

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL051921\  
 Data File : VL037004.D  
 Acq On : 19 May 2021 23:10  
 Operator : SY/AP  
 Sample : M2424-07  
 Misc : 400mL/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 KSV-06

Quant Time: May 20 06:33:28 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   | 5.65  | 49   | 1188931  | 10.00 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 7.15  | 114  | 3559259  | 10.00 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 12.06 | 117  | 3294435  | 10.00 | ppbv  | 0.00     |

System Monitoring Compounds

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| 68) 1-Bromo-4-Fluorobenzene | 14.39  | 95    | 2762919  | 11.16    | ppbv | 0.00    |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 111.60% |

| Target Compounds               |       |     |         |        | Ovalue    |
|--------------------------------|-------|-----|---------|--------|-----------|
| 2) Dichlorodifluoromethane     | 3.03  | 85  | 39445   | 0.196  | ppbv 100  |
| 3) Chlorodifluoromethane       | 2.97  | 51  | 53070   | 0.244  | ppbv 93   |
| 4) Chloromethane               | 3.12  | 50  | 42028   | 0.567  | ppbv 94   |
| 9) Propene                     | 3.00  | 41  | 245319  | 3.145  | ppbv 94   |
| 10) Heptane                    | 8.10  | 43  | 162904  | 0.838  | ppbv 99   |
| 11) Trichlorofluoromethane     | 3.93  | 101 | 42334   | 0.227  | ppbv 87   |
| 12) 1,1,2-Trichlorotrifluoroet | 4.47  | 101 | 7987    | 0.060  | ppbv # 35 |
| 13) Ethanol                    | 3.60  | 45  | 493910  | 47.462 | ppbv 94   |
| 15) Acetone                    | 3.83  | 43  | 9627017 | 79.053 | ppbv 98   |
| 16) 1,3-Butadiene              | 3.33  | 39  | 91050   | 1.203  | ppbv # 10 |
| 17) tert-Butyl alcohol         | 4.29  | 59  | 91858   | 0.823  | ppbv # 92 |
| 19) Isopropyl Alcohol          | 3.96  | 45  | 129222  | 1.974  | ppbv # 30 |
| 20) Methylene Chloride         | 4.32  | 84  | 2116861 | 32.428 | ppbv 99   |
| 21) Allyl Chloride             | 4.37  | 41  | 4050    | 0.044  | ppbv # 19 |
| 23) Vinyl Acetate              | 5.04  | 43  | 39112   | 0.202  | ppbv # 22 |
| 24) 1,1-Dichloroethane         | 4.99  | 63  | 119551  | 0.859  | ppbv 97   |
| 25) Ethyl Acetate              | 5.66  | 43  | 1560522 | 5.333  | ppbv # 81 |
| 26) Hexane                     | 5.66  | 57  | 2064580 | 13.811 | ppbv # 45 |
| 27) Carbon Disulfide           | 4.53  | 76  | 174095  | 1.156  | ppbv 98   |
| 29) Chloroform                 | 5.73  | 83  | 690771  | 3.271  | ppbv 98   |
| 30) Cyclohexane                | 7.11  | 84  | 27383   | 0.216  | ppbv # 17 |
| 32) 1,1,1-Trichloroethane      | 6.49  | 97  | 2531448 | 11.162 | ppbv 99   |
| 34) 2-Butanone                 | 5.23  | 43  | 760697  | 5.870  | ppbv 99   |
| 36) Benzene                    | 6.87  | 78  | 85641   | 0.279  | ppbv 96   |
| 37) 1,2-Dichloroethane         | 6.49  | 62  | 176450  | 1.161  | ppbv # 1  |
| 38) Trichloroethene            | 7.81  | 130 | 7009    | 0.053  | ppbv # 78 |
| 39) 1,2-Dichloropropane        | 7.15  | 63  | 813171  | 6.885  | ppbv # 25 |
| 41) Tetrahydrofuran            | 6.29  | 42  | 11717   | 0.159  | ppbv # 40 |
| 43) Methyl Methacrylate        | 7.96  | 69  | 9260    | 0.088  | ppbv # 1  |
| 44) 2,2,4-Trimethylpentane     | 7.84  | 57  | 80113   | 0.152  | ppbv # 42 |
| 50) 4-Methyl-2-Pentanone       | 8.73  | 43  | 22637   | 0.106  | ppbv # 46 |
| 51) 2-Hexanone                 | 10.12 | 43  | 72921   | 0.645  | ppbv # 25 |
| 52) Tetrachloroethene          | 11.19 | 164 | 96775   | 0.794  | ppbv 96   |
| 53) Toluene                    | 9.78  | 91  | 421148  | 1.154  | ppbv 99   |
| 57) Chlorobenzene              | 12.12 | 112 | 11329   | 0.044  | ppbv # 38 |
| 58) Ethyl Benzene              | 12.69 | 91  | 101467  | 0.218  | ppbv 91   |
| 59) m/p-Xylene                 | 12.96 | 91  | 75318   | 0.196  | ppbv # 30 |
| 60) o-Xylene                   | 13.66 | 91  | 88002   | 0.240  | ppbv 96   |
| 61) Styrene                    | 13.50 | 104 | 53640   | 0.260  | ppbv # 87 |
| 62) Isopropylbenzene           | 14.64 | 105 | 19874   | 0.038  | ppbv # 80 |
| 63) 1,1,2,2-Tetrachloroethane  | 13.66 | 83  | 168539  | 0.616  | ppbv # 35 |

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Acq On : 19 May 2021 23:10  
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Sample : M2424-07  
Misc : 400mL/MSVOA L  
ALS Vial : 1 Sample Multiplier: 1

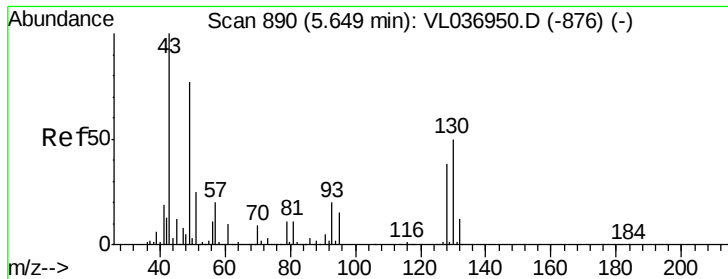
Instrument :  
MSVOA\_L  
ClientSampleId :  
KSV-06

Quant Time: May 20 06:33:28 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) |
|----------------------------|-------|------|----------|-------|--------|----------|
| 64) n-propylbenzene        | 15.54 | 120  | 14490    | 0.107 | ppbv # | 1        |
| 65) tert-Butylbenzene      | 16.74 | 119  | 46228    | 0.097 | ppbv # | 61       |
| 72) 4-Ethyltoluene         | 15.82 | 105  | 104502   | 0.240 | ppbv # | 86       |
| 73) 1,3,5-Trimethylbenzene | 15.97 | 105  | 125888   | 0.308 | ppbv   | 97       |
| 74) 1,2,4-Trimethylbenzene | 16.74 | 105  | 361679   | 0.856 | ppbv # | 71       |

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





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 890

Delta R.T. -0.00 min

Lab File: VL037004.D

Acq: 19 May 2021 23:10

Instrument :

MSVOA\_L

ClientSampleId :

KSV-06

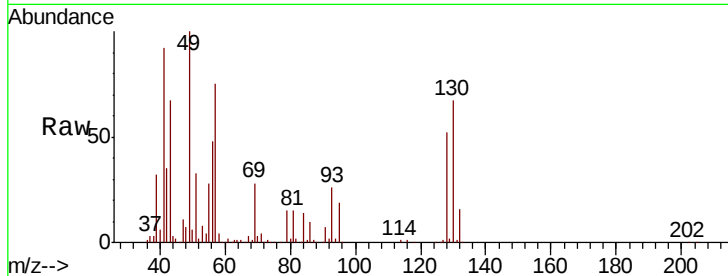
Tot Ion: 49 Resp: 1188931

Ion Ratio Lower Upper

49 100

128 54.5 26.9 80.7

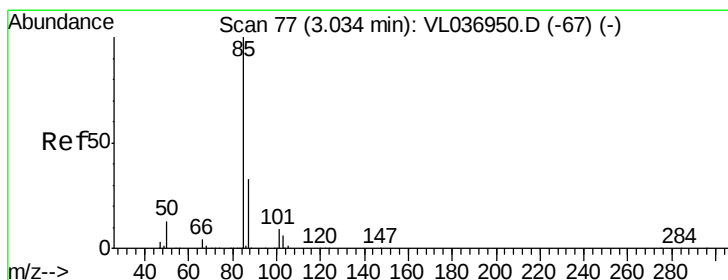
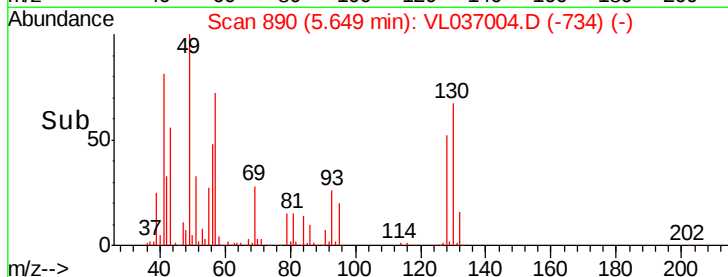
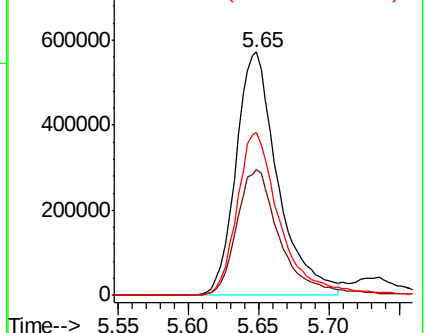
130 69.6 33.8 101.4



