

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL051921\
 Data File : VL037003.D
 Acq On : 19 May 2021 22:27
 Operator : SY/AP
 Sample : M2424-04DLDUP 10X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 KSV-01DLDUP

Quant Time: May 20 06:33:09 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL051821AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue May 18 12:00:15 2021
 QLast Update : Tue May 18 12:00:15 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.64	49	1171391	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.15	114	3564816	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.06	117	3235918	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.39	95	2426425	9.98	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.80%

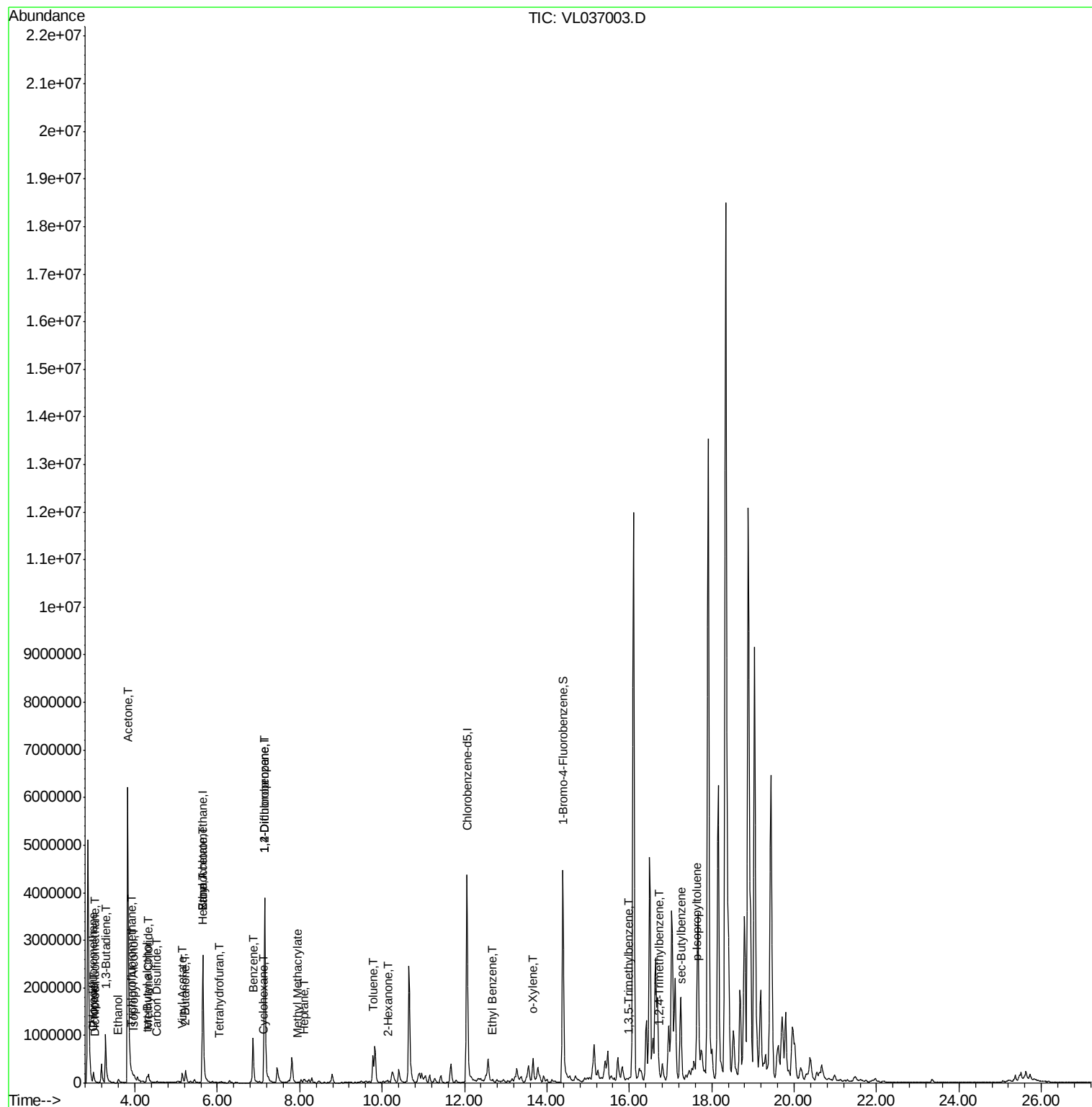
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.03	85	9592	0.048	ppbv	95
3) Chlorodifluoromethane	2.97	51	8428	0.039	ppbv	93
9) Propene	2.99	41	106518	1.386	ppbv	100
10) Heptane	8.10	43	18898	0.099	ppbv #	54
11) Trichlorofluoromethane	3.93	101	26245	0.143	ppbv	89
13) Ethanol	3.60	45	48288	4.710	ppbv #	17
15) Acetone	3.83	43	8907569	74.241	ppbv	99
16) 1,3-Butadiene	3.29	39	316169	4.241	ppbv #	16
17) tert-Butyl alcohol	4.29	59	142273	1.295	ppbv	96
19) Isopropyl Alcohol	3.96	45	38049	0.590	ppbv #	30
20) Methylene Chloride	4.33	84	51077	0.794	ppbv	91
23) Vinyl Acetate	5.14	43	30764	0.162	ppbv #	23
25) Ethyl Acetate	5.65	43	131694	0.457	ppbv #	92
26) Hexane	5.66	57	84706	0.575	ppbv #	12
27) Carbon Disulfide	4.53	76	39794	0.268	ppbv #	87
30) Cyclohexane	7.10	84	7669	0.061	ppbv #	24
34) 2-Butanone	5.22	43	363631	2.801	ppbv	94
36) Benzene	6.86	78	904279	2.945	ppbv	98
39) 1,2-Dichloropropane	7.15	63	833855	7.050	ppbv #	26
41) Tetrahydrofuran	6.04	42	2468	0.033	ppbv #	51
43) Methyl Methacrylate	7.96	69	3819	0.036	ppbv #	5
51) 2-Hexanone	10.13	43	18063	0.160	ppbv #	1
53) Toluene	9.78	91	482495	1.321	ppbv	99
58) Ethyl Benzene	12.68	91	40429	0.089	ppbv	95
60) o-Xylene	13.66	91	22151	0.062	ppbv	97
67) sec-Butylbenzene	17.27	105	23663	0.037	ppbv #	82
69) p-Isopropyltoluene	17.63	119	23480	0.043	ppbv #	67
73) 1,3,5-Trimethylbenzene	15.97	105	15355	0.038	ppbv	99
74) 1,2,4-Trimethylbenzene	16.74	105	36651	0.088	ppbv #	73

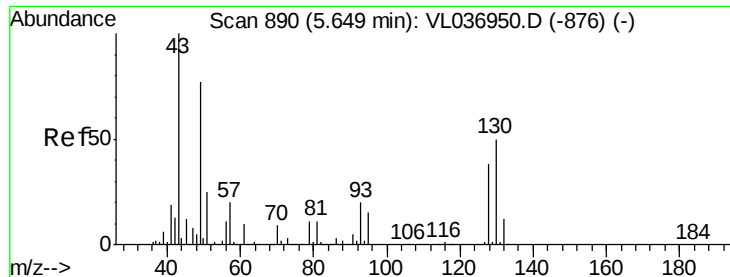
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL051921\
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Misc : 400mL/MSVOA L
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Instrument :
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ClientSampleId :
KSV-01DL DUP

Quant Time: May 20 06:33:09 2021
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL051821AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue May 18 12:00:15 2021
QLast Update : Tue May 18 12:00:15 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.64 min Scan# 888

Delta R.T. -0.01 min

Lab File: VL037003.D

Acq: 19 May 2021 22:27

Instrument :

MSVOA_L

ClientSampleId :

KSV-01DLDP

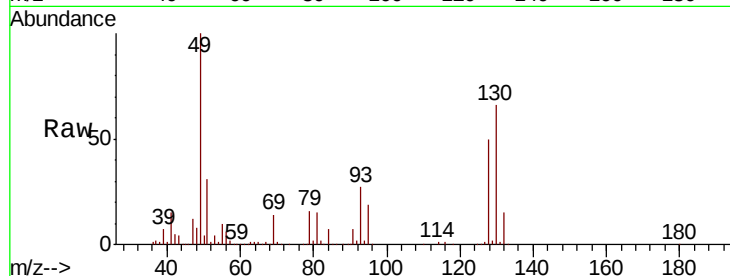
Tot Ion: 49 Resp: 1171391

Ion Ratio Lower Upper

49 100

128 54.1 26.9 80.7

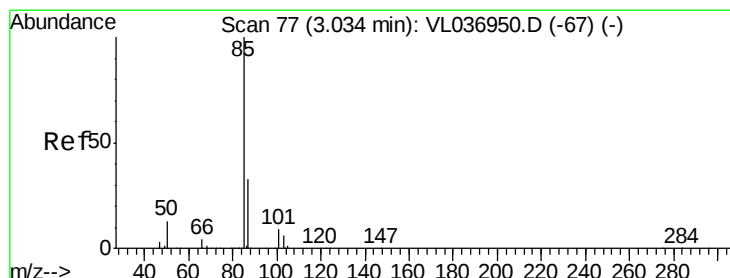
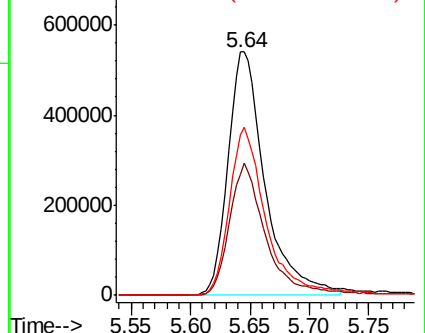
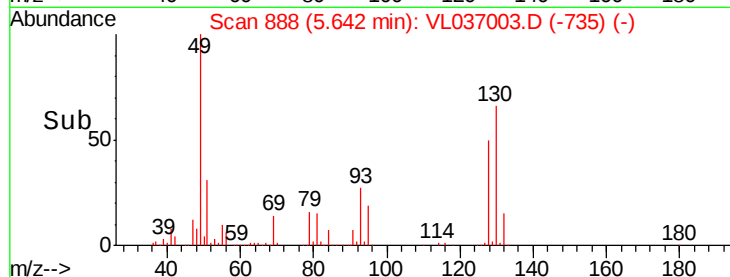
130 70.0 33.8 101.4



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 0.048 ppbv

RT: 3.03 min Scan# 76

Delta R.T. -0.00 min

Lab File: VL037003.D

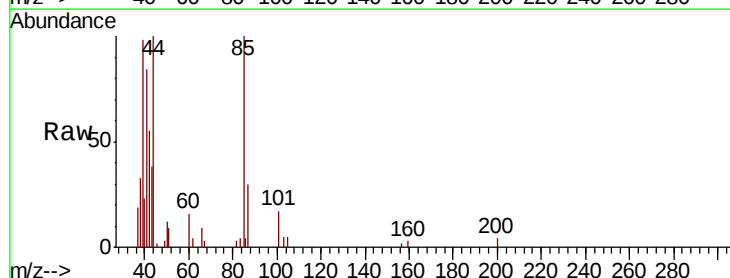
Acq: 19 May 2021 22:27

Tgt Ion: 85 Resp: 9592

Ion Ratio Lower Upper

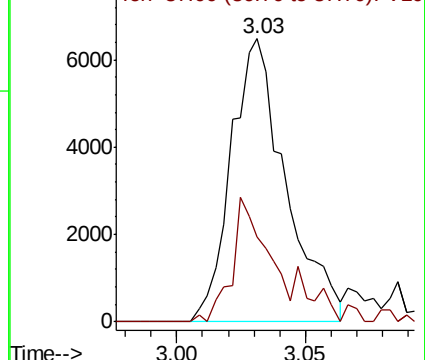
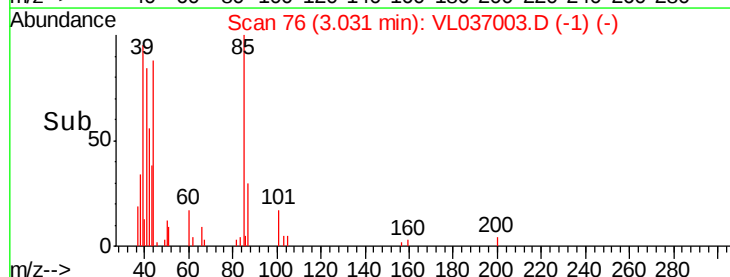
85 100

