81) 1,2,4-Trichlorobenzene	21.52	180	20658	0.163	ppbv #	12

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

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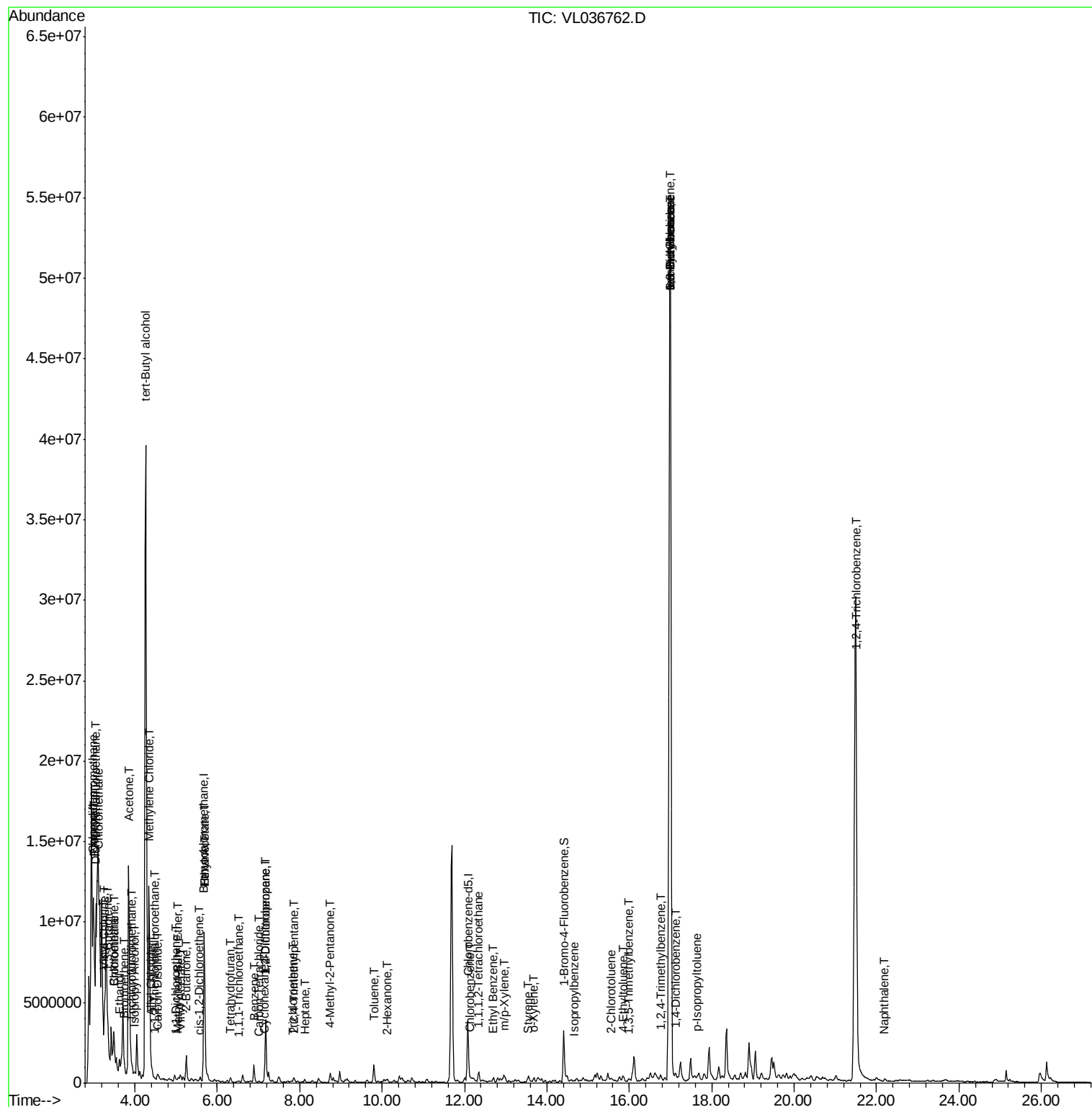
Quant Time: Apr 09 08:41:53 2021

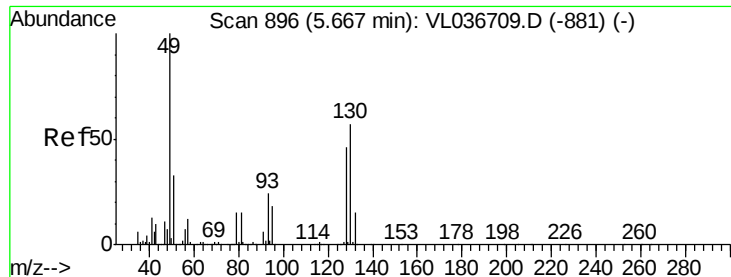
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032521AIR.M

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QLast Update : Thu Mar 25 09:42:40 2021

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 min Scan# 896

Delta R.T. -0.00 min

Lab File: VL036762.D

Acq: 8 Apr 2021 23:10

Instrument :

MSVOA_L

ClientSampleId :

SG-1

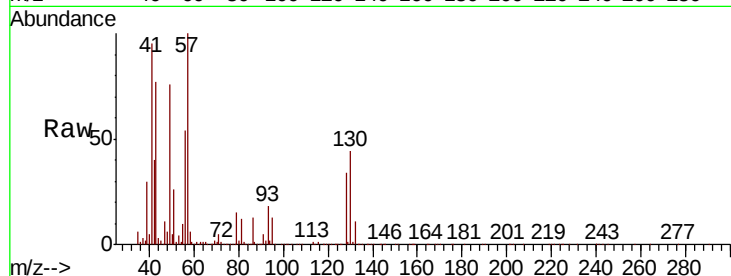
Tot Ion: 49 Resp: 1289836

Ion Ratio Lower Upper

49 100

128 46.4 23.5 70.6

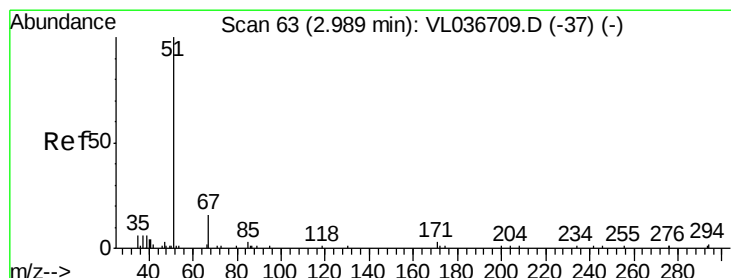
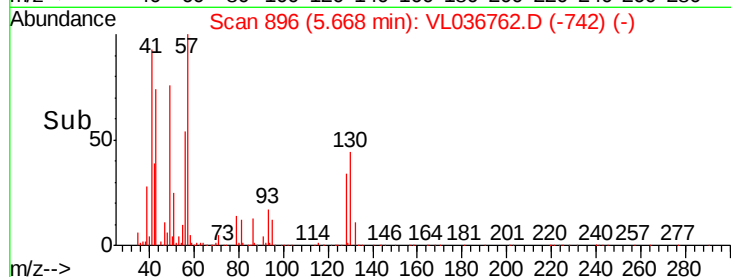
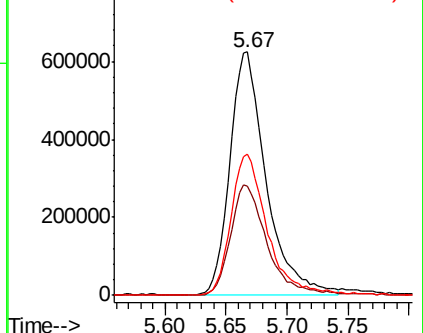
130 59.1 29.1 87.4



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



#3

Chlorodifluoromethane

Concen: 19.018 ppbv

RT: 2.99 min Scan# 62

Delta R.T. -0.00 min

Lab File: VL036762.D

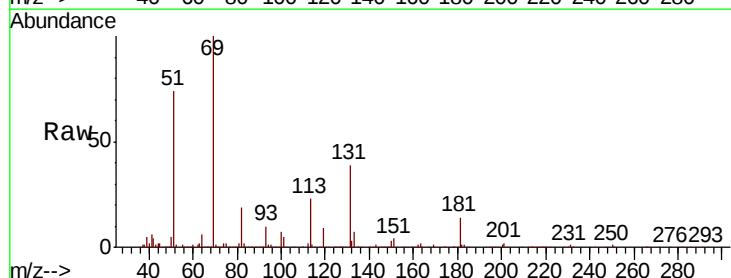
Acq: 8 Apr 2021 23:10

Tgt Ion: 51 Resp: 4583167

Ion Ratio Lower Upper

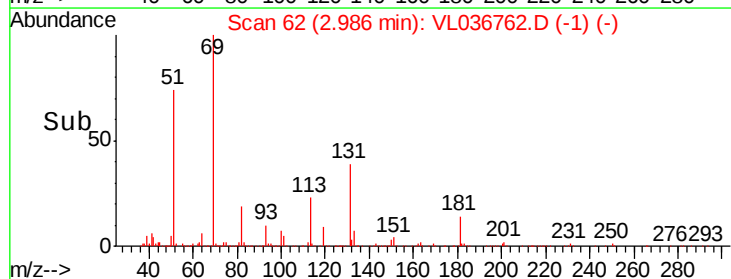
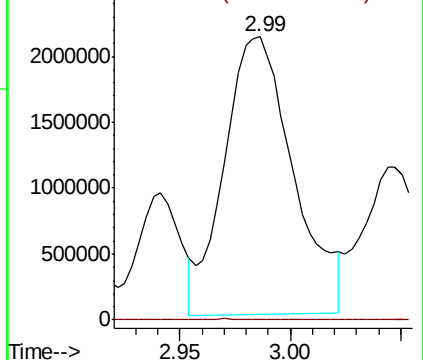
51 100

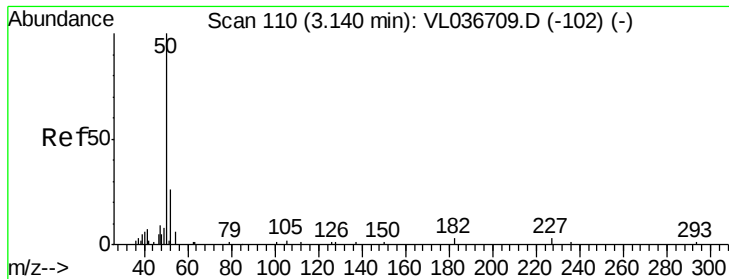
67 0.4 14.7 22.1#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#4

Chloromethane

Concen: 2.075 ppbv

RT: 3.13 min Scan# 107

Delta R.T. -0.01 min

Lab File: VL036762.D

Acq: 8 Apr 2021 23:10

Instrument :

MSVOA_L

ClientSampled :

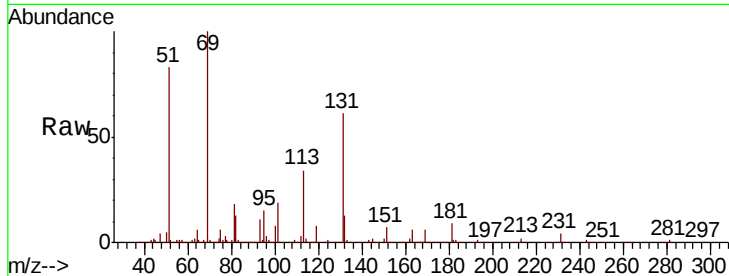
SG-1

Tot Ion: 50 Resp: 176614

Ion Ratio Lower Upper

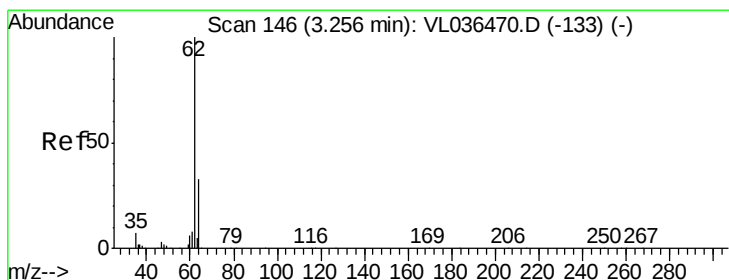
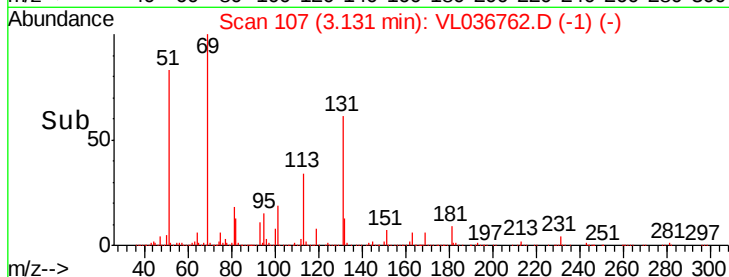
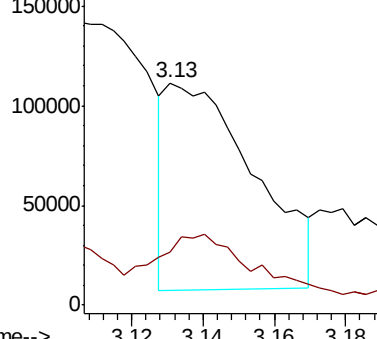
50 100

52 23.8 27.0 40.6#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0



#5

Vinyl Chloride

Concen: 0.064 ppbv

RT: 3.25 min Scan# 143

Delta R.T. -0.01 min

Lab File: VL036762.D

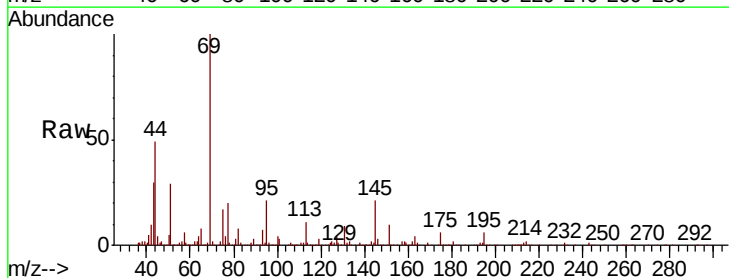
Acq: 8 Apr 2021 23:10

Tgt Ion: 62 Resp: 5625

Ion Ratio Lower Upper

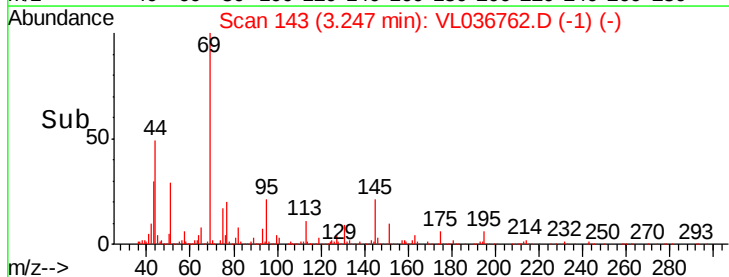
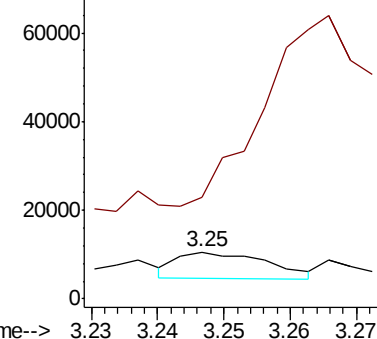
62 100

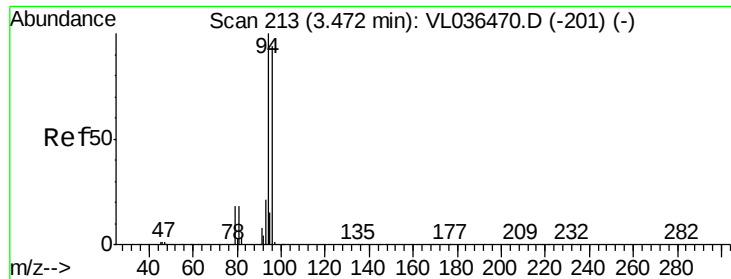
64 39.7 26.4 39.6#



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0





#6

Bromomethane

Concen: 0.874 ppbv

RT: 3.49 min Scan# 219

Delta R.T. 0.02 min

Lab File: VL036762.D

Acq: 8 Apr 2021 23:10

Instrument :

MSVOA_L

ClientSampleId :

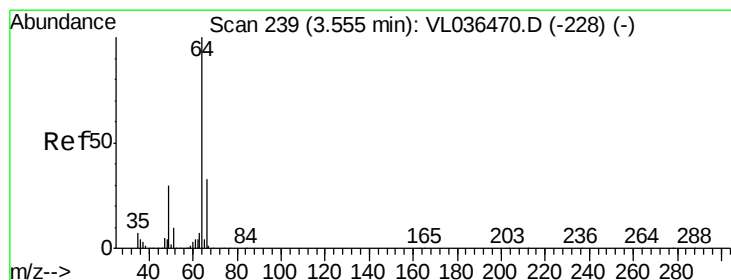
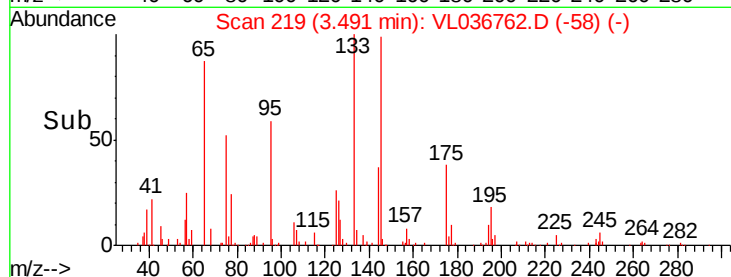
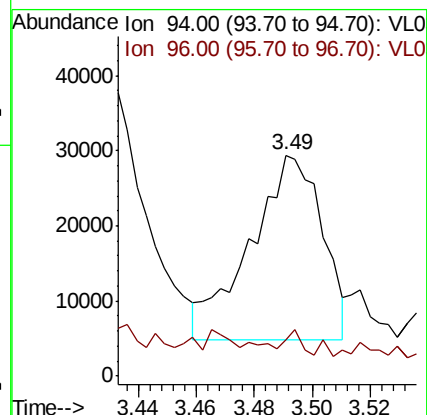
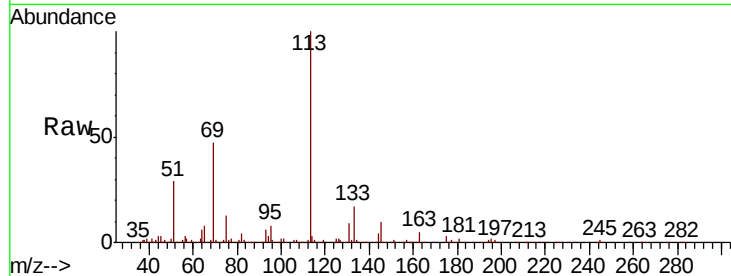
SG-1

Tot Ion: 94 Resp: 42136

Ion Ratio Lower Upper

94 100

96 7.4 74.9 112.3#



#7

Chloroethane

Concen: 3.356 ppbv

RT: 3.49 min Scan# 219

Delta R.T. -0.06 min

Lab File: VL036762.D

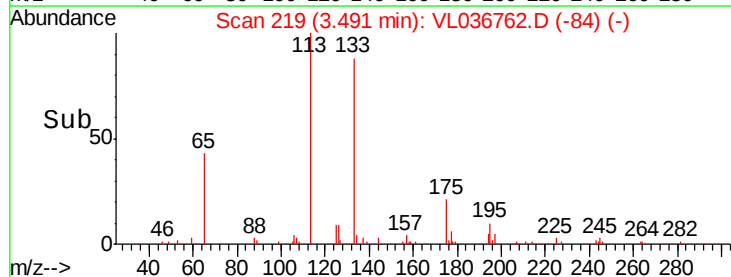
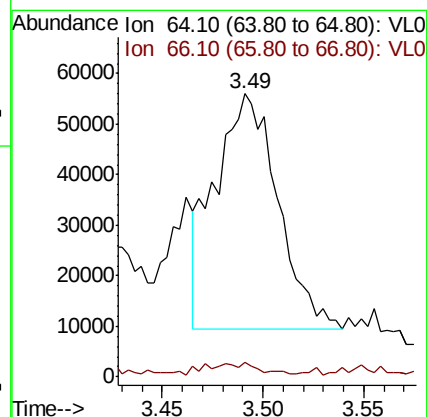
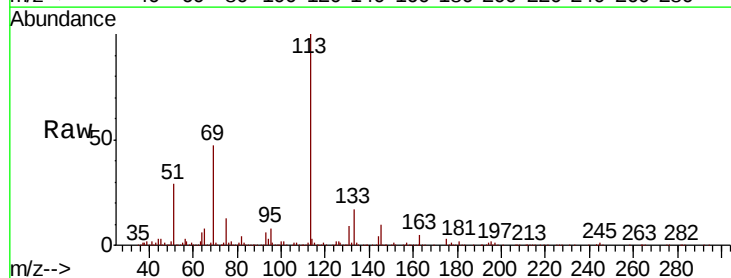
Acq: 8 Apr 2021 23:10

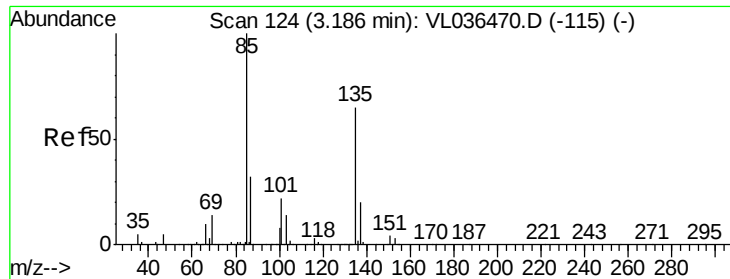
Tgt Ion: 64 Resp: 100944

Ion Ratio Lower Upper

64 100

66 5.2 26.2 39.2#





#8

Dichlorotetrafluoroethane

Concen: 0.099 ppbv

RT: 3.04 min Scan# 78

Delta R.T. -0.15 min

Lab File: VL036762.D

Acq: 8 Apr 2021 23:10

Instrument :

MSVOA_L

ClientSampleId :