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: 0.196 ppbv

RT: 3.03 min Scan# 77

Delta R.T. 0.00 min

Lab File: VL037004.D

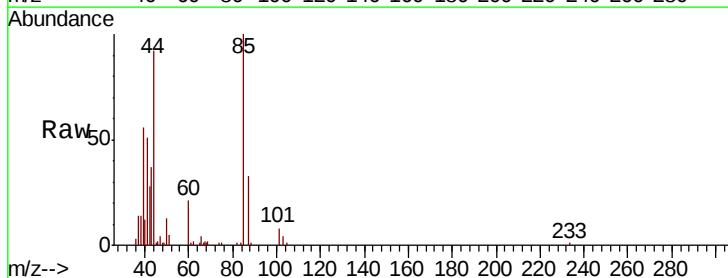
Acq: 19 May 2021 23:10

Tgt Ion: 85 Resp: 39445

Ion Ratio Lower Upper

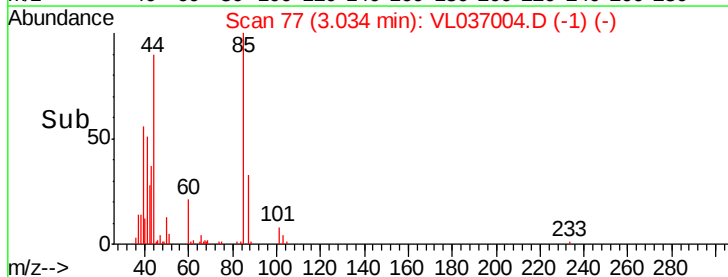
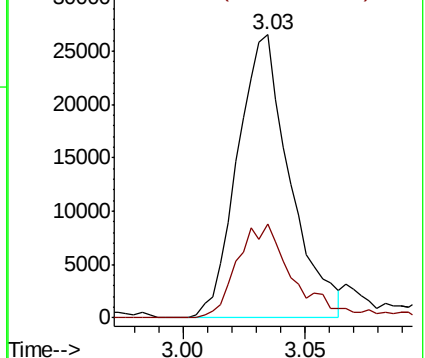
85 100

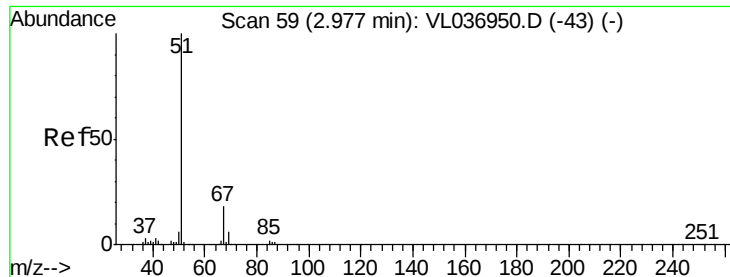
87 33.4 26.6 39.8



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.244 ppbv

RT: 2.97 min Scan# 58

Delta R.T. -0.00 min

Lab File: VL037004.D

Acq: 19 May 2021 23:10

Instrument :

MSVOA\_L

ClientSampleId :

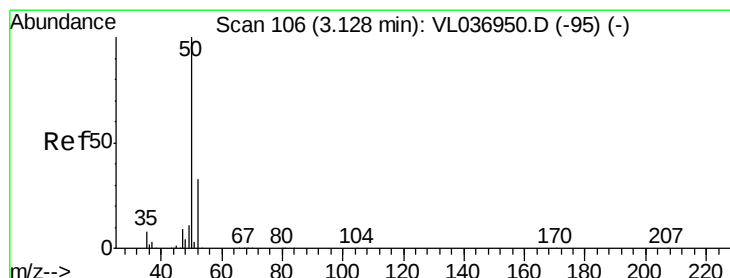
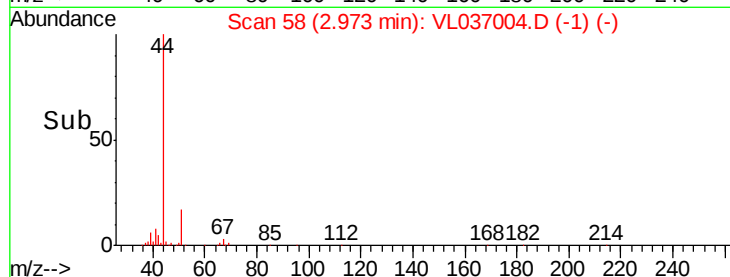
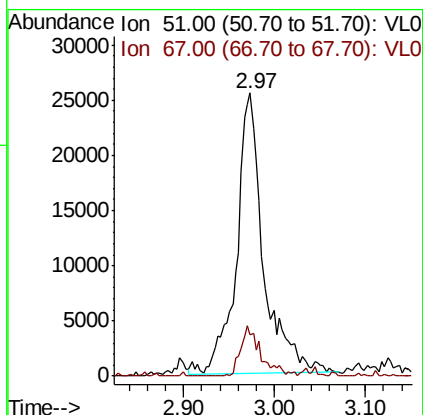
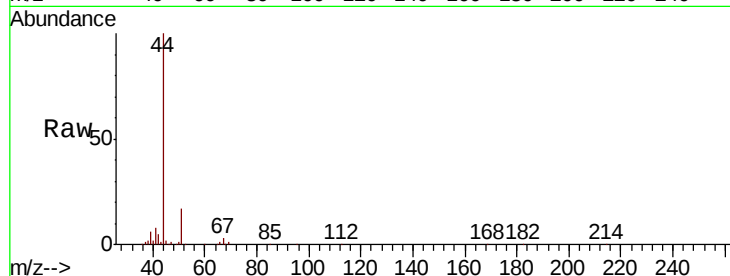
KSV-06

Tot Ion: 51 Resp: 53070

Ion Ratio Lower Upper

51 100

67 14.9 14.6 21.8



#4

Chloromethane

Concen: 0.567 ppbv

RT: 3.12 min Scan# 104

Delta R.T. -0.01 min

Lab File: VL037004.D

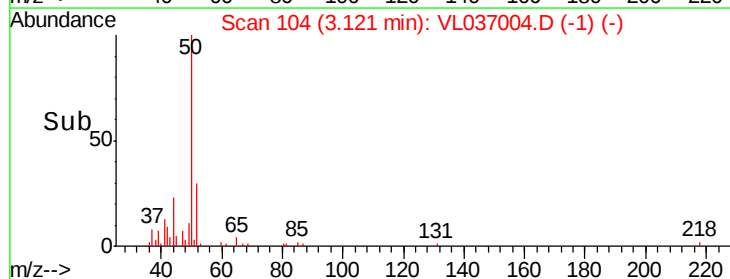
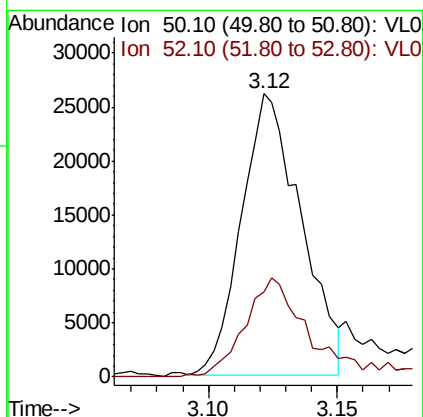
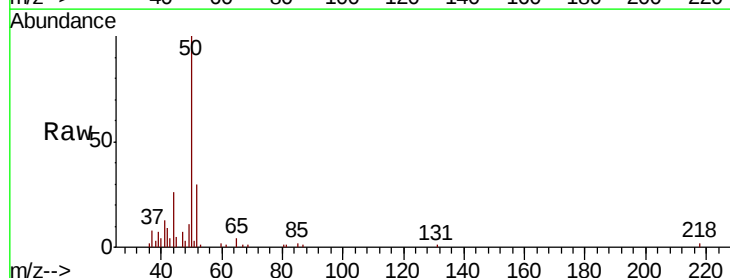
Acq: 19 May 2021 23:10

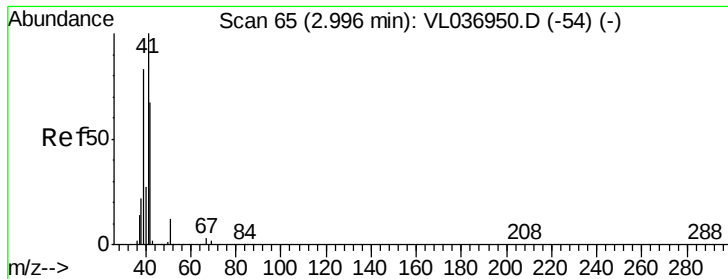
Tgt Ion: 50 Resp: 42028

Ion Ratio Lower Upper

50 100

52 29.3 26.1 39.1





#9

Propene

Concen: 3.145 ppbv

RT: 3.00 min Scan# 65

Delta R.T. 0.00 min

Lab File: VL037004.D

Acq: 19 May 2021 23:10

Instrument :

MSVOA\_L

ClientSampleId :

