

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL051921\
 Data File : VL037011.D
 Acq On : 20 May 2021 3:42
 Operator : SY/AP
 Sample : M2424-02 10X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 KSV-05

Quant Time: May 20 06:35:55 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	991611	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.14	114	2969912	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.05	117	2713999	10.00	ppbv	-0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.38	95	2094896	10.28	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.80%

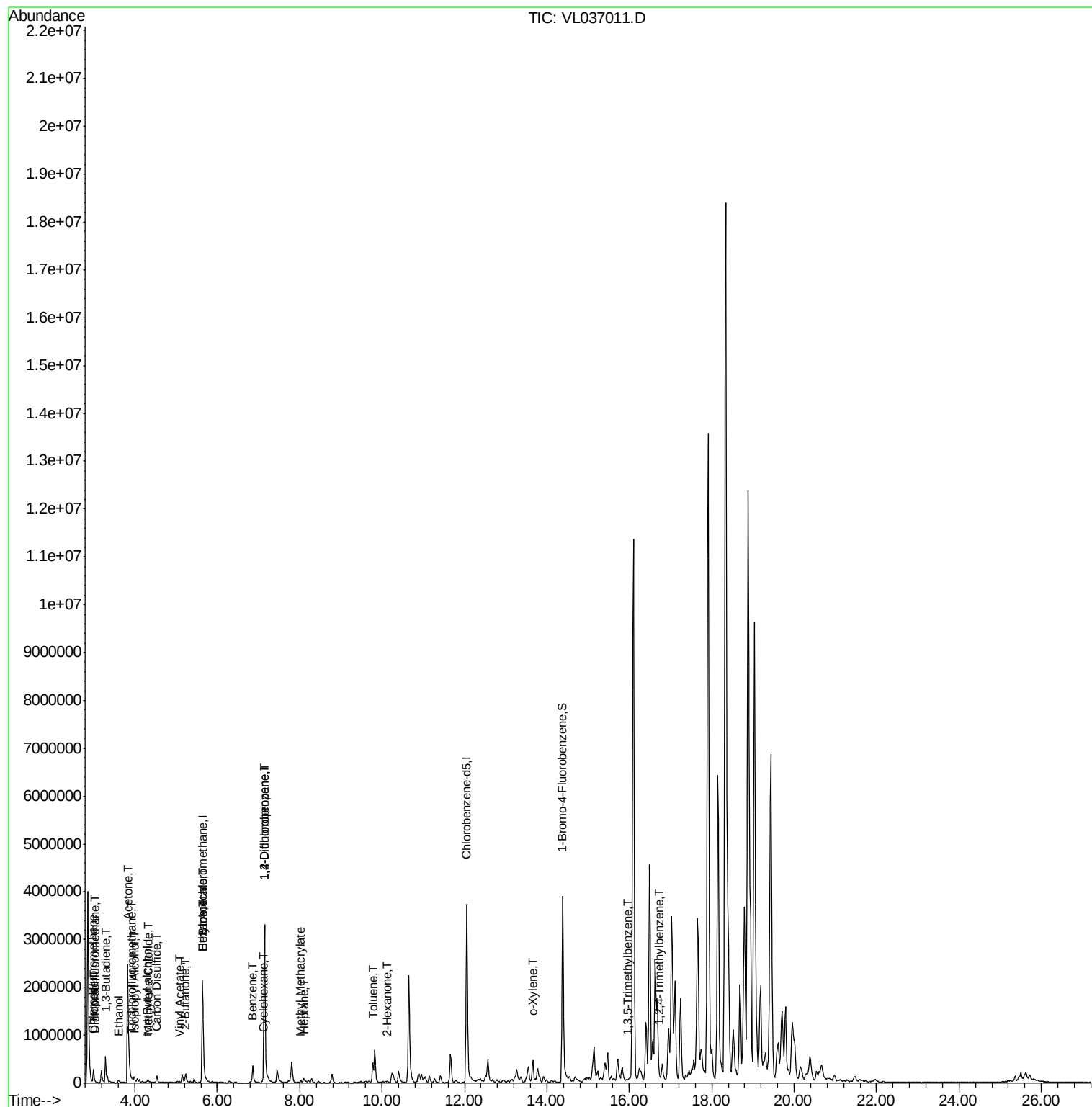
Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.02	85	5544	0.033	ppbv 95
3) Chlorodifluoromethane	2.97	51	5473	0.030	ppbv 94
9) Propene	2.99	41	140167	2.155	ppbv 94
10) Heptane	8.10	43	37537	0.232	ppbv 96
11) Trichlorofluoromethane	3.93	101	7536	0.048	ppbv 87
13) Ethanol	3.60	45	43709	5.036	ppbv # 35
15) Acetone	3.82	43	3670504	36.138	ppbv 98
16) 1,3-Butadiene	3.29	39	178475	2.828	ppbv # 17
17) tert-Butyl alcohol	4.29	59	9723	0.105	ppbv # 72
19) Isopropyl Alcohol	3.97	45	22245	0.407	ppbv # 30
20) Methylene Chloride	4.33	84	16772	0.308	ppbv # 82
23) Vinyl Acetate	5.09	43	5283	0.033	ppbv # 87
25) Ethyl Acetate	5.66	43	117753	0.482	ppbv # 94
26) Hexane	5.66	57	65782	0.528	ppbv # 28
27) Carbon Disulfide	4.53	76	204299	1.626	ppbv 97
30) Cyclohexane	7.10	84	18288	0.173	ppbv # 14
34) 2-Butanone	5.23	43	252992	2.339	ppbv # 90
36) Benzene	6.86	78	338401	1.323	ppbv 95
39) 1,2-Dichloropropane	7.15	63	715124	7.257	ppbv # 25
43) Methyl Methacrylate	8.01	69	3320	0.038	ppbv # 1
51) 2-Hexanone	10.13	43	35816	0.380	ppbv # 88
53) Toluene	9.77	91	208711	0.686	ppbv # 47
60) o-Xylene	13.66	91	28037	0.093	ppbv 97
73) 1,3,5-Trimethylbenzene	15.96	105	10272	0.031	ppbv 86
74) 1,2,4-Trimethylbenzene	16.73	105	18253	0.052	ppbv # 69

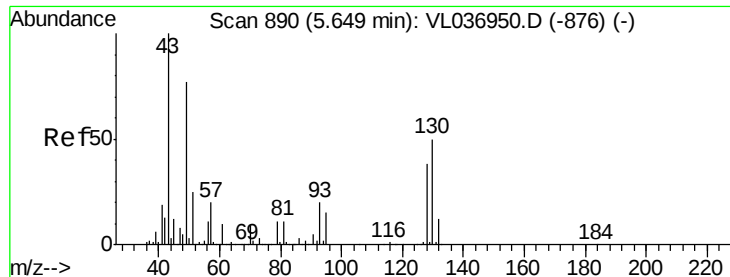
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.64 min Scan# 887

Delta R.T. -0.01 min

Lab File: VL037011.D

Acq: 20 May 2021 3:42

Instrument :

MSVOA_L

ClientSampleId :

KSV-05

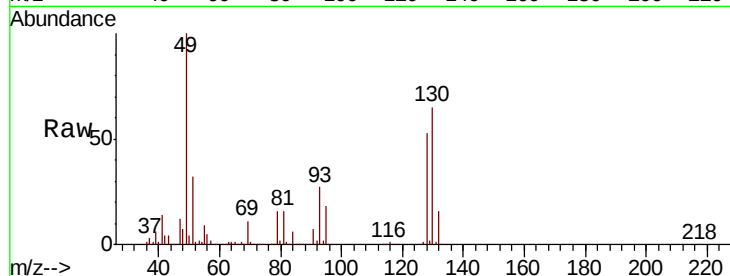
Tot Ion: 49 Resp: 991611

Ion Ratio Lower Upper

49 100

128 55.2 26.9 80.7

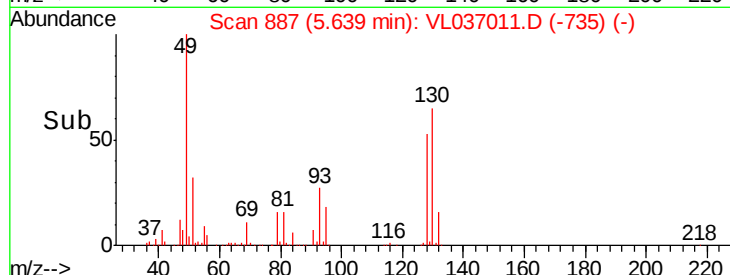
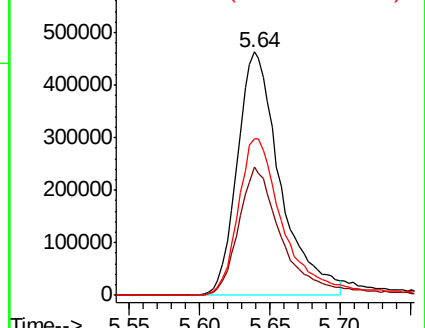
130 71.3 33.8 101.4



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 0.033 ppbv

RT: 3.02 min Scan# 74

Delta R.T. -0.01 min

Lab File: VL037011.D

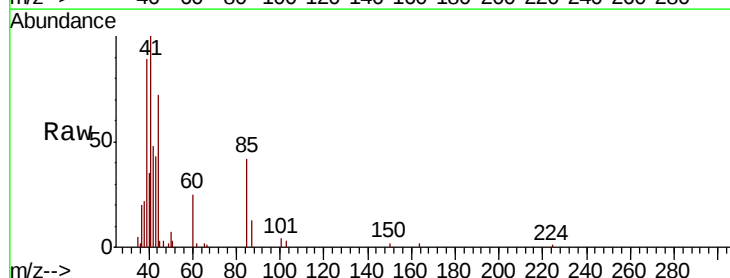
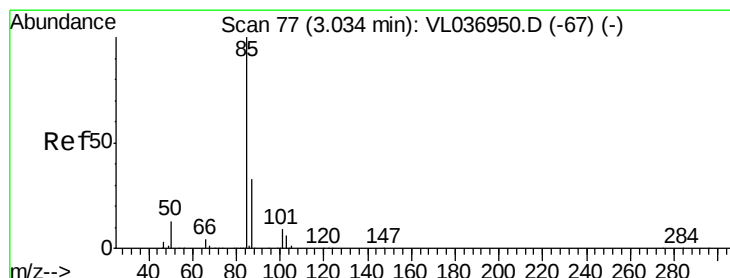
Acq: 20 May 2021 3:42

Tgt Ion: 85 Resp: 5544

Ion Ratio Lower Upper

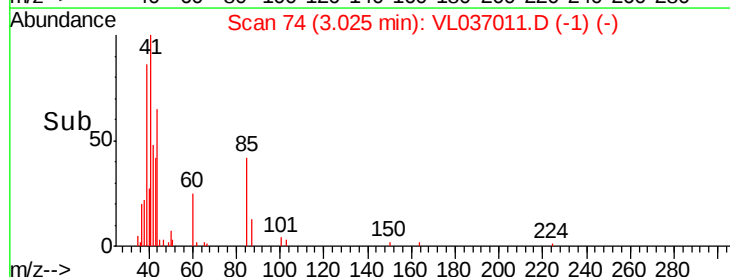
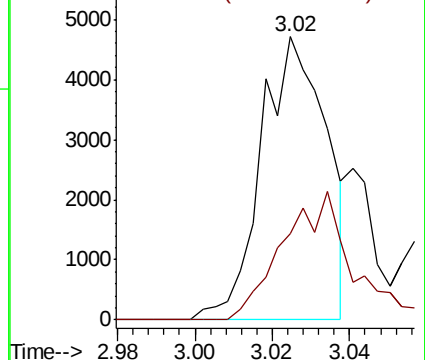
85 100