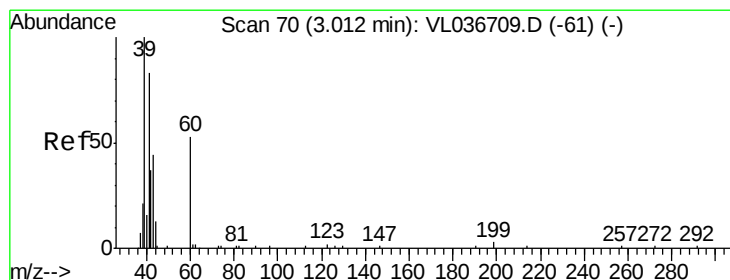
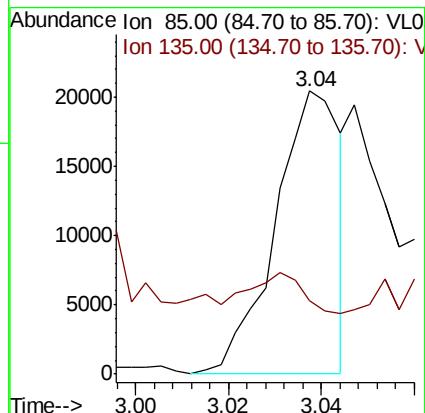
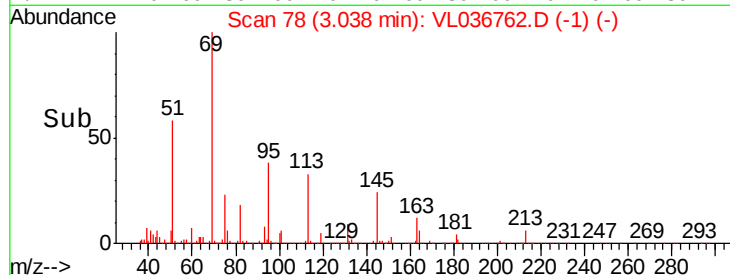
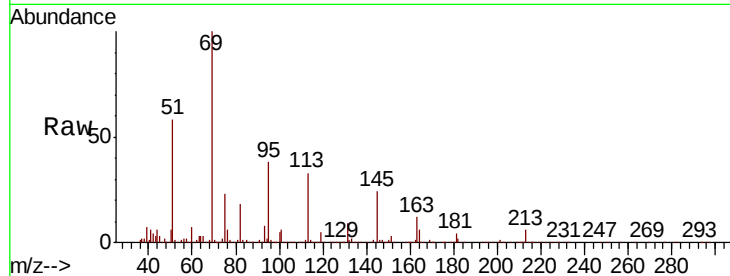
SG-1

Tot Ion: 85 Resp: 19869

Ion Ratio Lower Upper

85 100

135 79.9 54.3 81.5



#9

Propene

Concen: 17.558 ppbv

RT: 3.00 min Scan# 67

Delta R.T. -0.01 min

Lab File: VL036762.D

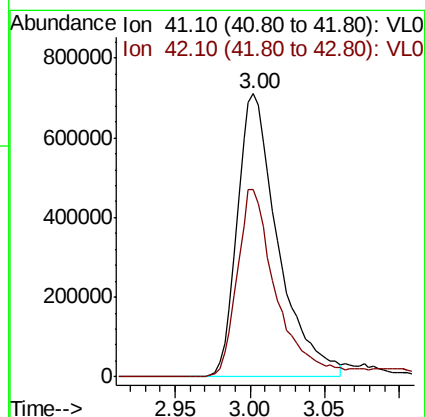
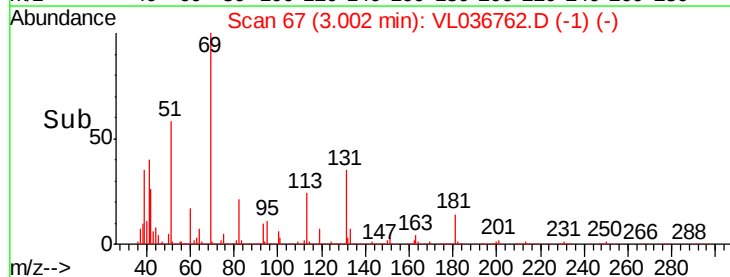
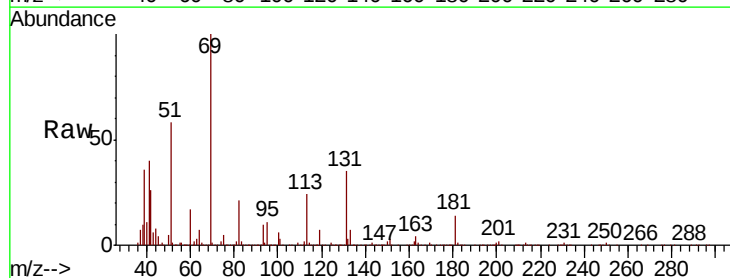
Acq: 8 Apr 2021 23:10

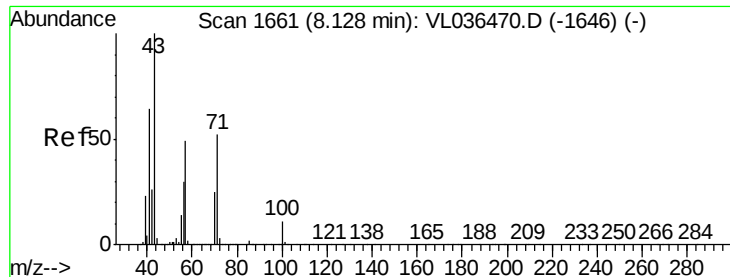
Tgt Ion: 41 Resp: 1348946

Ion Ratio Lower Upper

41 100

42 67.7 57.0 85.4





#10

Heptane

Concen: 0.473 ppbv

RT: 8.12 min Scan# 1658

Delta R.T. -0.01 min

Lab File: VL036762.D

Acq: 8 Apr 2021 23:10

Instrument :

MSVOA_L

ClientSampled :

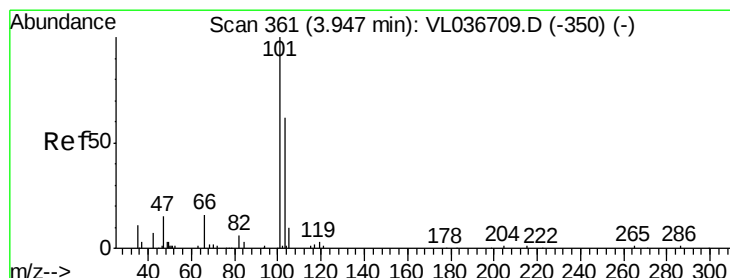
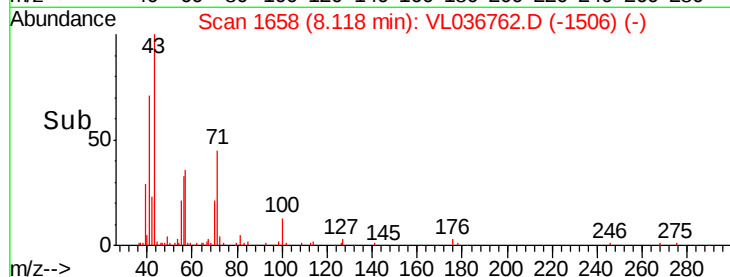
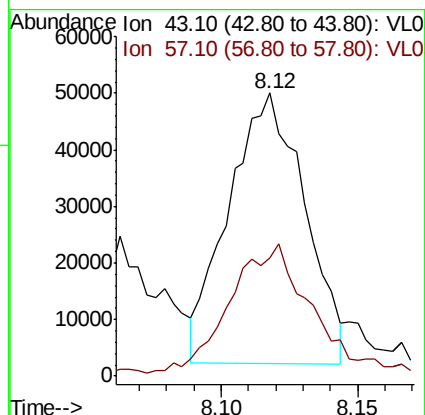
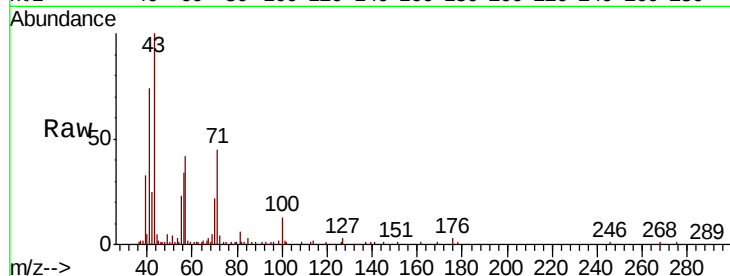
SG-1

Tot Ion: 43 Resp: 92539

Ion Ratio Lower Upper

43 100

57 53.5 39.0 58.6



#11

Trichlorofluoromethane

Concen: 0.178 ppbv

RT: 3.94 min Scan# 359

Delta R.T. -0.01 min

Lab File: VL036762.D

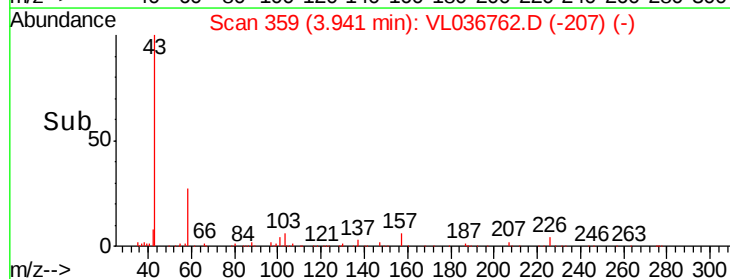
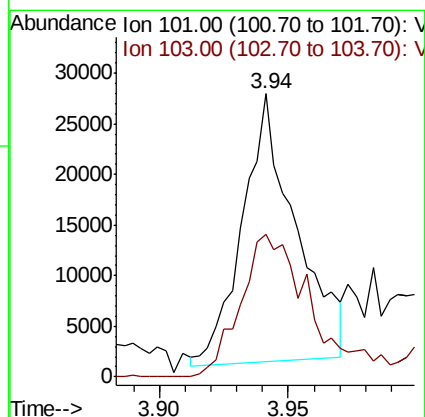
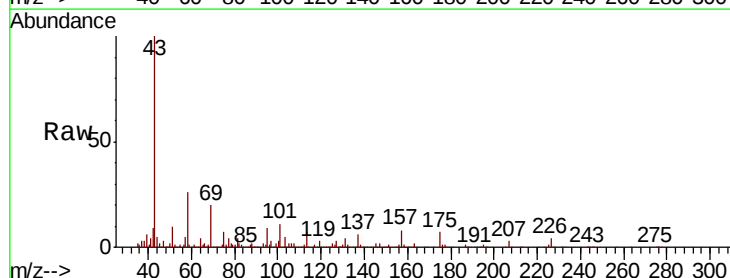
Acq: 8 Apr 2021 23:10

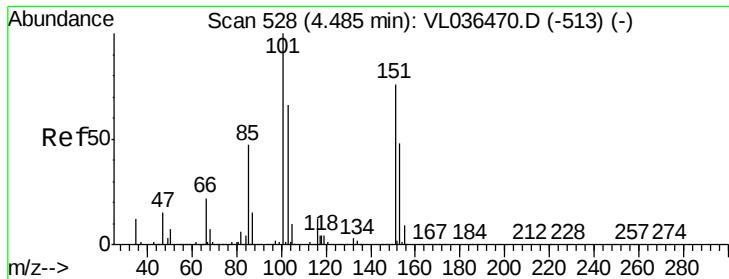
Tgt Ion: 101 Resp: 38251

Ion Ratio Lower Upper

101 100

103 54.0 52.5 78.7





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.071 ppbv

RT: 4.48 min Scan# 528

Delta R.T. -0.00 min

Lab File: VL036762.D

Acq: 8 Apr 2021 23:10

Instrument :

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ClientSampleId :

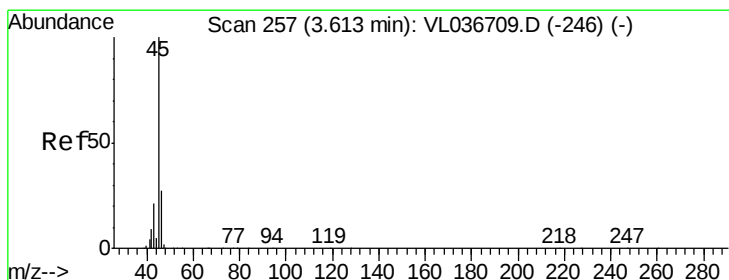
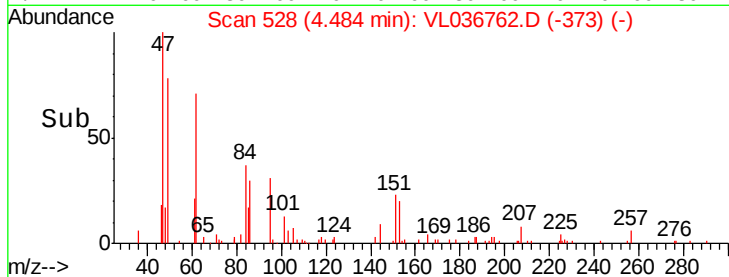
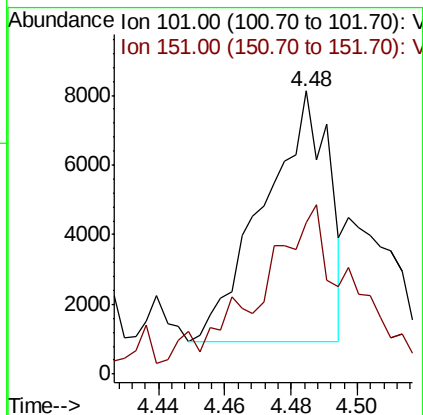
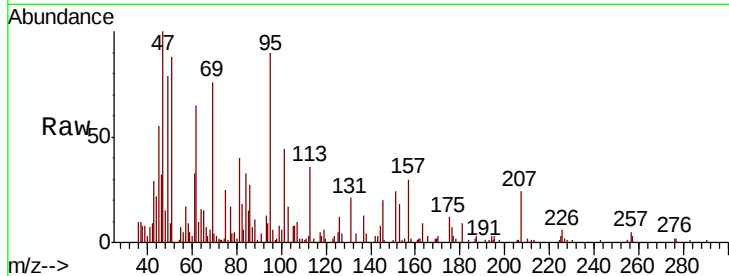
SG-1

Tot Ion:101 Resp: 9782

Ion Ratio Lower Upper

101 100

151 91.6 60.9 91.3#



#13

Ethanol

Concen: 61.563 ppbv

RT: 3.62 min Scan# 259

Delta R.T. 0.01 min

Lab File: VL036762.D

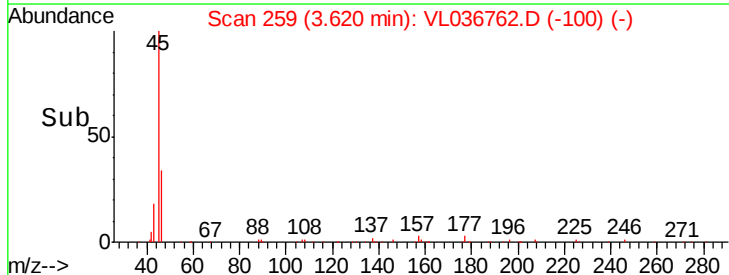
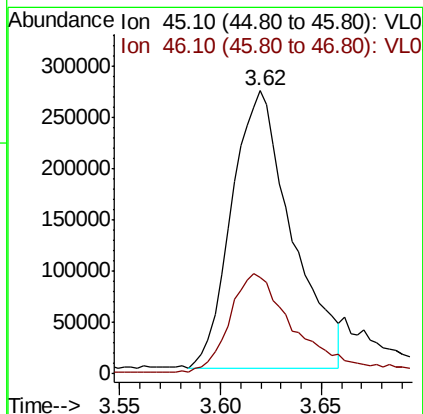
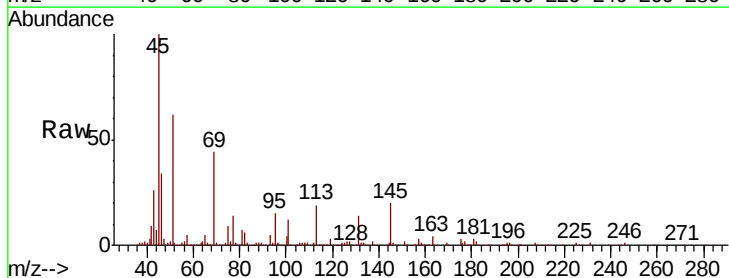
Acq: 8 Apr 2021 23:10

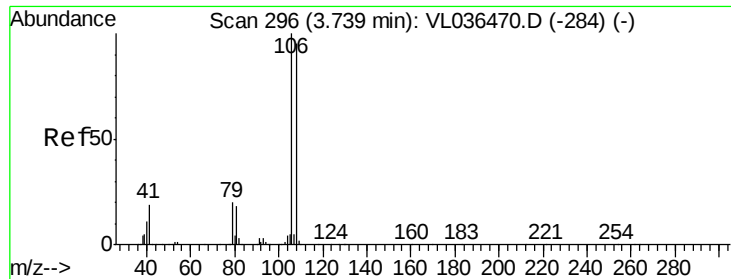
Tgt Ion: 45 Resp: 563224

Ion Ratio Lower Upper

45 100

46 40.3 16.6 66.2





#14

Bromoethene

Concen: 0.037 ppbv

RT: 3.75 min Scan# 301

Delta R.T. 0.02 min

Lab File: VL036762.D

Acq: 8 Apr 2021 23:10

Instrument :

MSVOA_L

ClientSampleId :

SG-1

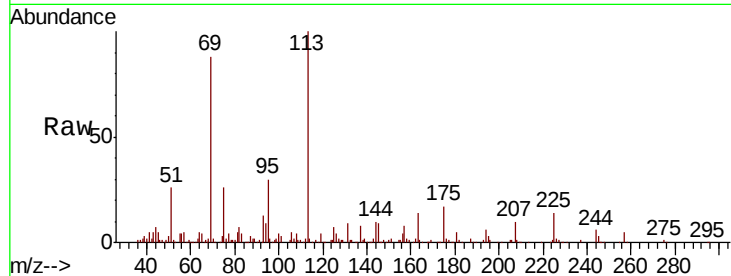
Tot Ion:108 Resp: 2090

Ion Ratio Lower Upper

108 100

106 915.1 89.0 133.6#

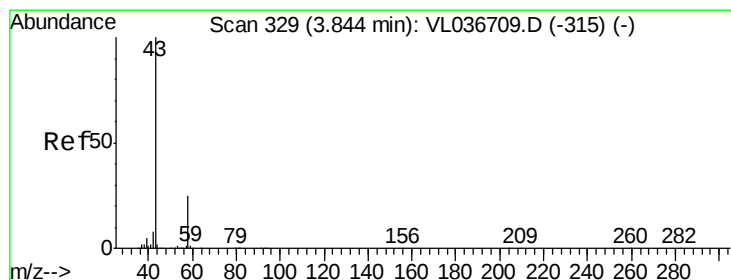
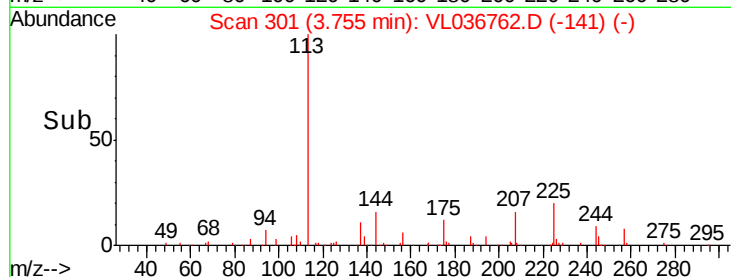
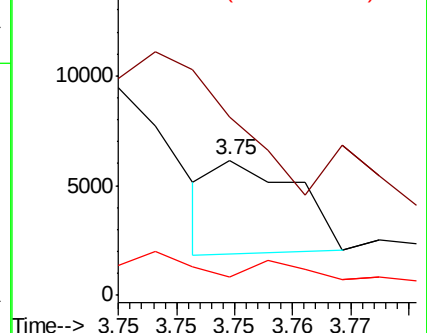
79 0.0 16.6 25.0#



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



#15

Acetone

Concen: 148.154 ppbv

RT: 3.85 min Scan# 330

Delta R.T. -0.00 min

Lab File: VL036762.D

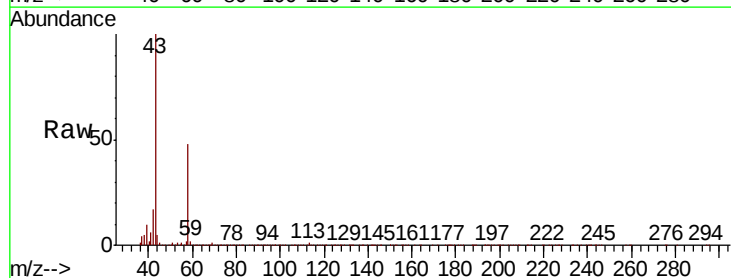
Acq: 8 Apr 2021 23:10

Tgt Ion: 43 Resp:18808092

Ion Ratio Lower Upper

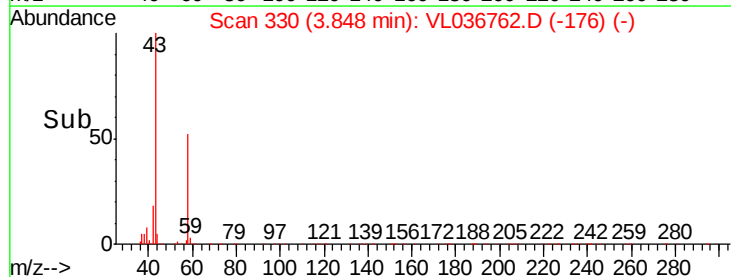
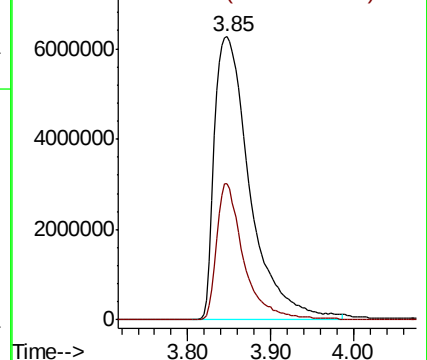
43 100