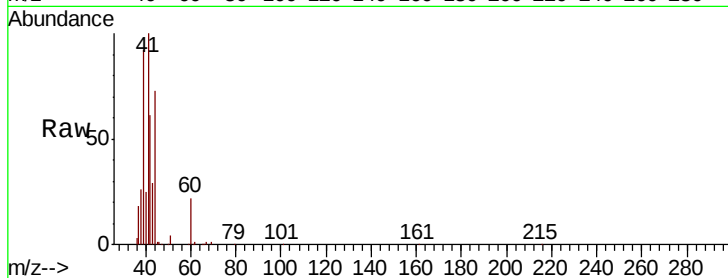
KSV-06

Tot Ion: 41 Resp: 245319

Ion Ratio Lower Upper

41 100

42 63.0 53.9 80.9



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

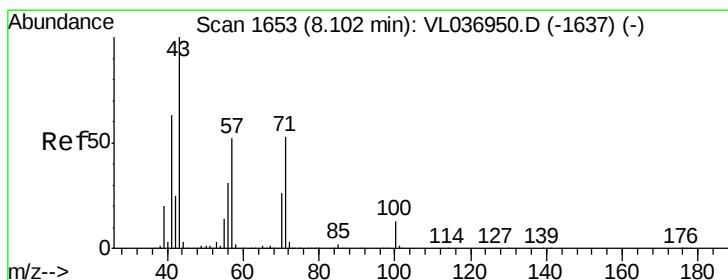
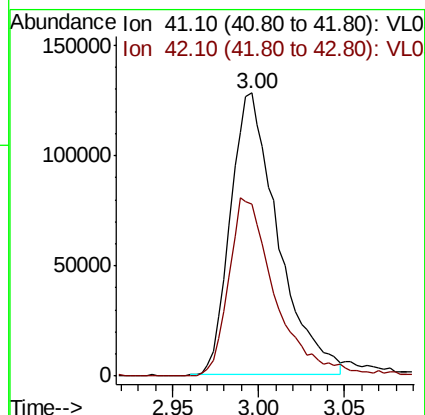
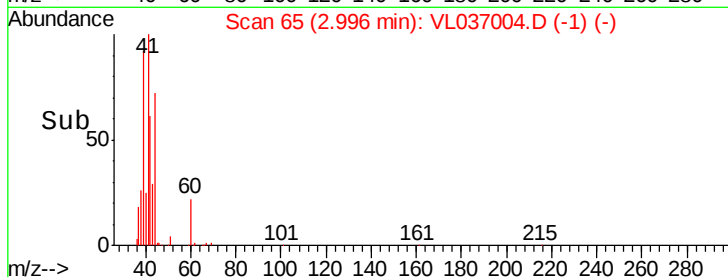
150000

100000

50000

0

Time-->



#10

Heptane

Concen: 0.838 ppbv

RT: 8.10 min Scan# 1652

Delta R.T. -0.00 min

Lab File: VL037004.D

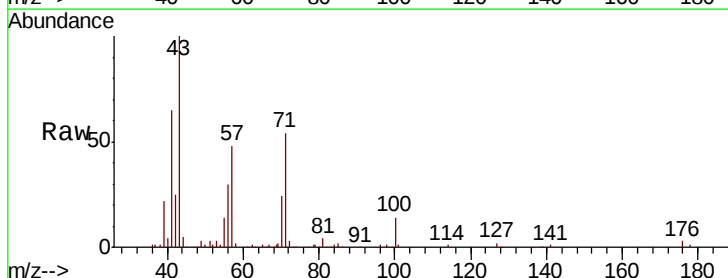
Acq: 19 May 2021 23:10

Tgt Ion: 43 Resp: 162904

Ion Ratio Lower Upper

43 100

57 52.0 41.0 61.6



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

80000

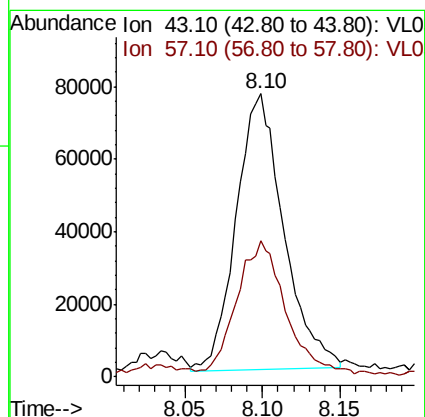
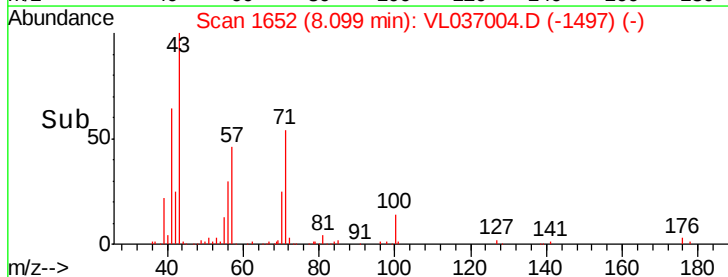
60000

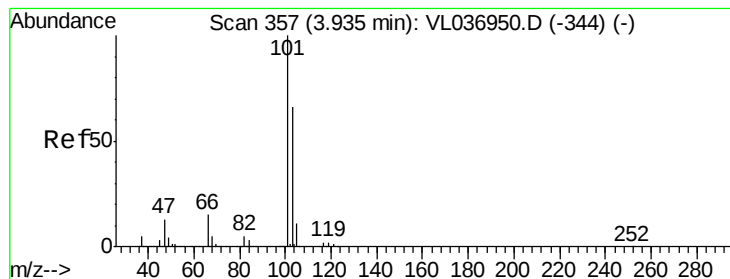
40000

20000

0

Time-->





#11

Trichlorofluoromethane

Concen: 0.227 ppbv

RT: 3.93 min Scan# 354

Delta R.T. -0.01 min

Lab File: VL037004.D

Acq: 19 May 2021 23:10

Instrument :

MSVOA\_L

ClientSampled :

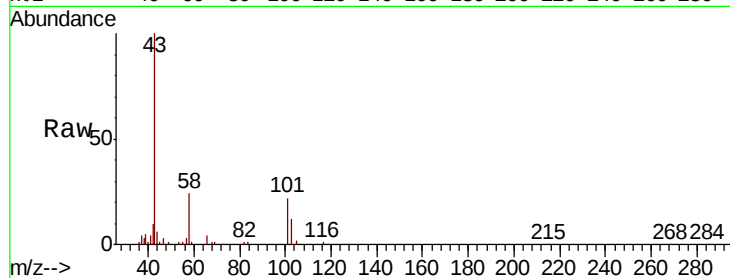
KSV-06

Tot Ion:101 Resp: 42334

Ion Ratio Lower Upper

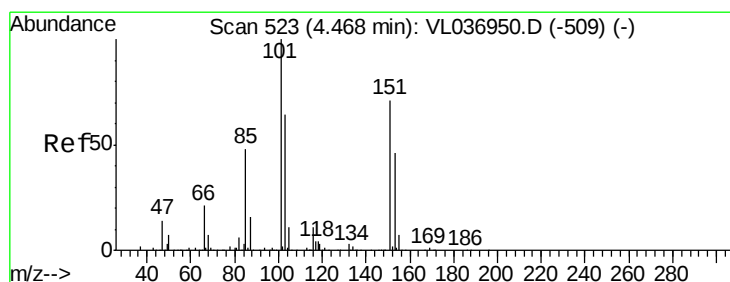
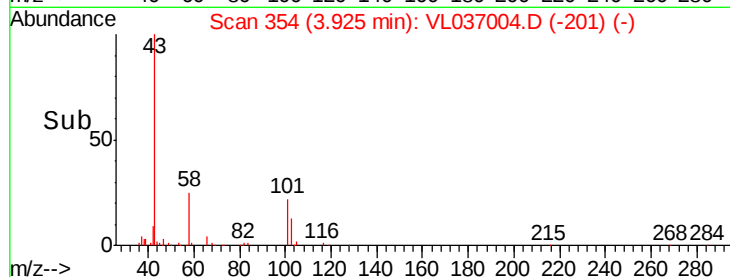
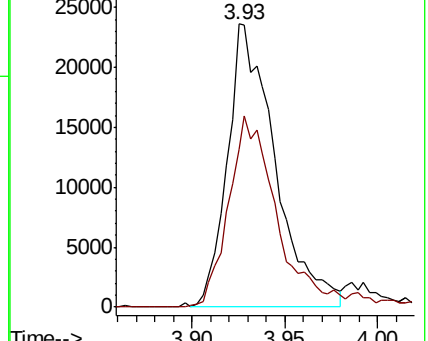
101 100

103 55.3 52.6 79.0



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.060 ppbv

RT: 4.47 min Scan# 523

Delta R.T. -0.00 min

Lab File: VL037004.D

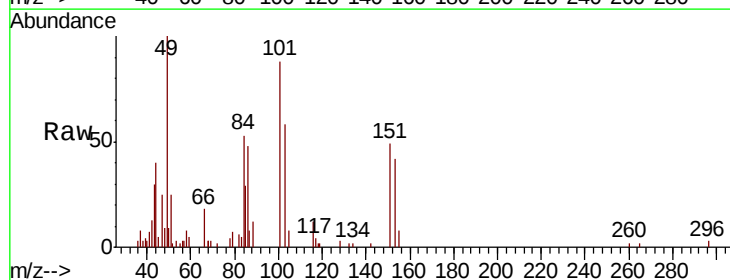
Acq: 19 May 2021 23:10

Tgt Ion:101 Resp: 7987

Ion Ratio Lower Upper

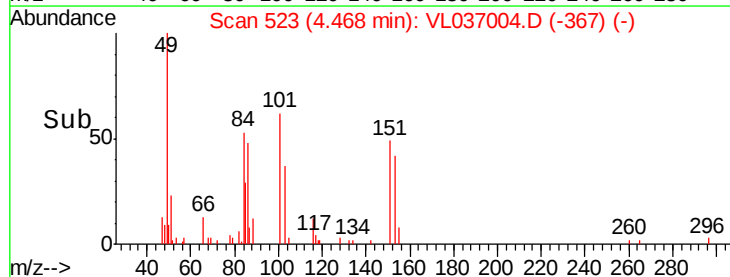
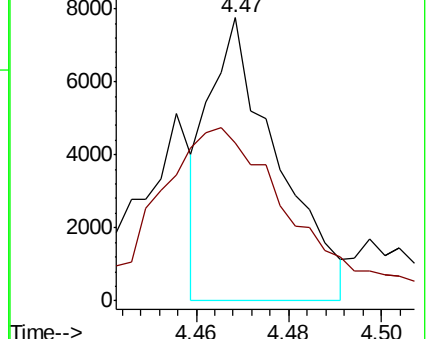
101 100