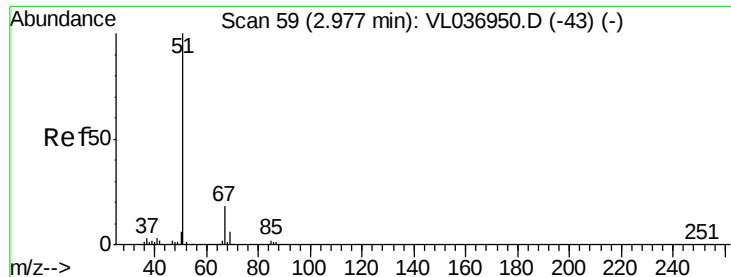
87 30.6 26.6 39.8



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.030 ppbv

RT: 2.97 min Scan# 56

Delta R.T. -0.01 min

Lab File: VL037011.D

Acq: 20 May 2021 3:42

Instrument :

MSVOA_L

ClientSampleId :

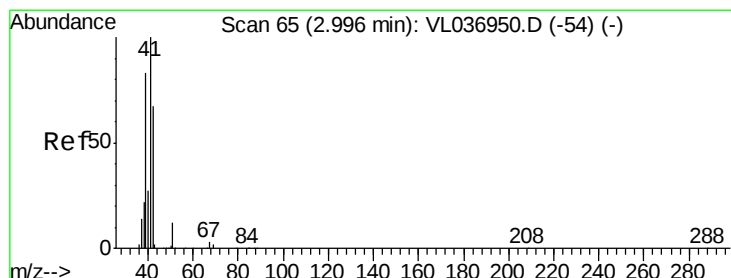
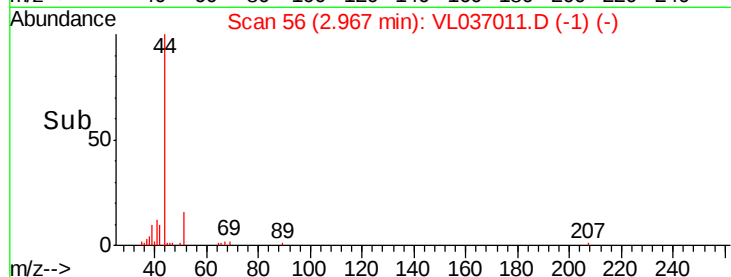
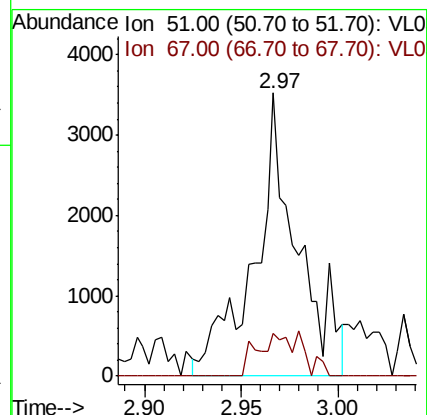
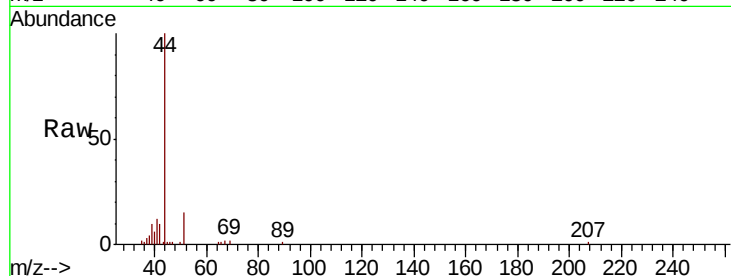
KSV-05

Tot Ion: 51 Resp: 5473

Ion Ratio Lower Upper

51 100

67 15.7 14.6 21.8



#9

Propene

Concen: 2.155 ppbv

RT: 2.99 min Scan# 64

Delta R.T. -0.00 min

Lab File: VL037011.D

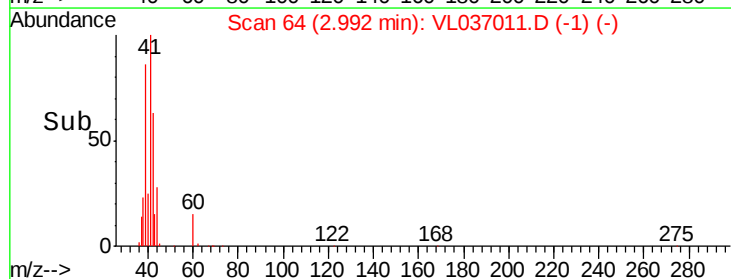
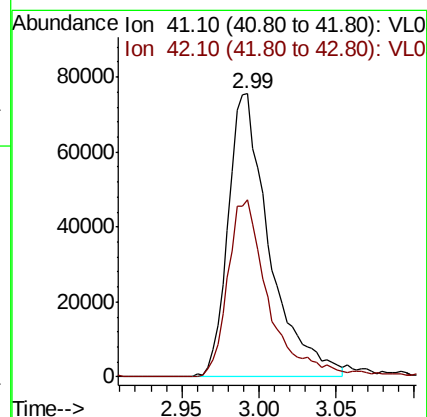
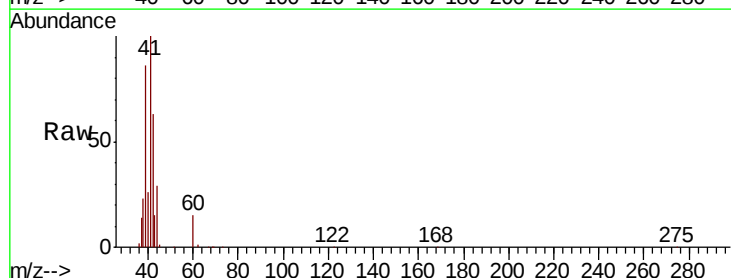
Acq: 20 May 2021 3:42

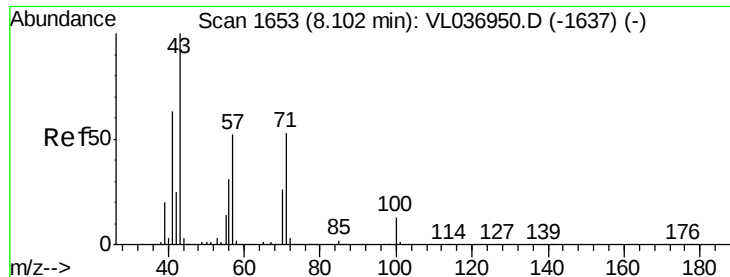
Tgt Ion: 41 Resp: 140167

Ion Ratio Lower Upper

41 100

42 62.9 53.9 80.9

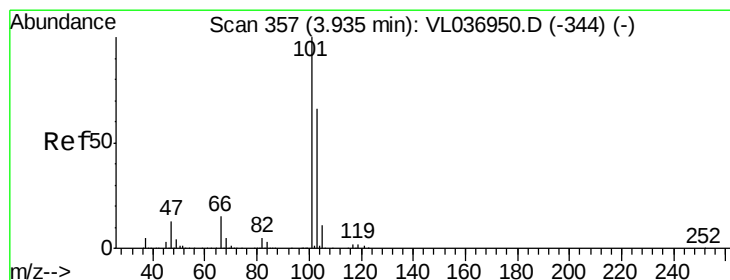
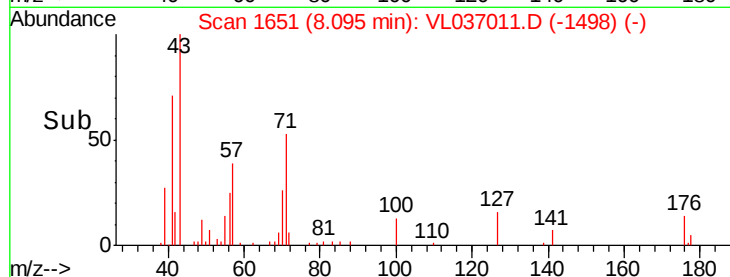
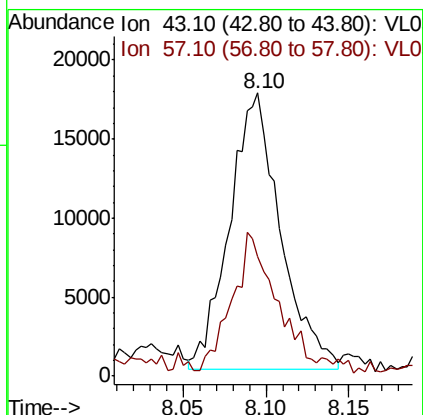
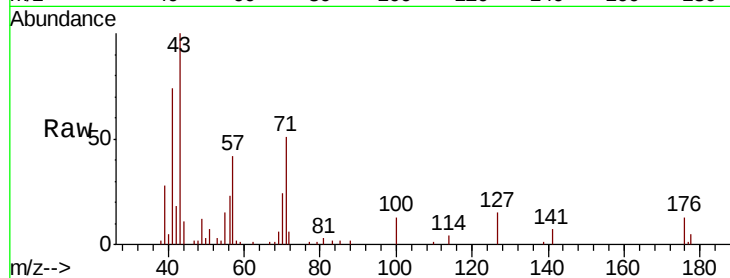




#10
 Heptane
 Concen: 0.232 ppbv
 RT: 8.10 min Scan# 1651
 Delta R.T. -0.01 min
 Lab File: VL037011.D
 Acq: 20 May 2021 3:42

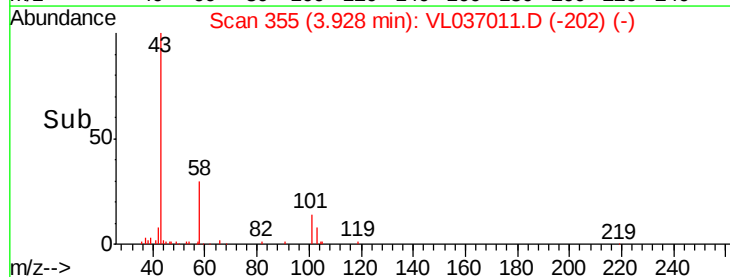
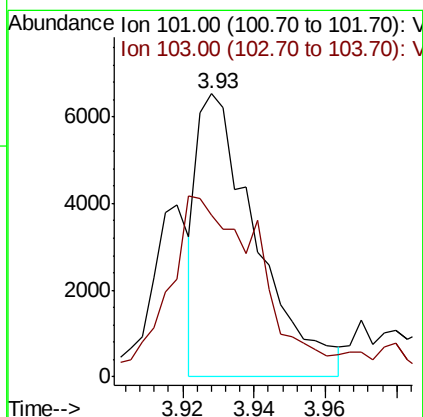
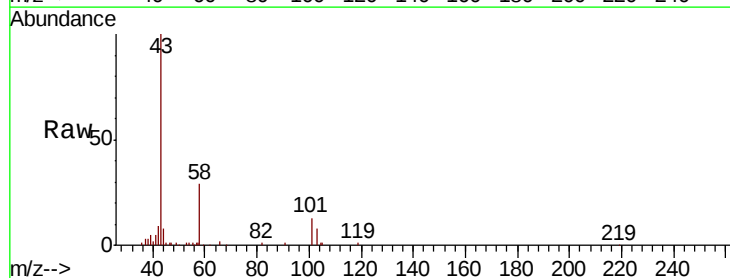
Instrument :
 MSVOA_L
 ClientSampleId :
 KSV-05