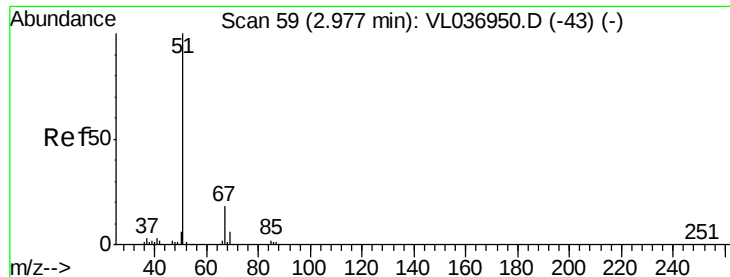
87 30.2 26.6 39.8



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.039 ppbv

RT: 2.97 min Scan# 58

Delta R.T. -0.00 min

Lab File: VL037003.D

Acq: 19 May 2021 22:27

Instrument :

MSVOA_L

ClientSampleId :

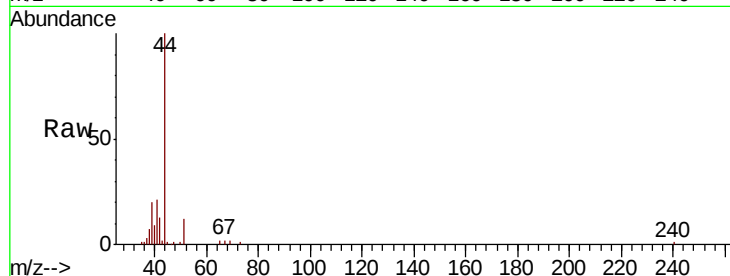
KSV-01DLDP

Tot Ion: 51 Resp: 8428

Ion Ratio Lower Upper

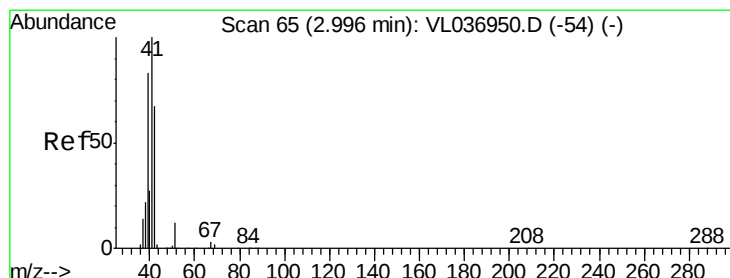
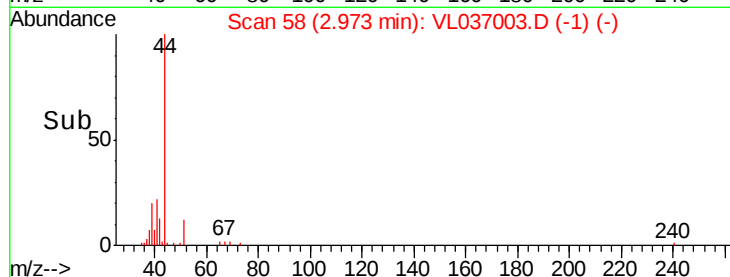
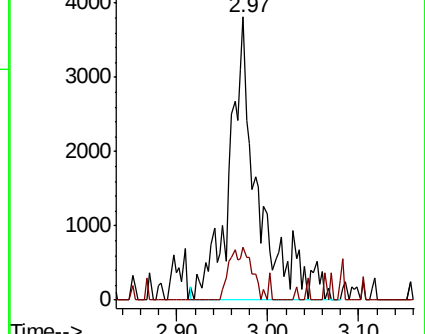
51 100

67 15.2 14.6 21.8



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#9

Propene

Concen: 1.386 ppbv

RT: 2.99 min Scan# 63

Delta R.T. -0.01 min

Lab File: VL037003.D

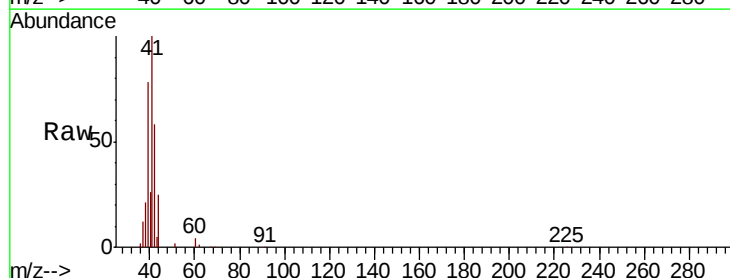
Acq: 19 May 2021 22:27

Tgt Ion: 41 Resp: 106518

Ion Ratio Lower Upper

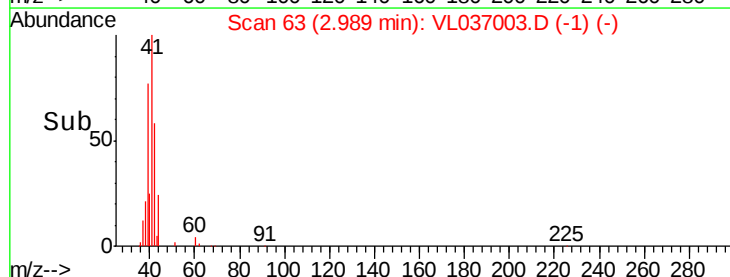
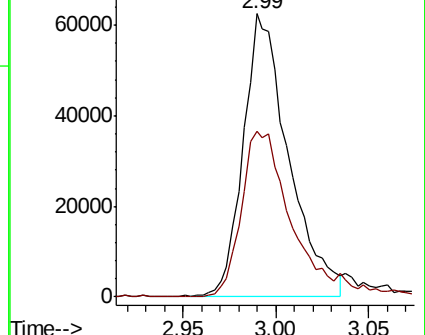
41 100

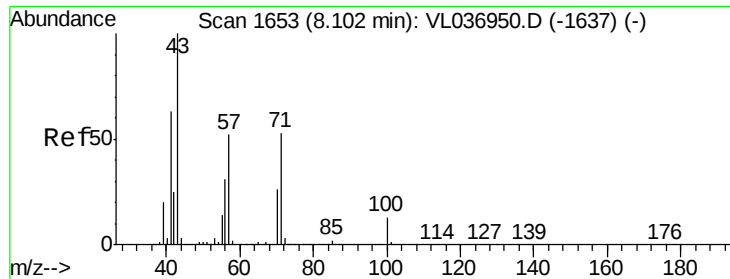
42 67.4 53.9 80.9



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0





#10

Heptane

Concen: 0.099 ppbv

RT: 8.10 min Scan# 1651

Delta R.T. -0.01 min

Lab File: VL037003.D

Acq: 19 May 2021 22:27

Instrument :

MSVOA_L

ClientSampleId :

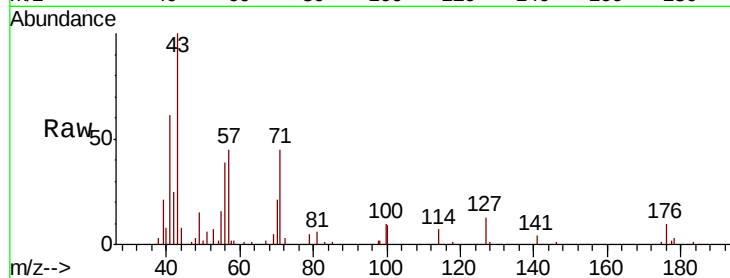
KSV-01DLDP

Tot Ion: 43 Resp: 18898

Ion Ratio Lower Upper

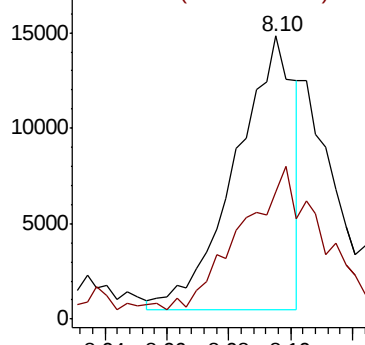
43 100

57 83.3 41.0 61.6#

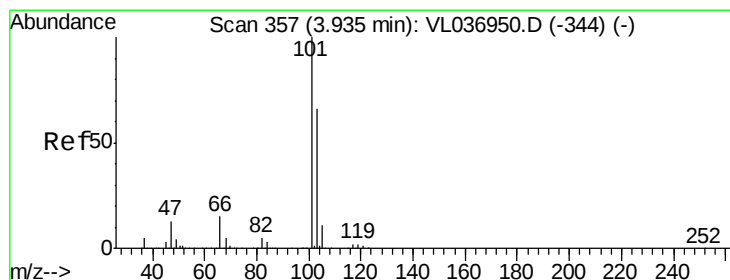
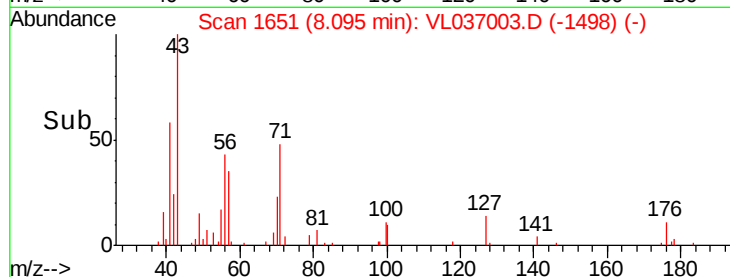


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0



Time-->



#11

Trichlorofluoromethane

Concen: 0.143 ppbv

RT: 3.93 min Scan# 357

Delta R.T. -0.00 min

Lab File: VL037003.D

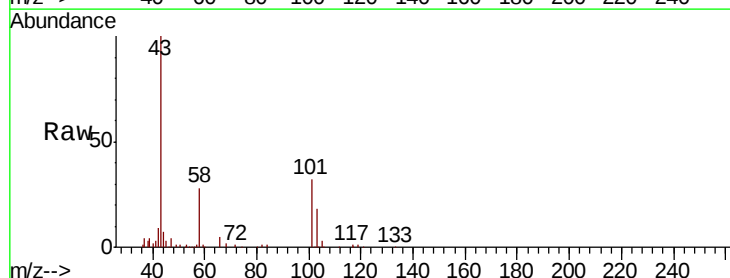
Acq: 19 May 2021 22:27

Tgt Ion: 101 Resp: 26245

Ion Ratio Lower Upper

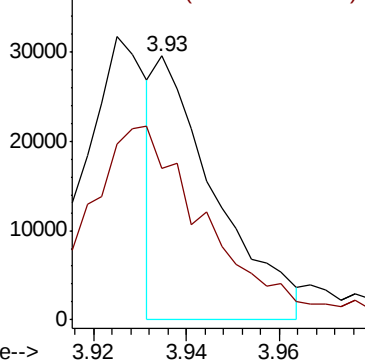
101 100

103 57.3 52.6 79.0

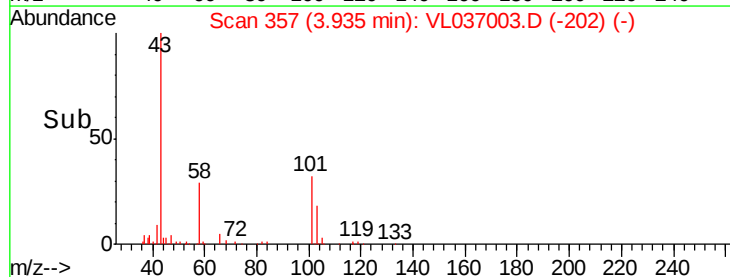


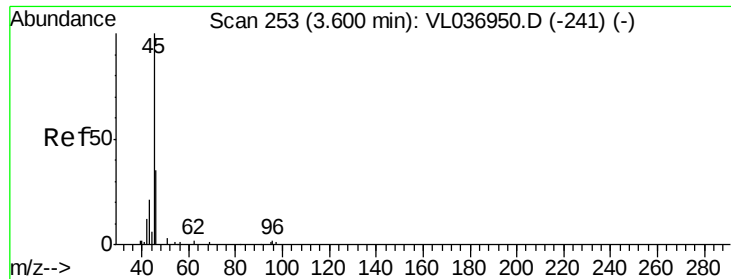
Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