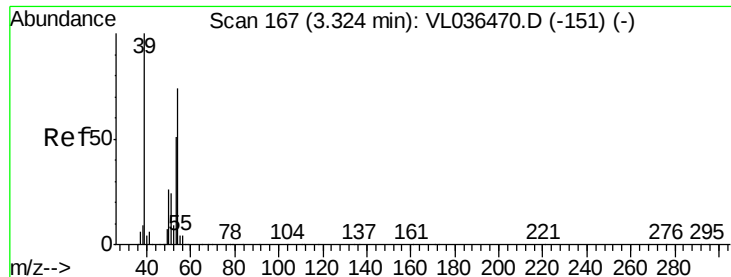
58 36.8 21.2 31.8#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





#16

1,3-Butadiene

Concen: 3.443 ppbv

RT: 3.34 min Scan# 173

Delta R.T. 0.02 min

Lab File: VL036762.D

Acq: 8 Apr 2021 23:10

Instrument :

MSVOA_L

ClientSampleId :

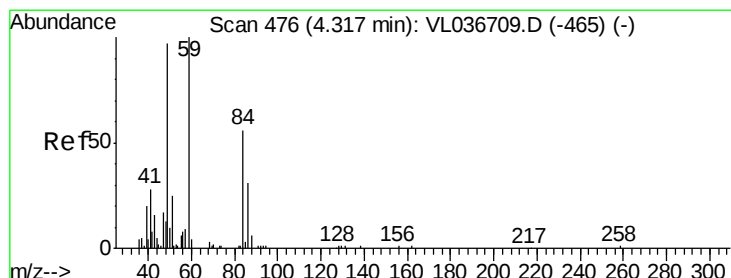
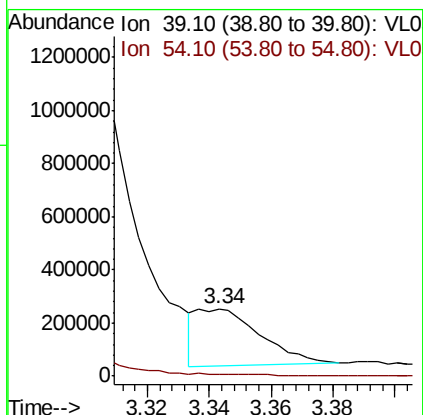
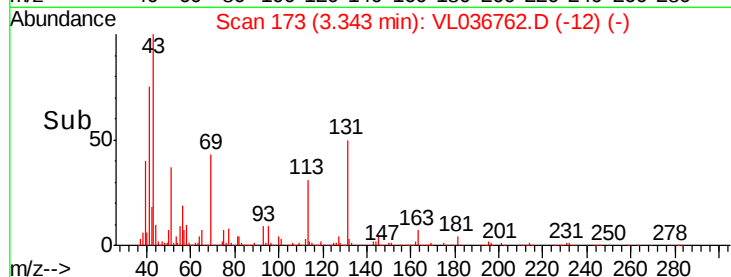
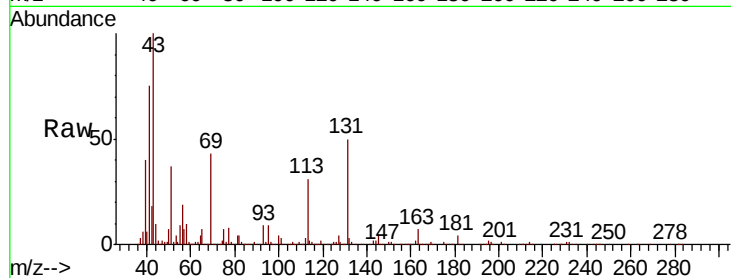
SG-1

Tot Ion: 39 Resp: 304331

Ion Ratio Lower Upper

39 100

54 0.0 58.8 88.2#



#17

tert-Butyl alcohol

Concen: 13.239 ppbv

RT: 4.26 min Scan# 457

Delta R.T. -0.04 min

Lab File: VL036762.D

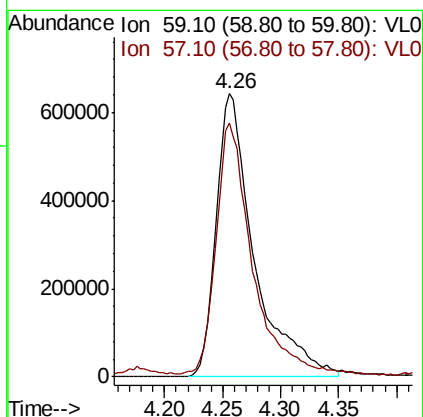
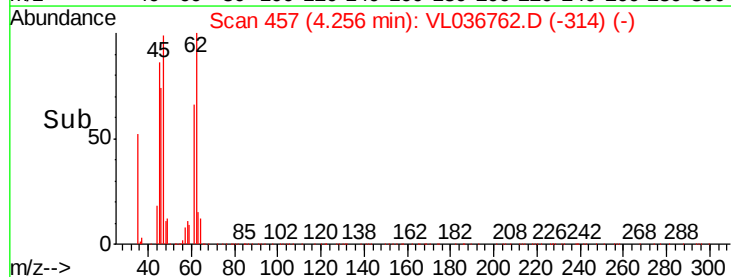
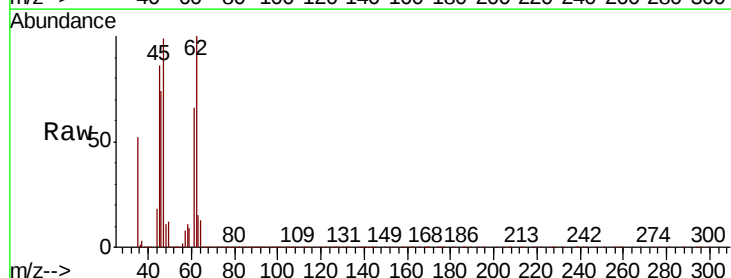
Acq: 8 Apr 2021 23:10

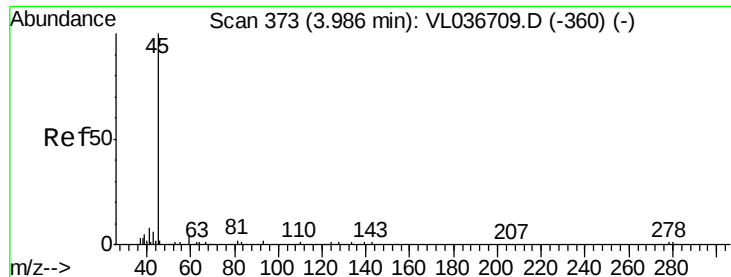
Tgt Ion: 59 Resp: 1463065

Ion Ratio Lower Upper

59 100

57 87.3 8.6 12.8#





#19

Isopropyl Alcohol

Concen: 4.646 ppbv

RT: 3.98 min Scan# 372

Delta R.T. 0.01 min

Lab File: VL036762.D

Acq: 8 Apr 2021 23:10

Instrument :

MSVOA_L

ClientSampleId :

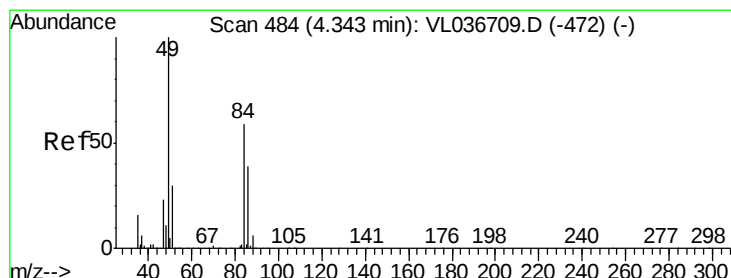
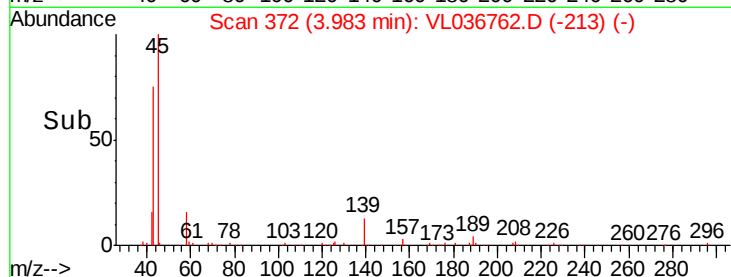
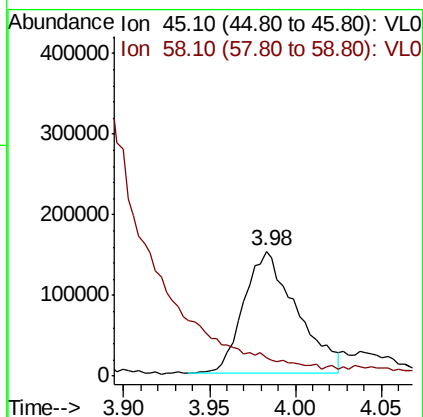
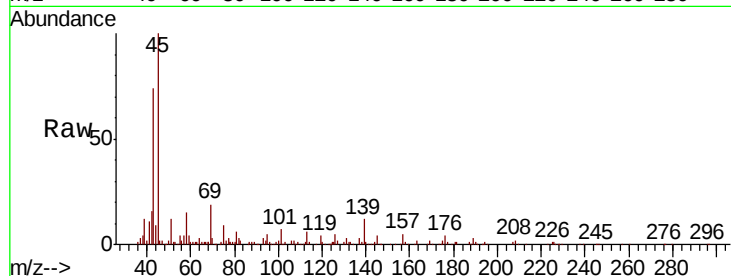
SG-1

Tot Ion: 45 Resp: 324420

Ion Ratio Lower Upper

45 100

58 2143.0 2.9 4.3#



#20

Methylene Chloride

Concen: 71.237 ppbv

RT: 4.35 min Scan# 485

Delta R.T. 0.00 min

Lab File: VL036762.D

Acq: 8 Apr 2021 23:10

Tgt Ion: 84 Resp: 4234230

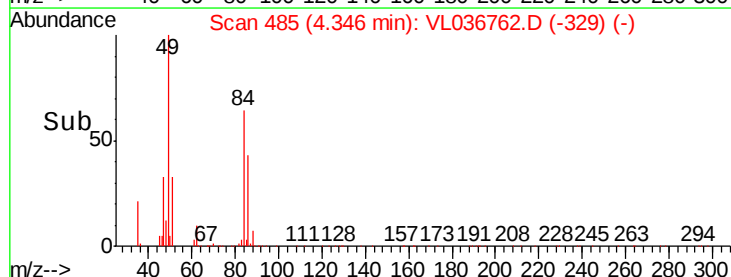
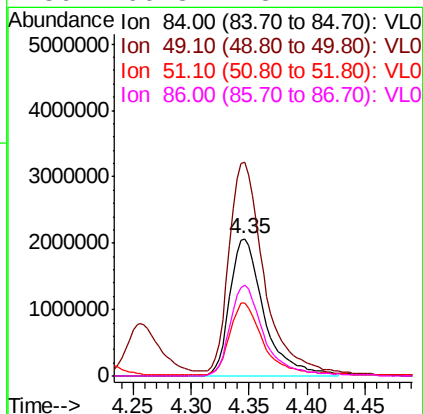
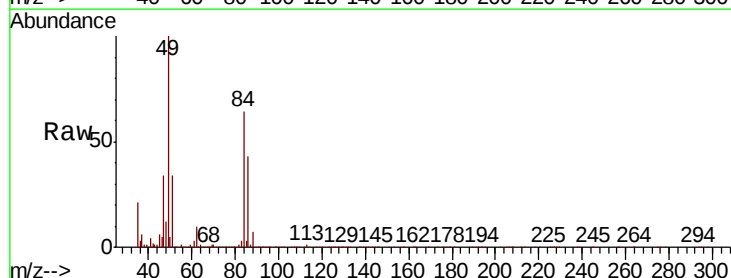
Ion Ratio Lower Upper

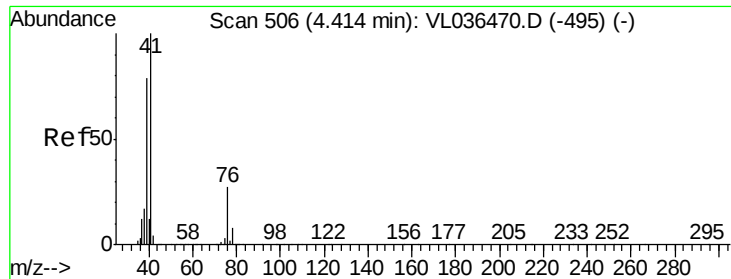
84 100

49 152.3 122.9 184.3

51 52.3 36.9 55.3

86 66.3 48.2 72.4

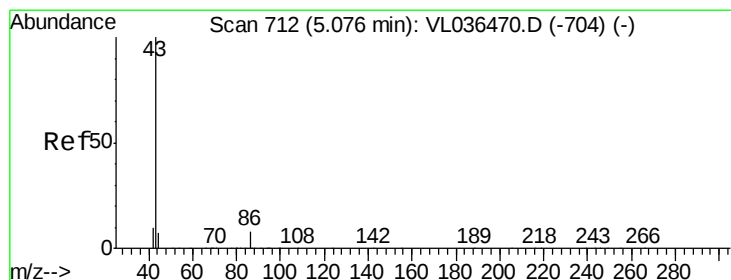
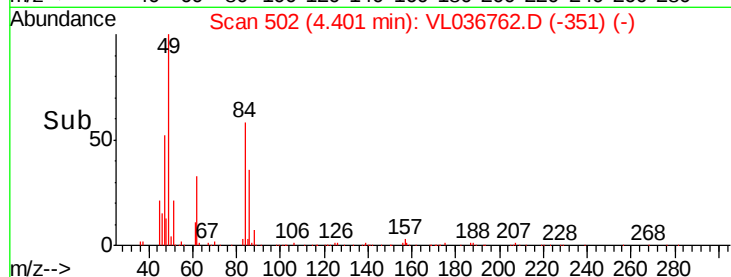
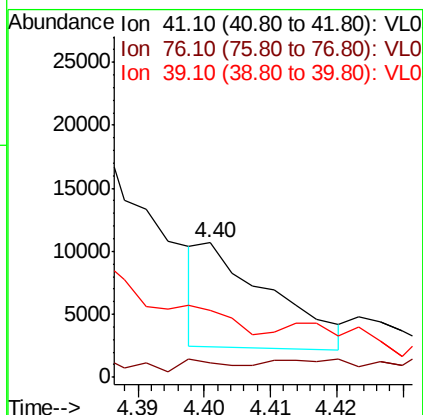
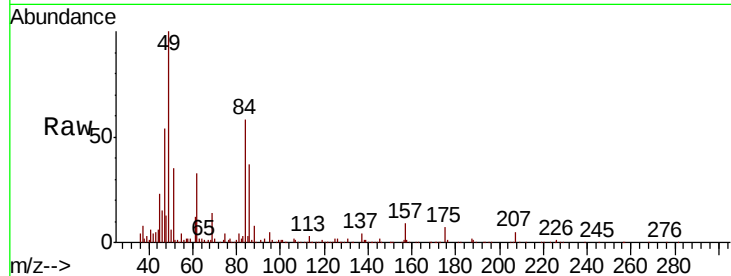




#21
Allvl Chloride
Concen: 0.060 ppbv
RT: 4.40 min Scan# 502
Delta R.T. -0.01 min
Lab File: VL036762.D
Acq: 8 Apr 2021 23:10

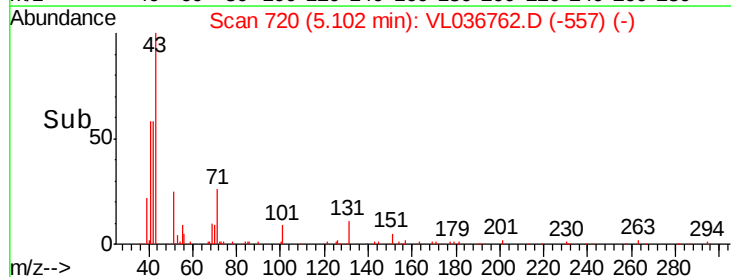
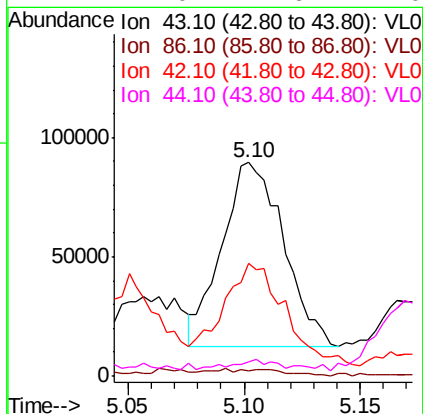
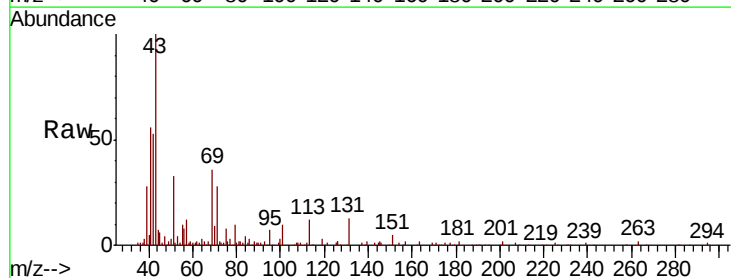
Instrument :
MSVOA_L
ClientSampleId :
SG-1

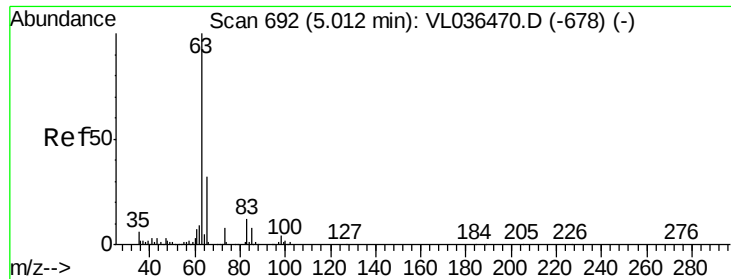
Tot Ion: 41 Resp: 6041
Ion Ratio Lower Upper
41 100
76 0.0 22.9 34.3#
39 0.0 67.3 100.9#



#23
Vinyl Acetate
Concen: 0.659 ppbv
RT: 5.10 min Scan# 720
Delta R.T. 0.03 min
Lab File: VL036762.D
Acq: 8 Apr 2021 23:10

Tgt Ion: 43 Resp: 143010
Ion Ratio Lower Upper
43 100
86 1.4 5.4 8.0#
42 50.3 8.5 12.7#
44 1.0 4.6 7.0#





#24

1,1-Dichloroethane

Concen: 0.034 ppbv

RT: 5.01 min Scan# 691

Delta R.T. -0.00 min

Lab File: VL036762.D

Acq: 8 Apr 2021 23:10

Instrument :

MSVOA_L

ClientSampleId :

SG-1

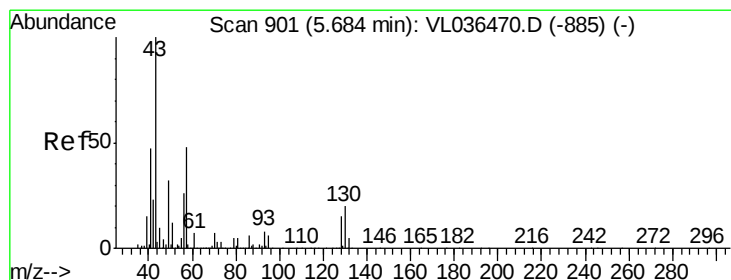
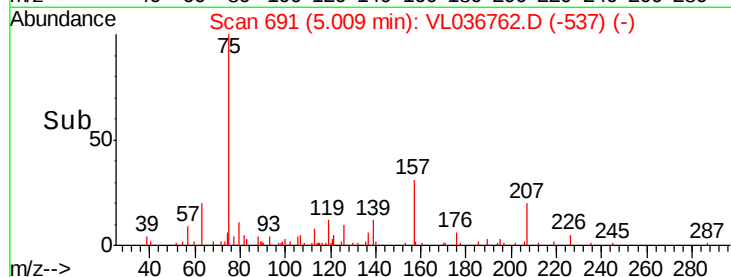
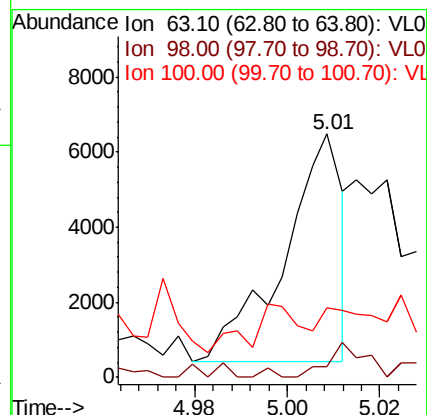
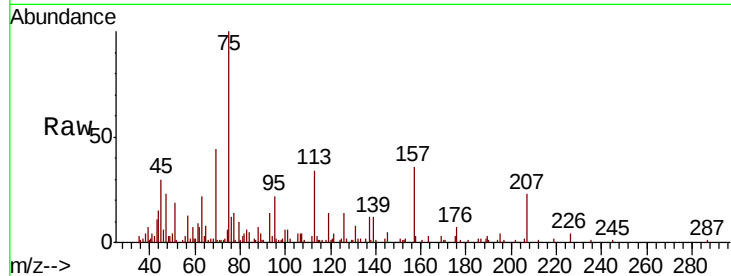
Tot Ion: 63 Resp: 5322