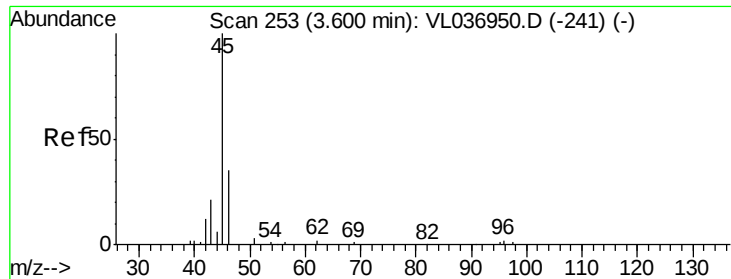
Tot Ion: 43 Resp: 37537
 Ion Ratio Lower Upper
 43 100
 57 48.3 41.0 61.6



#11
 Trichlorofluoromethane
 Concen: 0.048 ppbv
 RT: 3.93 min Scan# 355
 Delta R.T. -0.01 min
 Lab File: VL037011.D
 Acq: 20 May 2021 3:42

Tgt Ion: 101 Resp: 7536
 Ion Ratio Lower Upper
 101 100
 103 55.4 52.6 79.0





#13

Ethanol

Concen: 5.036 ppbv

RT: 3.60 min Scan# 252

Delta R.T. -0.00 min

Lab File: VL037011.D

Acq: 20 May 2021 3:42

Instrument :

MSVOA_L

ClientSampleId :

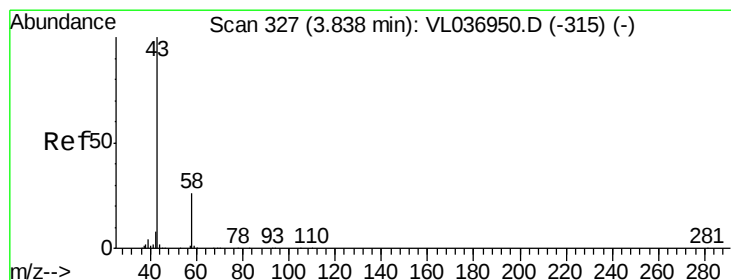
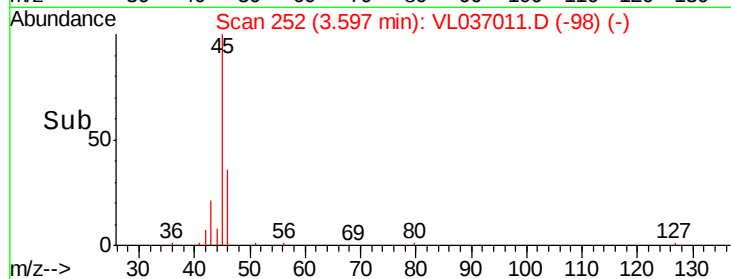
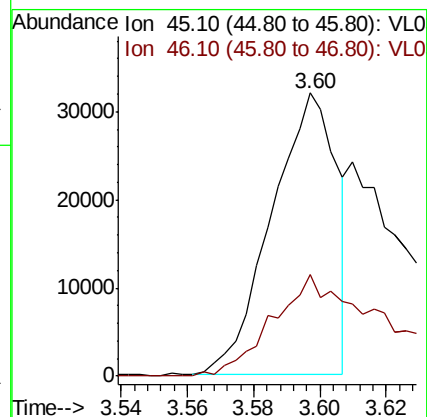
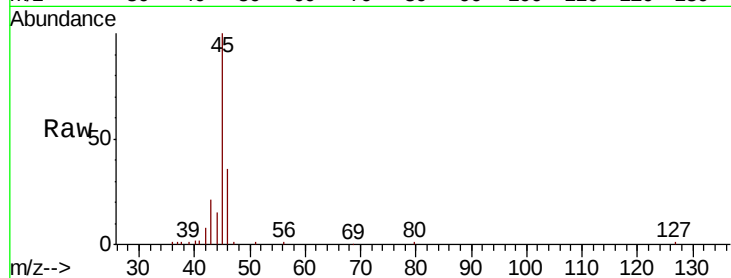
KSV-05

Tot Ion: 45 Resp: 43709

Ion Ratio Lower Upper

45 100

46 81.4 16.3 65.3#



#15

Acetone

Concen: 36.138 ppbv

RT: 3.82 min Scan# 322

Delta R.T. -0.02 min

Lab File: VL037011.D

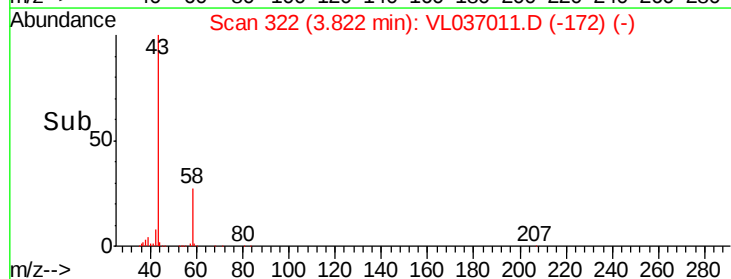
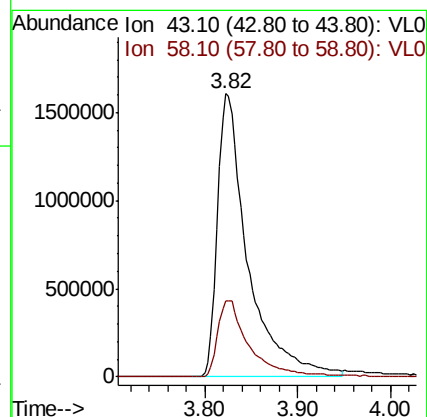
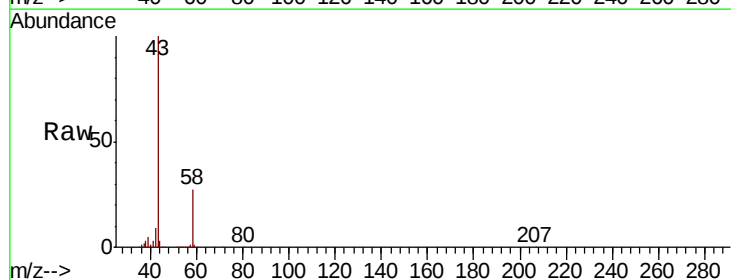
Acq: 20 May 2021 3:42

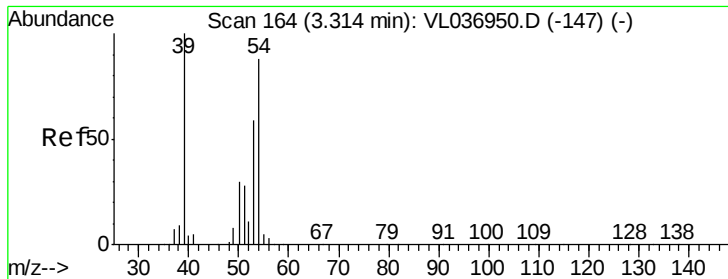
Tgt Ion: 43 Resp: 3670504

Ion Ratio Lower Upper

43 100

58 29.0 24.0 36.0





#16

1,3-Butadiene

Concen: 2.828 ppbv

RT: 3.29 min Scan# 156

Delta R.T. -0.03 min

Lab File: VL037011.D

Acq: 20 May 2021 3:42

Instrument :

MSVOA_L

ClientSampleId :

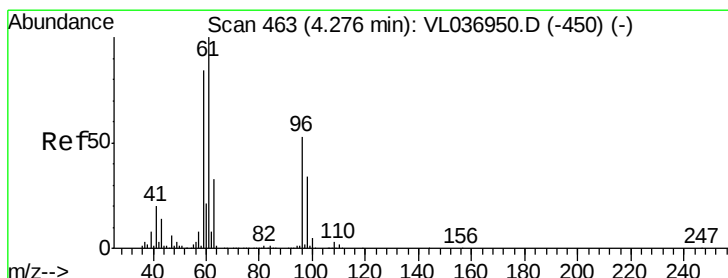
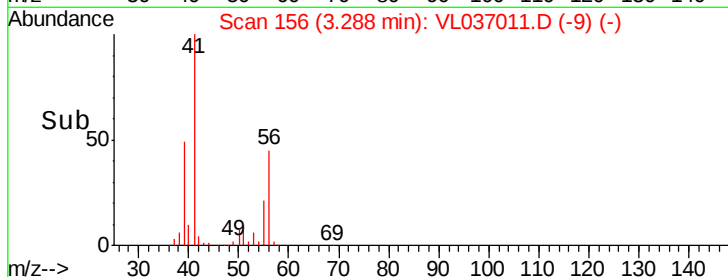
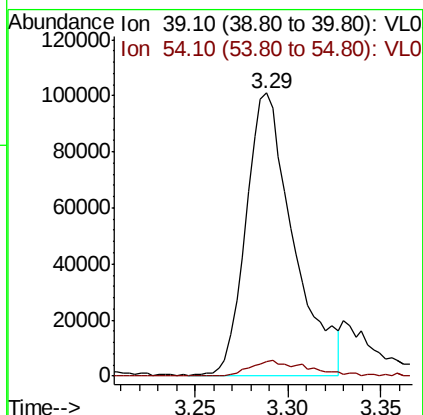
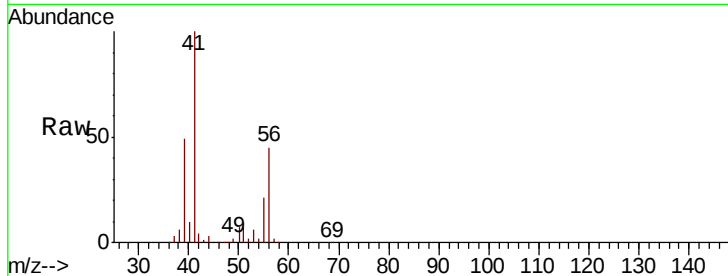
KSV-05