Time-->

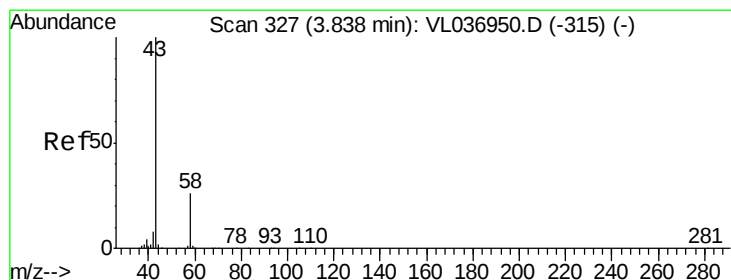
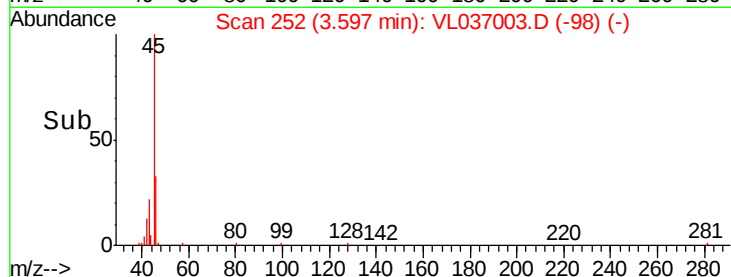
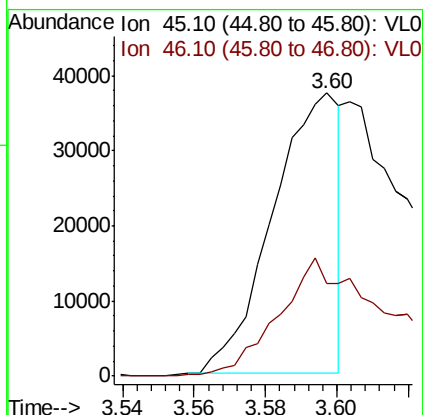
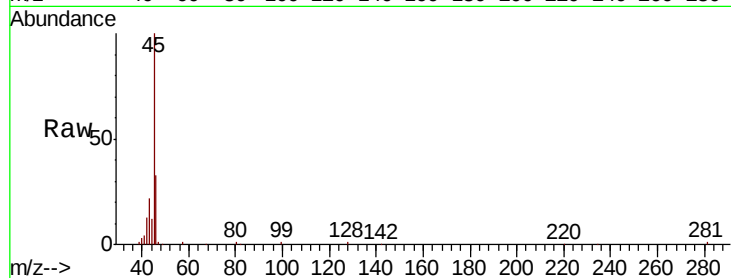




#13
Ethanol
Concen: 4.710 ppbv
RT: 3.60 min Scan# 252
Delta R.T. -0.00 min
Lab File: VL037003.D
Acq: 19 May 2021 22:27

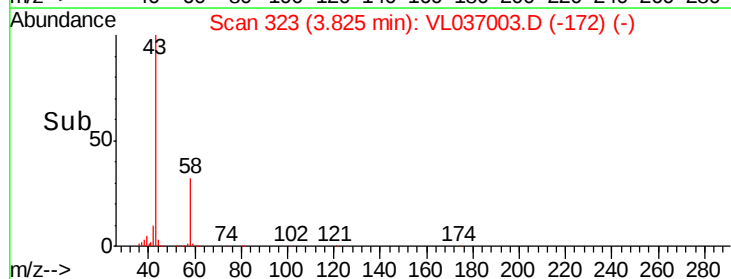
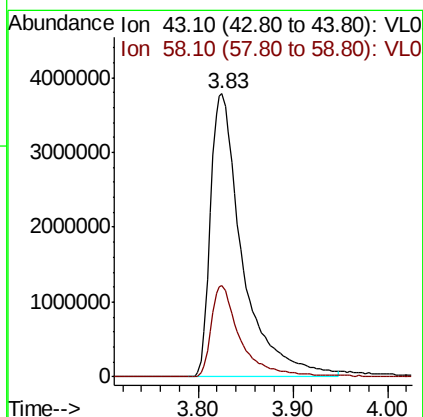
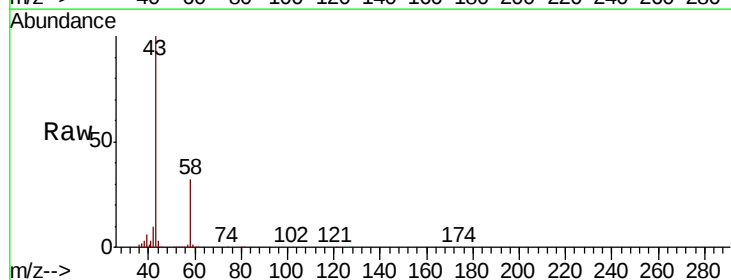
Instrument :
MSVOA_L
ClientSampleId :
KSV-01DLDUP

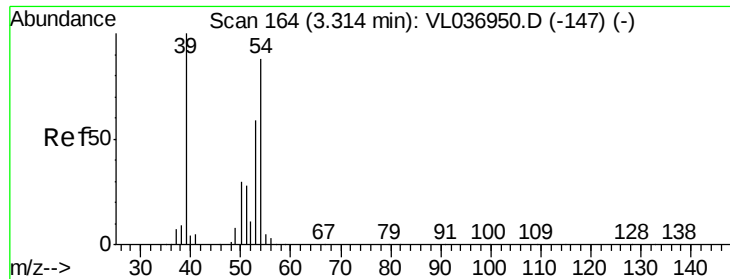
Tot Ion: 45 Resp: 48288
Ion Ratio Lower Upper
45 100
46 92.6 16.3 65.3#



#15
Acetone
Concen: 74.241 ppbv
RT: 3.83 min Scan# 323
Delta R.T. -0.01 min
Lab File: VL037003.D
Acq: 19 May 2021 22:27

Tgt Ion: 43 Resp: 8907569
Ion Ratio Lower Upper
43 100
58 30.5 24.0 36.0

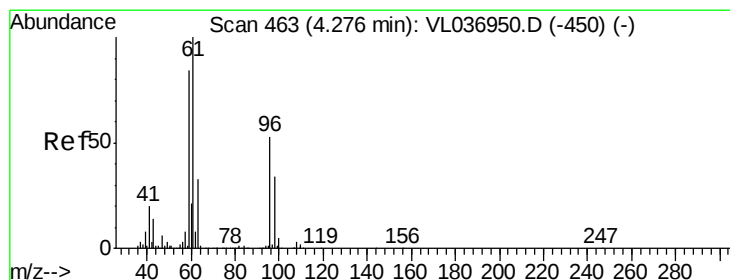
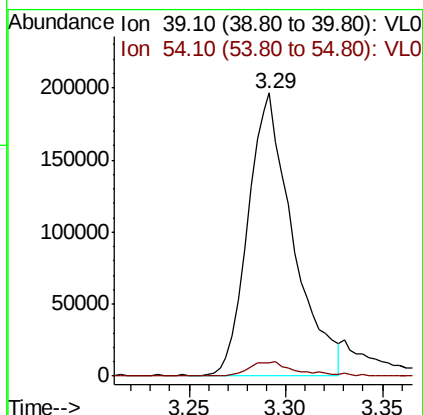
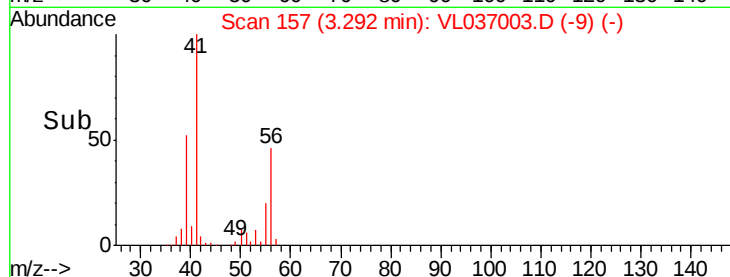
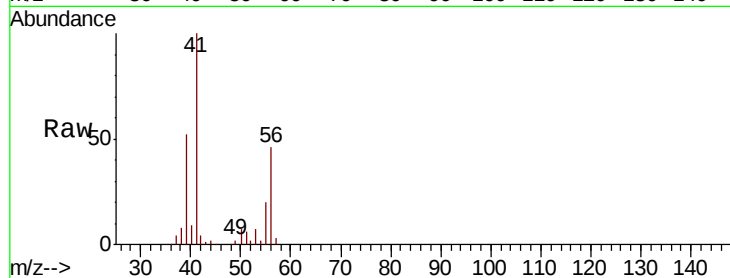




#16
1,3-Butadiene
Concen: 4.241 ppbv
RT: 3.29 min Scan# 157
Delta R.T. -0.02 min
Lab File: VL037003.D
Acq: 19 May 2021 22:27

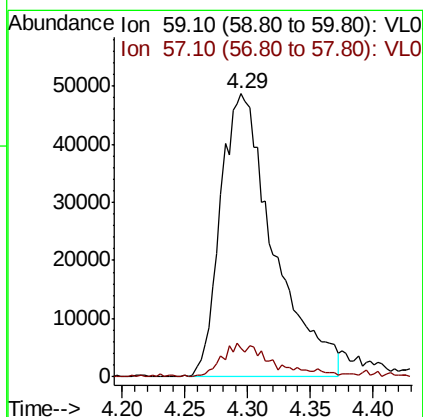
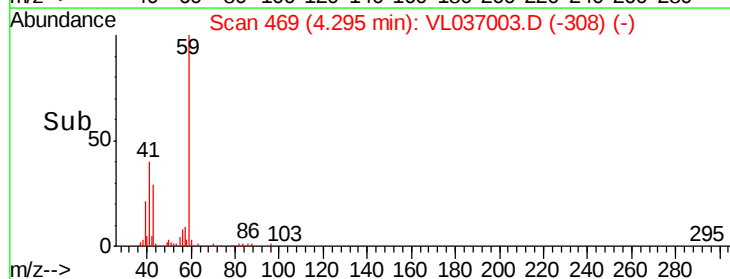
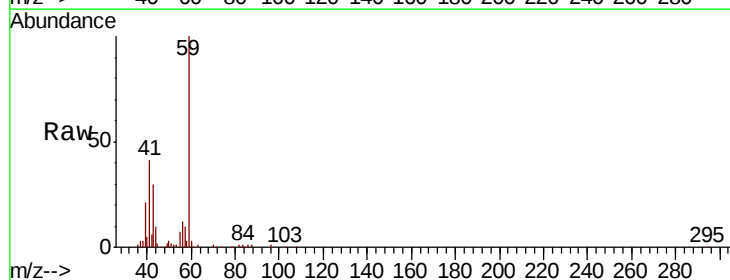
Instrument :
MSVOA_L
ClientSampleId :
KSV-01DLDP

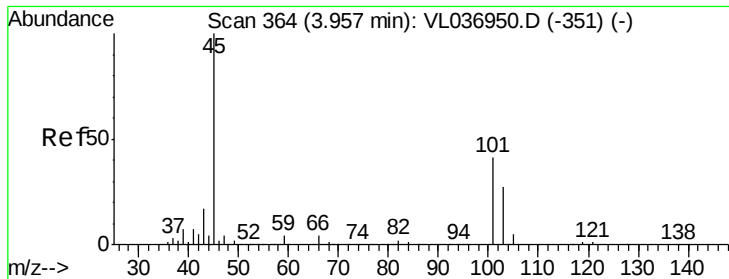
Tot Ion: 39 Resp: 316169
Ion Ratio Lower Upper
39 100
54 5.8 63.2 94.8#



#17
tert-Butyl alcohol
Concen: 1.295 ppbv
RT: 4.29 min Scan# 469
Delta R.T. 0.02 min
Lab File: VL037003.D
Acq: 19 May 2021 22:27

Tgt Ion: 59 Resp: 142273
Ion Ratio Lower Upper
59 100
57 12.1 8.3 12.5





#19

Isopropyl Alcohol

Concen: 0.590 ppbv

RT: 3.96 min Scan# 365

Delta R.T. 0.00 min

Lab File: VL037003.D

Acq: 19 May 2021 22:27

Instrument :

MSVOA_L

ClientSampleId :

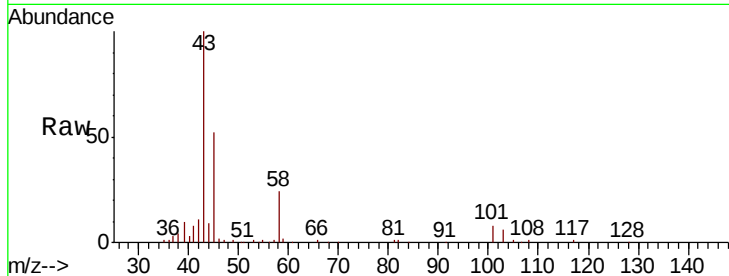
KSV-01DLDP

Tot Ion: 45 Resp: 38049

Ion Ratio Lower Upper

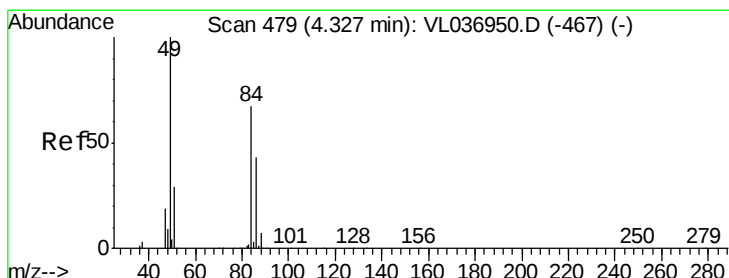
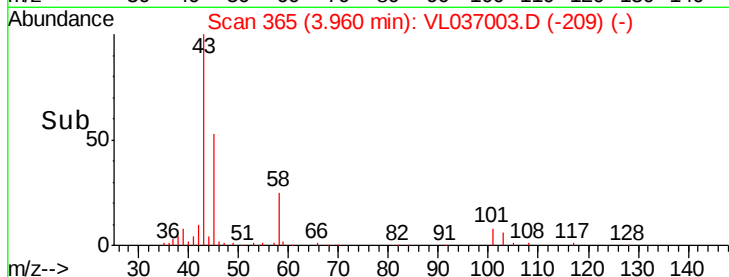
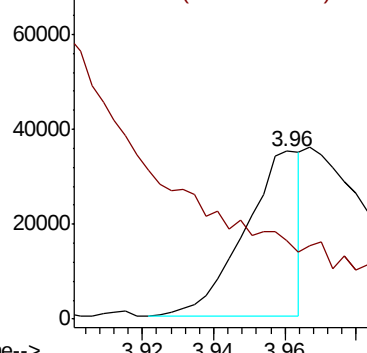
45 100