Ion Ratio Lower Upper

63 100

98 0.0 2.1 6.2#

100 14.5 0.9 2.8#



#25

Ethyl Acetate

Concen: 9.943 ppbv

RT: 5.68 min Scan# 901

Delta R.T. -0.00 min

Lab File: VL036762.D

Acq: 8 Apr 2021 23:10

Tgt Ion: 43 Resp: 3001040

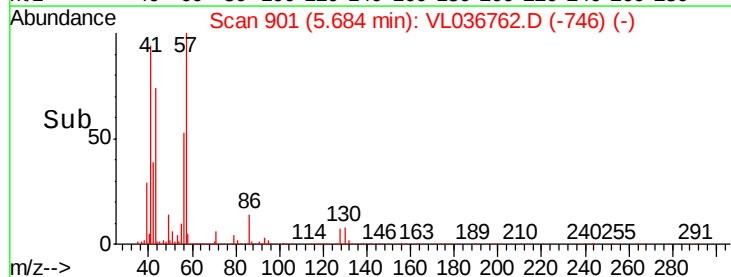
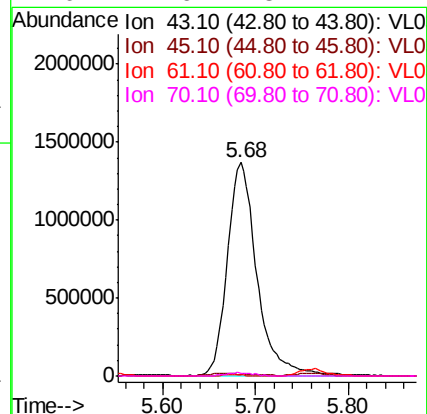
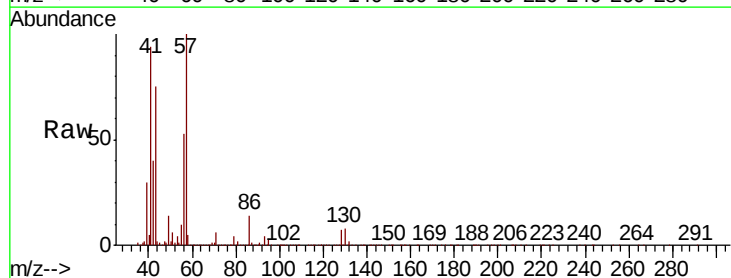
Ion Ratio Lower Upper

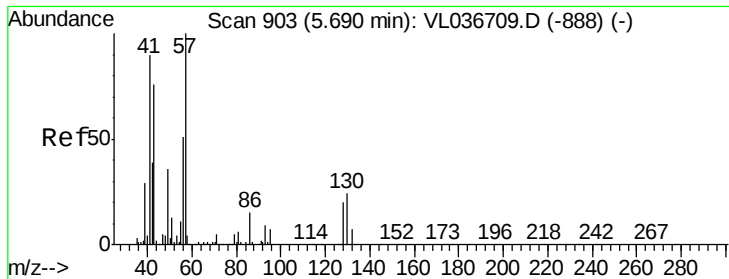
43 100

45 1.5 7.9 11.9#

61 0.5 7.4 11.2#

70 1.6 5.1 7.7#





#26

Hexane

Concen: 28.395 ppbv

RT: 5.68 min Scan# 901

Delta R.T. -0.00 min

Lab File: VL036762.D

Acq: 8 Apr 2021 23:10

Instrument :

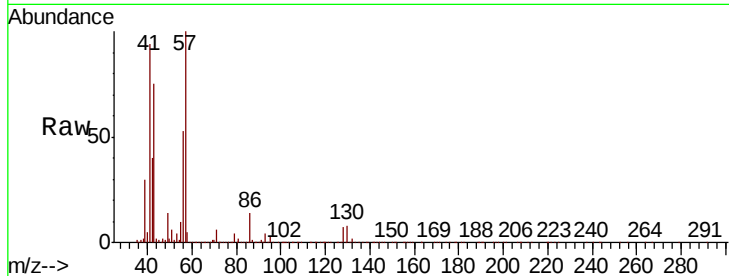
MSVOA_L

ClientSampleId :

SG-1

Tot Ion: 57 Resp: 3977076

Ion	Ratio	Lower	Upper
57	100		
41	94.6	77.2	115.8
43	76.2	173.8	260.6#
56	54.2	43.8	65.6



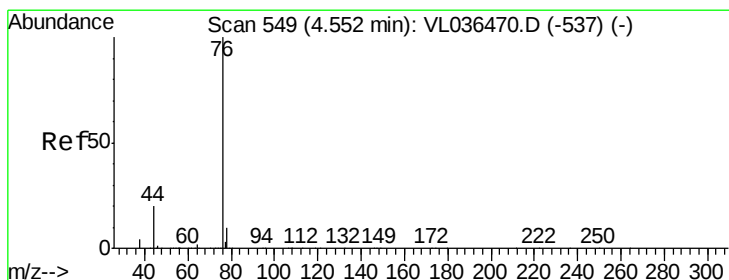
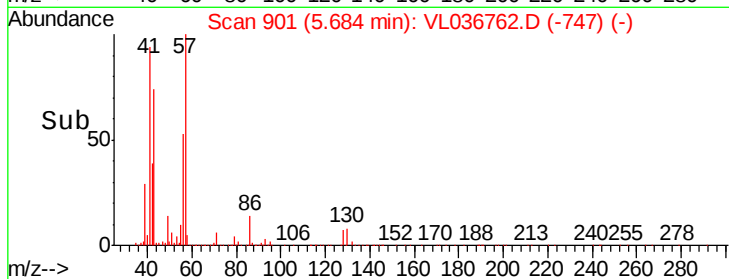
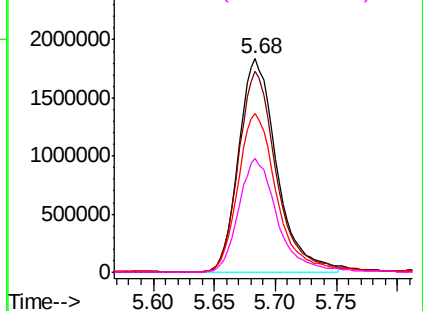
Abundance

Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0



#27

Carbon Disulfide

Concen: 2.525 ppbv

RT: 4.54 min Scan# 546

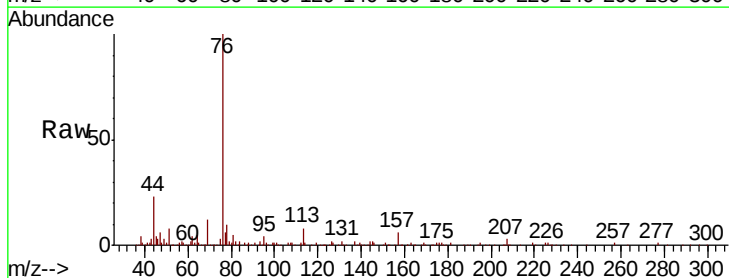
Delta R.T. -0.01 min

Lab File: VL036762.D

Acq: 8 Apr 2021 23:10

Tgt Ion: 76 Resp: 348372

Ion	Ratio	Lower	Upper
76	100		
44	23.5	17.5	26.3
78	10.5	8.6	13.0

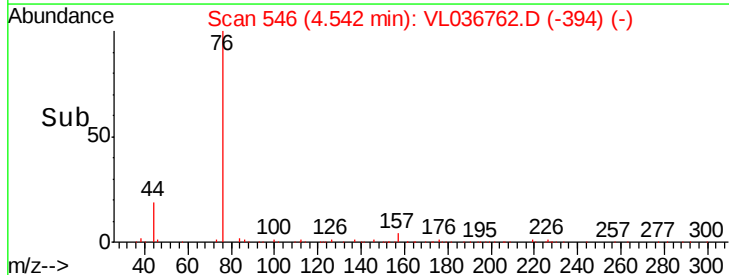
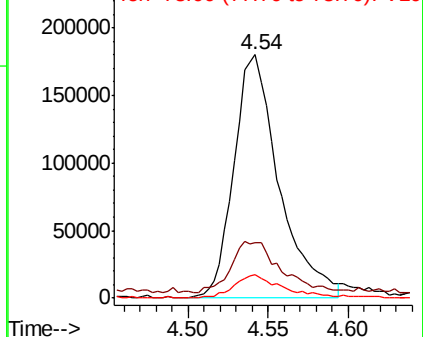


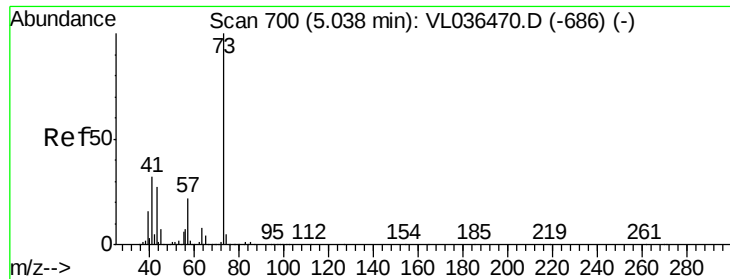
Abundance

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

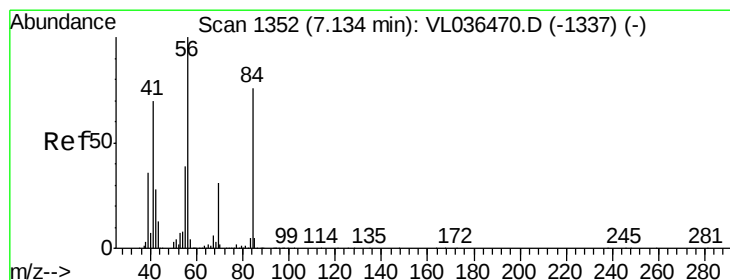
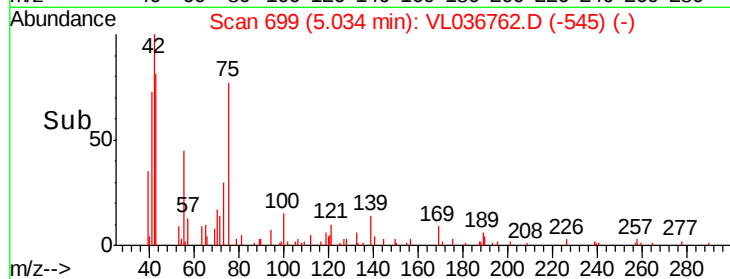
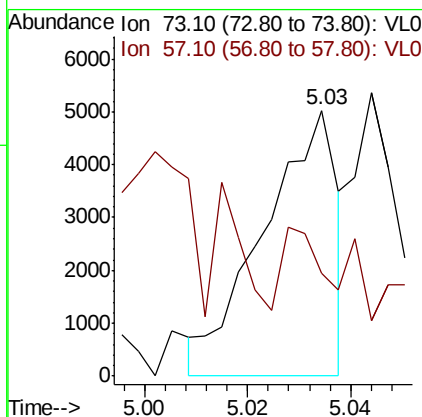
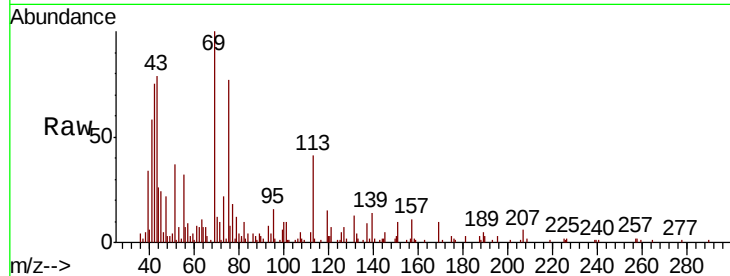




#28
Methvl tert-Butvl Ether
Concen: 0.030 ppbv
RT: 5.03 min Scan# 699
Delta R.T. -0.00 min
Lab File: VL036762.D
Acq: 8 Apr 2021 23:10

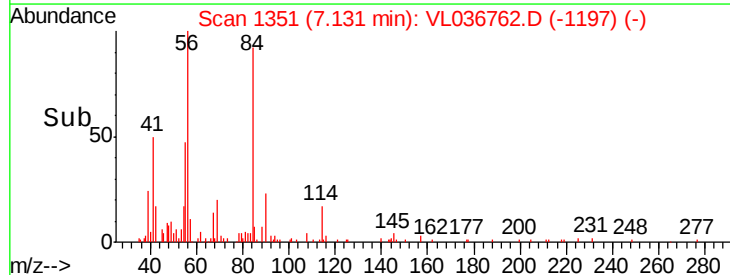
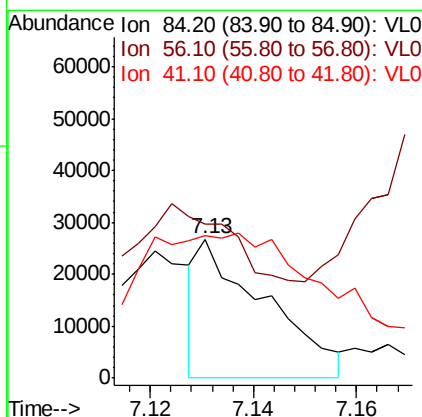
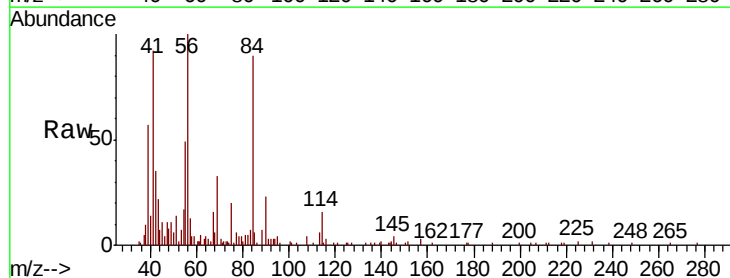
Instrument :
MSVOA_L
ClientSampleId :
SG-1

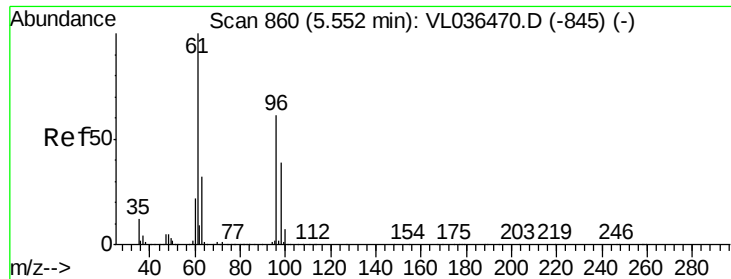
Tot Ion: 73 Resp: 4962
Ion Ratio Lower Upper
73 100
57 0.0 18.5 27.7#



#30
Cyclohexane
Concen: 0.212 ppbv
RT: 7.13 min Scan# 1351
Delta R.T. -0.00 min
Lab File: VL036762.D
Acq: 8 Apr 2021 23:10

Tgt Ion: 84 Resp: 24111
Ion Ratio Lower Upper
84 100
56 0.0 114.6 171.8#
41 347.3 75.3 112.9#



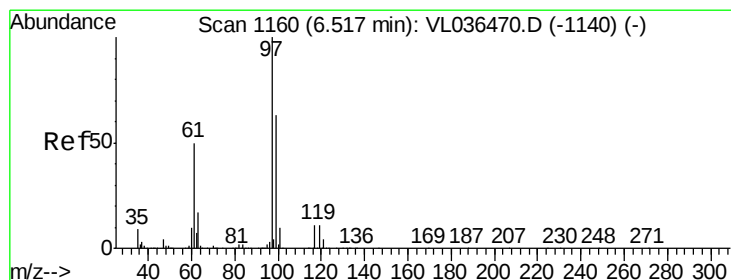
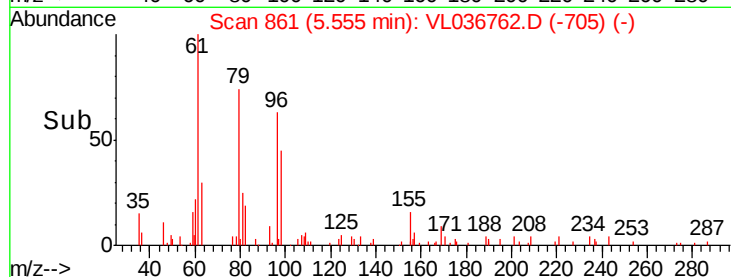
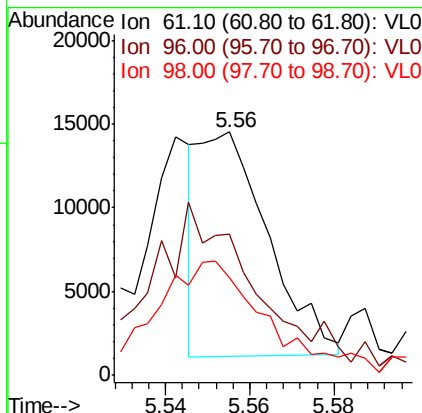
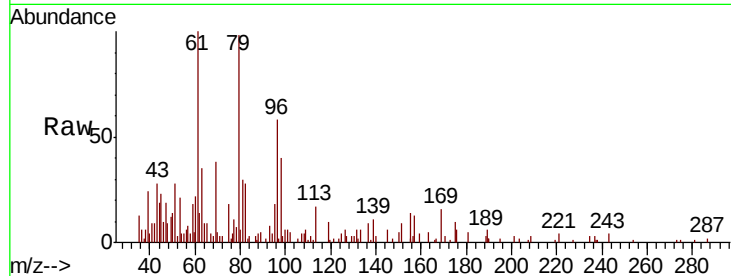


#31

cis-1,2-Dichloroethene
 Concen: 0.111 ppbv
 RT: 5.56 min Scan# 861
 Delta R.T. 0.00 min
 Lab File: VL036762.D
 Acq: 8 Apr 2021 23:10

Instrument :
 MSVOA_L
 ClientSampleId :
 SG-1

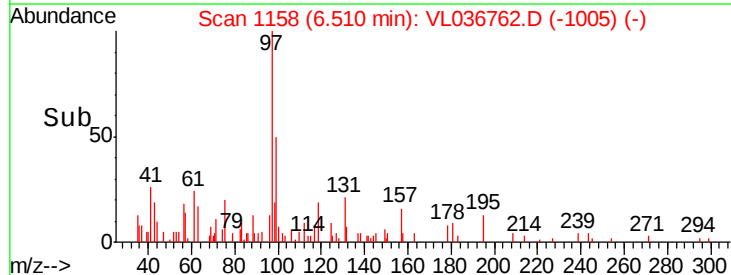
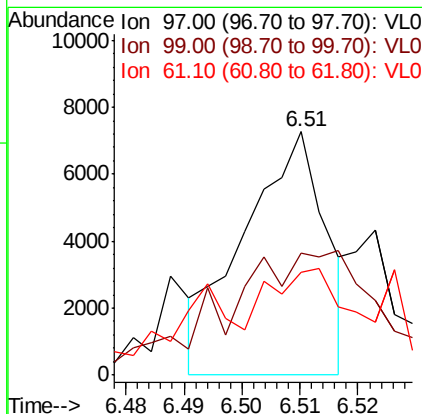
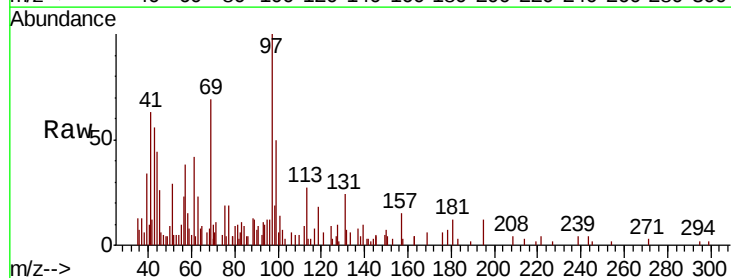
Tot Ion: 61 Resp: 15094
 Ion Ratio Lower Upper
 61 100
 96 53.3 48.7 73.1
 98 37.4 31.4 47.0

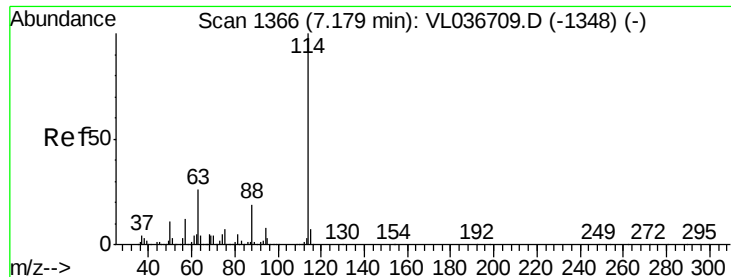


#32

1,1,1-Trichloroethane
 Concen: 0.032 ppbv
 RT: 6.51 min Scan# 1158
 Delta R.T. -0.01 min
 Lab File: VL036762.D
 Acq: 8 Apr 2021 23:10

Tgt Ion: 97 Resp: 7141
 Ion Ratio Lower Upper
 97 100
 99 121.8 51.4 77.0#
 61 113.0 40.6 60.8#

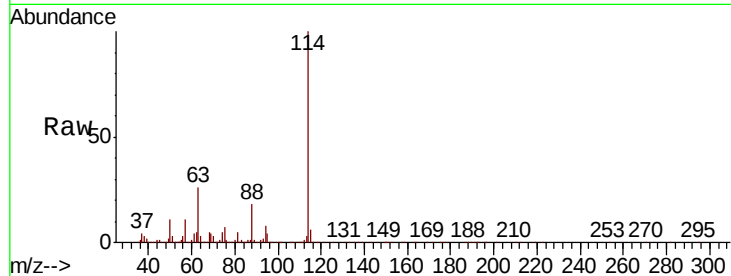




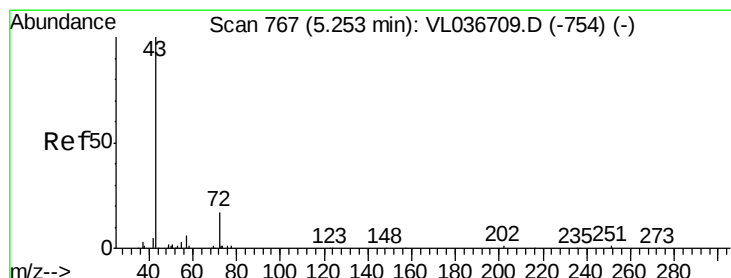
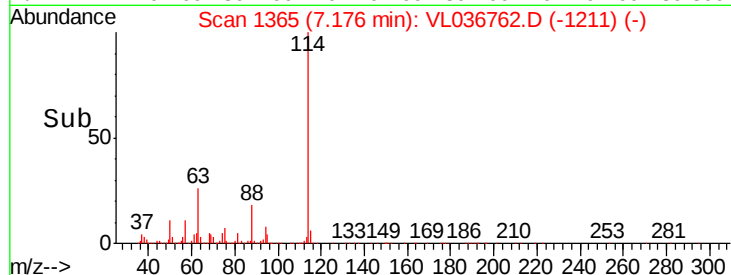
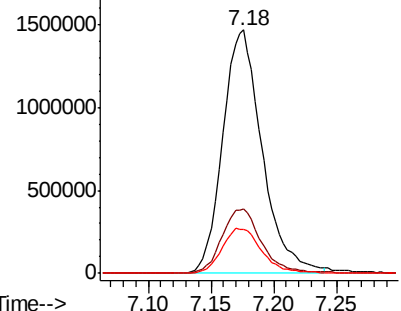
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.18 min Scan# 1365
 Delta R.T. -0.00 min
 Lab File: VL036762.D
 Acq: 8 Apr 2021 23:10