Tot Ion: 39 Resp: 178475

Ion Ratio Lower Upper

39 100

54 6.6 63.2 94.8#



#17

tert-Butyl alcohol

Concen: 0.105 ppbv

RT: 4.29 min Scan# 469

Delta R.T. 0.02 min

Lab File: VL037011.D

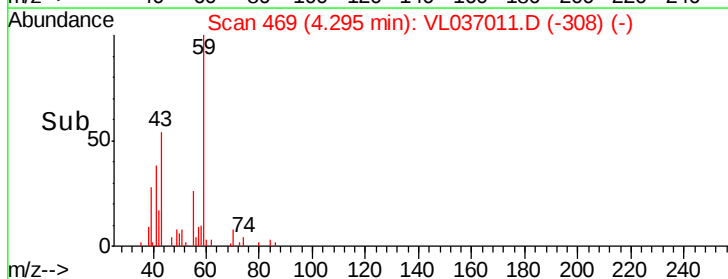
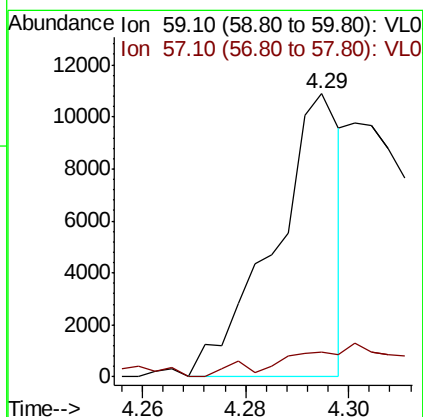
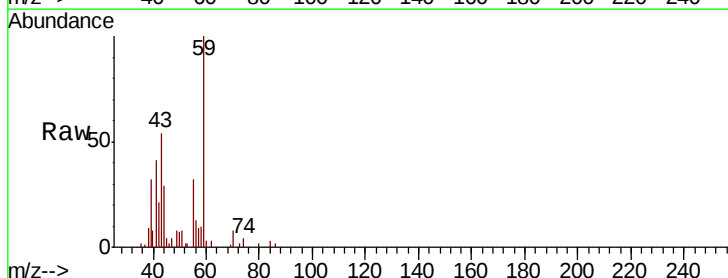
Acq: 20 May 2021 3:42

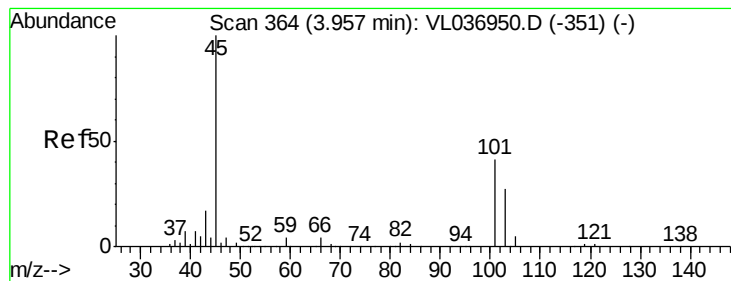
Tgt Ion: 59 Resp: 9723

Ion Ratio Lower Upper

59 100

57 0.0 8.3 12.5#





#19

Isopropyl Alcohol

Concen: 0.407 ppbv

RT: 3.97 min Scan# 367

Delta R.T. 0.01 min

Lab File: VL037011.D

Acq: 20 May 2021 3:42

Instrument :

MSVOA_L

ClientSampleId :

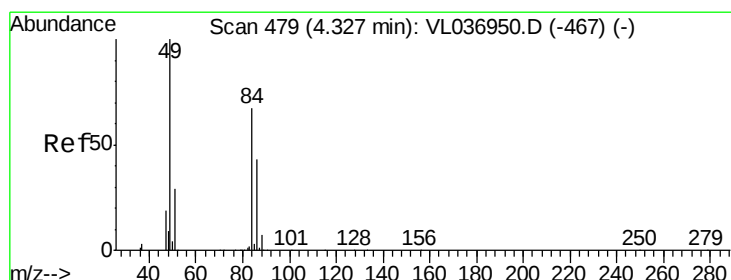
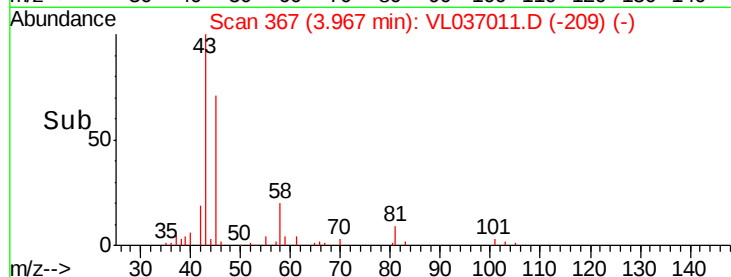
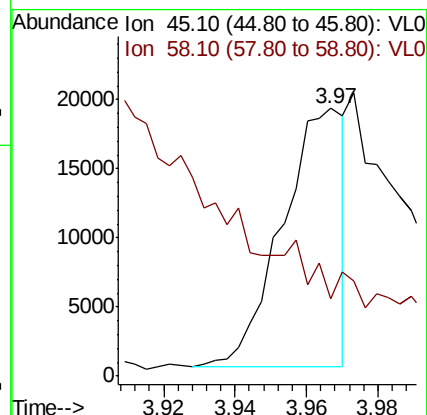
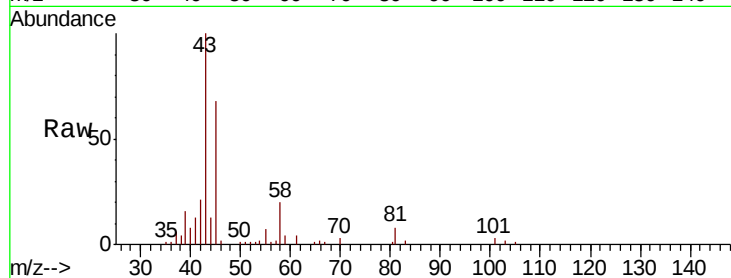
KSV-05

Tot Ion: 45 Resp: 22245

Ion Ratio Lower Upper

45 100

58 0.0 37.2 55.8#



#20

Methylene Chloride

Concen: 0.308 ppbv

RT: 4.33 min Scan# 479

Delta R.T. -0.00 min

Lab File: VL037011.D

Acq: 20 May 2021 3:42

Tgt Ion: 84 Resp: 16772

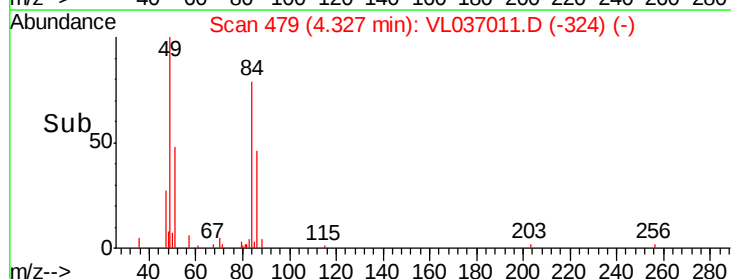
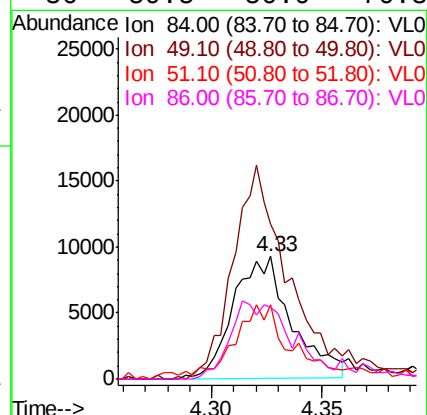
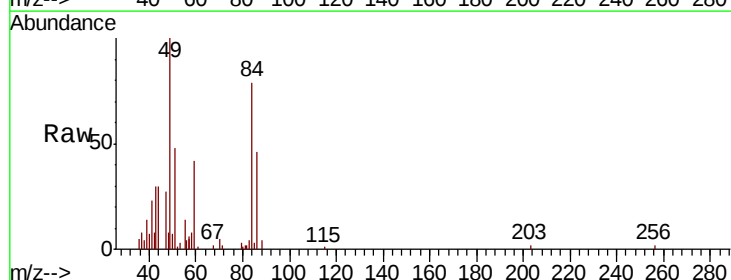
Ion Ratio Lower Upper

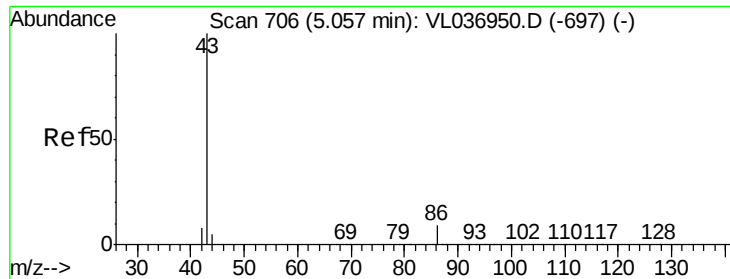
84 100

49 121.4 119.8 179.6

51 58.3 35.1 52.7#

86 59.5 50.9 76.3





#23

Vinyl Acetate

Concen: 0.033 ppbv

RT: 5.09 min Scan# 715

Delta R.T. 0.03 min

Lab File: VL037011.D

Acq: 20 May 2021 3:42

Instrument :

MSVOA_L

ClientSampleID :

KSV-05

Tot Ion: 43 Resp: 5283

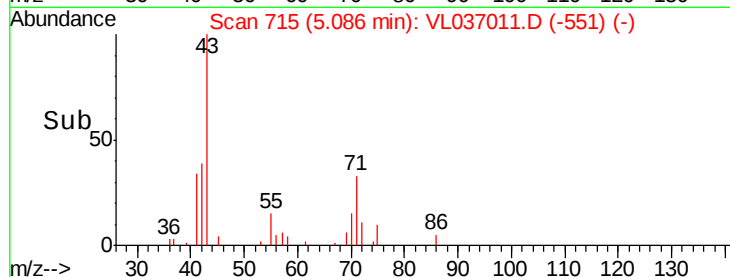
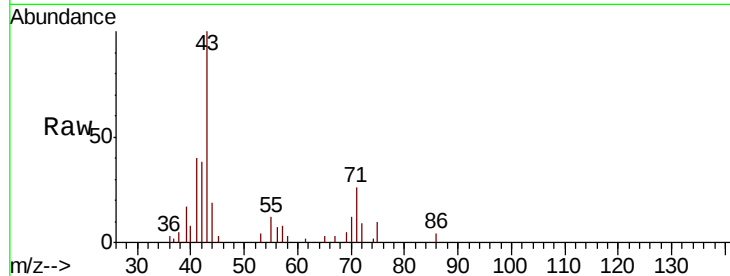
Ion Ratio Lower Upper

43 100

86 0.0 5.8 8.8#

42 12.9 7.4 11.2#

44 6.2 3.3 4.9#

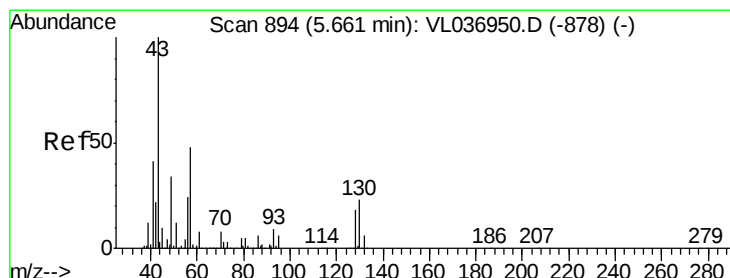
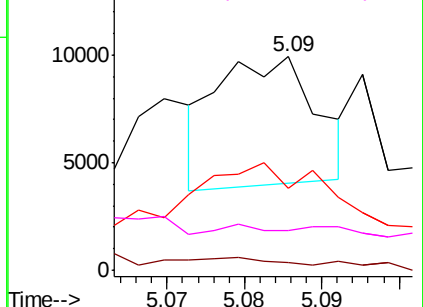