58 0.0 37.2 55.8#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#20

Methylene Chloride

Concen: 0.794 ppbv

RT: 4.33 min Scan# 479

Delta R.T. -0.00 min

Lab File: VL037003.D

Acq: 19 May 2021 22:27

Tgt Ion: 84 Resp: 51077

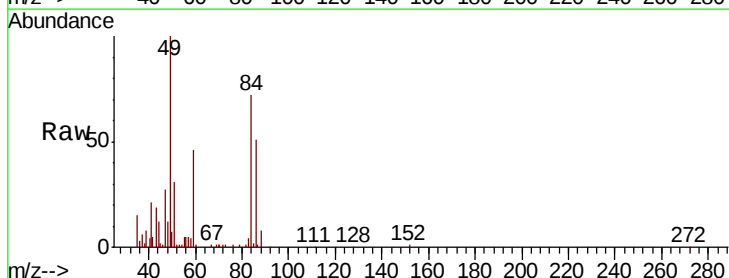
Ion Ratio Lower Upper

84 100

49 136.6 119.8 179.6

51 40.4 35.1 52.7

86 71.1 50.9 76.3

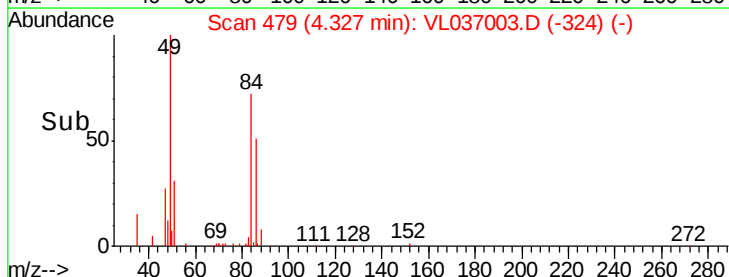
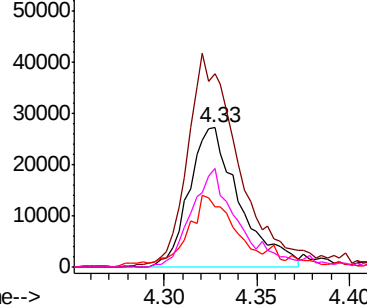


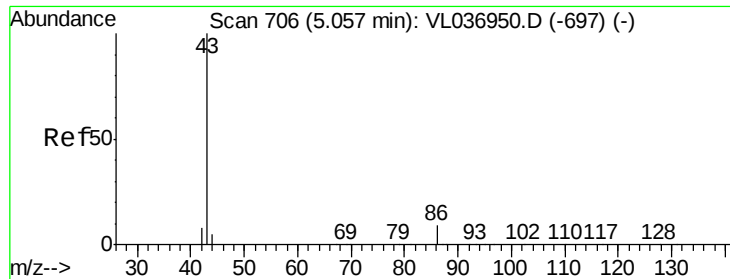
Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0





#23

Vinyl Acetate

Concen: 0.162 ppbv

RT: 5.14 min Scan# 733

Delta R.T. 0.09 min

Lab File: VL037003.D

Acq: 19 May 2021 22:27

Instrument :

MSVOA_L

ClientSampleId :

KSV-01DLDP

Tot Ion: 43 Resp: 30764

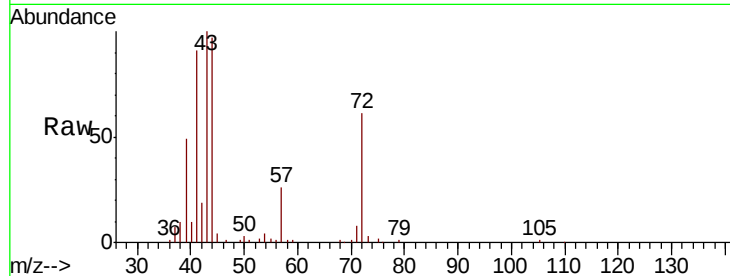
Ion Ratio Lower Upper

43 100

86 0.0 5.8 8.8#

42 19.2 7.4 11.2#

44 98.7 3.3 4.9#

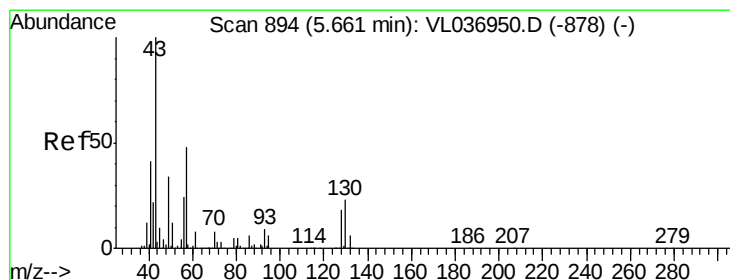
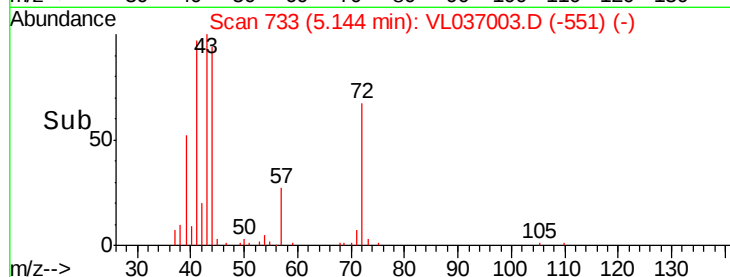
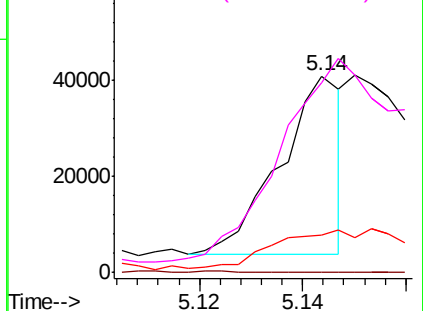


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 0.457 ppbv

RT: 5.65 min Scan# 892

Delta R.T. -0.01 min

Lab File: VL037003.D

Acq: 19 May 2021 22:27

Tgt Ion: 43 Resp: 131694

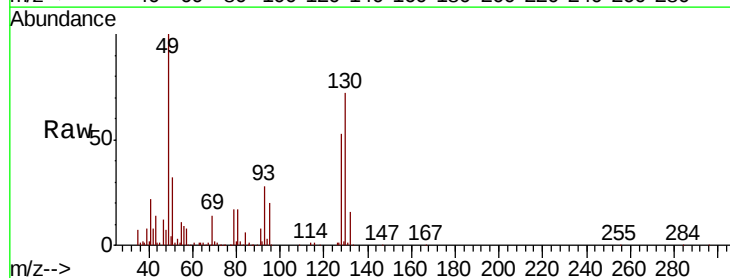
Ion Ratio Lower Upper

43 100

45 9.7 7.8 11.8

61 6.4 7.8 11.8#

70 12.7 5.6 8.4#

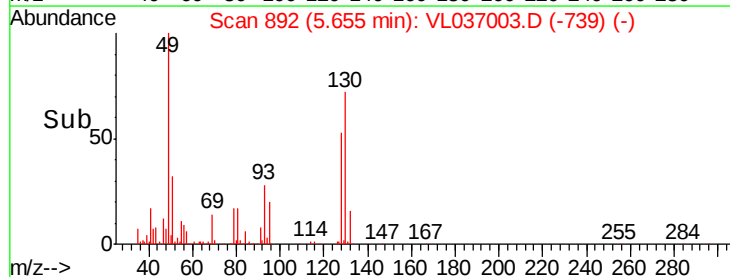
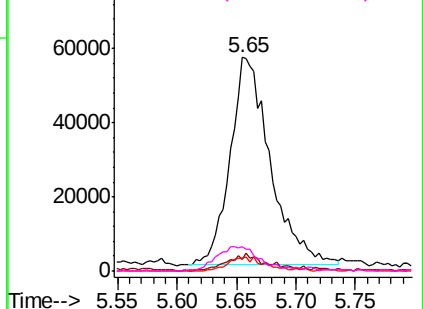


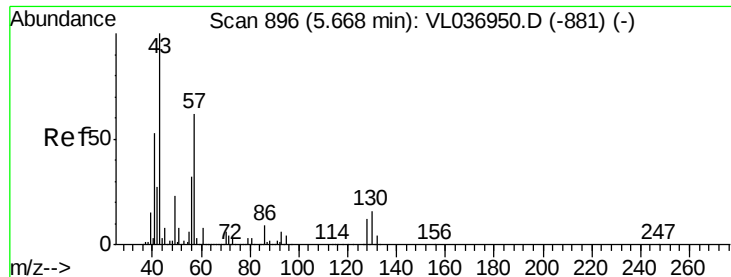
Abundance Ion 43.10 (42.80 to 43.80): VL0

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

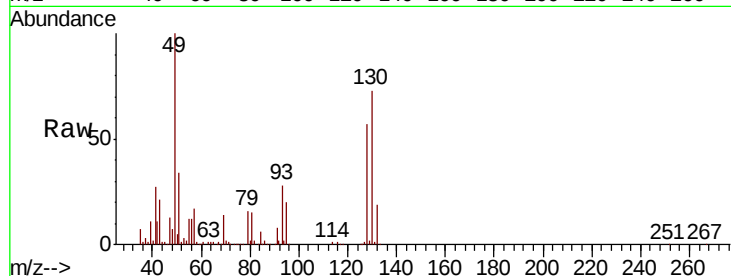




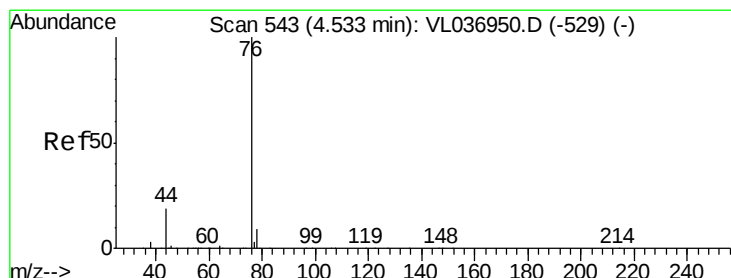
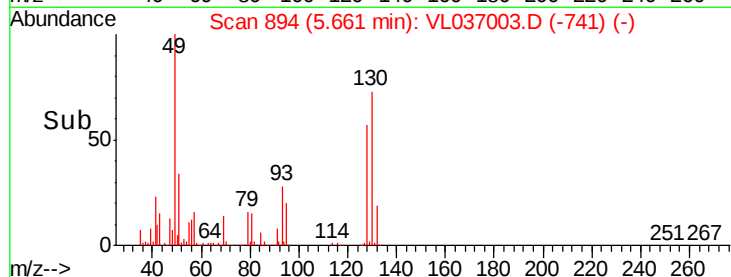
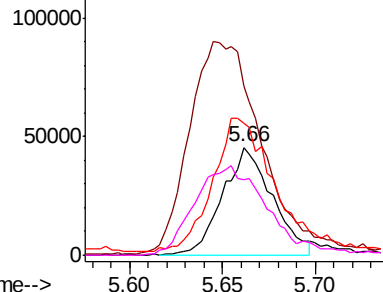
#26
Hexane
Concen: 0.575 ppbv
RT: 5.66 min Scan# 894
Delta R.T. -0.01 min
Lab File: VL037003.D
Acq: 19 May 2021 22:27

Instrument :
MSVOA_L
ClientSampleId :
KSV-01DLDUP

Tot Ion: 57 Resp: 84706
Ion Ratio Lower Upper
57 100
41 299.1 70.5 105.7#
43 169.4 165.8 248.8
56 125.8 42.2 63.4#