Instrument :
 MSVOA_L
 ClientSampleId :
 SG-1

Tot Ion:114 Resp: 3205071
 Ion Ratio Lower Upper
 114 100
 63 26.8 22.4 33.6
 88 19.1 15.4 23.0

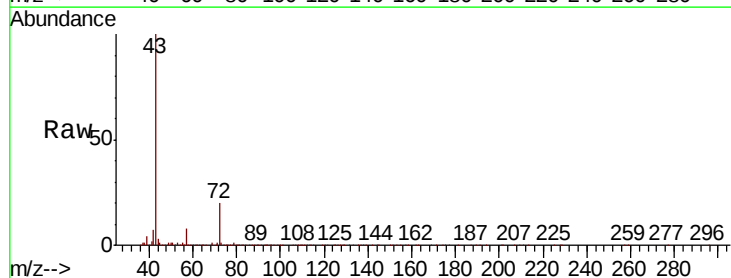


Abundance Ion 114.10 (113.80 to 114.80): VL0
 2000000 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

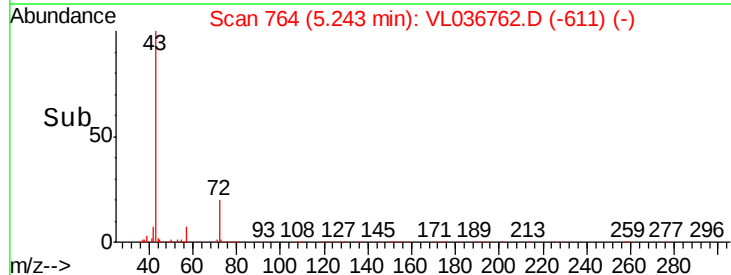
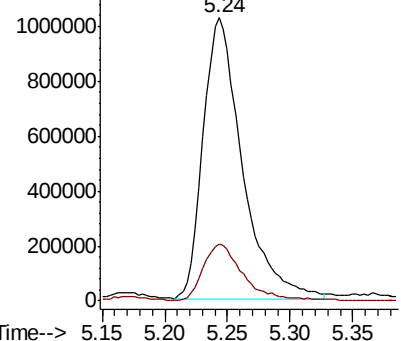


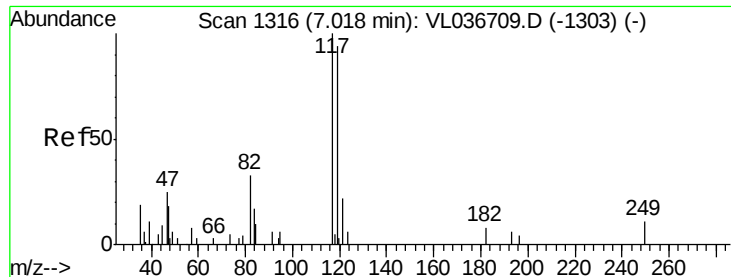
#34
 2-Butanone
 Concen: 14.158 ppbv
 RT: 5.24 min Scan# 764
 Delta R.T. -0.01 min
 Lab File: VL036762.D
 Acq: 8 Apr 2021 23:10

Tgt Ion: 43 Resp: 2214945
 Ion Ratio Lower Upper
 43 100
 72 21.0 17.0 25.6



Abundance Ion 43.10 (42.80 to 43.80): VL0
 1200000 Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 0.044 ppbv

RT: 7.02 min Scan# 1316

Delta R.T. -0.00 min

Lab File: VL036762.D

Acq: 8 Apr 2021 23:10

Instrument :

MSVOA_L

ClientSampled :

SG-1

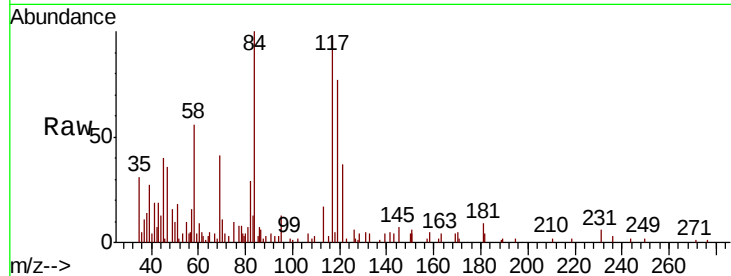
Tot Ion:117 Resp: 10903

Ion Ratio Lower Upper

117 100

119 69.4 78.2 117.2#

121 29.1 24.5 36.7

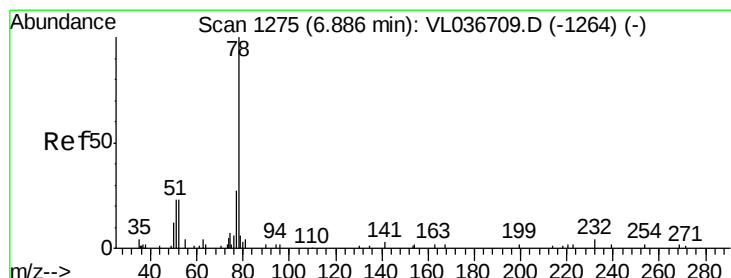
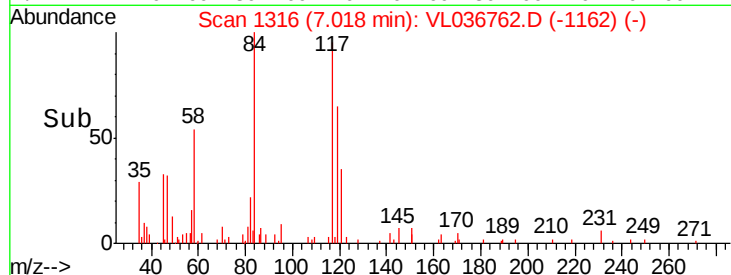
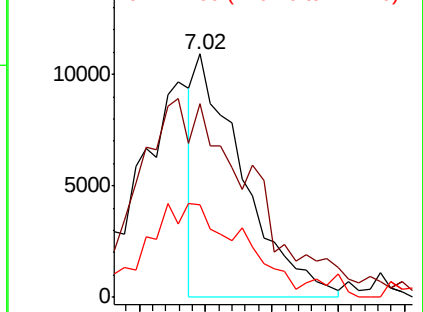


Abundance

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: 3.224 ppbv

RT: 6.89 min Scan# 1276

Delta R.T. -0.01 min

Lab File: VL036762.D

Acq: 8 Apr 2021 23:10

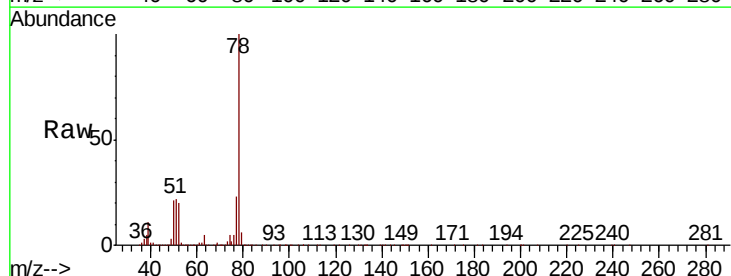
Tgt Ion: 78 Resp: 952864

Ion Ratio Lower Upper

78 100

77 22.8 18.0 27.0

50 20.7 16.5 24.7

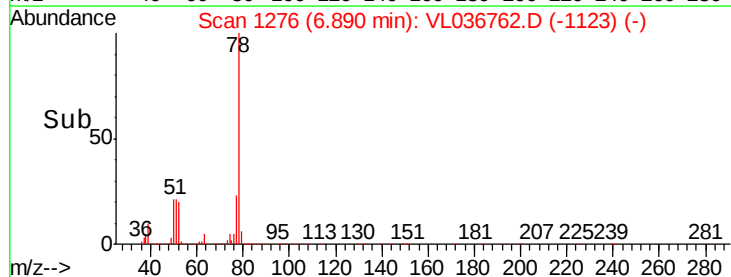
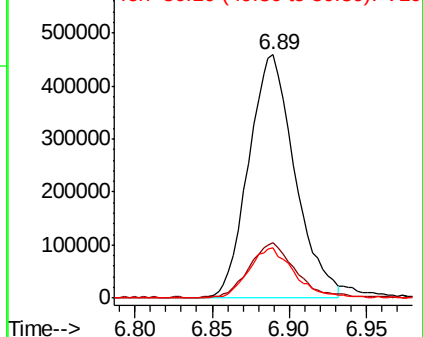


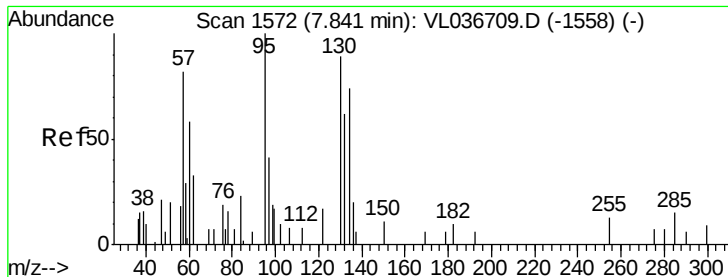
Abundance

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





#38

Trichloroethene

Concen: 0.066 ppbv

RT: 7.83 min Scan# 1570

Delta R.T. -0.01 min

Lab File: VL036762.D

Acq: 8 Apr 2021 23:10

Instrument :

MSVOA_L

ClientSampleId :

SG-1

Tot Ion:130 Resp: 7634

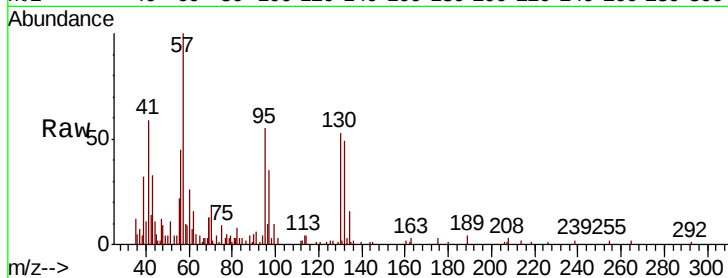
Ion Ratio Lower Upper

130 100

95 99.9 95.7 143.5

132 100.0 76.2 114.4

97 63.8 61.8 92.6

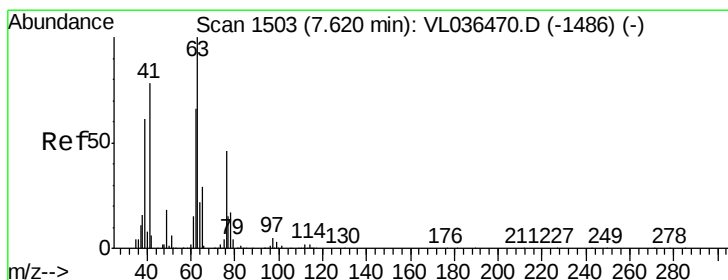
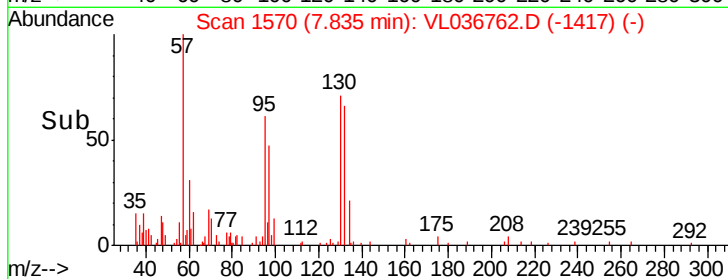
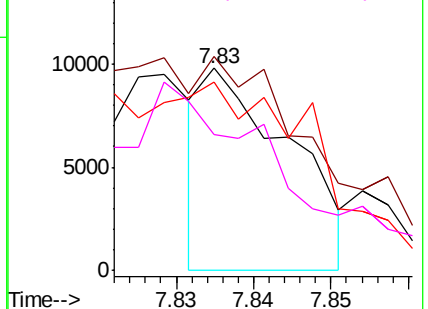


Abundance Ion 130.00 (129.70 to 130.70): V

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



#39

1,2-Dichloropropane

Concen: 6.952 ppbv

RT: 7.18 min Scan# 1365

Delta R.T. -0.44 min

Lab File: VL036762.D

Acq: 8 Apr 2021 23:10

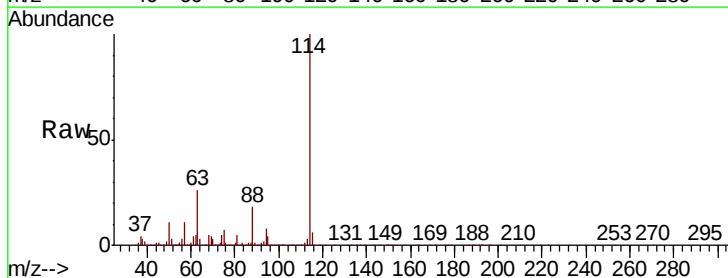
Tgt Ion: 63 Resp: 833607

Ion Ratio Lower Upper

63 100

41 0.0 62.4 93.6#

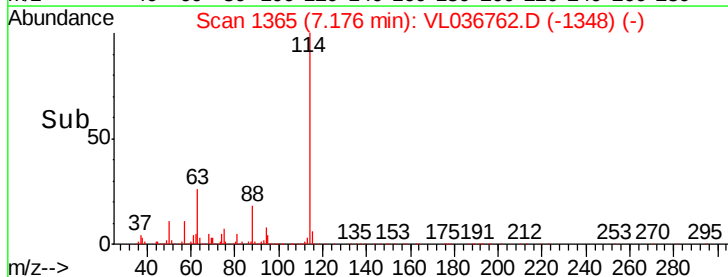
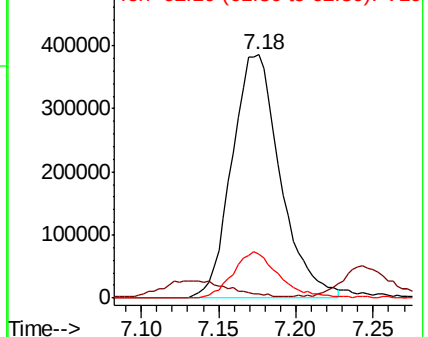
62 17.9 52.8 79.2#

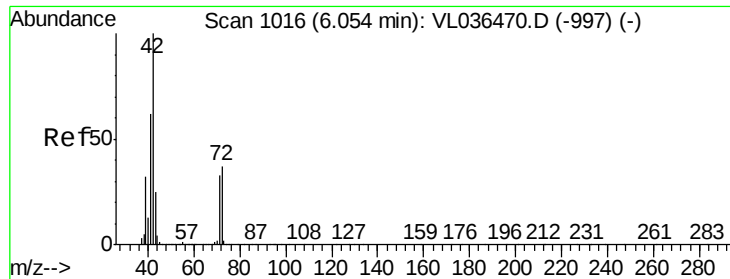


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0





#41

Tetrahydrofuran

Concen: 0.307 ppbv

RT: 6.31 min Scan# 1097

Delta R.T. 0.26 min

Lab File: VL036762.D

Acq: 8 Apr 2021 23:10

Instrument :

MSVOA_L

ClientSampled :

SG-1

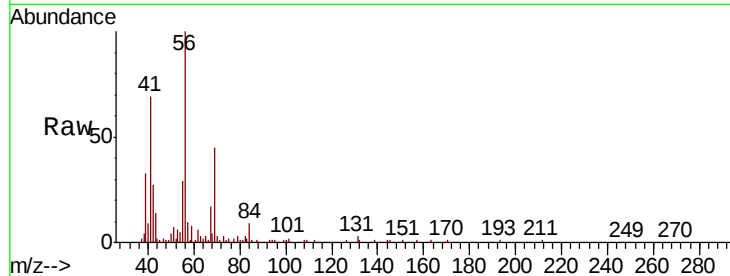
Tot Ion: 42 Resp: 22159

Ion Ratio Lower Upper

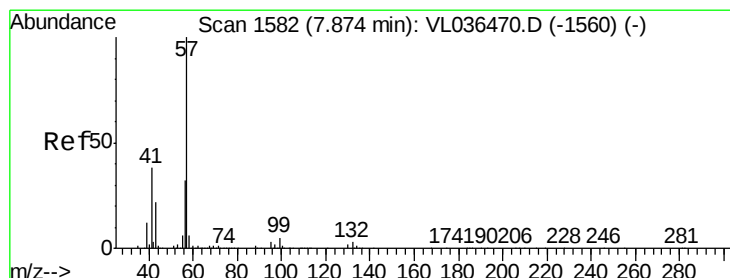
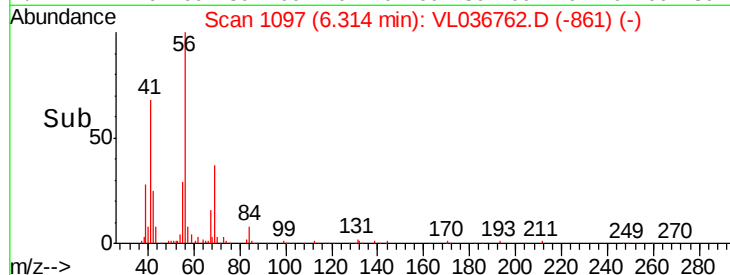
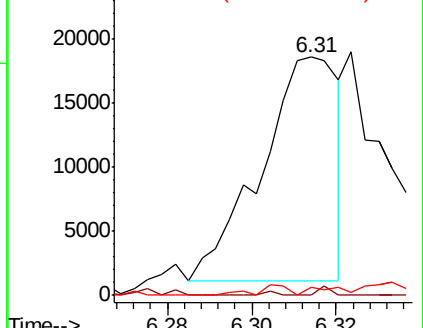
42 100

72 2.3 27.6 41.4#

71 0.0 27.0 40.4#



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



#44

2,2,4-Trimethylpentane

Concen: 0.187 ppbv

RT: 7.87 min Scan# 1580

Delta R.T. -0.01 min

Lab File: VL036762.D

Acq: 8 Apr 2021 23:10

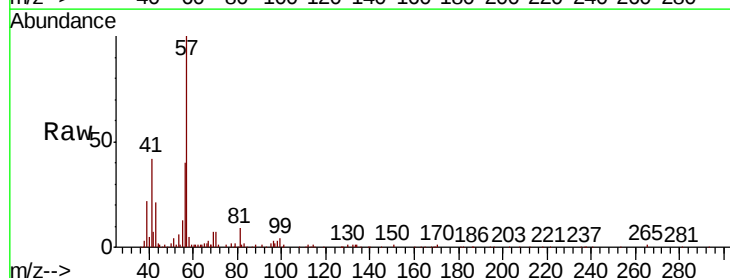
Tgt Ion: 57 Resp: 97206

Ion Ratio Lower Upper

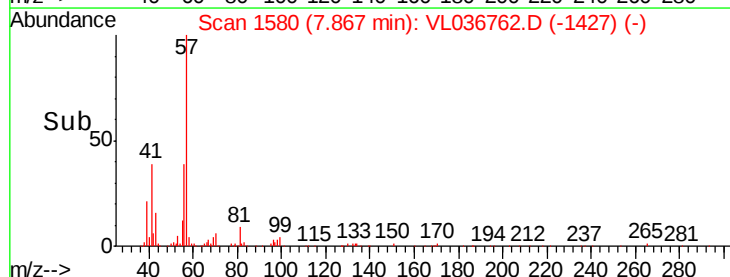
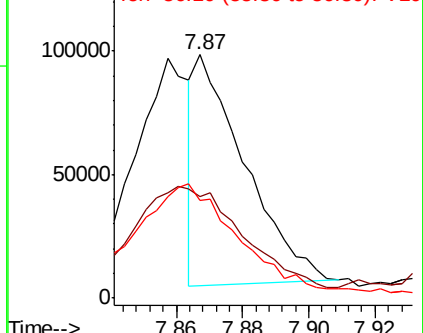
57 100

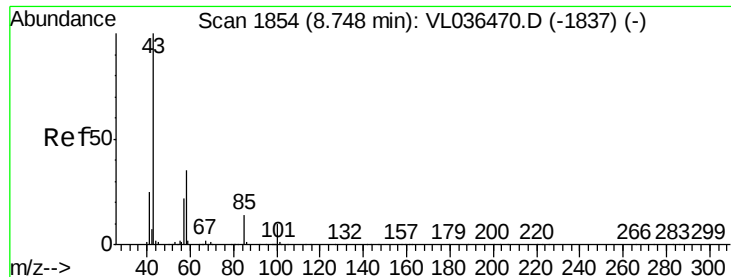
41 112.3 28.8 43.2#

56 114.7 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

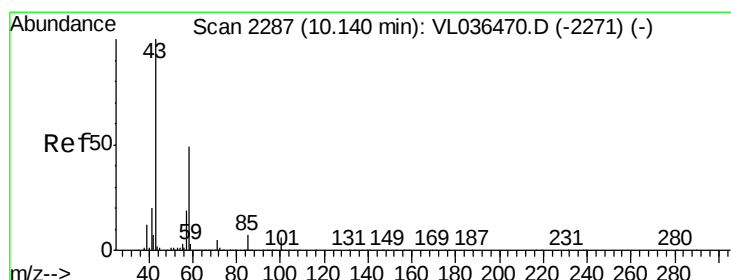
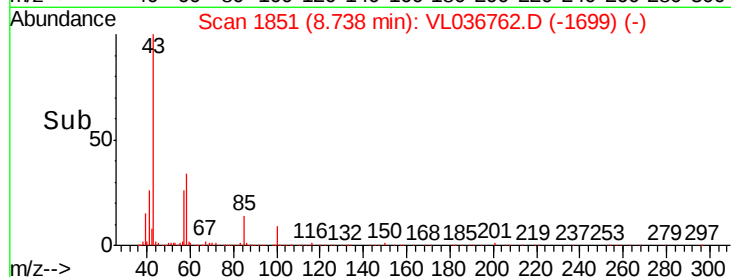
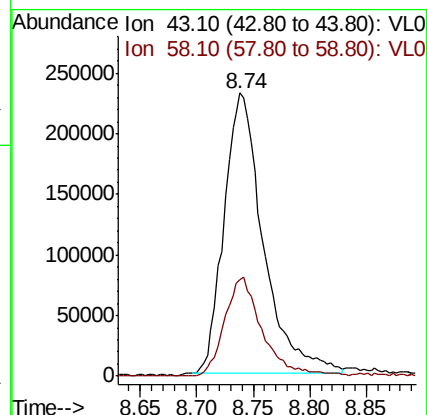
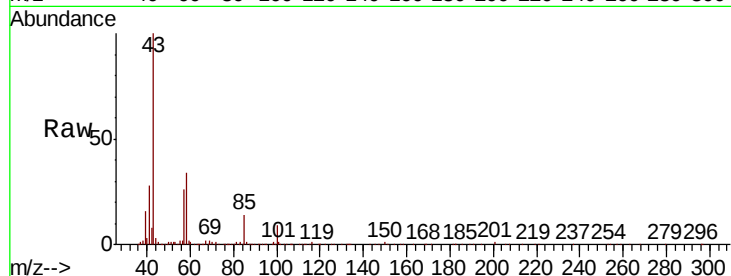