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 0.482 ppbv

RT: 5.66 min Scan# 893

Delta R.T. -0.00 min

Lab File: VL037011.D

Acq: 20 May 2021 3:42

Tgt Ion: 43 Resp: 117753

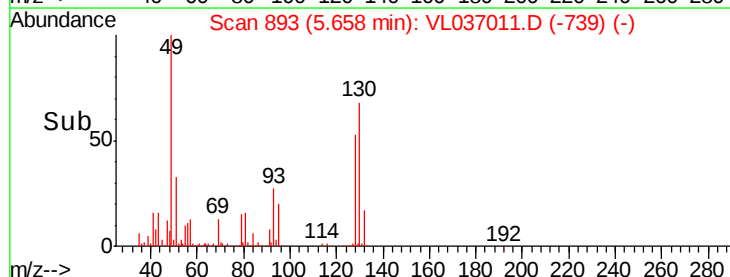
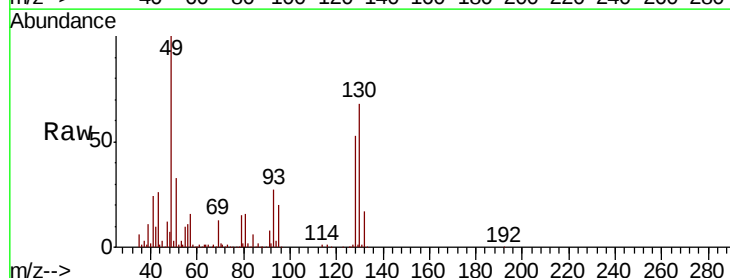
Ion Ratio Lower Upper

43 100

45 10.0 7.8 11.8

61 8.5 7.8 11.8

70 12.7 5.6 8.4#

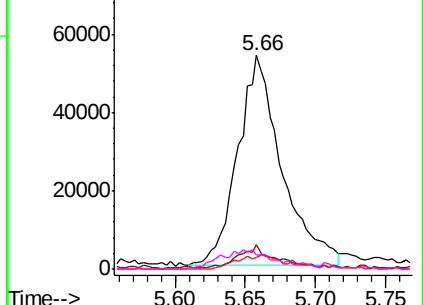


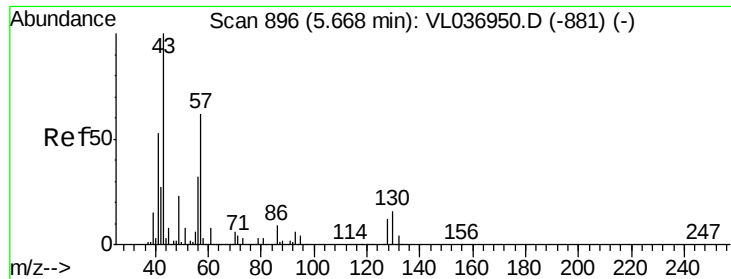
Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 0.528 ppbv

RT: 5.66 min Scan# 893

Delta R.T. -0.01 min

Lab File: VL037011.D

Acq: 20 May 2021 3:42

Instrument :

MSVOA_L

ClientSampleId :

KSV-05

Tot Ion: 57 Resp: 65782

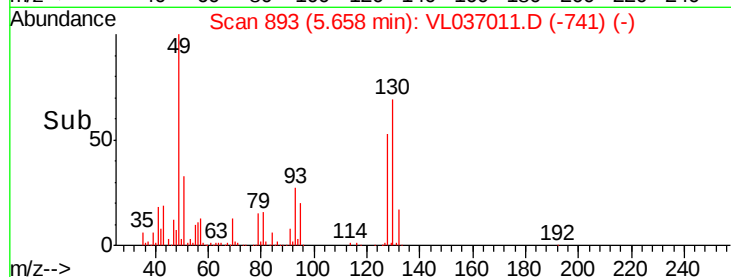
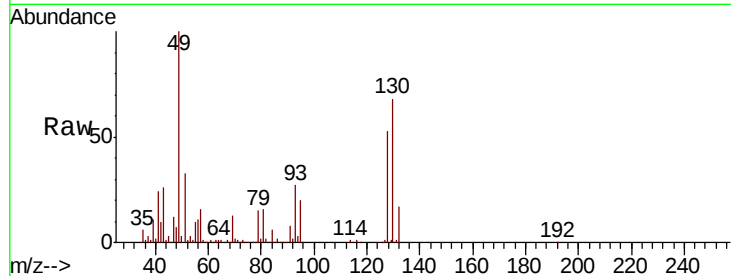
Ion Ratio Lower Upper

57 100

41 273.8 70.5 105.7#

43 187.6 165.8 248.8

56 116.2 42.2 63.4#

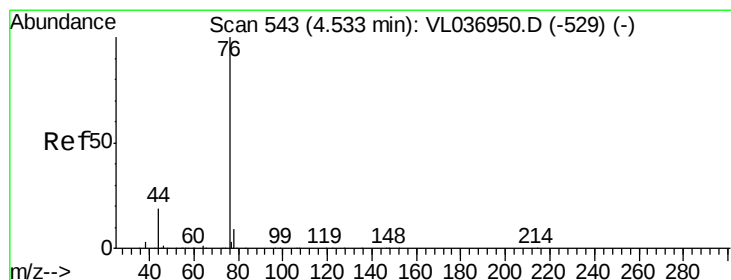
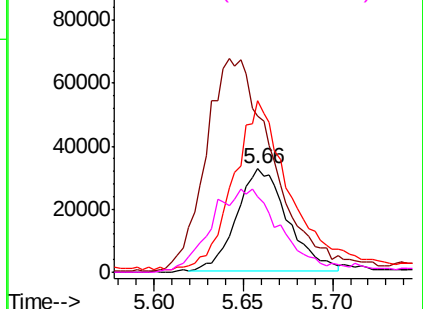


Abundance Ion 57.10 (56.80 to 57.80): VL0

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: 1.626 ppbv

RT: 4.53 min Scan# 542

Delta R.T. -0.00 min

Lab File: VL037011.D

Acq: 20 May 2021 3:42

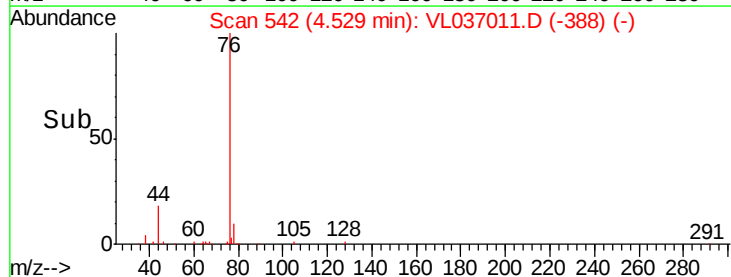
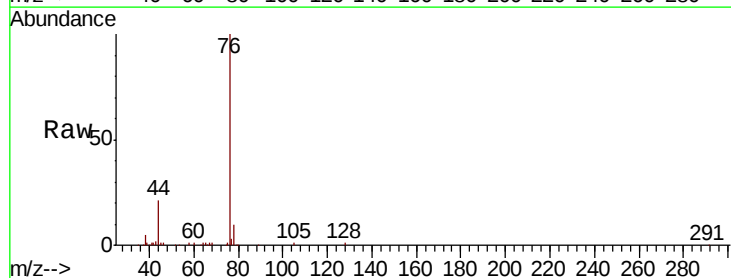
Tgt Ion: 76 Resp: 204299

Ion Ratio Lower Upper

76 100

44 21.3 15.5 23.3

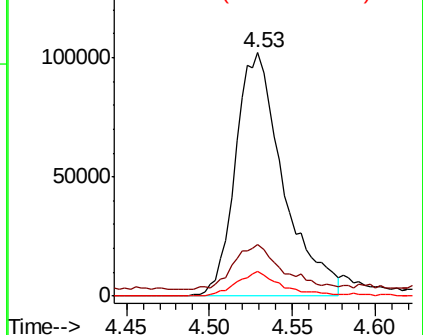
78 10.3 7.8 11.6

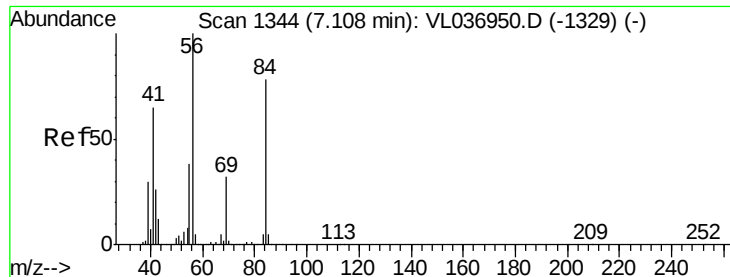


Abundance Ion 76.00 (75.70 to 76.70): VL0

Ion 44.10 (43.80 to 44.80): VL0

Ion 78.00 (77.70 to 78.70): VL0





#30

Cyclohexane

Concen: 0.173 ppbv

RT: 7.10 min Scan# 1342

Delta R.T. -0.01 min

Lab File: VL037011.D

Acq: 20 May 2021 3:42

Instrument :

MSVOA_L

ClientSampleId :

KSV-05

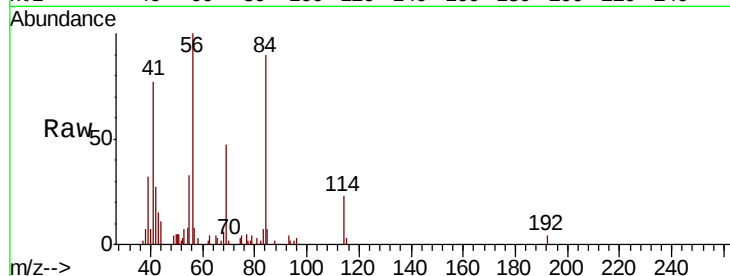
Tot Ion: 84 Resp: 18288

Ion Ratio Lower Upper

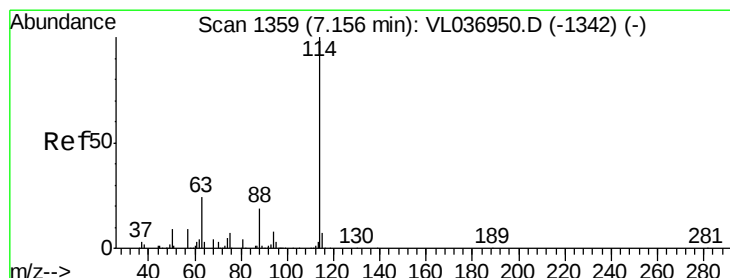
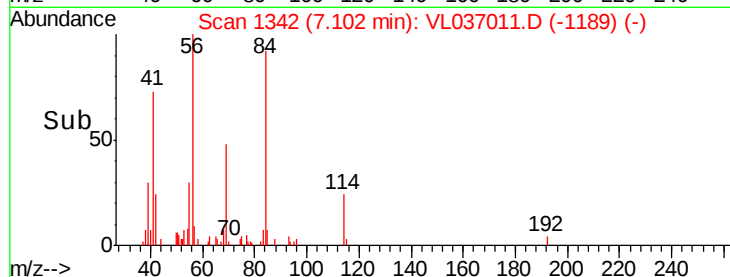
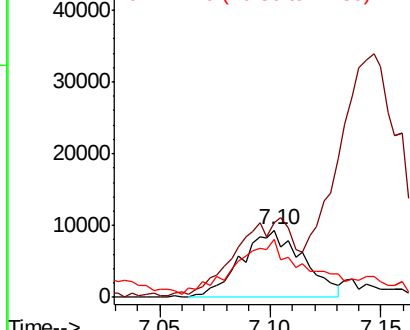
84 100