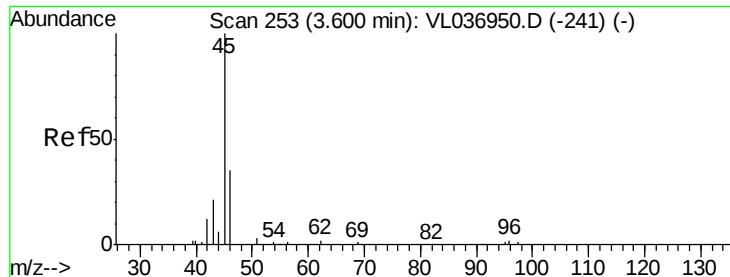
151 126.2 57.7 86.5#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V





#13

Ethanol

Concen: 47.462 ppbv

RT: 3.60 min Scan# 252

Delta R.T. -0.00 min

Lab File: VL037004.D

Acq: 19 May 2021 23:10

Instrument :

MSVOA\_L

ClientSampleId :

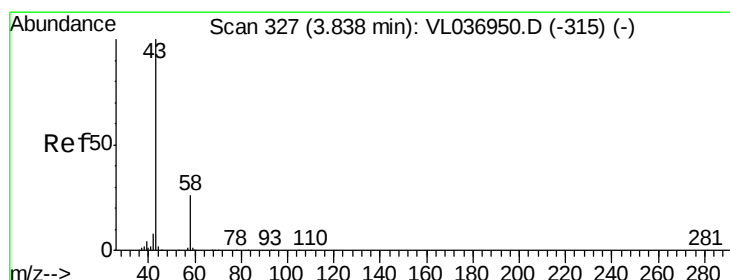
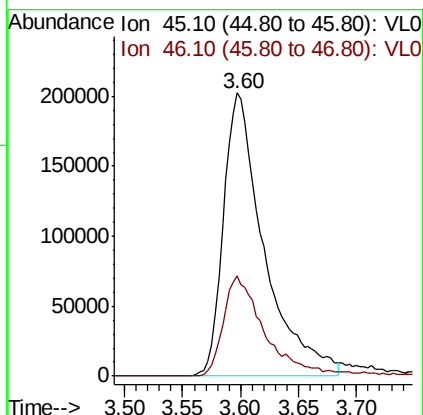
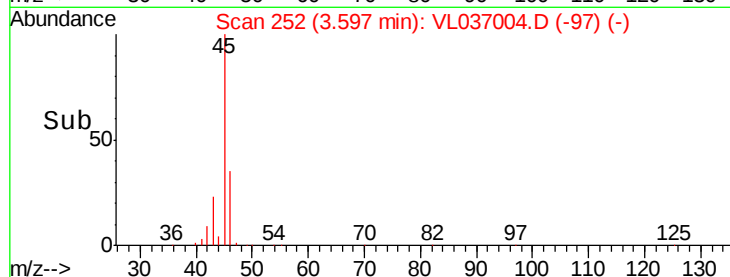
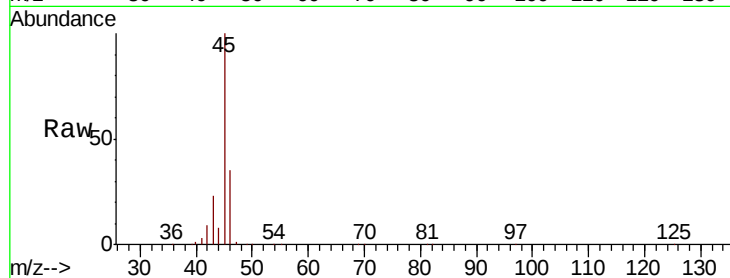
KSV-06

Tot Ion: 45 Resp: 493910

Ion Ratio Lower Upper

45 100

46 37.2 16.3 65.3



#15

Acetone

Concen: 79.053 ppbv

RT: 3.83 min Scan# 323

Delta R.T. -0.01 min

Lab File: VL037004.D

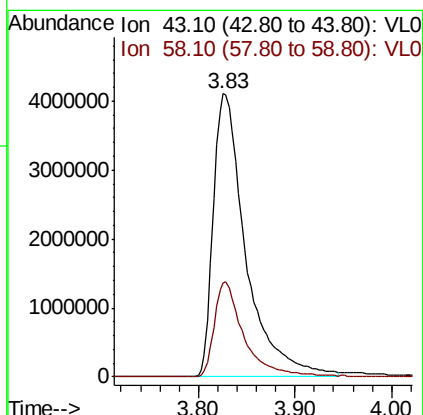
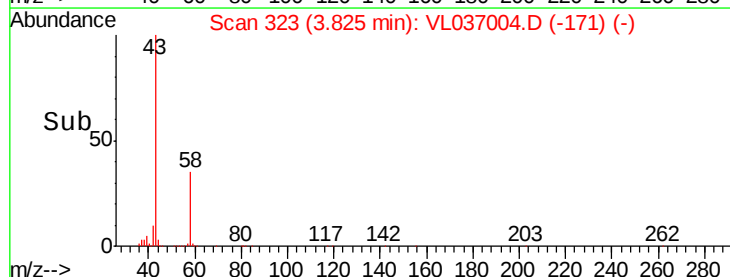
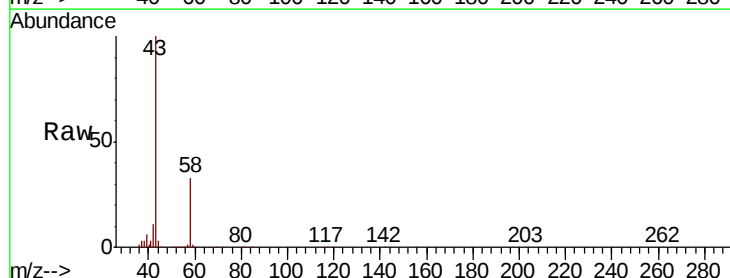
Acq: 19 May 2021 23:10

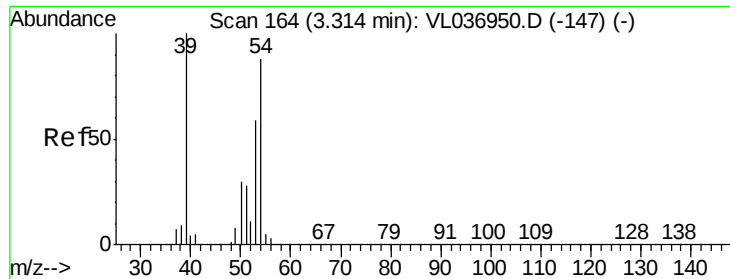
Tgt Ion: 43 Resp: 9627017

Ion Ratio Lower Upper

43 100

58 31.3 24.0 36.0





#16

1,3-Butadiene

Concen: 1.203 ppbv

RT: 3.33 min Scan# 170

Delta R.T. 0.02 min

Lab File: VL037004.D

Acq: 19 May 2021 23:10

Instrument :

MSVOA\_L

ClientSampleId :

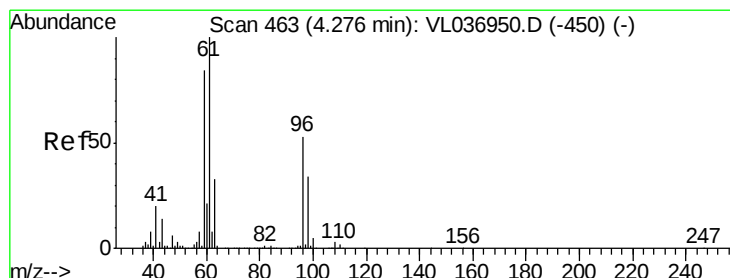
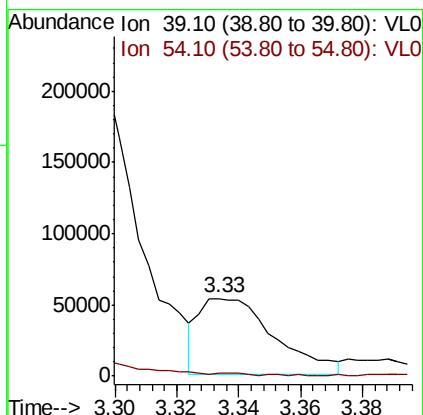
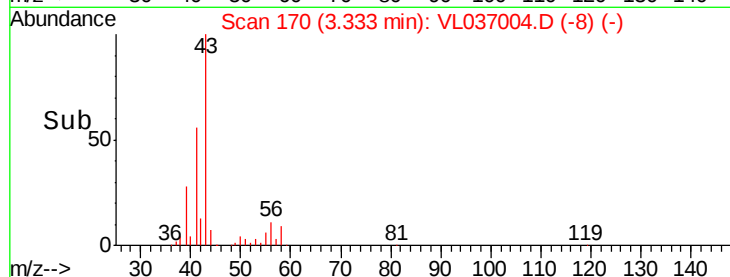
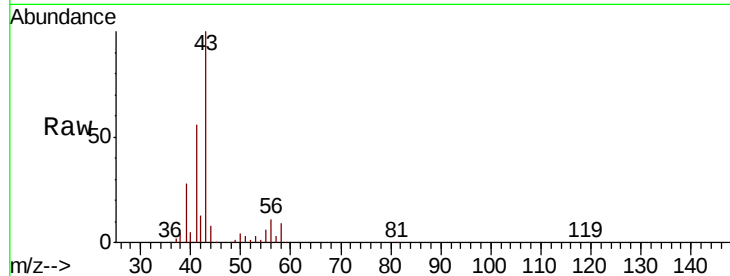
KSV-06