#50
4-Methyl-2-Pentanone
Concen: 2.461 ppbv
RT: 8.74 min Scan# 1851
Delta R.T. -0.01 min
Lab File: VL036762.D
Acq: 8 Apr 2021 23:10

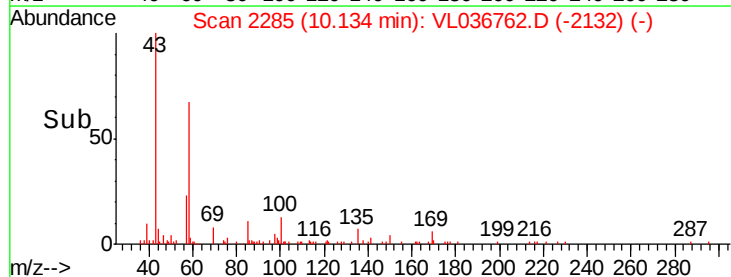
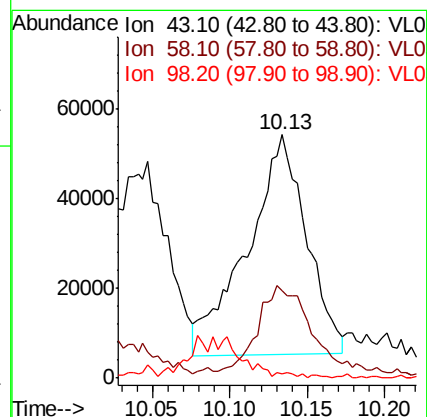
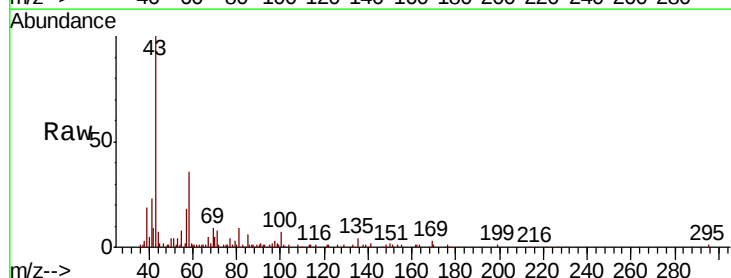
Instrument :
MSVOA_L
ClientSampled :
SG-1

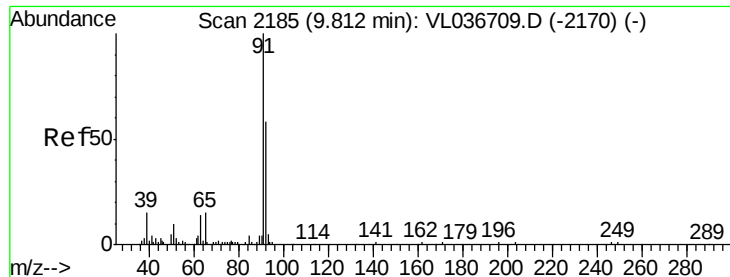
Tot Ion: 43 Resp: 557190
Ion Ratio Lower Upper
43 100
58 34.3 28.2 42.2



#51
2-Hexanone
Concen: 1.141 ppbv
RT: 10.13 min Scan# 2285
Delta R.T. -0.01 min
Lab File: VL036762.D
Acq: 8 Apr 2021 23:10

Tgt Ion: 43 Resp: 130364
Ion Ratio Lower Upper
43 100
58 41.8 37.7 56.5
98 0.0 0.2 0.2#





#53

Toluene

Concen: 2.419 ppbv

RT: 9.80 min Scan# 2180

Delta R.T. -0.02 min

Lab File: VL036762.D

Acq: 8 Apr 2021 23:10

Instrument :

MSVOA_L

ClientSampleId :

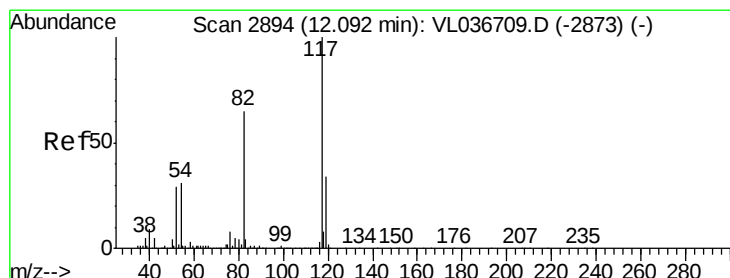
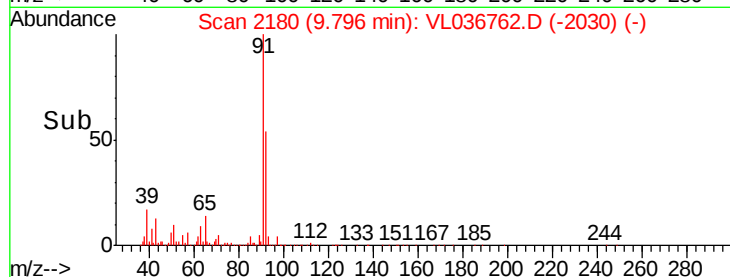
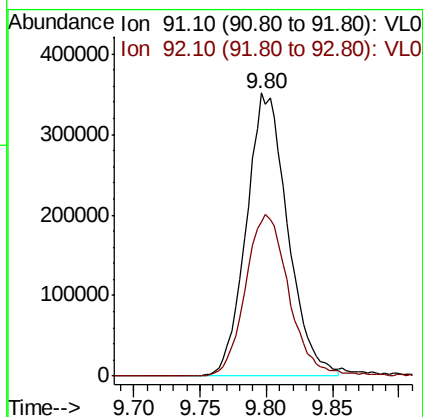
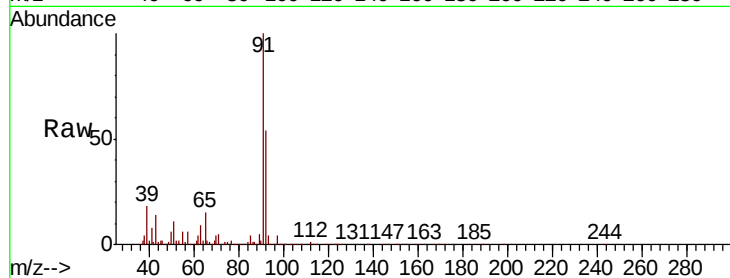
SG-1

Tot Ion: 91 Resp: 761616

Ion Ratio Lower Upper

91 100

92 60.6 48.8 73.2



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.08 min Scan# 2890

Delta R.T. -0.01 min

Lab File: VL036762.D

Acq: 8 Apr 2021 23:10

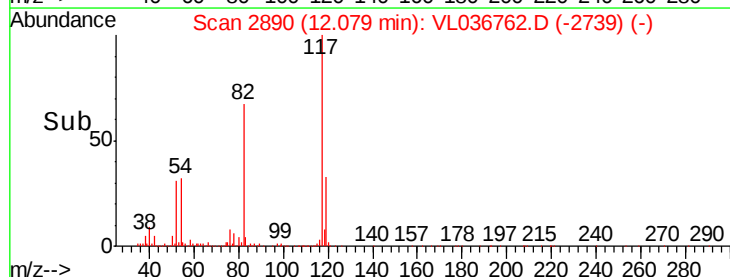
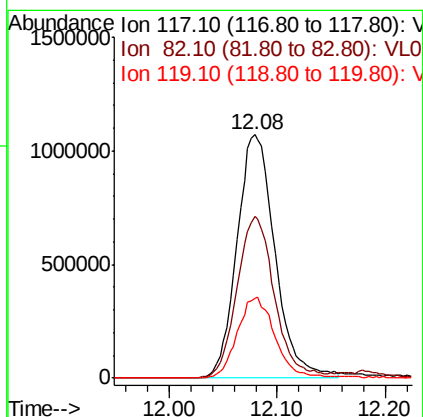
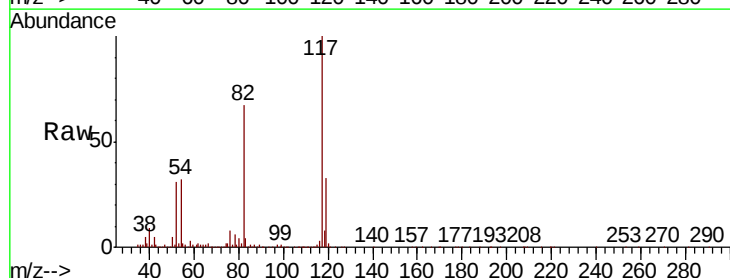
Tgt Ion: 117 Resp: 2622211

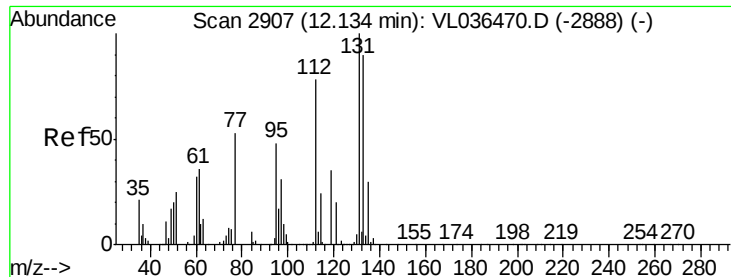
Ion Ratio Lower Upper

117 100

82 65.6 57.4 86.0

119 33.6 47.4 71.0#

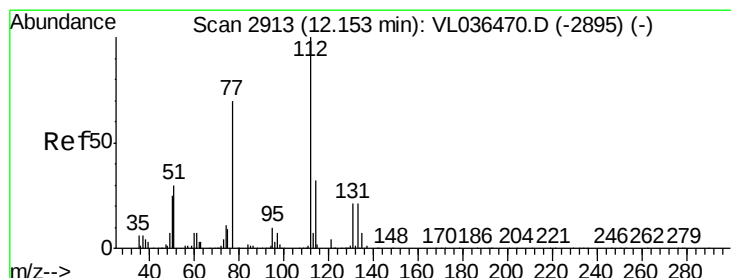
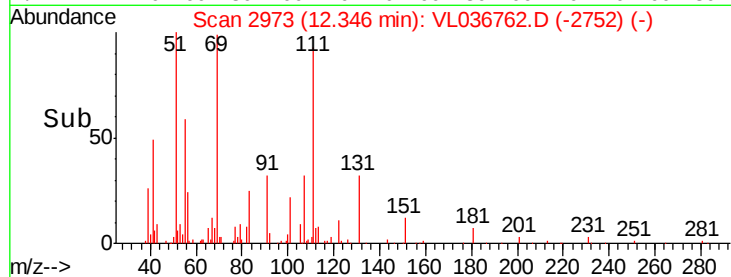
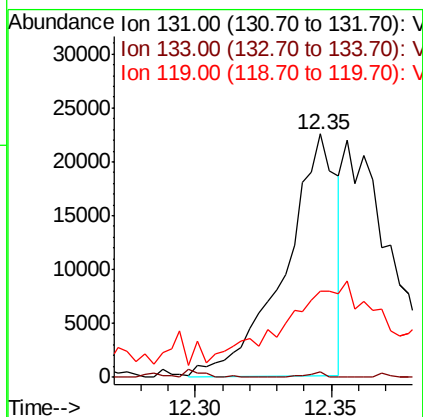
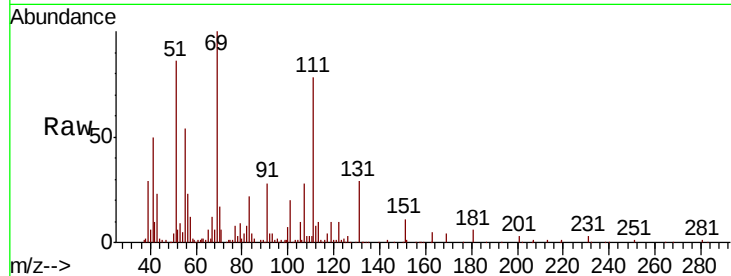




#56
 1,1,1,2-Tetrachloroethane
 Concen: 0.249 ppbv
 RT: 12.35 min Scan# 2973
 Delta R.T. 0.21 min
 Lab File: VL036762.D
 Acq: 8 Apr 2021 23:10

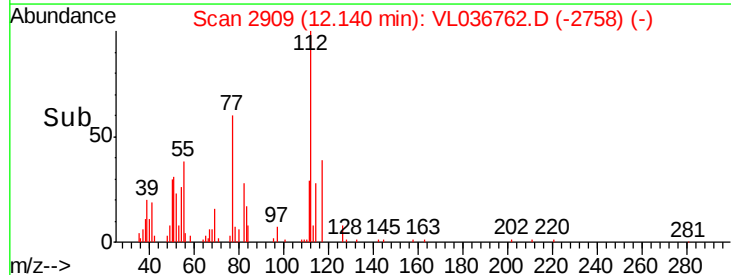
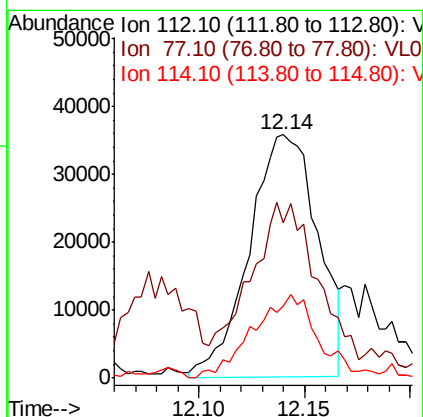
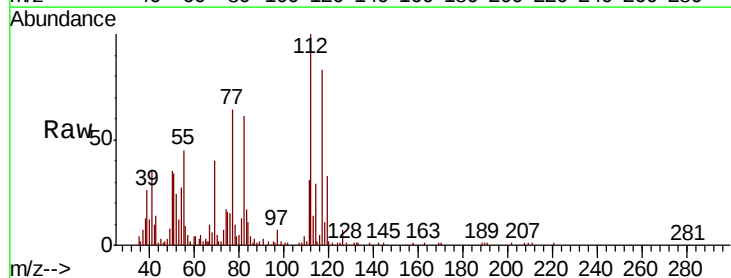
Instrument :
 MSVOA_L
 ClientSampled :
 SG-1

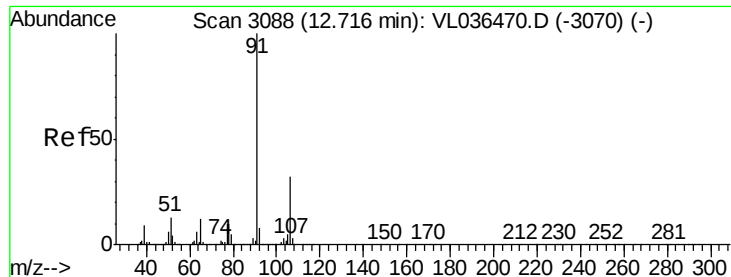
Tot Ion:131 Resp: 29530
 Ion Ratio Lower Upper
 131 100
 133 0.0 75.8 113.6#
 119 0.0 48.7 73.1#



#57
 Chlorobenzene
 Concen: 0.362 ppbv
 RT: 12.14 min Scan# 2909
 Delta R.T. -0.01 min
 Lab File: VL036762.D
 Acq: 8 Apr 2021 23:10

Tgt Ion:112 Resp: 80683
 Ion Ratio Lower Upper
 112 100
 77 39.8 56.0 84.0#
 114 30.1 29.0 35.4





#58

Ethyl Benzene

Concen: 0.539 ppbv

RT: 12.70 min Scan# 3083

Delta R.T. -0.02 min

Lab File: VL036762.D

Acq: 8 Apr 2021 23:10

Instrument :

MSVOA_L

ClientSampleID :

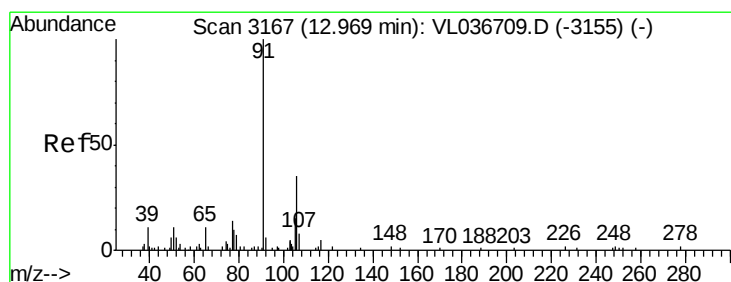
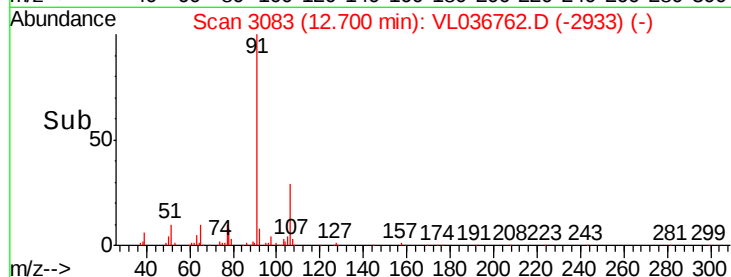
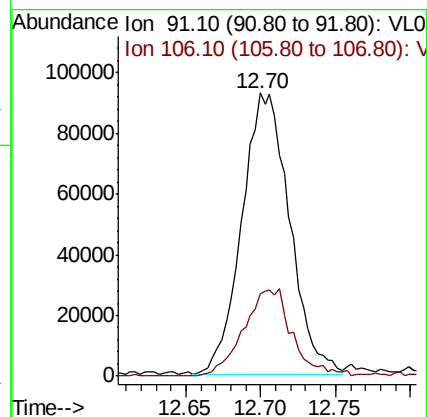
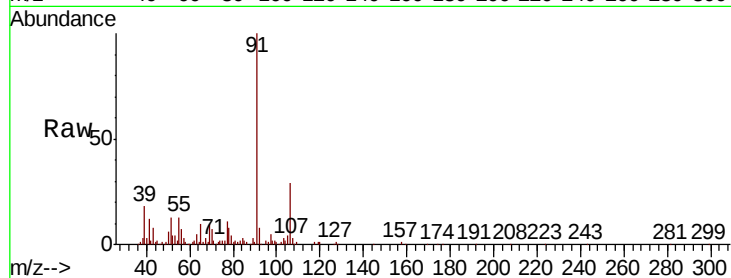
SG-1

Tot Ion: 91 Resp: 205450

Ion Ratio Lower Upper

91 100

106 29.3 25.3 37.9



#59

m/p-Xylene

Concen: 1.031 ppbv

RT: 12.96 min Scan# 3165

Delta R.T. -0.04 min

Lab File: VL036762.D

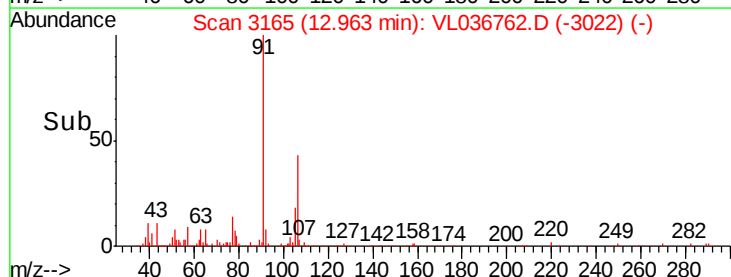
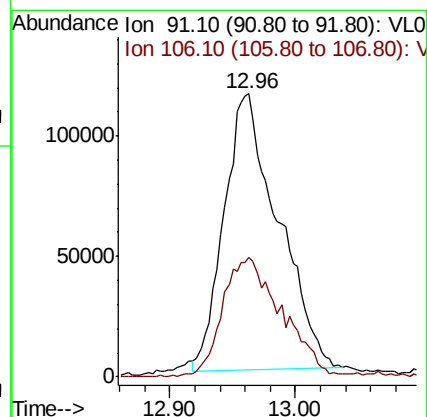
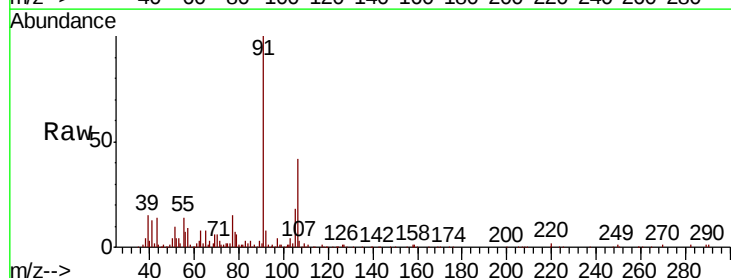
Acq: 8 Apr 2021 23:10