56 0.0 107.9 161.9#

41 119.8 65.5 98.3#



Abundance Ion 84.20 (83.90 to 84.90): VL0
Ion 56.10 (55.80 to 56.80): VL0
Ion 41.10 (40.80 to 41.80): VL0



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.14 min Scan# 1355

Delta R.T. -0.01 min

Lab File: VL037011.D

Acq: 20 May 2021 3:42

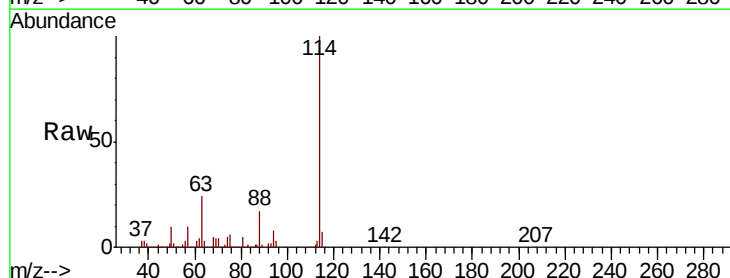
Tgt Ion: 114 Resp: 2969912

Ion Ratio Lower Upper

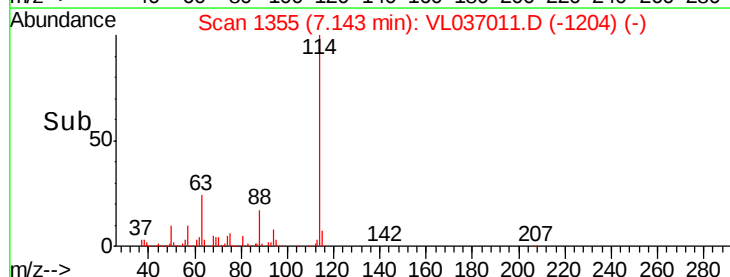
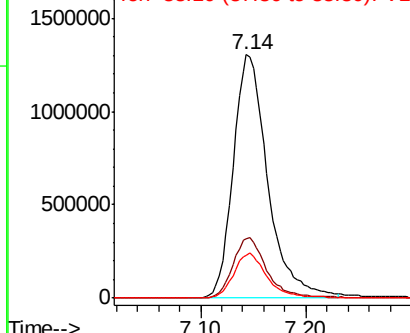
114 100

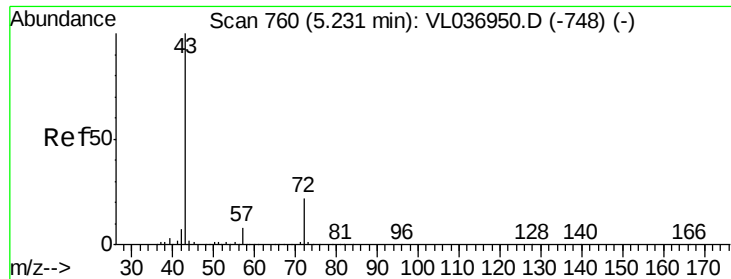
63 24.6 19.6 29.4

88 18.0 14.6 21.8



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

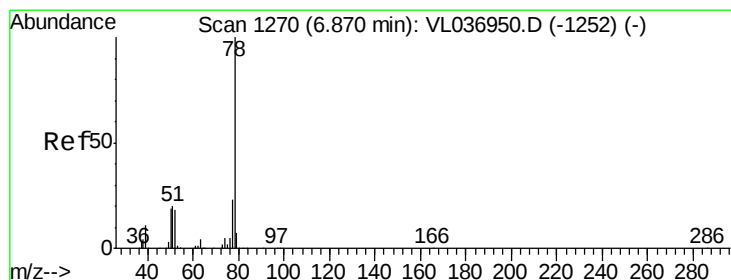
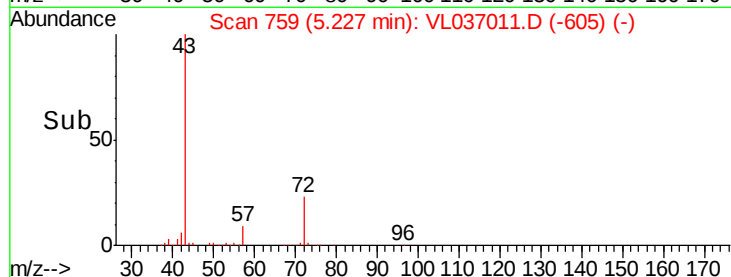
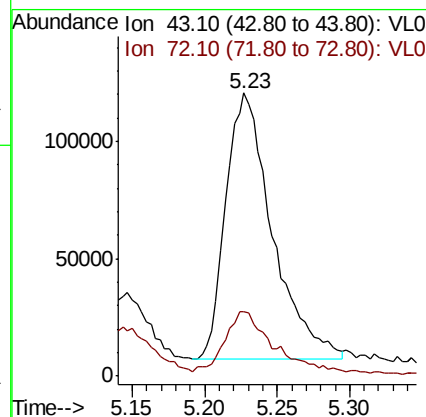
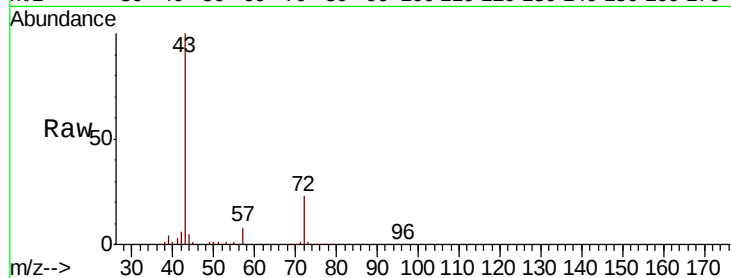




#34
2-Butanone
Concen: 2.339 ppbv
RT: 5.23 min Scan# 759
Delta R.T. -0.00 min
Lab File: VL037011.D
Acq: 20 May 2021 3:42

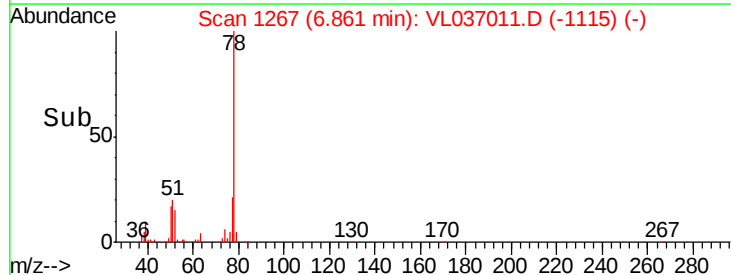
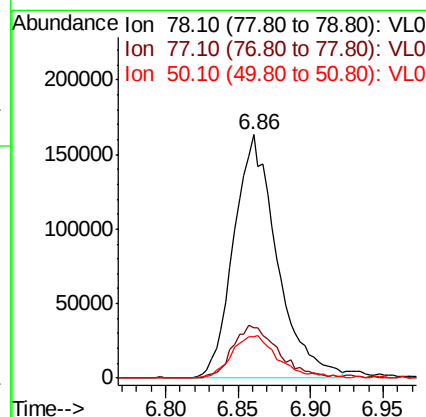
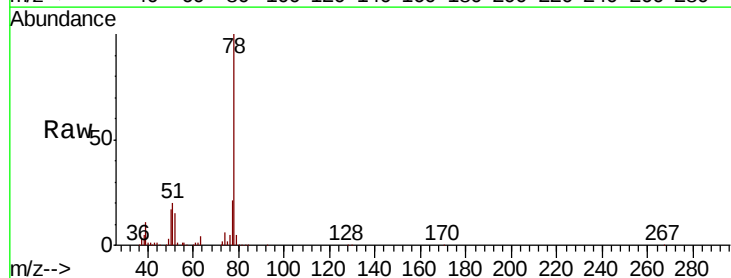
Instrument :
MSVOA_L
ClientSampleId :
KSV-05

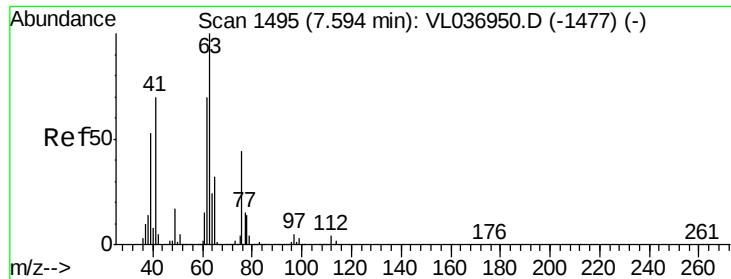
Tot Ion: 43 Resp: 252992
Ion Ratio Lower Upper
43 100
72 28.5 19.0 28.4#



#36
Benzene
Concen: 1.323 ppbv
RT: 6.86 min Scan# 1267
Delta R.T. -0.01 min
Lab File: VL037011.D
Acq: 20 May 2021 3:42

Tgt Ion: 78 Resp: 338401
Ion Ratio Lower Upper
78 100
77 20.4 18.6 28.0
50 17.0 15.0 22.4





#39

1,2-Dichloropropane

Concen: 7.257 ppbv

RT: 7.15 min Scan# 1356

Delta R.T. -0.45 min

Lab File: VL037011.D

Acq: 20 May 2021 3:42

Instrument :

MSVOA_L

ClientSampleId :

KSV-05

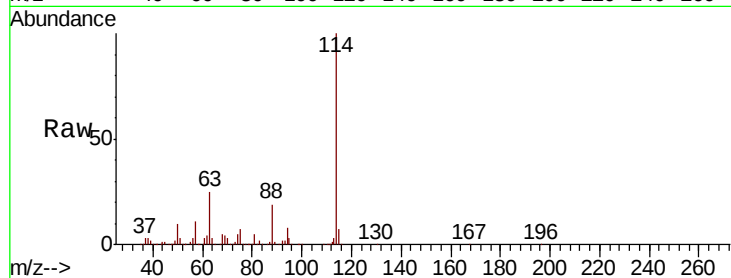
Tot Ion: 63 Resp: 715124

Ion Ratio Lower Upper

63 100

41 0.0 55.7 83.5#

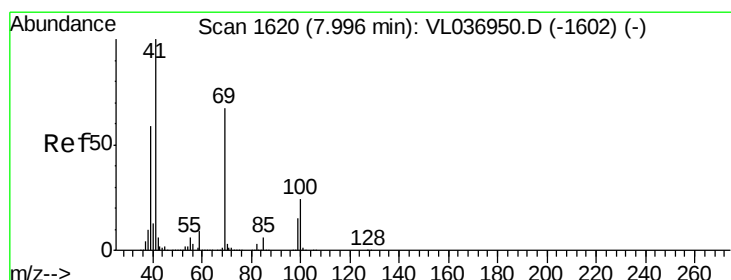
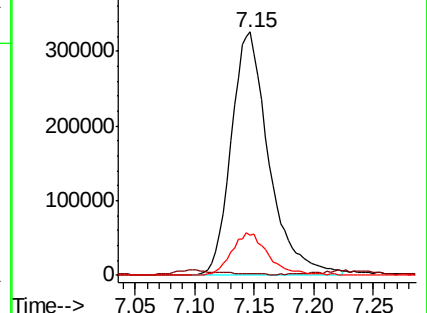
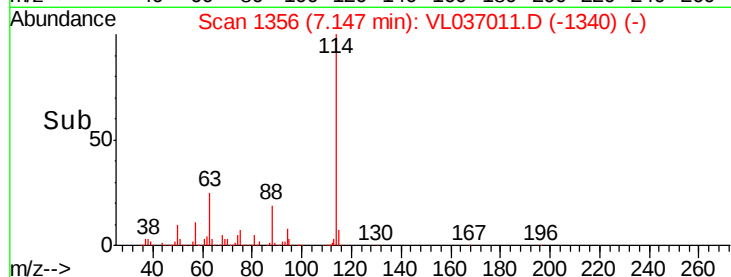
62 16.4 56.2 84.4#