Tot Ion: 39 Resp: 91050

Ion Ratio Lower Upper

39 100

54 0.0 63.2 94.8#



#17

tert-Butyl alcohol

Concen: 0.823 ppbv

RT: 4.29 min Scan# 469

Delta R.T. 0.02 min

Lab File: VL037004.D

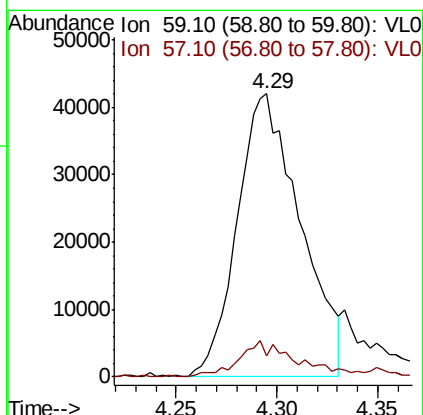
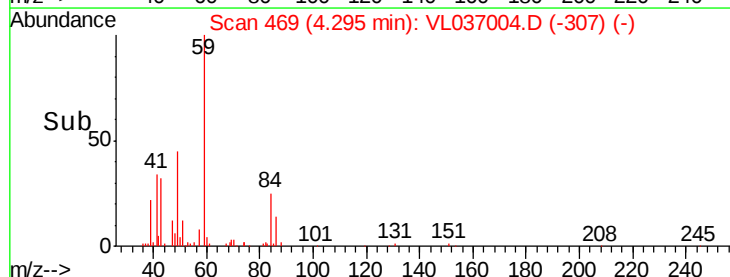
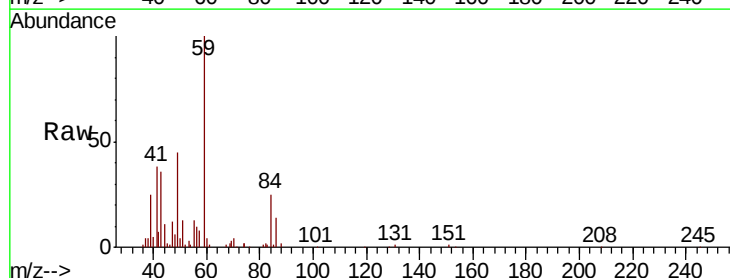
Acq: 19 May 2021 23:10

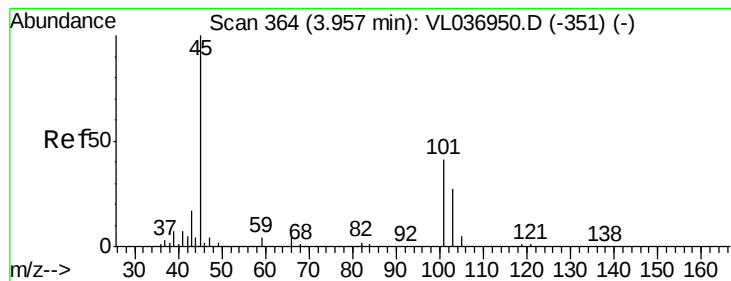
Tgt Ion: 59 Resp: 91858

Ion Ratio Lower Upper

59 100

57 13.3 8.3 12.5#





#19

Isopropyl Alcohol

Concen: 1.974 ppbv

RT: 3.96 min Scan# 366

Delta R.T. 0.01 min

Lab File: VL037004.D

Acq: 19 May 2021 23:10

Instrument :

MSVOA\_L

ClientSampled :

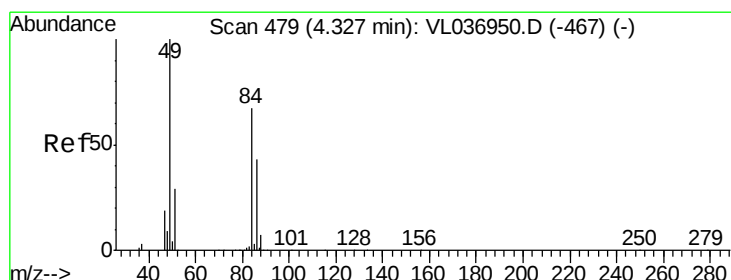
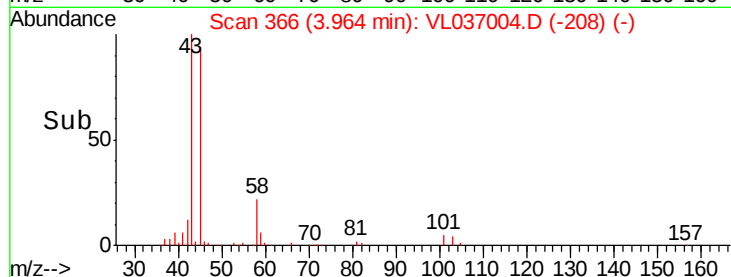
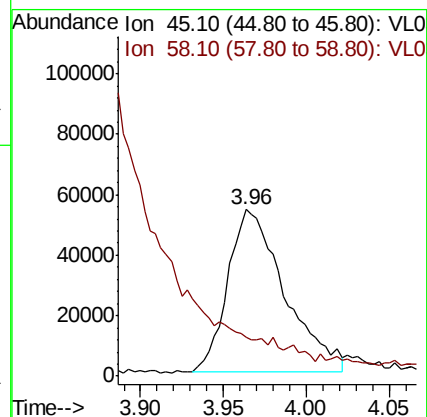
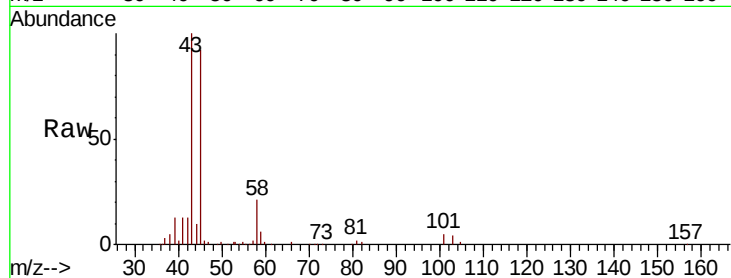
KSV-06

Tot Ion: 45 Resp: 129222

Ion Ratio Lower Upper

45 100

58 0.0 37.2 55.8#



#20

Methylene Chloride

Concen: 32.428 ppbv

RT: 4.32 min Scan# 478

Delta R.T. -0.00 min

Lab File: VL037004.D

Acq: 19 May 2021 23:10

Tgt Ion: 84 Resp: 2116861

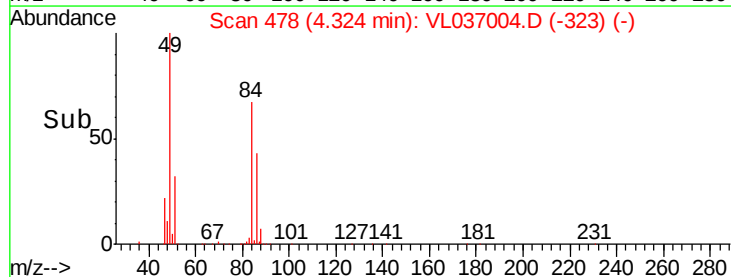
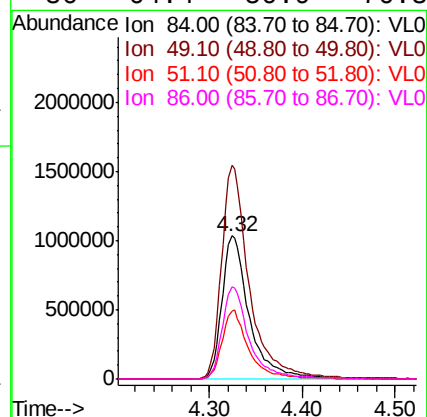
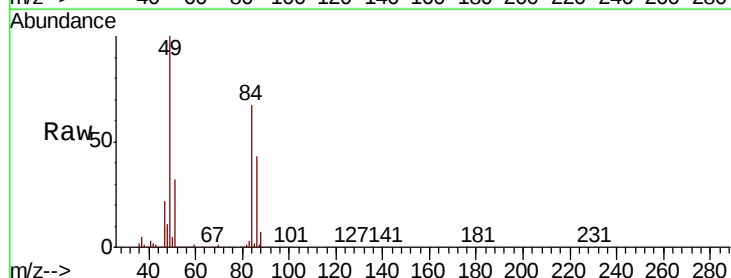
Ion Ratio Lower Upper

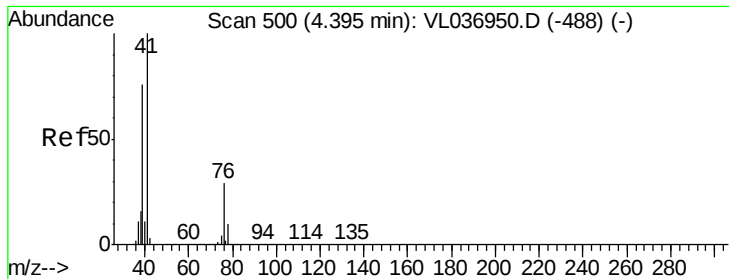
84 100

49 149.6 119.8 179.6

51 47.0 35.1 52.7

86 64.4 50.9 76.3





#21

Allvl Chloride

Concen: 0.044 ppbv

RT: 4.37 min Scan# 491

Delta R.T. -0.03 min

Lab File: VL037004.D

Acq: 19 May 2021 23:10

Instrument :