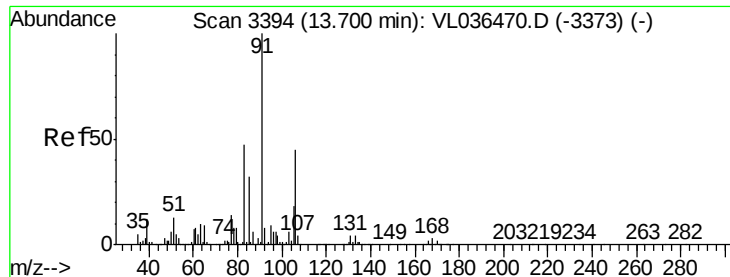
Tgt Ion: 91 Resp: 343134

Ion Ratio Lower Upper

91 100

106 47.2 35.3 52.9

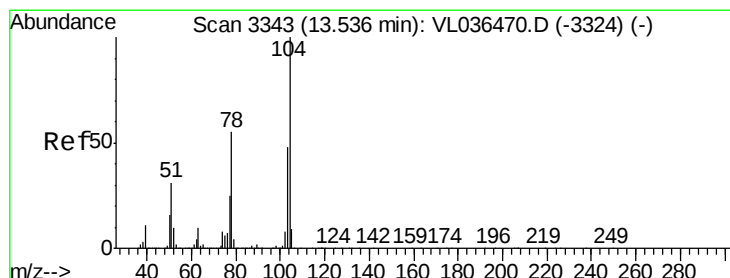
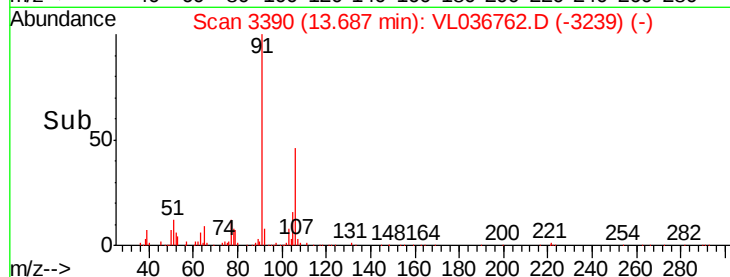
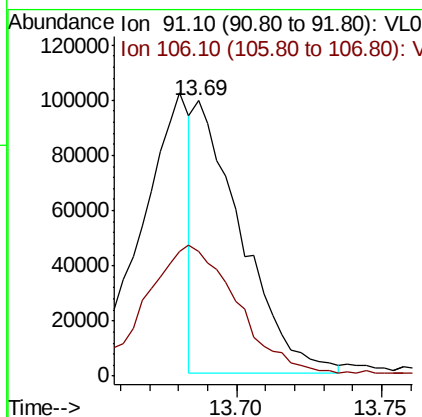
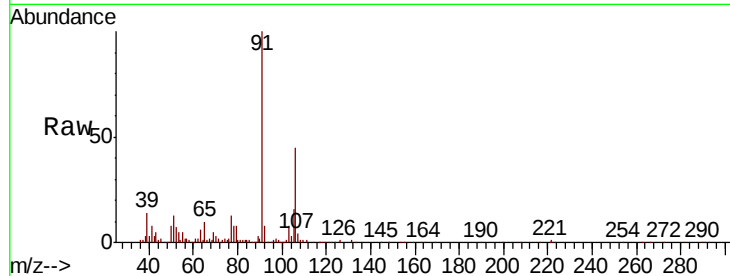




#60
o-Xylene
Concen: 0.347 ppbv
RT: 13.69 min Scan# 3390
Delta R.T. -0.01 min
Lab File: VL036762.D
Acq: 8 Apr 2021 23:10

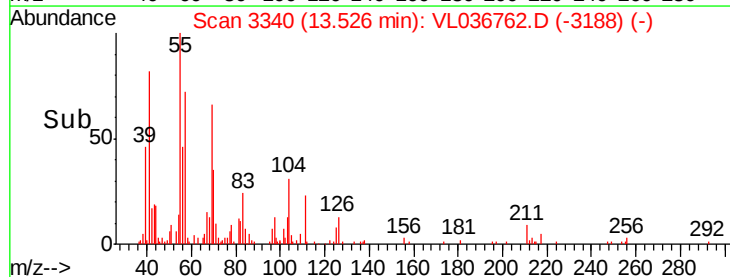
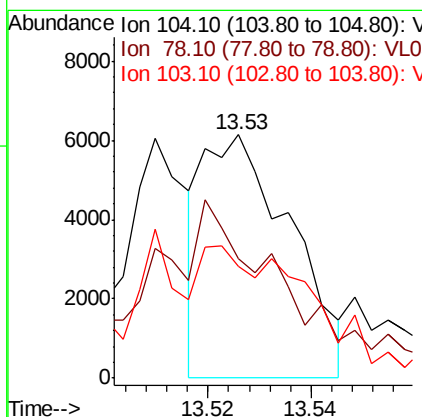
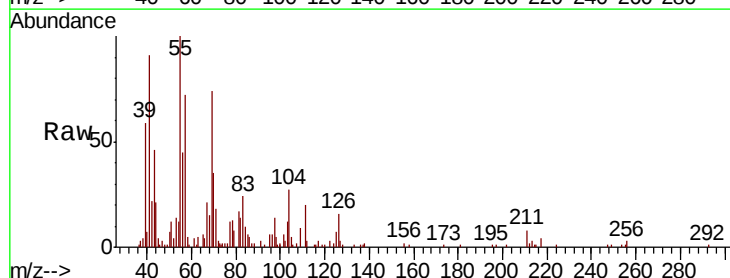
Instrument :
MSVOA_L
ClientSampleId :
SG-1

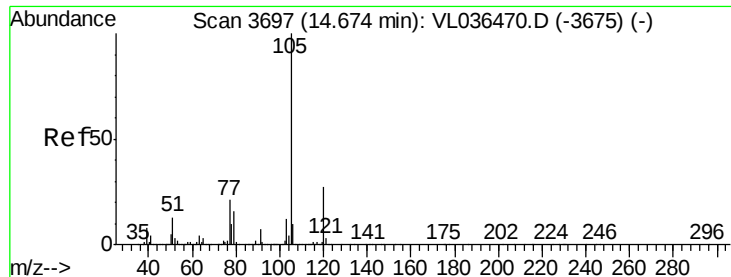
Tot Ion: 91 Resp: 111536
Ion Ratio Lower Upper
91 100
106 100.4 22.3 66.9#



#61
Styrene
Concen: 0.045 ppbv
RT: 13.53 min Scan# 3340
Delta R.T. -0.01 min
Lab File: VL036762.D
Acq: 8 Apr 2021 23:10

Tgt Ion: 104 Resp: 7267
Ion Ratio Lower Upper
104 100
78 148.9 43.8 65.8#
103 0.0 38.3 57.5#





#62

Isopropylbenzene

Concen: 0.080 ppbv

RT: 14.66 min Scan# 3694

Delta R.T. -0.01 min

Lab File: VL036762.D

Acq: 8 Apr 2021 23:10

Instrument :

MSVOA_L

ClientSampled :

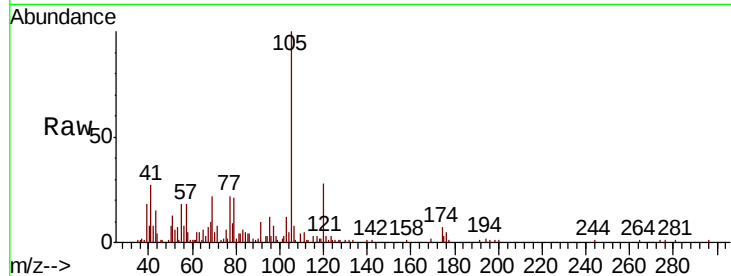
SG-1

Tot Ion:105 Resp: 34488

Ion Ratio Lower Upper

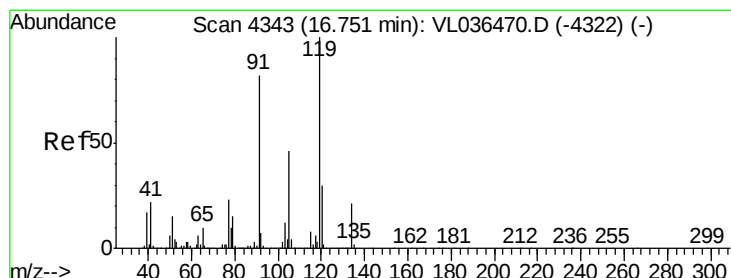
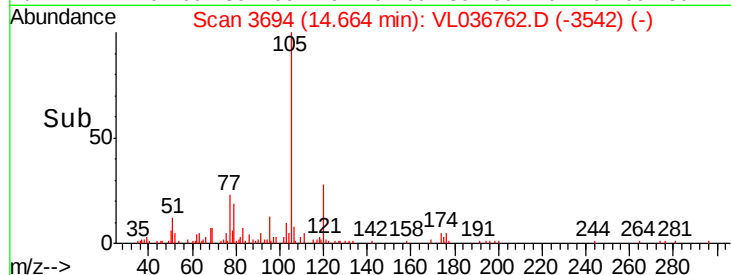
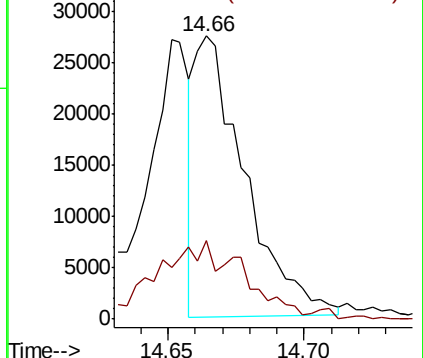
105 100

120 51.5 20.6 31.0#



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#65

tert-Butylbenzene

Concen: 2.836 ppbv

RT: 16.99 min Scan# 4418

Delta R.T. 0.24 min

Lab File: VL036762.D

Acq: 8 Apr 2021 23:10

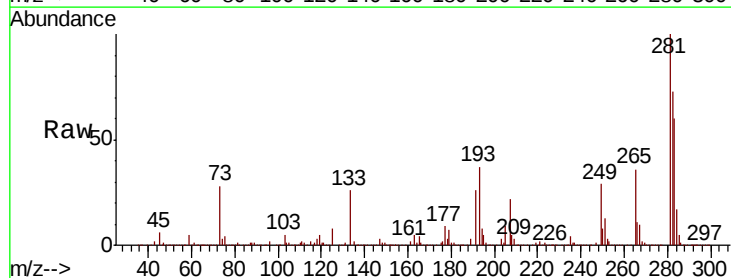
Tgt Ion:119 Resp: 1065394

Ion Ratio Lower Upper

119 100

91 3.0 67.5 101.3#

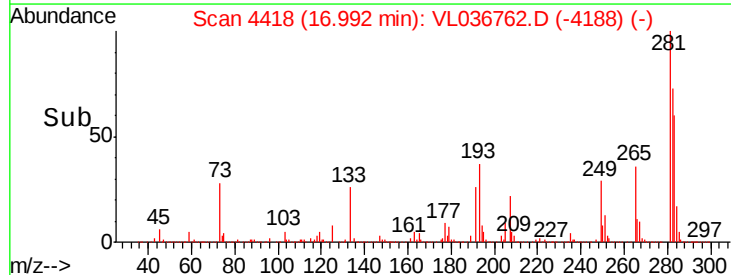
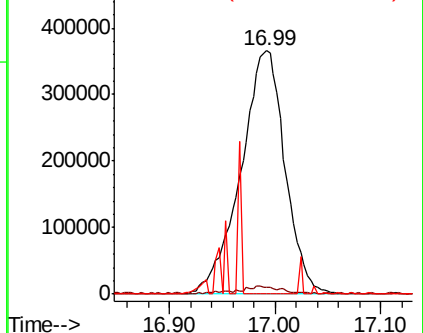
134 9.6 15.8 23.8#

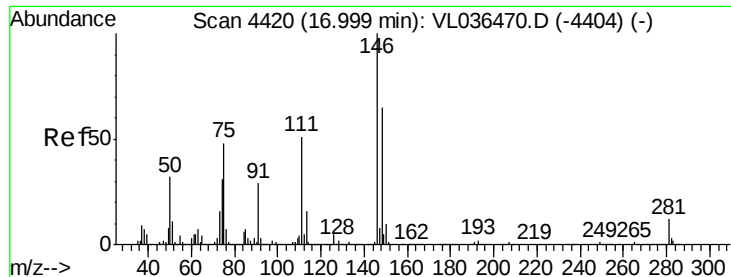


Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): V

Ion 134.20 (133.90 to 134.90): V

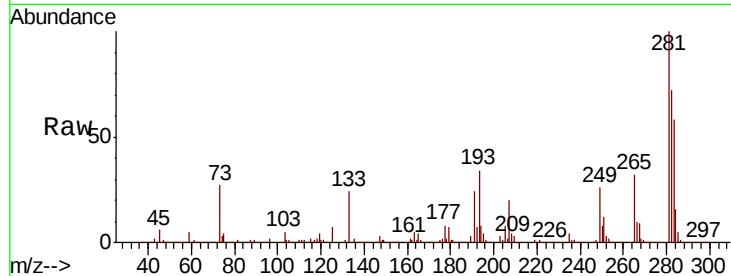




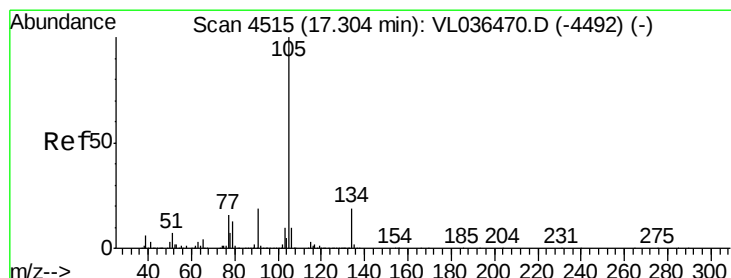
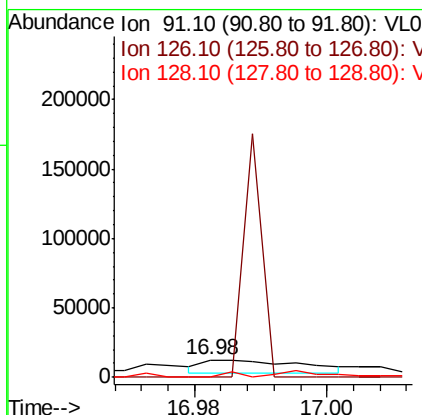
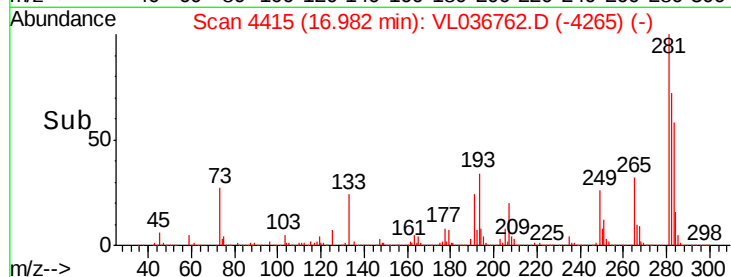
#66
Benzyl Chloride
Concen: 0.231 ppbv
RT: 16.98 min Scan# 4415
Delta R.T. -0.02 min
Lab File: VL036762.D
Acq: 8 Apr 2021 23:10

Instrument :
MSVOA_L
ClientSampleId :
SG-1

Tot Ion: 91 Resp: 9596
Ion Ratio Lower Upper
91 100
126 0.0 13.5 20.3#
128 0.0 4.2 6.4#

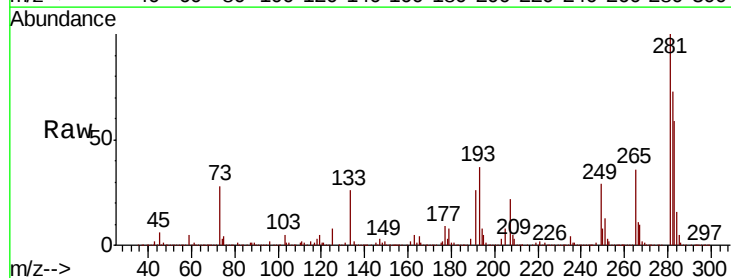


Abundance Ion 91.10 (90.80 to 91.80): VL0
Ion 126.10 (125.80 to 126.80): V
Ion 128.10 (127.80 to 128.80): V

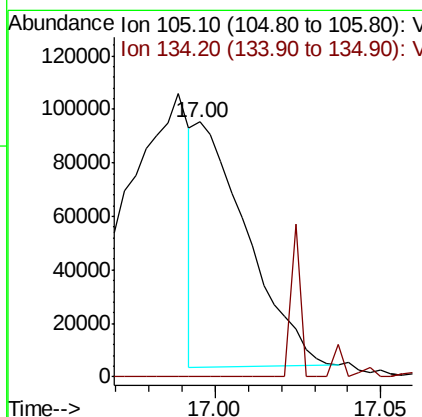
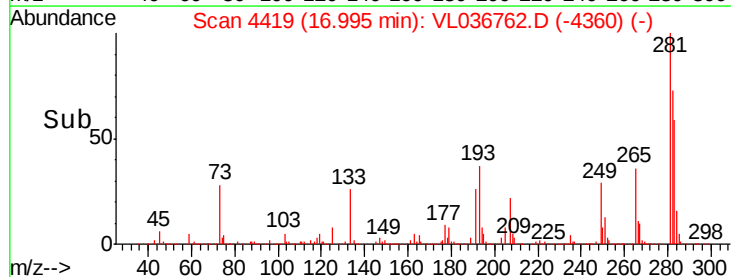


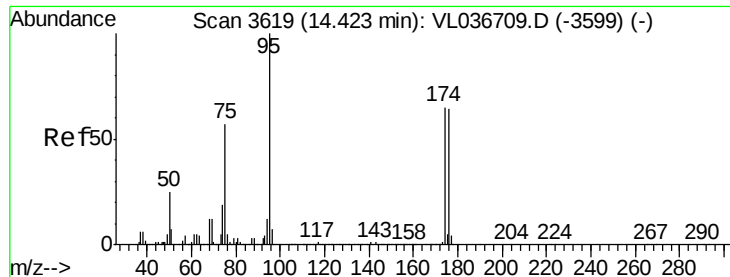
#67
sec-Butylbenzene
Concen: 0.187 ppbv
RT: 17.00 min Scan# 4419
Delta R.T. -0.31 min
Lab File: VL036762.D
Acq: 8 Apr 2021 23:10

Tgt Ion: 105 Resp: 99426
Ion Ratio Lower Upper
105 100
134 16.1 14.7 22.1



Abundance Ion 105.10 (104.80 to 105.80): V
Ion 134.20 (133.90 to 134.90): V





#68

1-Bromo-4-Fluorobenzene

Concen: 7.850 ppbv

RT: 14.41 min Scan# 3615

Delta R.T. -0.01 min

Lab File: VL036762.D

Acq: 8 Apr 2021 23:10

Instrument :

MSVOA_L

ClientSampleId :

SG-1

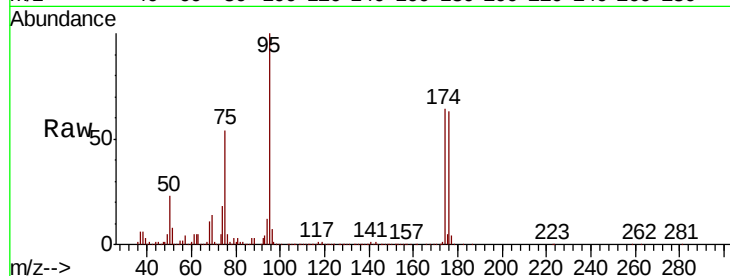
Tot Ion: 95 Resp: 1640501

Ion Ratio Lower Upper

95 100

174 68.7 51.0 76.6

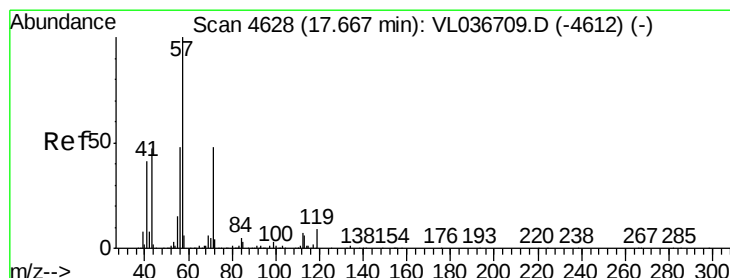
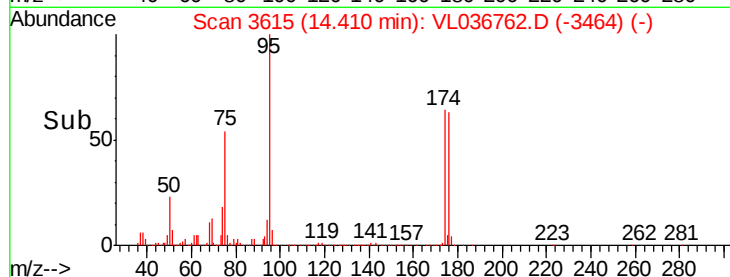
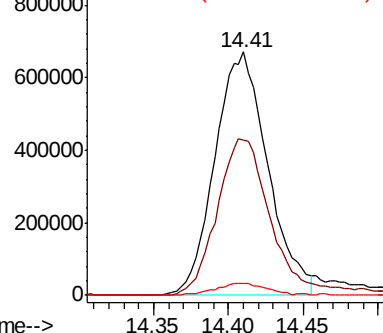
175 5.3 3.9 5.9



Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V



#69

p-Isopropyltoluene

Concen: 0.162 ppbv

RT: 17.64 min Scan# 4621

Delta R.T. -0.02 min

Lab File: VL036762.D

Acq: 8 Apr 2021 23:10

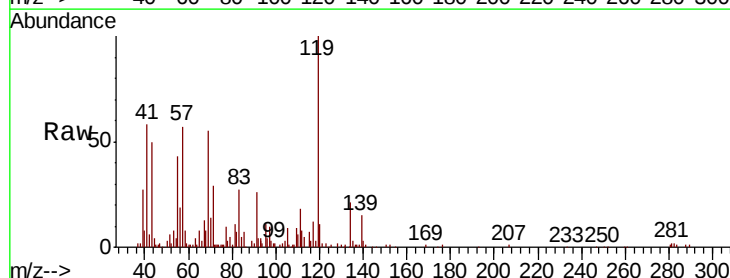
Tgt Ion: 119 Resp: 66958

Ion Ratio Lower Upper

119 100

134 40.3 20.6 30.8#

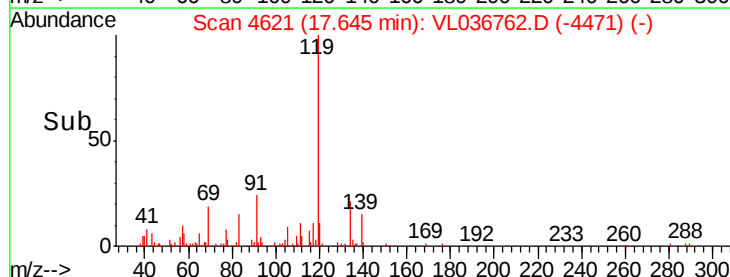
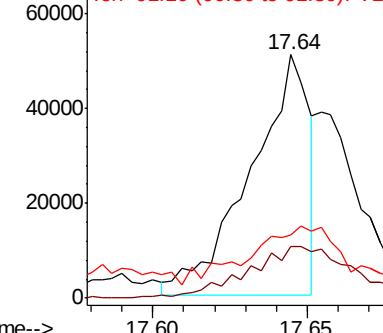
91 77.2 25.0 37.6#