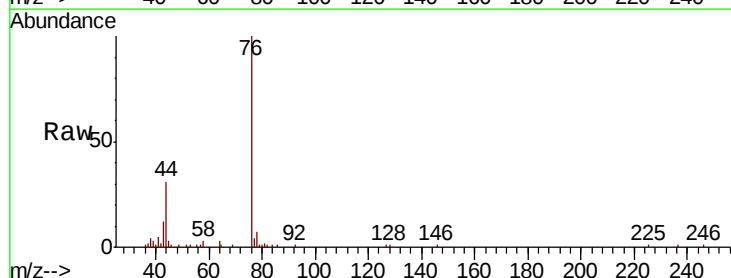


Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0

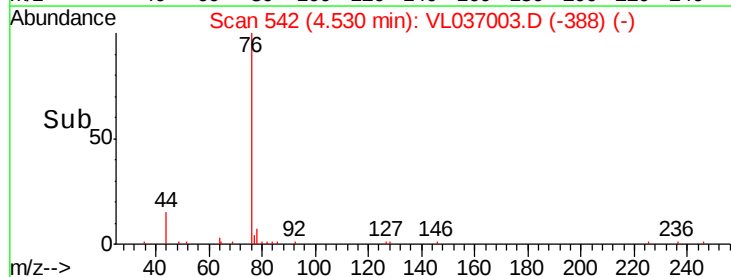
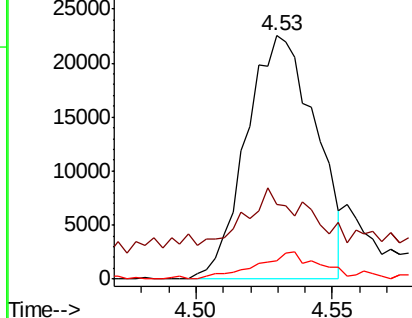


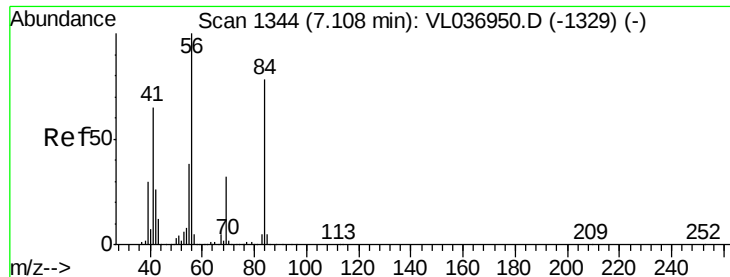
#27
Carbon Disulfide
Concen: 0.268 ppbv
RT: 4.53 min Scan# 542
Delta R.T. -0.00 min
Lab File: VL037003.D
Acq: 19 May 2021 22:27

Tgt Ion: 76 Resp: 39794
Ion Ratio Lower Upper
76 100
44 27.1 15.5 23.3#
78 11.1 7.8 11.6



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

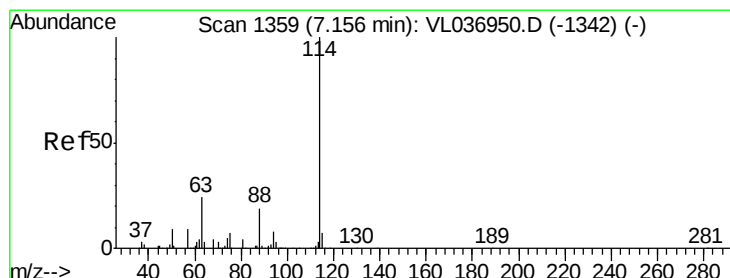
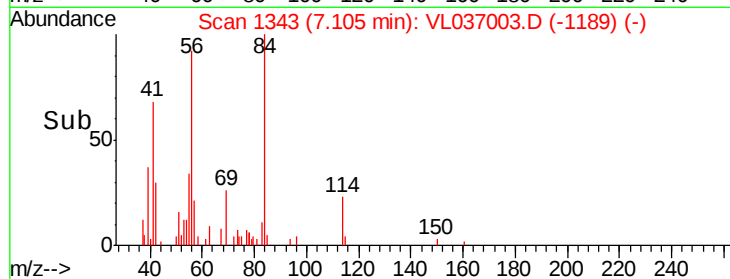
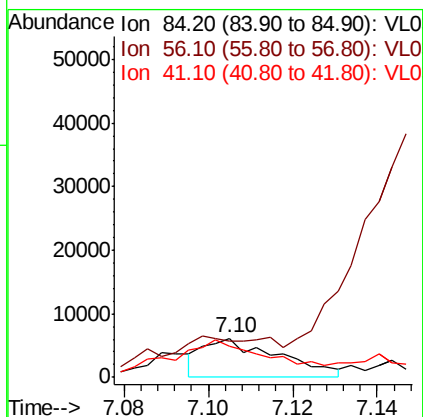
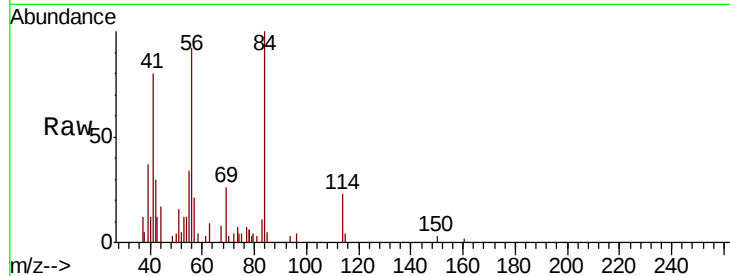




#30
Cvclohexane
Concen: 0.061 ppbv
RT: 7.10 min Scan# 1343
Delta R.T. -0.00 min
Lab File: VL037003.D
Acq: 19 May 2021 22:27

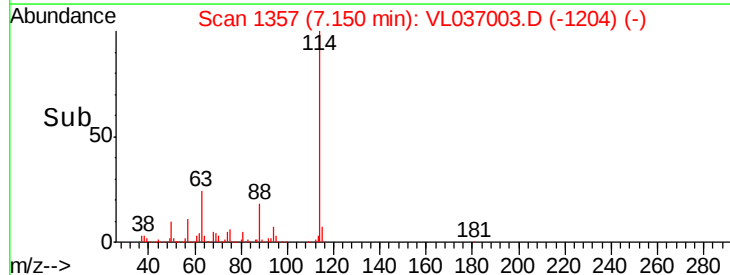
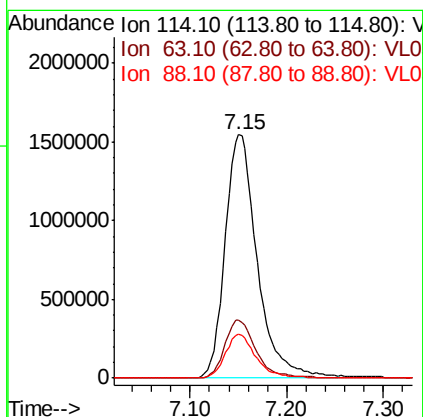
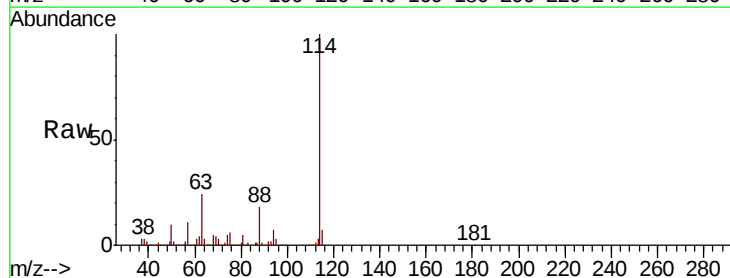
Instrument :
MSVOA_L
ClientSampleId :
KSV-01DLDP

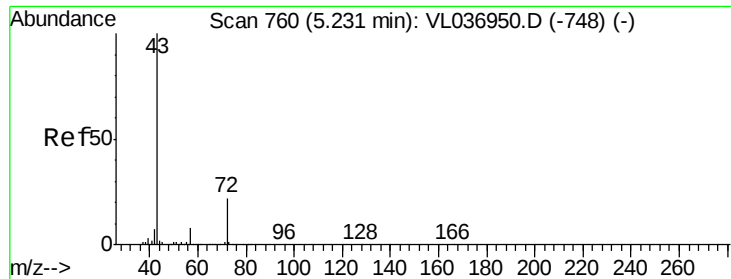
Tot Ion: 84 Resp: 7669
Ion Ratio Lower Upper
84 100
56 0.0 107.9 161.9#
41 95.9 65.5 98.3



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.15 min Scan# 1357
Delta R.T. -0.01 min
Lab File: VL037003.D
Acq: 19 May 2021 22:27

Tgt Ion: 114 Resp: 3564816
Ion Ratio Lower Upper
114 100
63 23.7 19.6 29.4
88 17.6 14.6 21.8

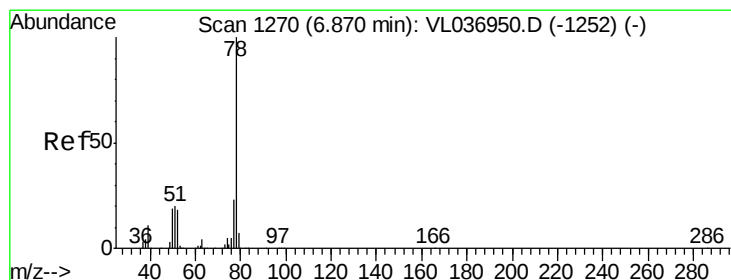
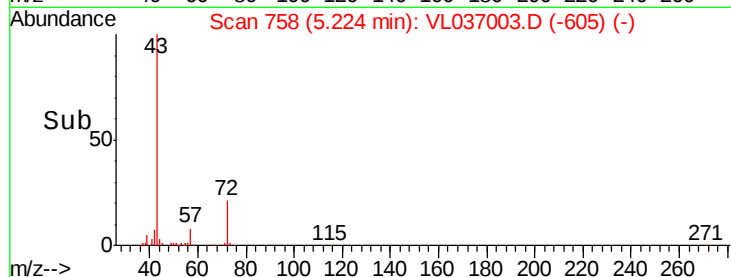
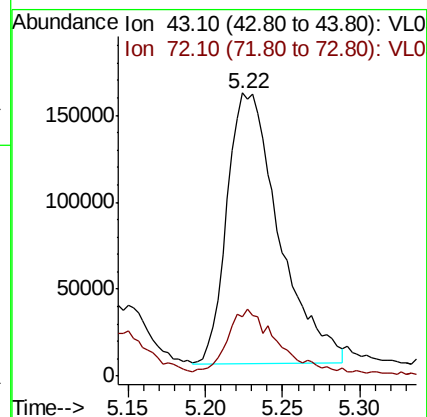
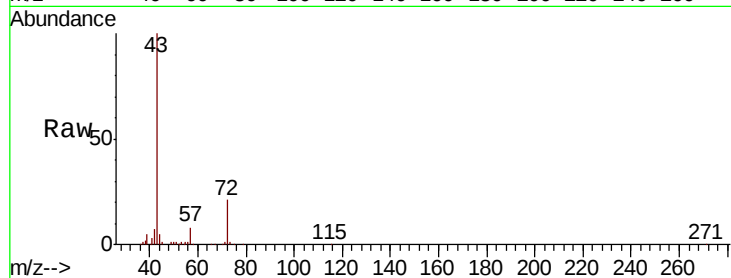




#34
2-Butanone
Concen: 2.801 ppbv
RT: 5.22 min Scan# 758
Delta R.T. -0.01 min
Lab File: VL037003.D
Acq: 19 May 2021 22:27

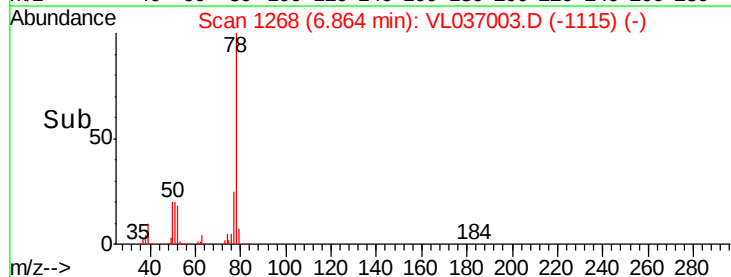
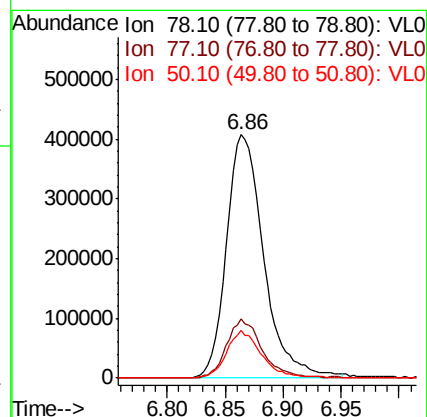
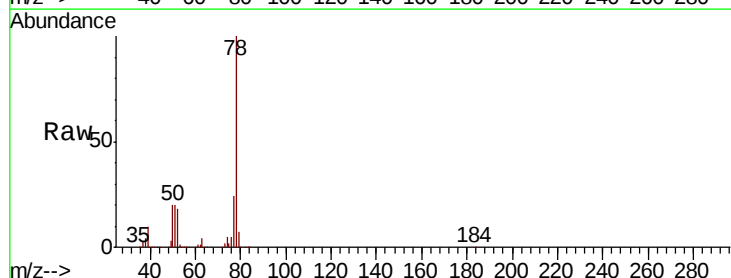
Instrument :
MSVOA_L
ClientSampleId :
KSV-01DLDP