MSVOA\_L

ClientSampleId :

KSV-06

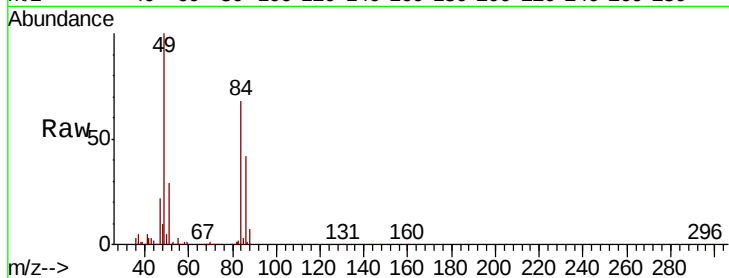
Tot Ion: 41 Resp: 4050

Ion Ratio Lower Upper

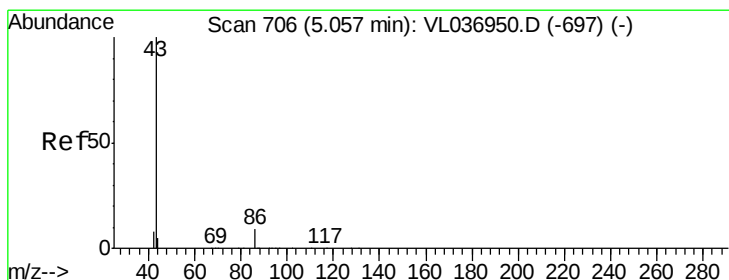
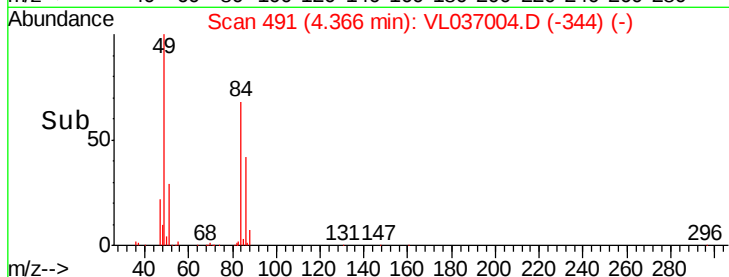
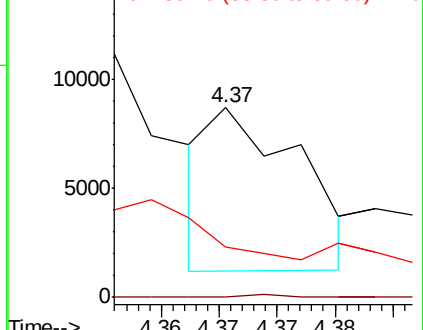
41 100

76 0.0 24.9 37.3#

39 0.0 63.7 95.5#



Abundance Ion 41.10 (40.80 to 41.80): VL0  
Ion 76.10 (75.80 to 76.80): VL0  
Ion 39.10 (38.80 to 39.80): VL0



#23

Vinyl Acetate

Concen: 0.202 ppbv

RT: 5.04 min Scan# 702

Delta R.T. -0.01 min

Lab File: VL037004.D

Acq: 19 May 2021 23:10

Tgt Ion: 43 Resp: 39112

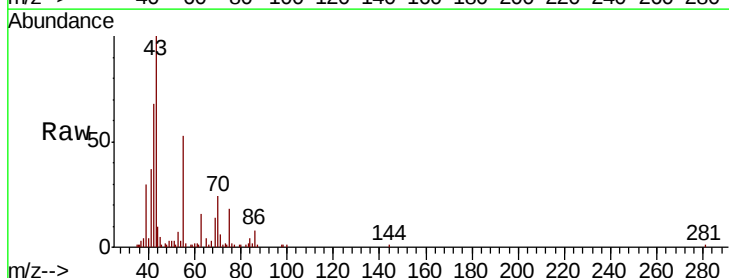
Ion Ratio Lower Upper

43 100

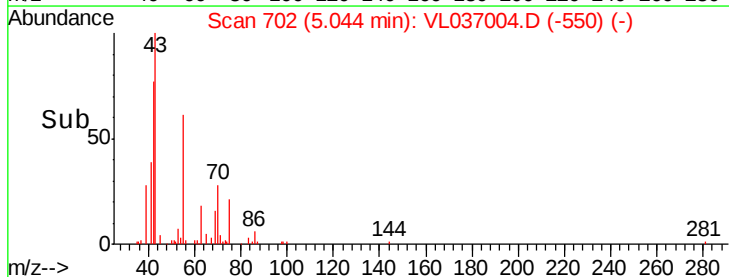
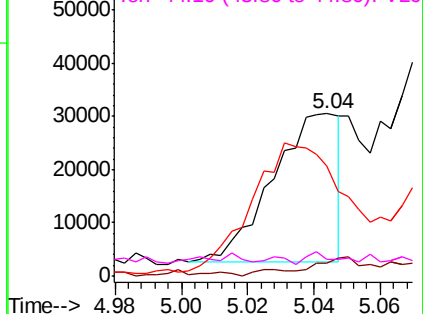
86 7.3 5.8 8.8

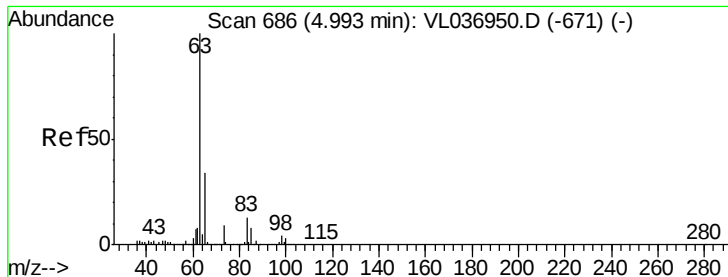
42 70.8 7.4 11.2#

44 0.0 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





#24

1,1-Dichloroethane

Concen: 0.859 ppbv

RT: 4.99 min Scan# 686

Delta R.T. 0.00 min

Lab File: VL037004.D

Acq: 19 May 2021 23:10

Instrument :

MSVOA\_L

ClientSampleId :

KSV-06

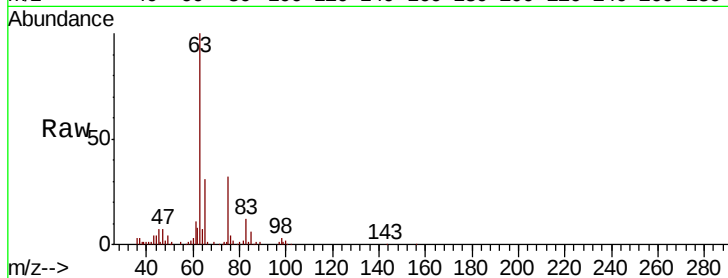
Tot Ion: 63 Resp: 119551

Ion Ratio Lower Upper

63 100

98 3.3 2.3 6.9

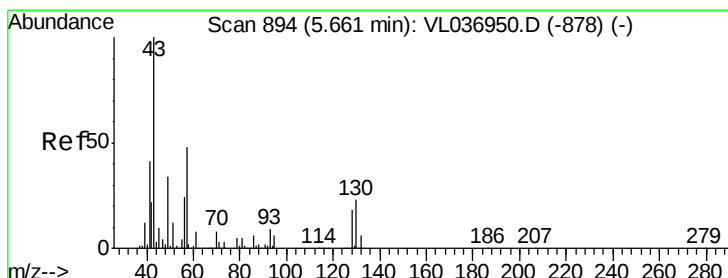
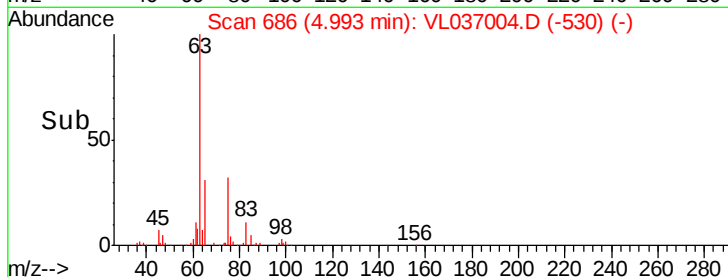
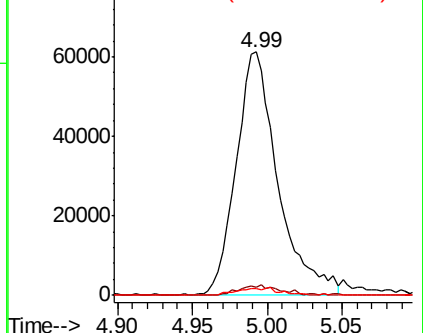
100 2.6 1.4 4.0



Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0



#25

Ethyl Acetate

Concen: 5.333 ppbv

RT: 5.66 min Scan# 894

Delta R.T. 0.00 min

Lab File: VL037004.D

Acq: 19 May 2021 23:10

Tgt Ion: 43 Resp: 1560522

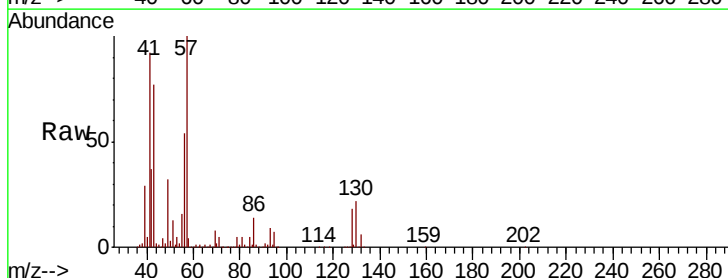
Ion Ratio Lower Upper

43 100

45 1.6 7.8 11.8#

61 1.5 7.8 11.8#

70 3.3 5.6 8.4#

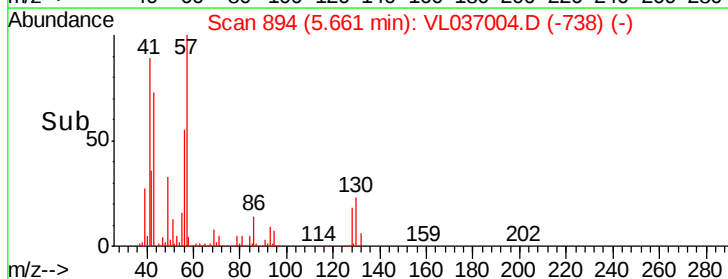
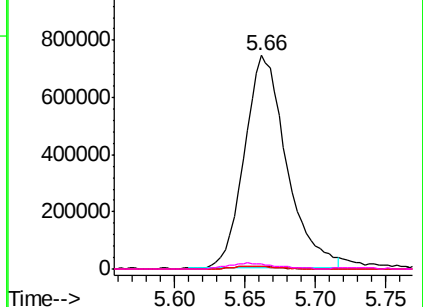


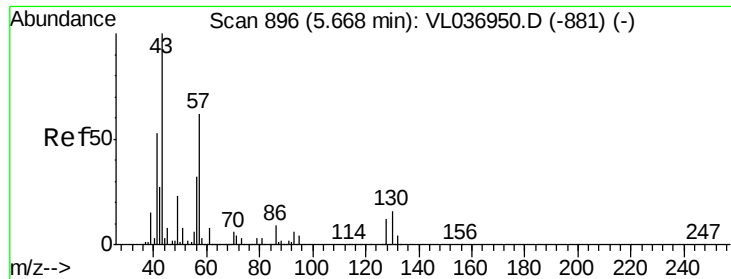
Abundance Ion 43.10 (42.80 to 43.80): VL0

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



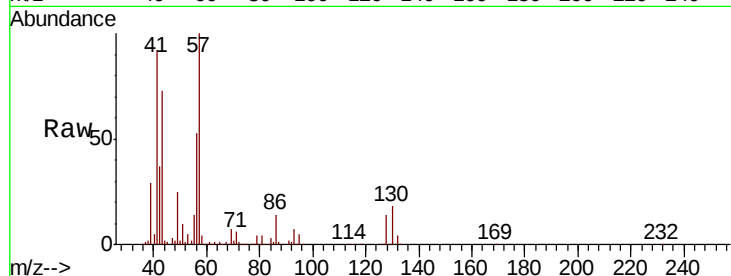


#26  
Hexane  
Concen: 13.811 ppbv  
RT: 5.66 min Scan# 895  
Delta R.T. -0.00 min  
Lab File: VL037004.D  
Acq: 19 May 2021 23:10

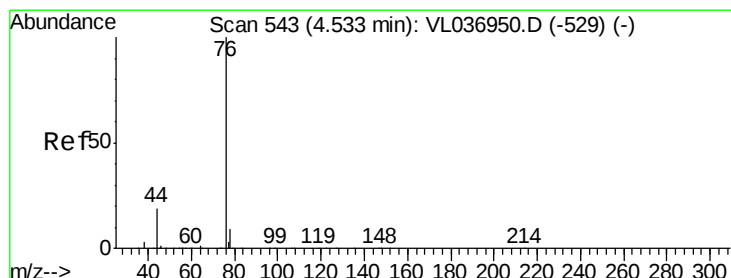
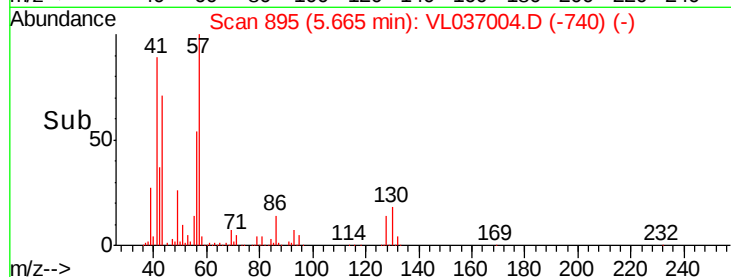
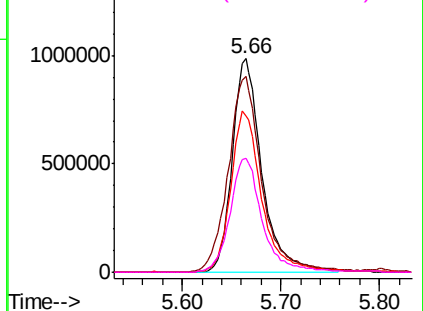
Instrument :  
MSVOA\_L  
ClientSampleId :  
KSV-06

Tot Ion: 57 Resp: 2064580

| Ion | Ratio | Lower | Upper  |
|-----|-------|-------|--------|
| 57  | 100   |       |        |
| 41  | 104.5 | 70.5  | 105.7  |
| 43  | 79.0  | 165.8 | 248.8# |
| 56  | 58.6  | 42.2  | 63.4   |



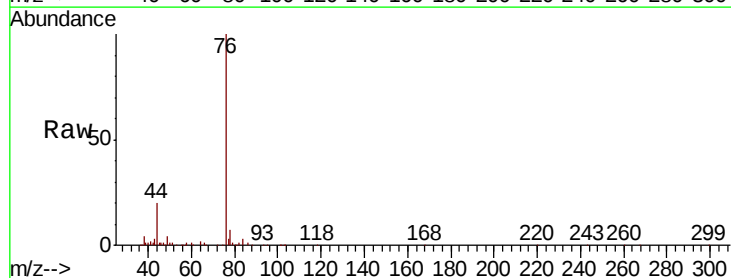
Abundance Ion 57.10 (56.80 to 57.80): VL0  
Ion 41.10 (40.80 to 41.80): VL0  
Ion 43.10 (42.80 to 43.80): VL0  
Ion 56.10 (55.80 to 56.80): VL0



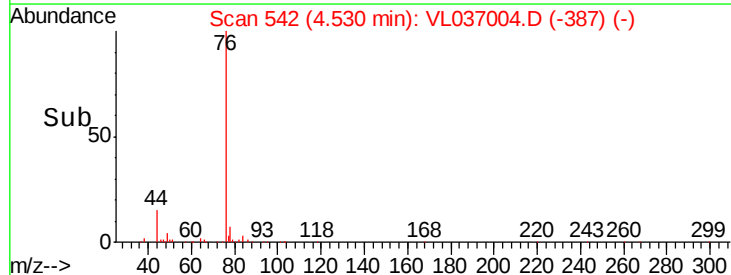
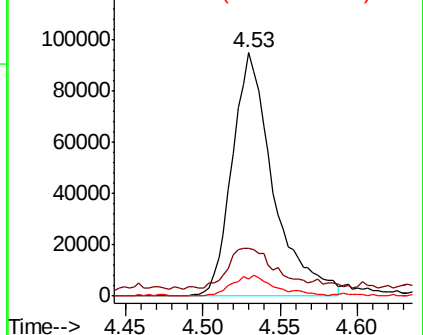
#27  
Carbon Disulfide  
Concen: 1.156 ppbv  
RT: 4.53 min Scan# 542  
Delta R.T. -0.00 min  
Lab File: VL037004.D  
Acq: 19 May 2021 23:10

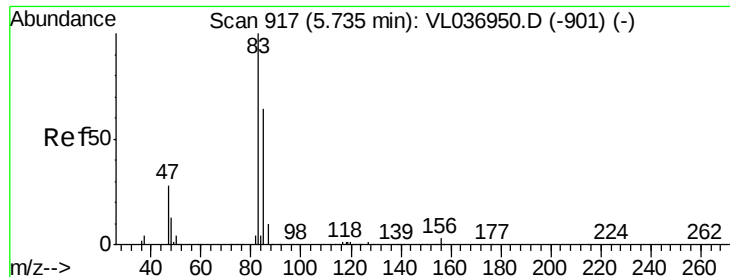
Tgt Ion: 76 Resp: 174095

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 76  | 100   |       |       |
| 44  | 20.5  | 15.5  | 23.3  |
| 78  | 9.3   | 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





#29

Chloroform

Concen: 3.271 ppbv

RT: 5.73 min Scan# 916

Delta R.T. -0.00 min

Lab File: VL037004.D

Acq: 19 May 2021 23:10

Instrument :

MSVOA\_L

ClientSampleId :