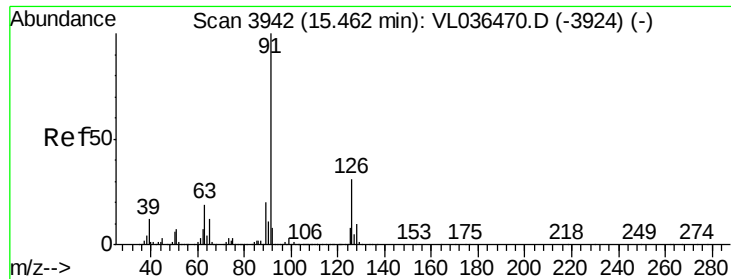


Abundance Ion 119.10 (118.80 to 119.80): V

Ion 134.20 (133.90 to 134.90): V

Ion 91.10 (90.80 to 91.80): VL0

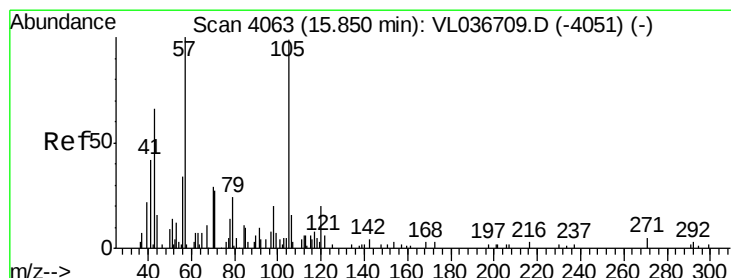
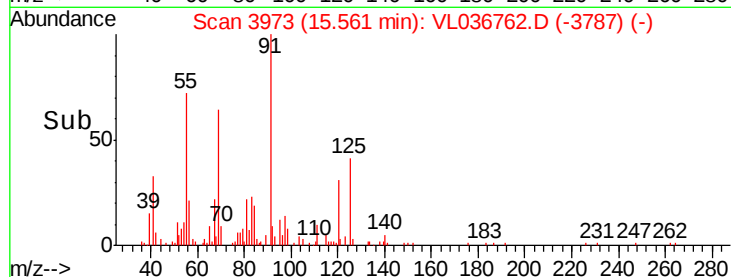
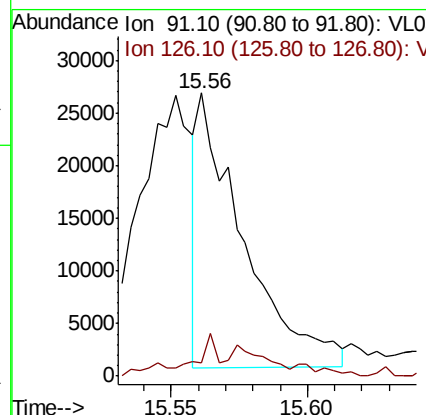
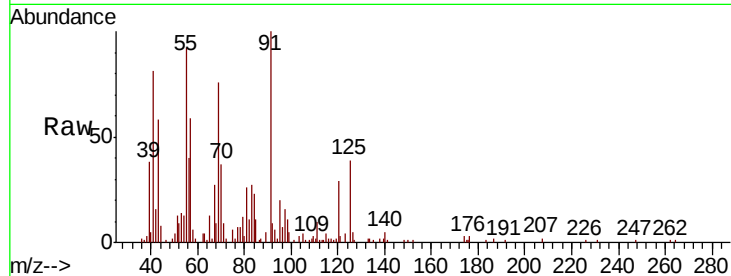




#71
 2-Chlorotoluene
 Concen: 0.093 ppbv
 RT: 15.56 min Scan# 3973
 Delta R.T. 0.10 min
 Lab File: VL036762.D
 Acq: 8 Apr 2021 23:10

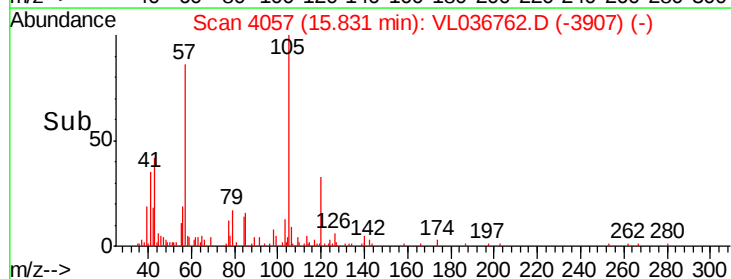
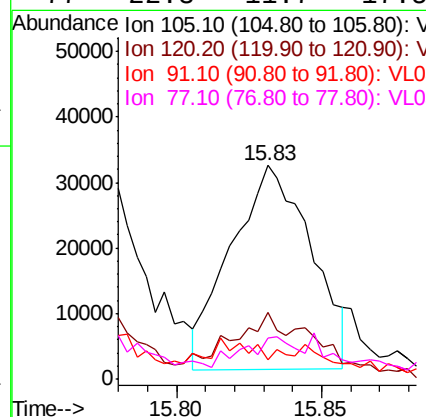
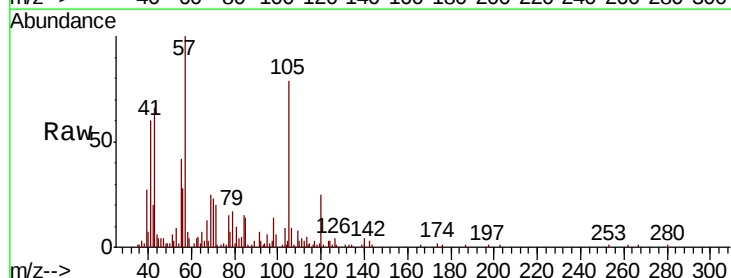
Instrument :
 MSVOA_L
 ClientSampled :
 SG-1

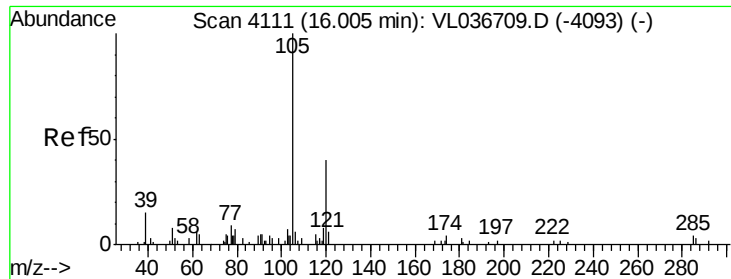
Tot Ion: 91 Resp: 30062
 Ion Ratio Lower Upper
 91 100
 126 24.9 12.1 48.5



#72
 4-Ethyltoluene
 Concen: 0.169 ppbv
 RT: 15.83 min Scan# 4057
 Delta R.T. -0.02 min
 Lab File: VL036762.D
 Acq: 8 Apr 2021 23:10

Tgt Ion:105 Resp: 59625
 Ion Ratio Lower Upper
 105 100
 120 40.3 24.0 36.0#
 91 20.0 11.0 16.4#
 77 22.3 11.7 17.5#





#73

1,3,5-Trimethylbenzene

Concen: 0.357 ppbv

RT: 15.99 min Scan# 4107

Delta R.T. -0.02 min

Lab File: VL036762.D

Acq: 8 Apr 2021 23:10

Instrument :

MSVOA_L

ClientSampled :

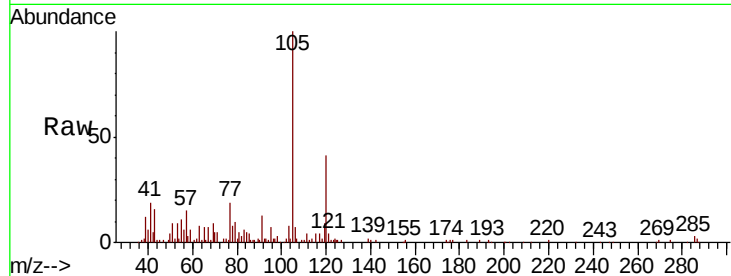
SG-1

Tot Ion:105 Resp: 117574

Ion Ratio Lower Upper

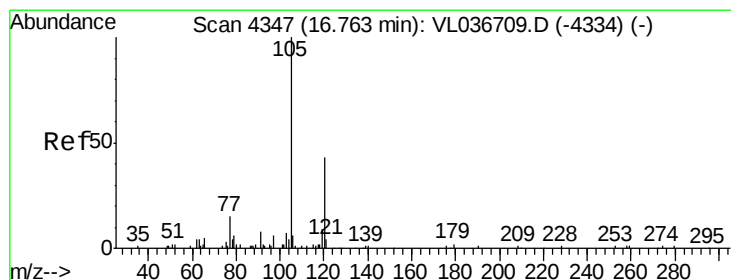
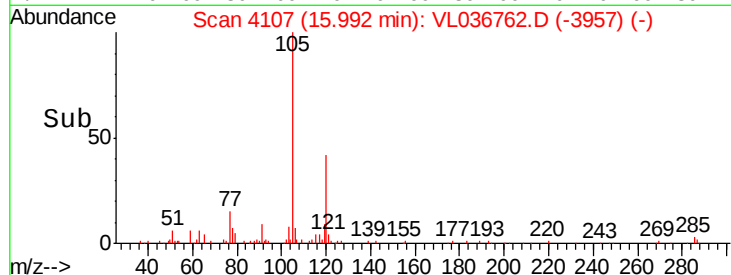
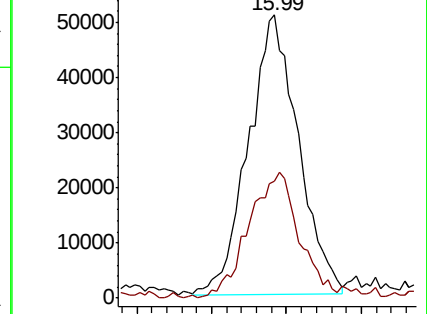
105 100

120 40.9 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: 0.531 ppbv

RT: 16.75 min Scan# 4344

Delta R.T. -0.02 min

Lab File: VL036762.D

Acq: 8 Apr 2021 23:10

Tgt Ion:105 Resp: 187100

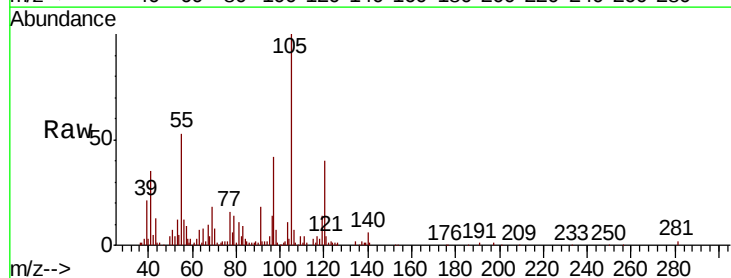
Ion Ratio Lower Upper

105 100

120 39.4 39.2 58.8

91 15.8 42.6 64.0#

77 13.5 18.6 28.0#

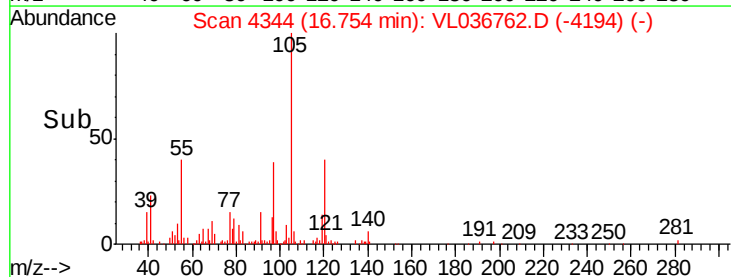
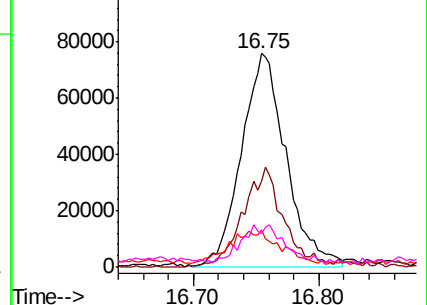


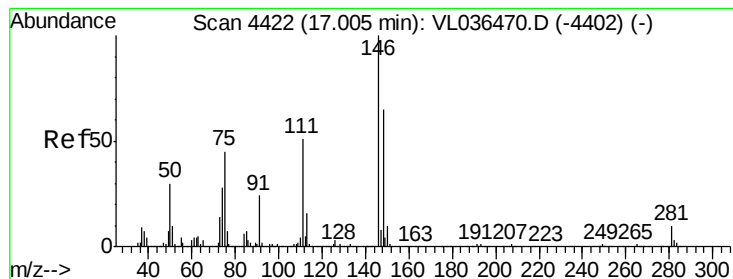
Abundance Ion 105.10 (104.80 to 105.80): V

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





#75

1,3-Dichlorobenzene

Concen: 0.086 ppbv

RT: 16.99 min Scan# 4417

Delta R.T. -0.02 min

Lab File: VL036762.D

Acq: 8 Apr 2021 23:10

Instrument :

MSVOA_L

ClientSampled :

SG-1

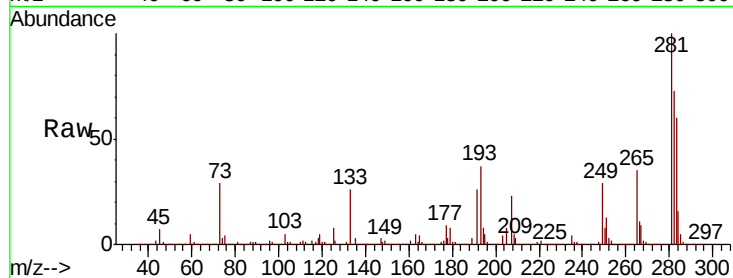
Tot Ion:146 Resp: 16961

Ion Ratio Lower Upper

146 100

111 0.0 24.5 73.5#

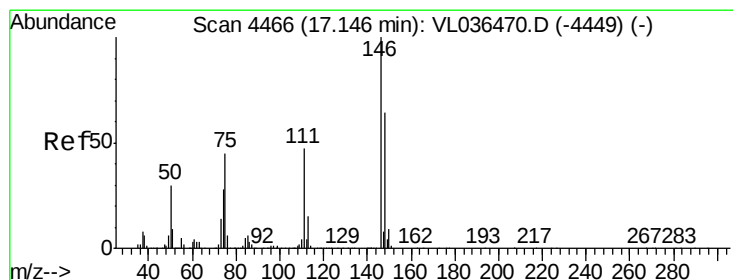
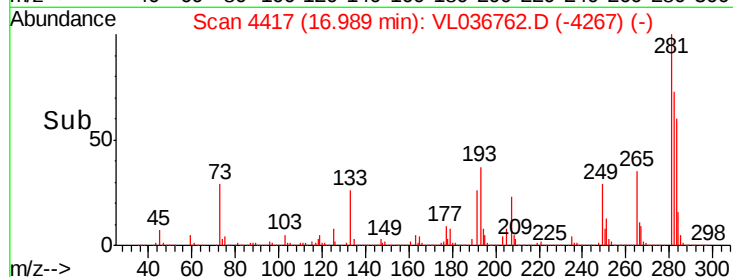
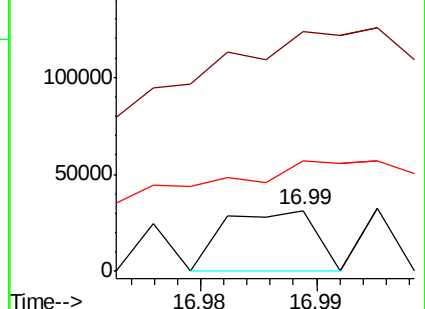
148 890.2 32.3 96.9#



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



#76

1,4-Dichlorobenzene

Concen: 0.063 ppbv

RT: 17.13 min Scan# 4460

Delta R.T. -0.02 min

Lab File: VL036762.D

Acq: 8 Apr 2021 23:10

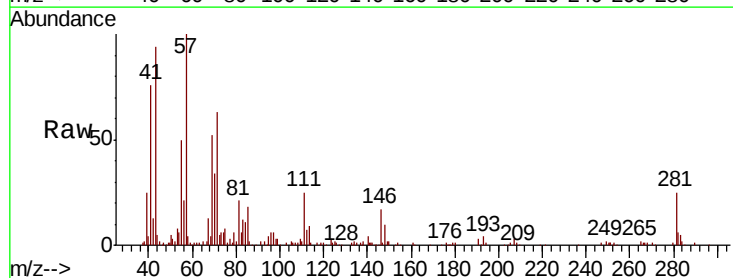
Tgt Ion:146 Resp: 12429

Ion Ratio Lower Upper

146 100

111 264.1 24.3 72.8#

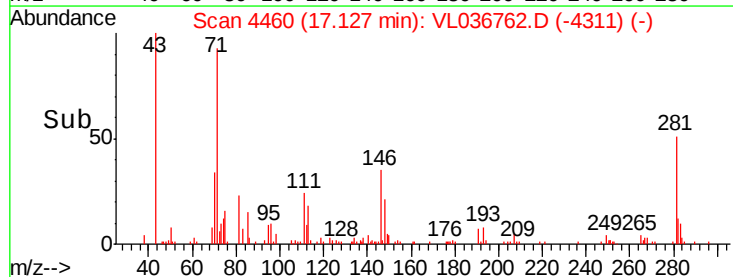
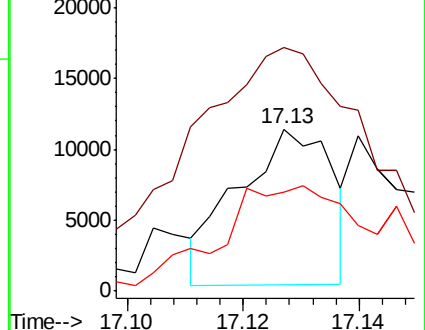
148 145.1 33.0 98.9#

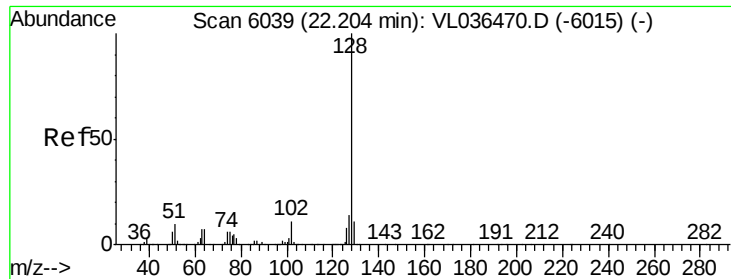


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V





#79

Naphthalene

Concen: 0.045 ppbv

RT: 22.18 min Scan# 6032

Delta R.T. -0.02 min

Lab File: VL036762.D

Acq: 8 Apr 2021 23:10

Instrument :

MSVOA_L

ClientSampleId :

SG-1

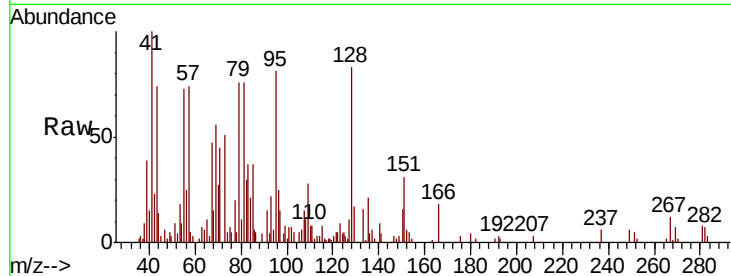
Tot Ion:128 Resp: 9158

Ion Ratio Lower Upper

128 100

127 14.2 10.9 16.3

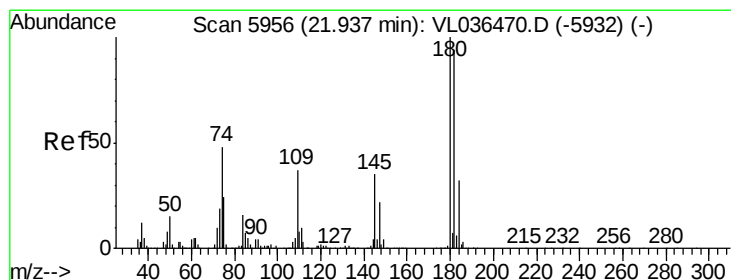
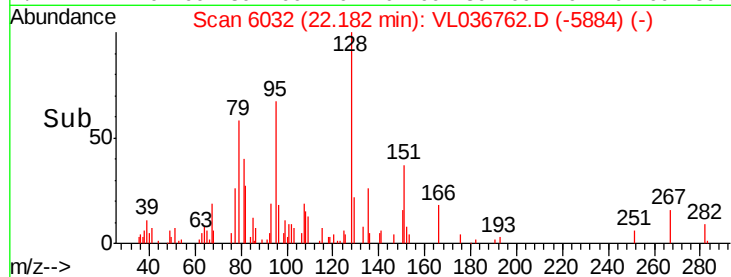
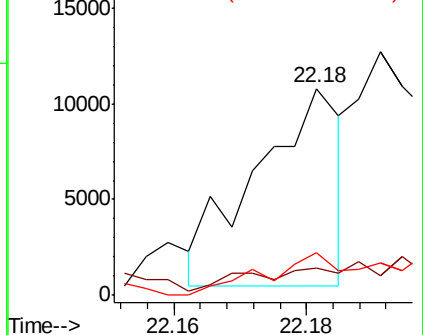
129 26.0 9.0 13.4#



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



#81

1,2,4-Trichlorobenzene

Concen: 0.163 ppbv

RT: 21.52 min Scan# 5826

Delta R.T. -0.42 min

Lab File: VL036762.D

Acq: 8 Apr 2021 23:10

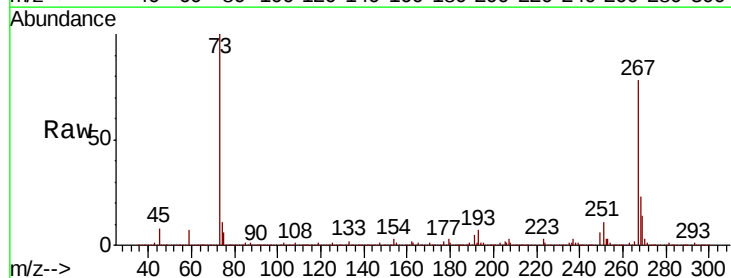
Tgt Ion:180 Resp: 20658

Ion Ratio Lower Upper

180 100

182 3.2 80.8 121.2#

184 0.0 25.0 37.4#



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