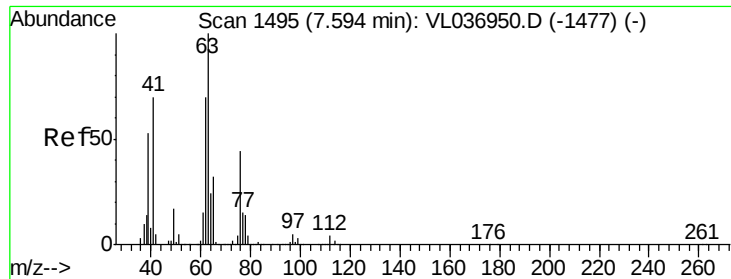
Tot Ion: 43 Resp: 363631
Ion Ratio Lower Upper
43 100
72 26.5 19.0 28.4



#36
Benzene
Concen: 2.945 ppbv
RT: 6.86 min Scan# 1268
Delta R.T. -0.01 min
Lab File: VL037003.D
Acq: 19 May 2021 22:27

Tgt Ion: 78 Resp: 904279
Ion Ratio Lower Upper
78 100
77 24.4 18.6 28.0
50 19.6 15.0 22.4





#39

1,2-Dichloropropane

Concen: 7.050 ppbv

RT: 7.15 min Scan# 1357

Delta R.T. -0.44 min

Lab File: VL037003.D

Acq: 19 May 2021 22:27

Instrument :

MSVOA_L

ClientSampleId :

KSV-01DLDP

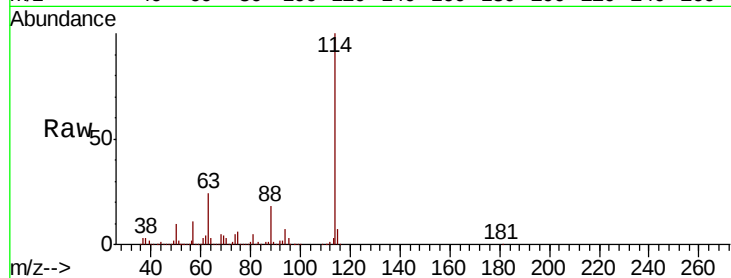
Tot Ion: 63 Resp: 833855

Ion Ratio Lower Upper

63 100

41 0.0 55.7 83.5#

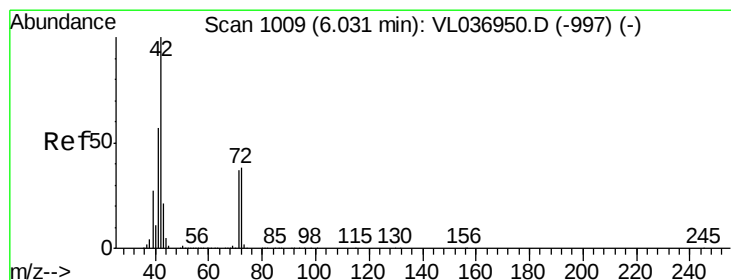
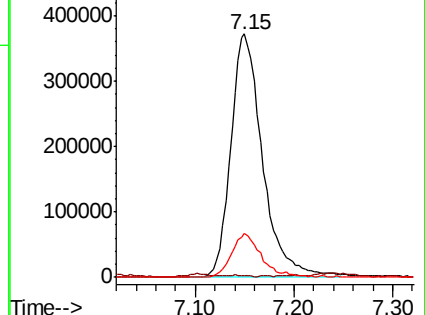
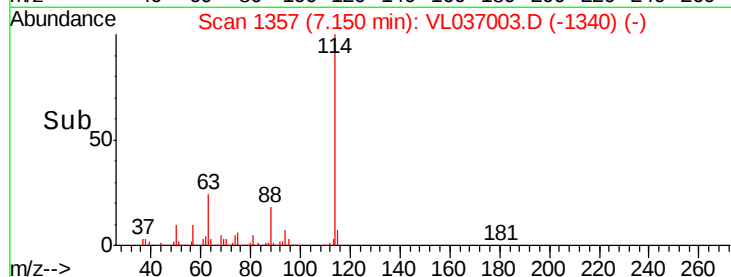
62 18.2 56.2 84.4#



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: 0.033 ppbv

RT: 6.04 min Scan# 1012

Delta R.T. 0.01 min

Lab File: VL037003.D

Acq: 19 May 2021 22:27

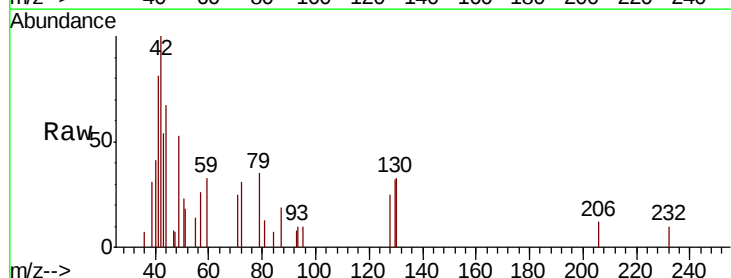
Tgt Ion: 42 Resp: 2468

Ion Ratio Lower Upper

42 100

72 73.1 31.4 47.2#

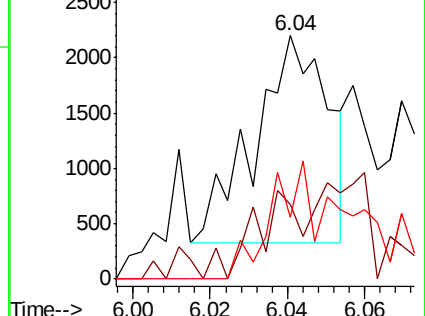
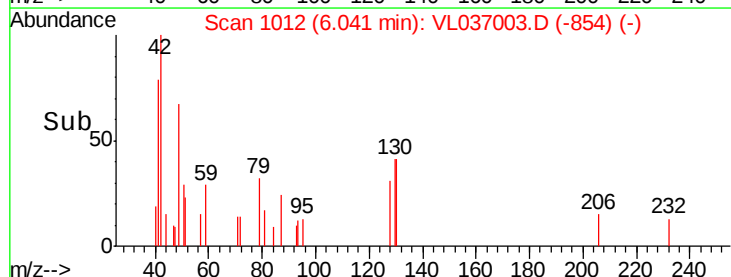
71 63.5 30.4 45.6#

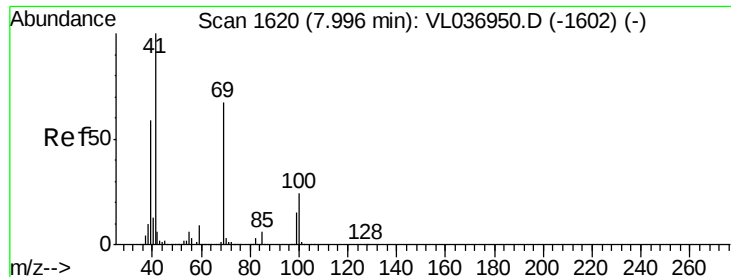


Abundance Ion 42.10 (41.80 to 42.80): VL0

Ion 72.10 (71.80 to 72.80): VL0

Ion 71.10 (70.80 to 71.80): VL0

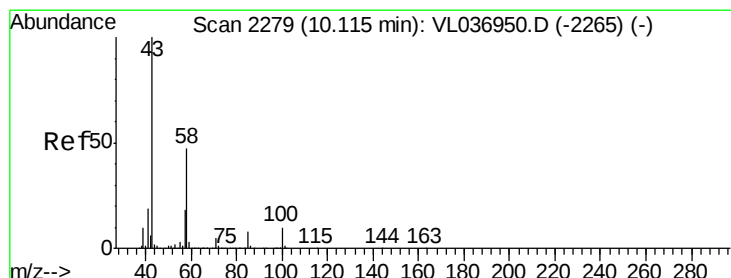
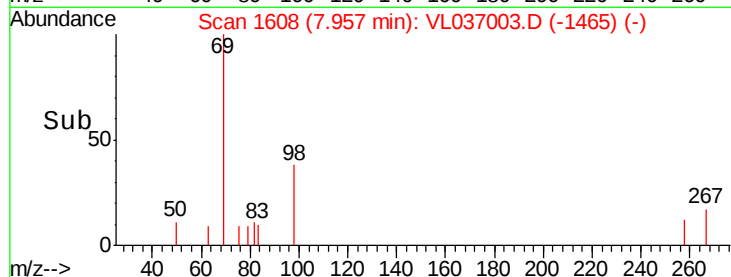
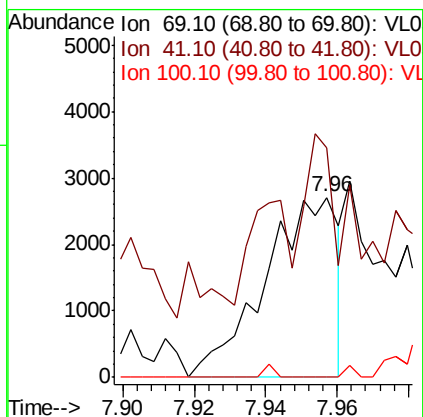
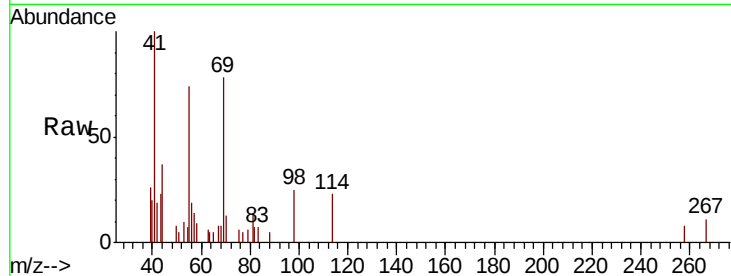




#43
Methvl Methacrylate
Concen: 0.036 ppbv
RT: 7.96 min Scan# 1608
Delta R.T. -0.04 min
Lab File: VL037003.D
Acq: 19 May 2021 22:27

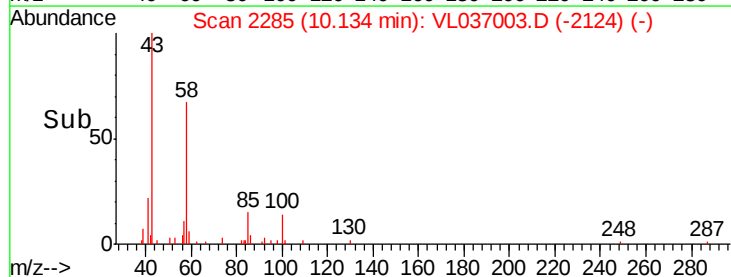
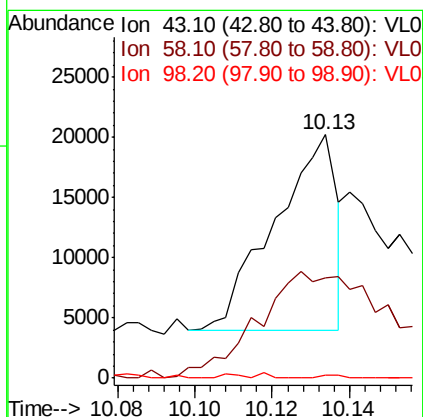
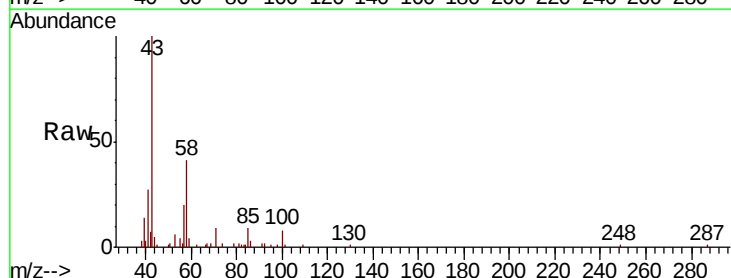
Instrument :
MSVOA_L
ClientSampleId :
KSV-01DLDP