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



#43

Methyl Methacrylate

Concen: 0.038 ppbv

RT: 8.01 min Scan# 1626

Delta R.T. 0.02 min

Lab File: VL037011.D

Acq: 20 May 2021 3:42

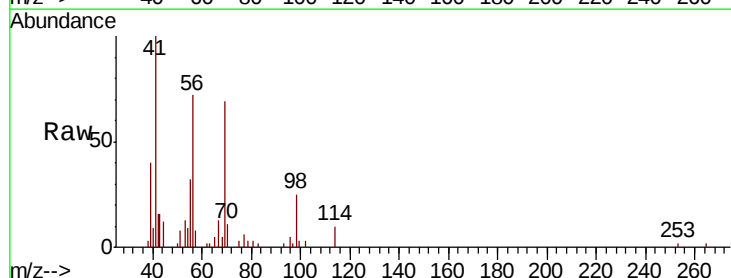
Tgt Ion: 69 Resp: 3320

Ion Ratio Lower Upper

69 100

41 0.0 118.6 178.0#

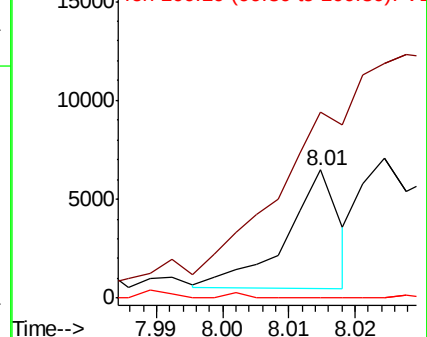
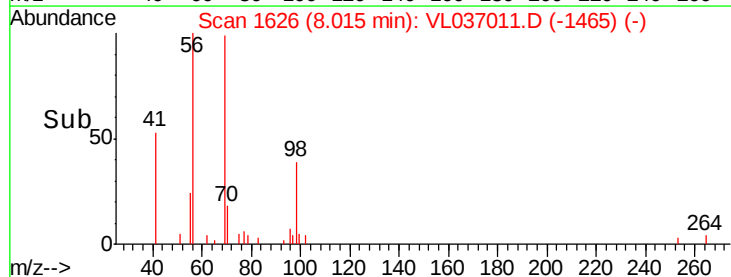
100 5.1 28.2 42.4#

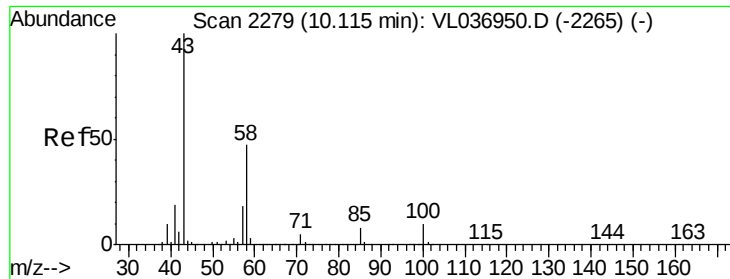


Abundance Ion 69.10 (68.80 to 69.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 100.10 (99.80 to 100.80): VL0

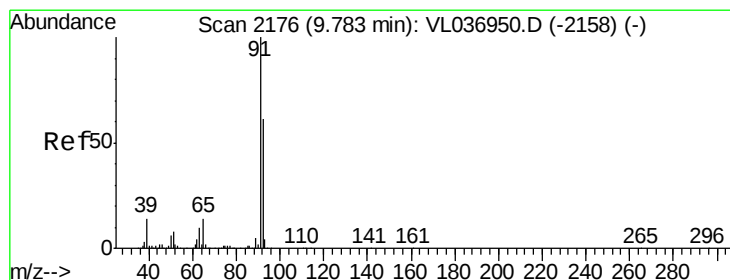
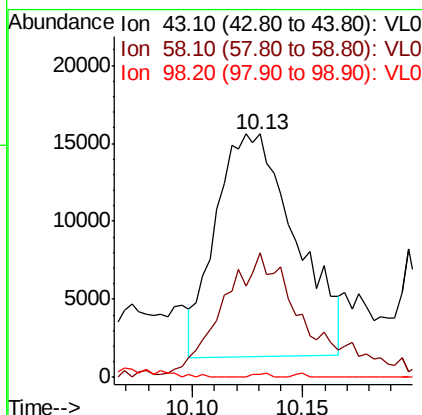
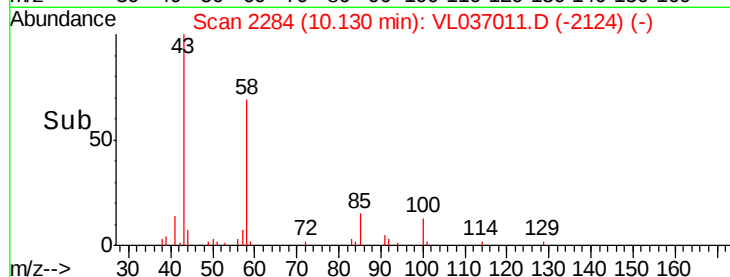
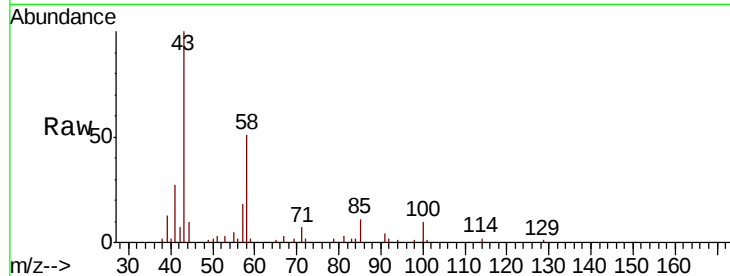




#51
2-Hexanone
Concen: 0.380 ppbv
RT: 10.13 min Scan# 2284
Delta R.T. 0.02 min
Lab File: VL037011.D
Acq: 20 May 2021 3:42

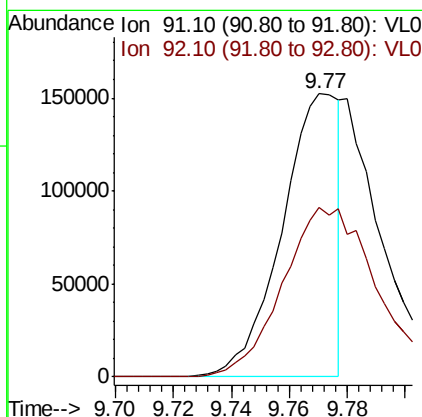
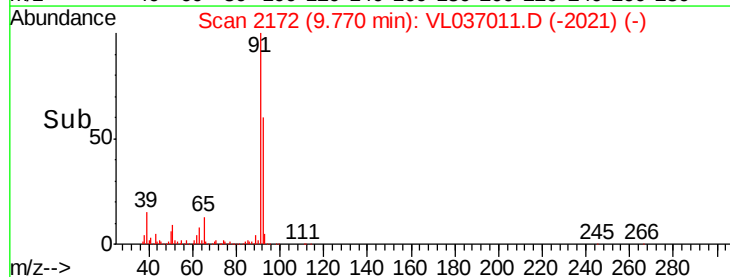
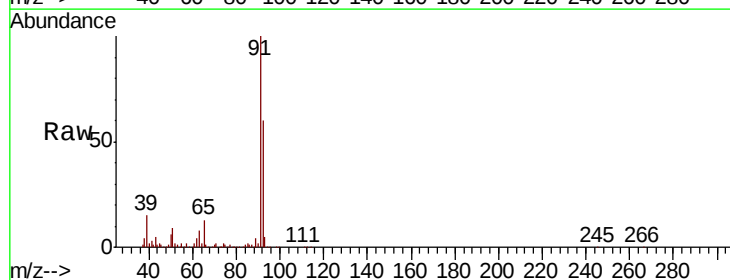
Instrument :
MSVOA_L
ClientSampled :
KSV-05

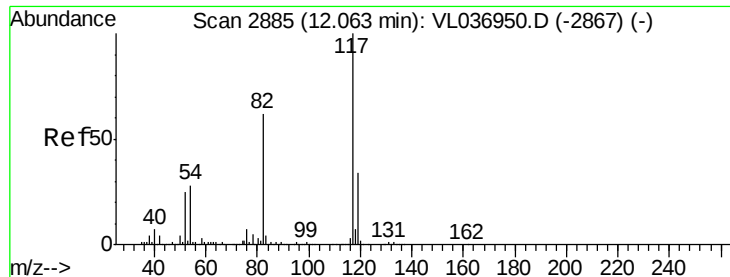
Tot Ion: 43 Resp: 35816
Ion Ratio Lower Upper
43 100
58 59.6 41.1 61.7
98 0.3 0.1 0.1#



#53
Toluene
Concen: 0.686 ppbv
RT: 9.77 min Scan# 2172
Delta R.T. -0.01 min
Lab File: VL037011.D
Acq: 20 May 2021 3:42