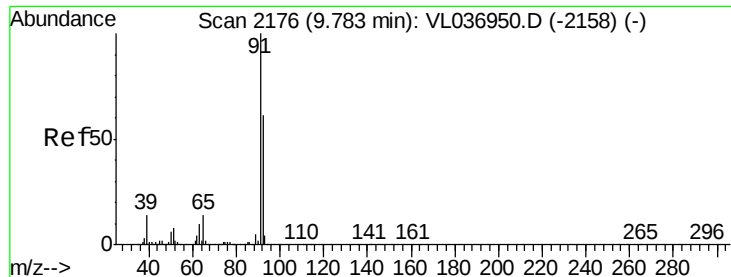
Tot Ion: 69 Resp: 3819
Ion Ratio Lower Upper
69 100
41 0.0 118.6 178.0#
100 33.9 28.2 42.4



#51
2-Hexanone
Concen: 0.160 ppbv
RT: 10.13 min Scan# 2285
Delta R.T. 0.02 min
Lab File: VL037003.D
Acq: 19 May 2021 22:27

Tgt Ion: 43 Resp: 18063
Ion Ratio Lower Upper
43 100
58 134.1 41.1 61.7#
98 1.6 0.1 0.1#





#53

Toluene

Concen: 1.321 ppbv

RT: 9.78 min Scan# 2174

Delta R.T. -0.01 min

Lab File: VL037003.D

Acq: 19 May 2021 22:27

Instrument :

MSVOA_L

ClientSampleId :

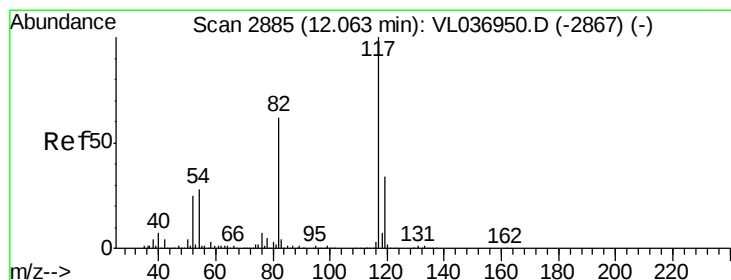
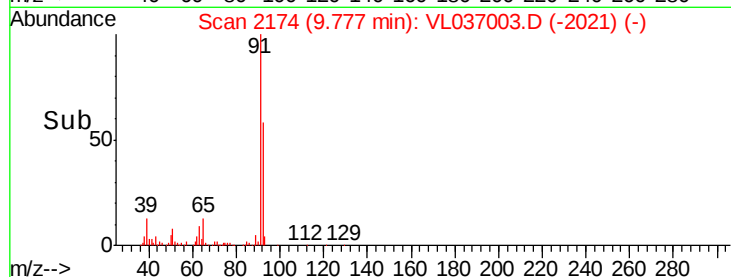
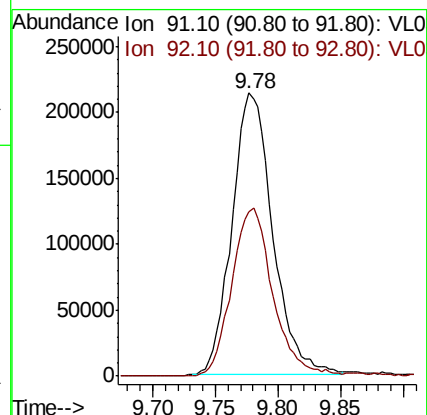
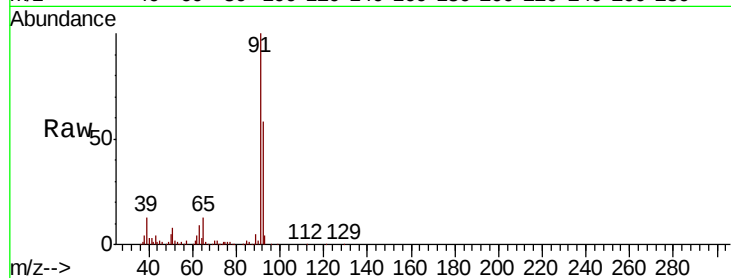
KSV-01DLDP

Tot Ion: 91 Resp: 482495

Ion Ratio Lower Upper

91 100

92 61.2 49.5 74.3



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.06 min Scan# 2884

Delta R.T. -0.00 min

Lab File: VL037003.D

Acq: 19 May 2021 22:27

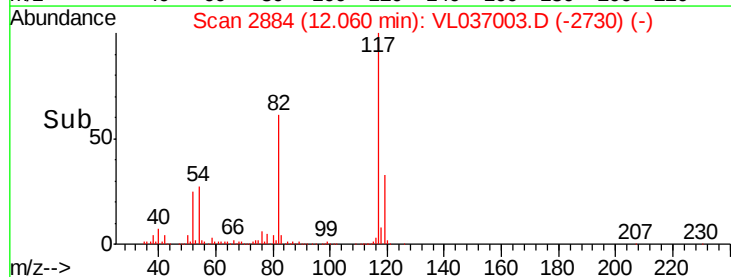
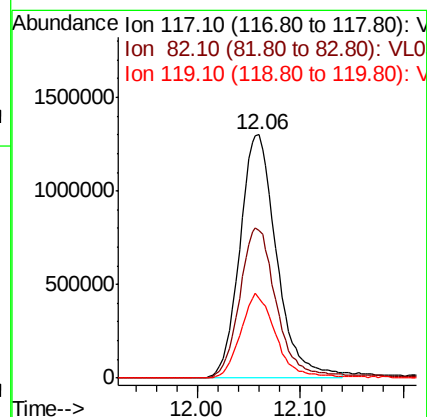
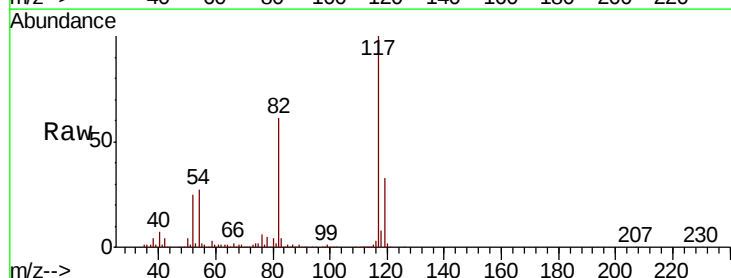
Tgt Ion: 117 Resp: 3235918

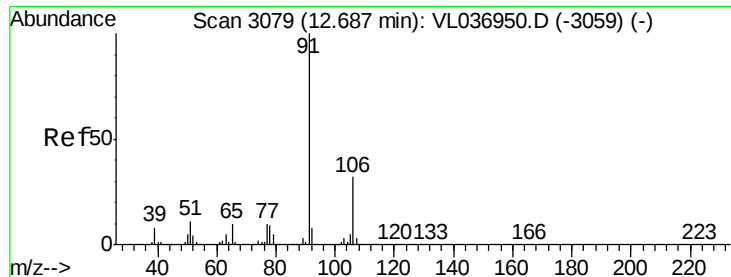
Ion Ratio Lower Upper

117 100

82 63.0 52.6 79.0

119 34.4 46.6 70.0#





#58

Ethyl Benzene

Concen: 0.089 ppbv

RT: 12.68 min Scan# 3078

Delta R.T. -0.00 min

Lab File: VL037003.D

Acq: 19 May 2021 22:27

Instrument :

MSVOA_L

ClientSampleId :

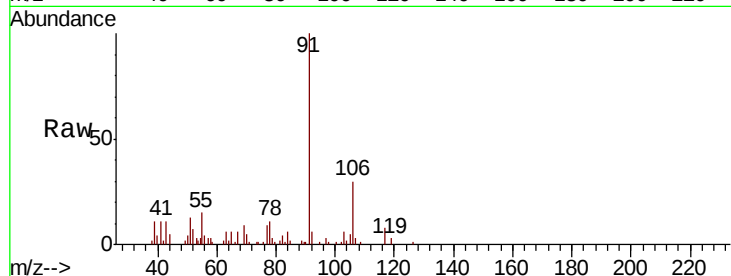
KSV-01DLDP

Tot Ion: 91 Resp: 40429

Ion Ratio Lower Upper

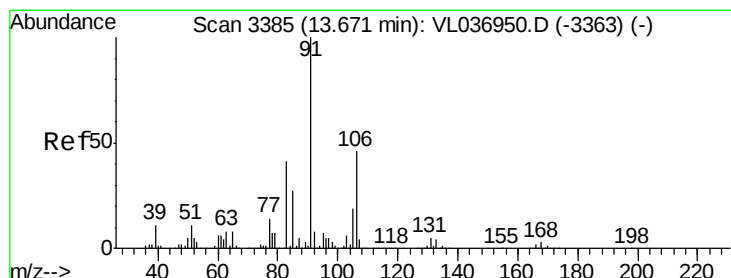
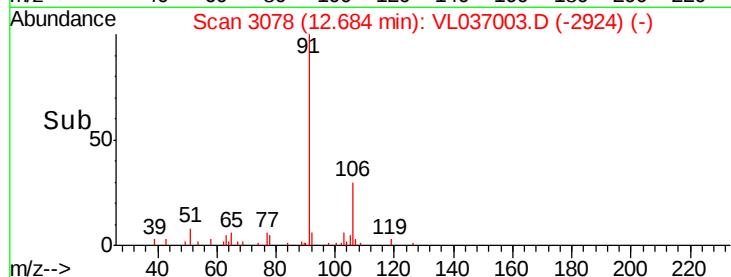
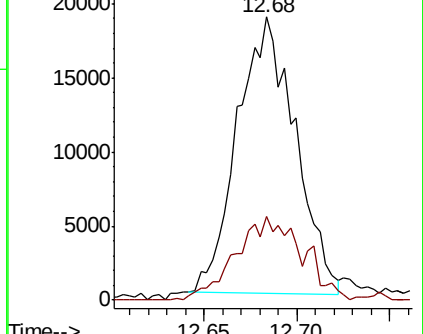
91 100

106 29.0 25.6 38.4



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#60

o-Xylene

Concen: 0.062 ppbv

RT: 13.66 min Scan# 3382

Delta R.T. -0.01 min

Lab File: VL037003.D

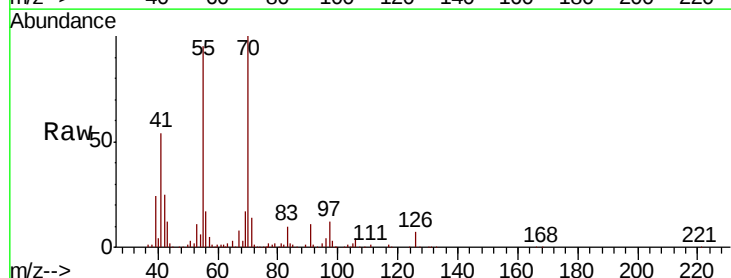
Acq: 19 May 2021 22:27

Tgt Ion: 91 Resp: 22151

Ion Ratio Lower Upper

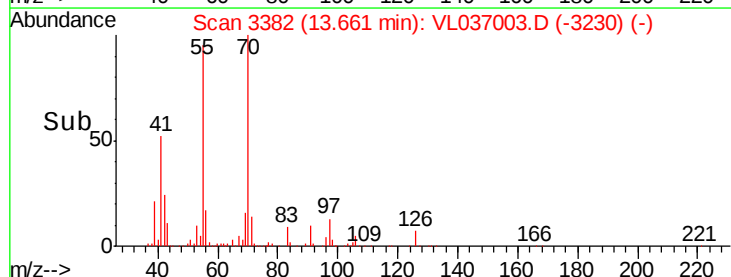
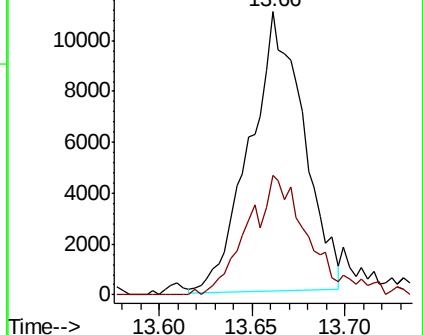
91 100

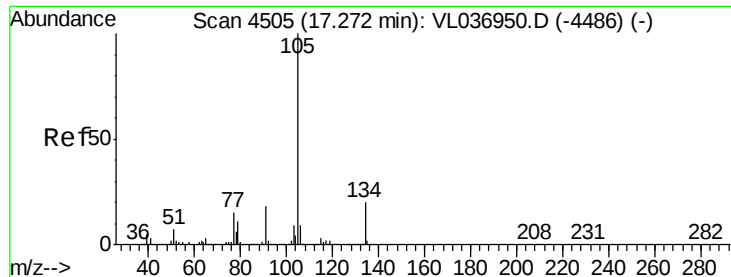
106 49.0 23.4 70.3



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





#67

sec-Butylbenzene

Concen: 0.037 ppbv

RT: 17.27 min Scan# 4506

Delta R.T. 0.00 min

Lab File: VL037003.D

Acq: 19 May 2021 22:27

Instrument :