Tgt Ion: 91 Resp: 208711
Ion Ratio Lower Upper
91 100
92 102.9 49.5 74.3#

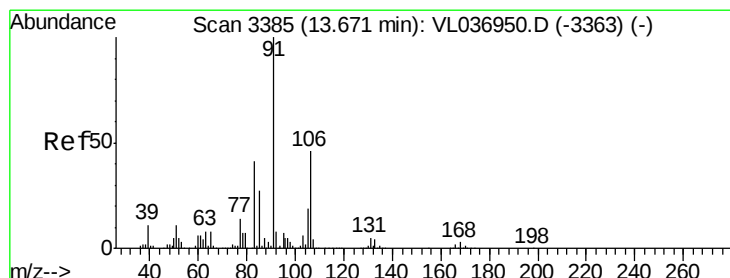
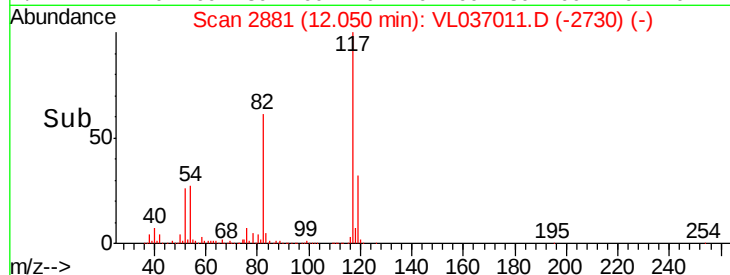
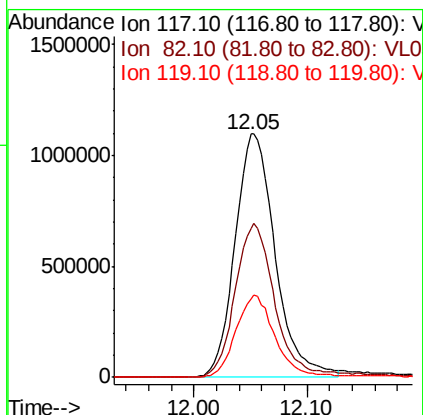
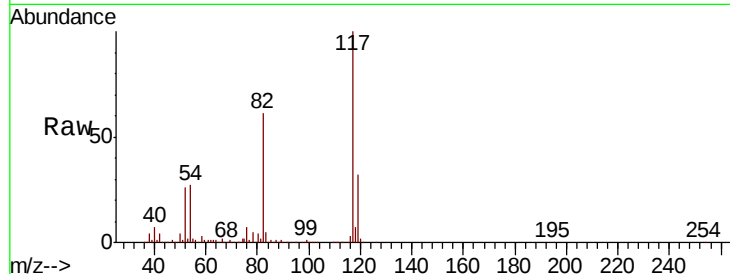




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.05 min Scan# 2881
Delta R.T. -0.01 min
Lab File: VL037011.D
Acq: 20 May 2021 3:42

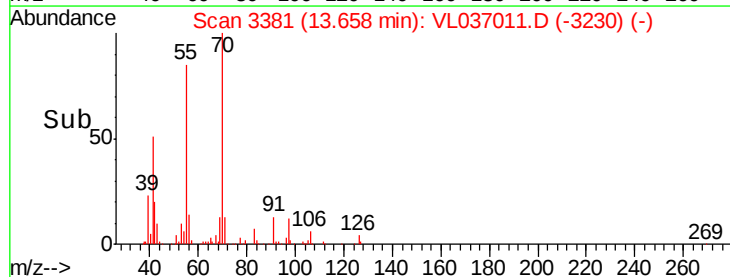
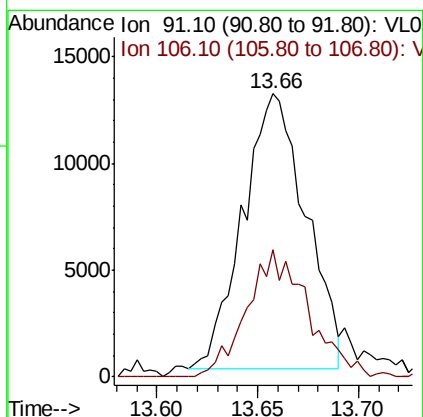
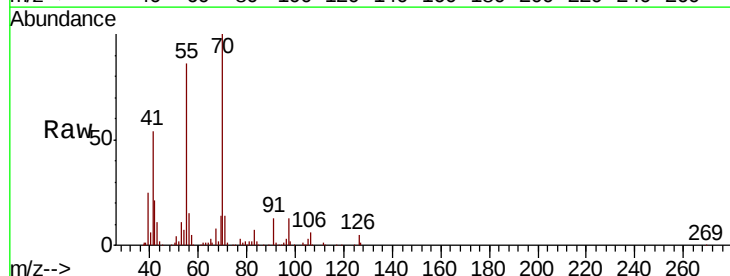
Instrument :
MSVOA_L
ClientSampleID :
KSV-05

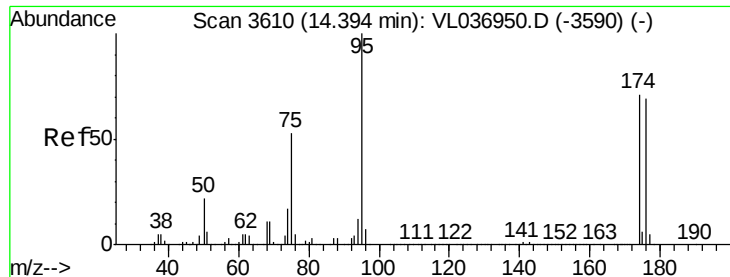
Tot Ion:117 Resp: 2713999
Ion Ratio Lower Upper
117 100
82 65.2 52.6 79.0
119 34.0 46.6 70.0#



#60
o-Xylene
Concen: 0.093 ppbv
RT: 13.66 min Scan# 3381
Delta R.T. -0.01 min
Lab File: VL037011.D
Acq: 20 May 2021 3:42

Tgt Ion: 91 Resp: 28037
Ion Ratio Lower Upper
91 100
106 45.1 23.4 70.3

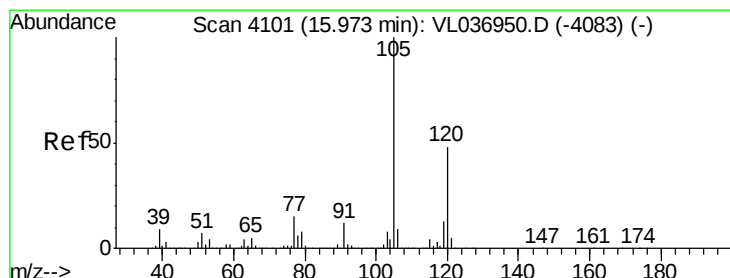
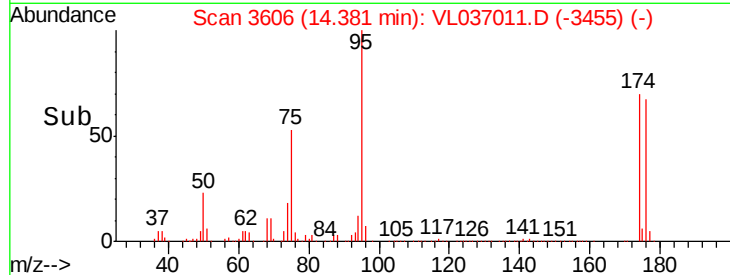
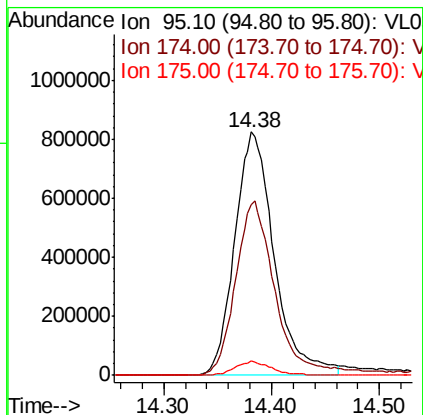
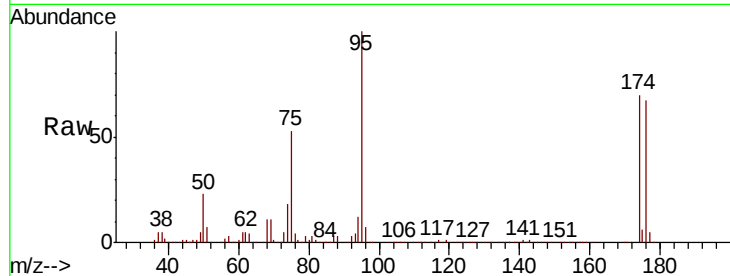




#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.275 ppbv
 RT: 14.38 min Scan# 3606
 Delta R.T. -0.01 min
 Lab File: VL037011.D
 Acq: 20 May 2021 3:42

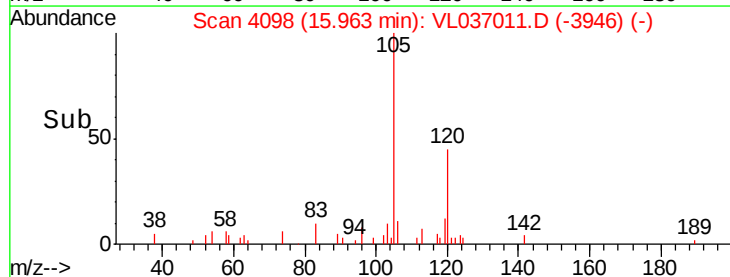
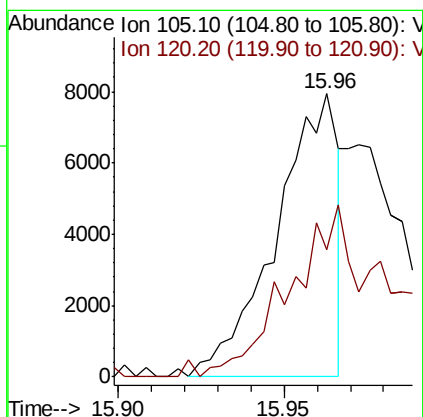
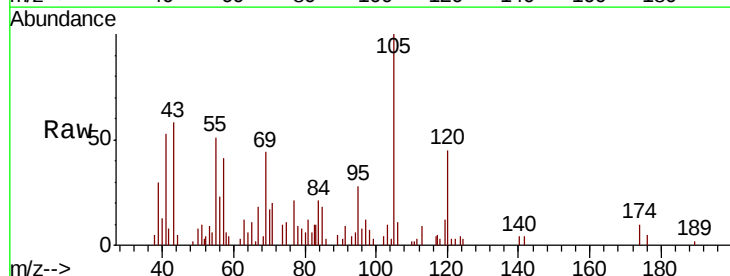
Instrument :
 MSVOA_L
 ClientSampleId :
 KSV-05

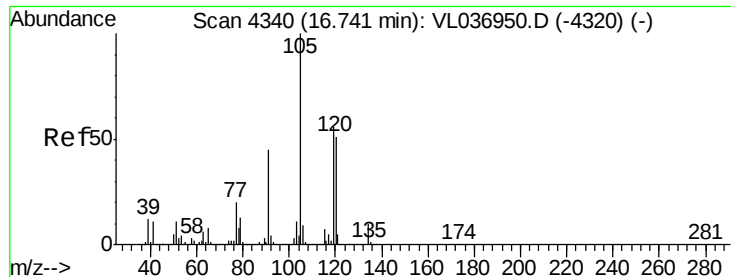
Tot Ion: 95 Resp: 2094896
 Ion Ratio Lower Upper
 95 100
 174 75.1 58.4 87.6
 175 5.4 4.4 6.6



#73
 1,3,5-Trimethylbenzene
 Concen: 0.031 ppbv
 RT: 15.96 min Scan# 4098
 Delta R.T. -0.01 min
 Lab File: VL037011.D
 Acq: 20 May 2021 3:42

Tgt Ion:105 Resp: 10272
 Ion Ratio Lower Upper
 105 100
 120 38.7 38.6 58.0





#74

1,2,4-Trimethylbenzene

Concen: 0.052 ppbv

RT: 16.73 min Scan# 4336

Delta R.T. -0.01 min

Lab File: VL037011.D

Acq: 20 May 2021 3:42

Instrument :

MSVOA_L

ClientSampleId :

KSV-05

Tot Ion:105 Resp: 18253

Ion Ratio Lower Upper

105 100

120 41.5 40.6 61.0

91 9.6 37.4 56.0#

77 10.6 16.2 24.4#