MSVOA_L

ClientSampleId :

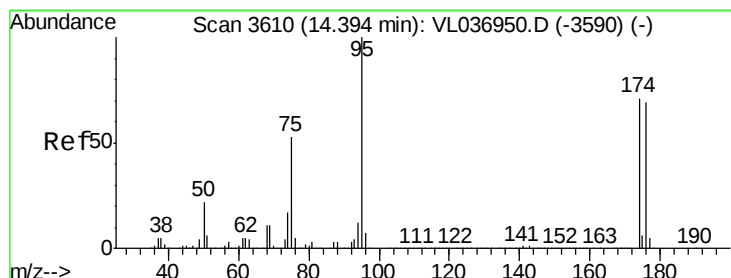
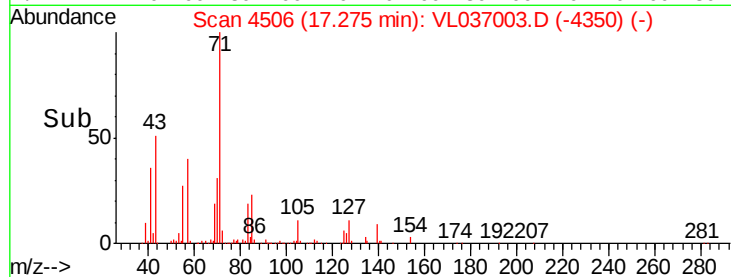
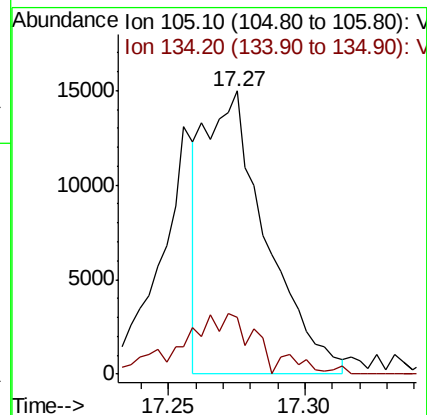
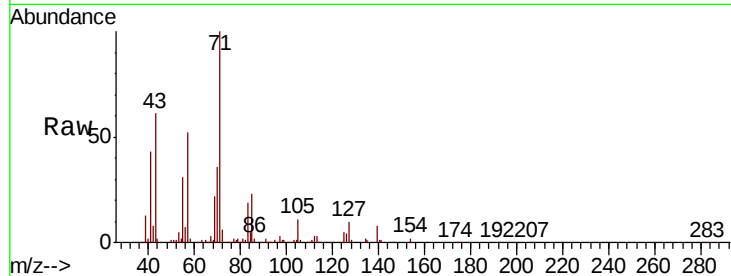
KSV-01DLDP

Tot Ion:105 Resp: 23663

Ion Ratio Lower Upper

105 100

134 27.9 15.6 23.4#



#68

1-Bromo-4-Fluorobenzene

Concen: 9.982 ppbv

RT: 14.39 min Scan# 3608

Delta R.T. -0.01 min

Lab File: VL037003.D

Acq: 19 May 2021 22:27

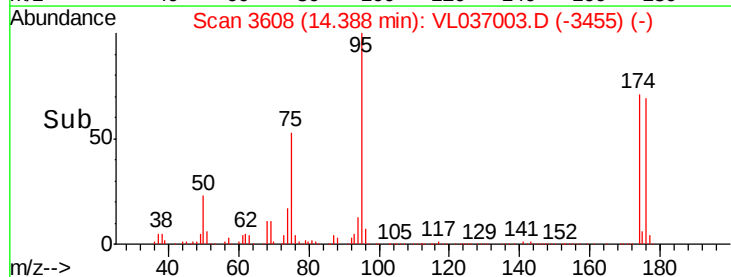
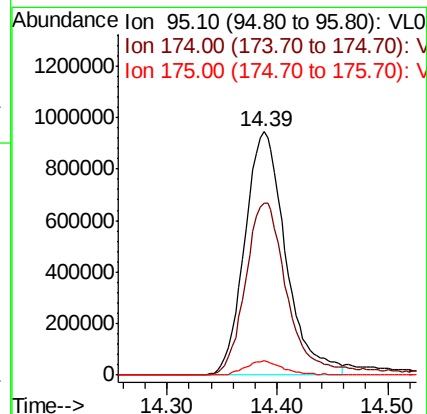
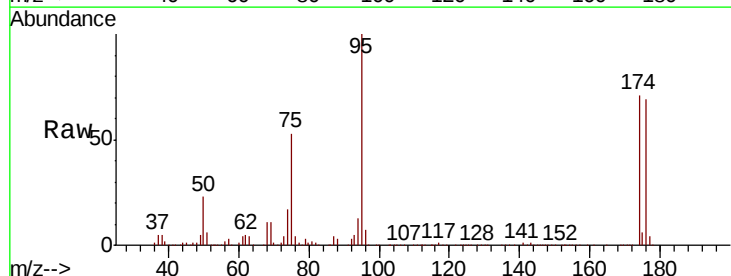
Tgt Ion: 95 Resp: 2426425

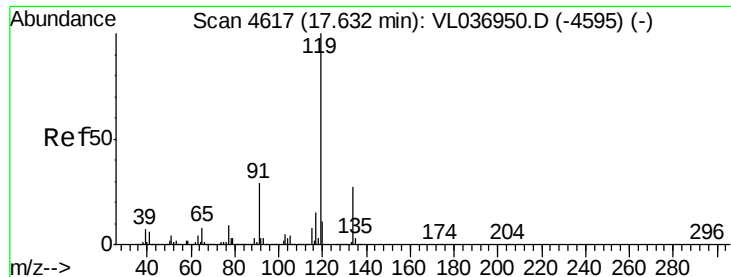
Ion Ratio Lower Upper

95 100

174 76.0 58.4 87.6

175 5.6 4.4 6.6

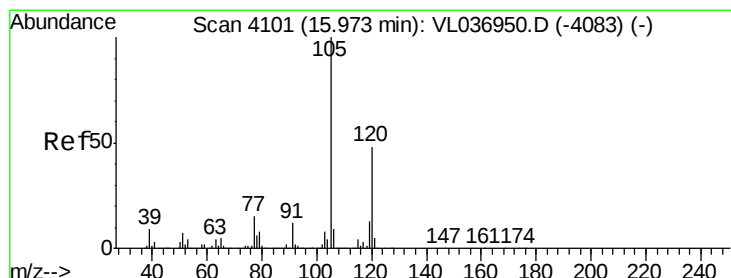
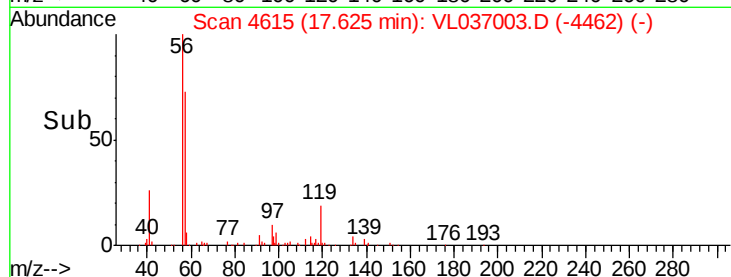
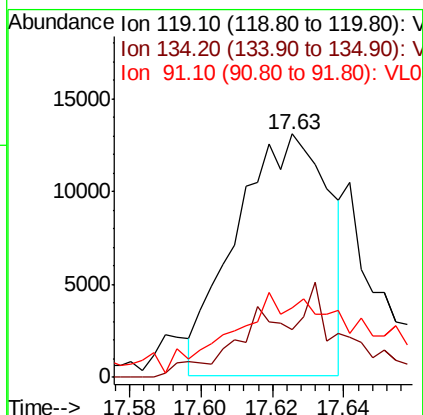
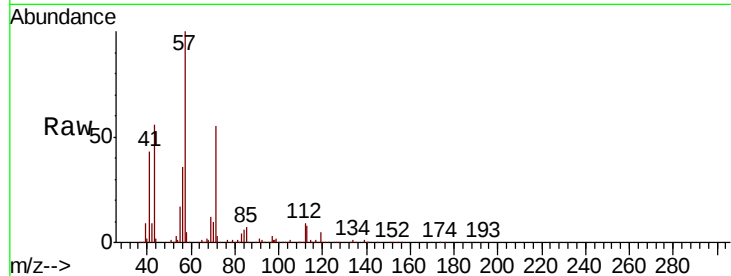




#69
 p-Isopropyltoluene
 Concen: 0.043 ppbv
 RT: 17.63 min Scan# 4615
 Delta R.T. -0.01 min
 Lab File: VL037003.D
 Acq: 19 May 2021 22:27

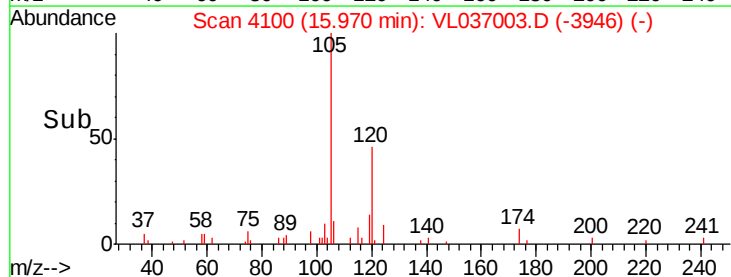
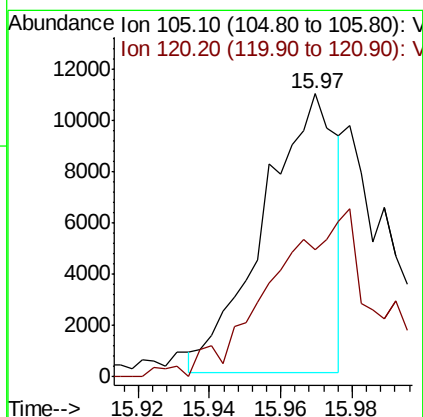
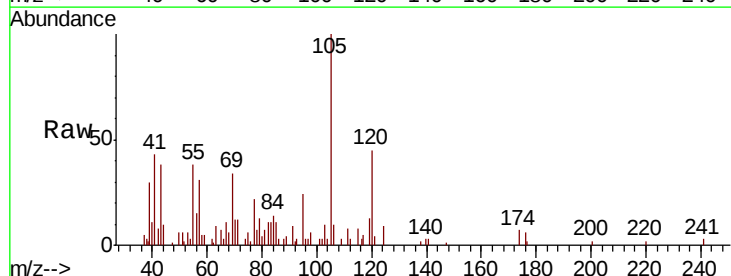
Instrument :
 MSVOA_L
 ClientSampleId :
 KSV-01DLDUP

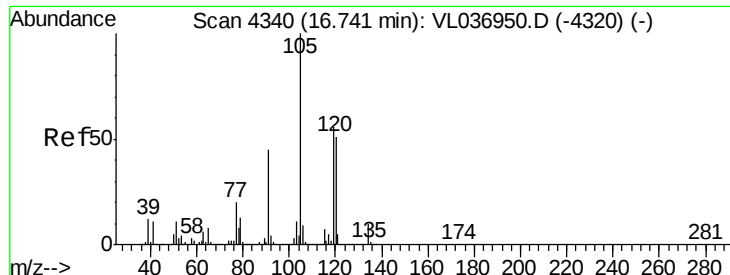
Tot Ion	Ratio	Lower	Upper
119	100		
134	35.1	21.2	31.8#
91	52.8	22.2	33.4#



#73
 1,3,5-Trimethylbenzene
 Concen: 0.038 ppbv
 RT: 15.97 min Scan# 4100
 Delta R.T. -0.00 min
 Lab File: VL037003.D
 Acq: 19 May 2021 22:27

Tgt Ion	Ratio	Lower	Upper
105	100		
120	49.2	38.6	58.0





#74
 1,2,4-Trimethylbenzene
 Concen: 0.088 ppbv
 RT: 16.74 min Scan# 4339
 Delta R.T. -0.00 min
 Lab File: VL037003.D
 Acq: 19 May 2021 22:27

Instrument :
 MSVOA_L
 ClientSampleId :
 KSV-01DLDUP

Tot Ion:	105	Resp:	36651
Ion	Ratio	Lower	Upper
105	100		
120	38.2	40.6	61.0#
91	22.4	37.4	56.0#
77	7.7	16.2	24.4#