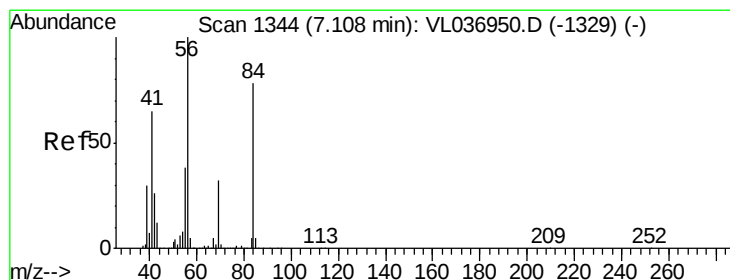
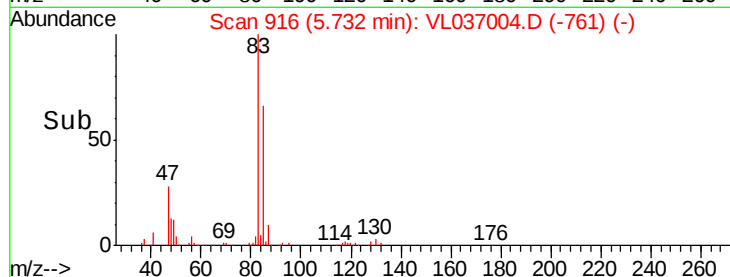
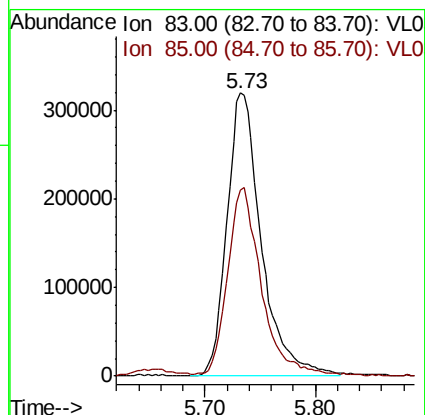
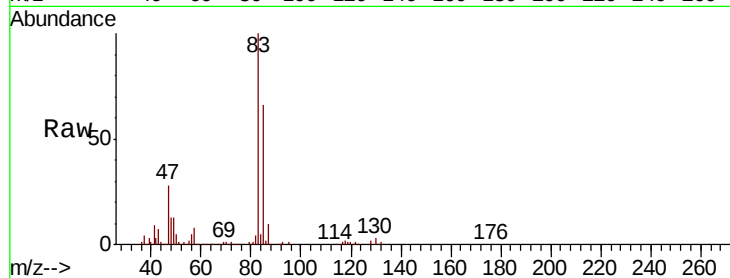
KSV-06

Tot Ion: 83 Resp: 690771

Ion Ratio Lower Upper

83 100

85 65.1 51.1 76.7



#30

Cyclohexane

Concen: 0.216 ppbv

RT: 7.11 min Scan# 1345

Delta R.T. 0.00 min

Lab File: VL037004.D

Acq: 19 May 2021 23:10

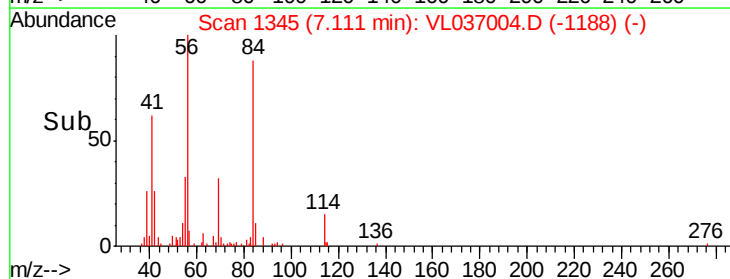
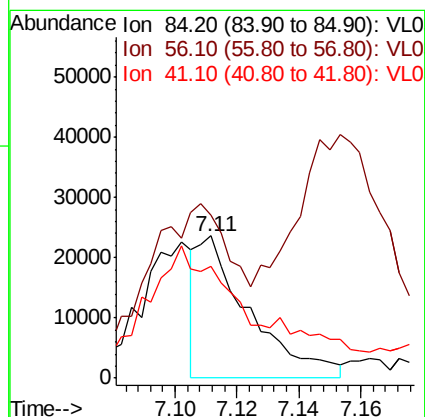
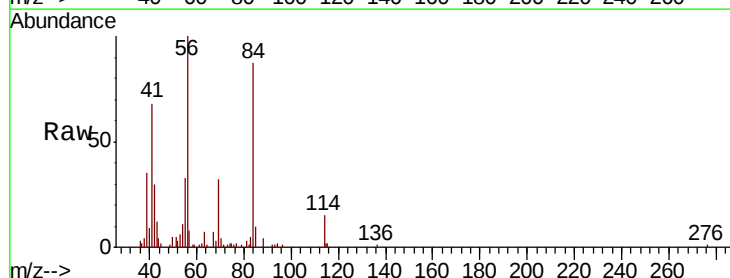
Tgt Ion: 84 Resp: 27383

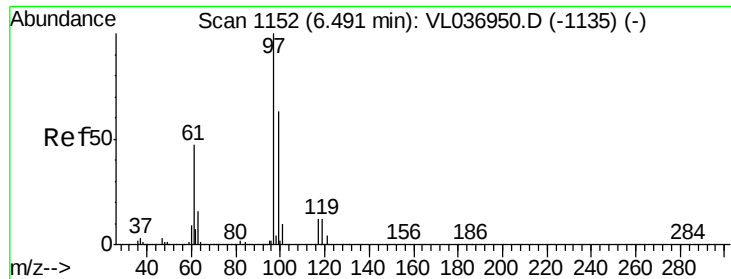
Ion Ratio Lower Upper

84 100

56 227.2 107.9 161.9#

41 0.0 65.5 98.3#





#32

1,1,1-Trichloroethane

Concen: 11.162 ppbv

RT: 6.49 min Scan# 1151

Delta R.T. -0.00 min

Lab File: VL037004.D

Acq: 19 May 2021 23:10

Instrument :

MSVOA\_L

ClientSampleId :

KSV-06

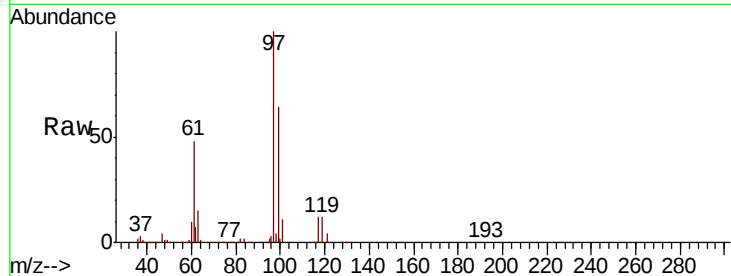
Tot Ion: 97 Resp: 2531448

Ion Ratio Lower Upper

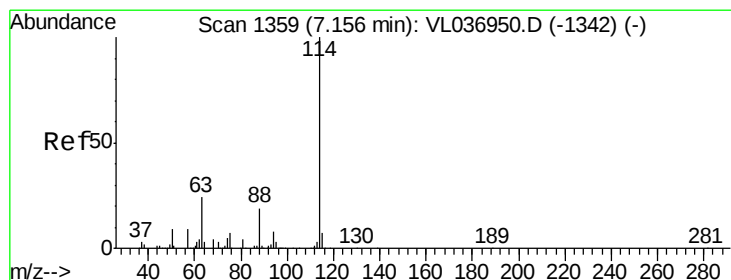
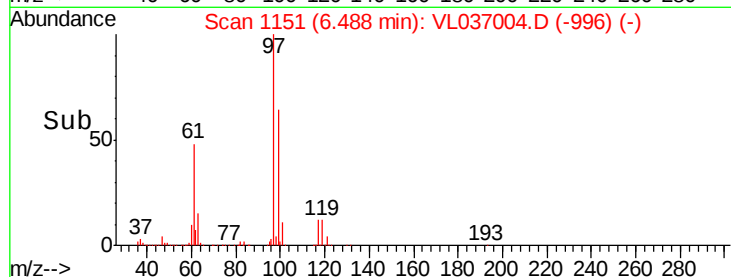
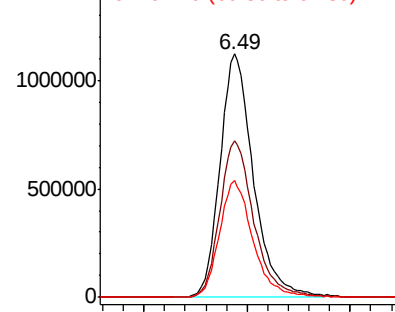
97 100

99 65.6 51.9 77.9

61 48.3 37.6 56.4



Abundance Ion 97.00 (96.70 to 97.70): VL0  
Ion 99.00 (98.70 to 99.70): VL0  
Ion 61.10 (60.80 to 61.80): VL0



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.15 min Scan# 1358

Delta R.T. -0.00 min

Lab File: VL037004.D

Acq: 19 May 2021 23:10

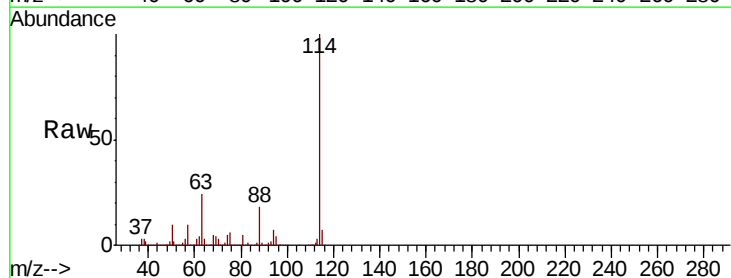
Tgt Ion: 114 Resp: 3559259

Ion Ratio Lower Upper

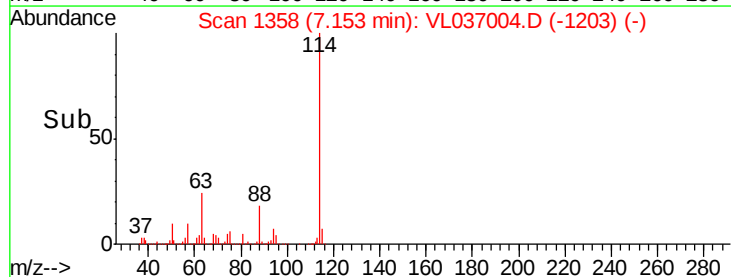
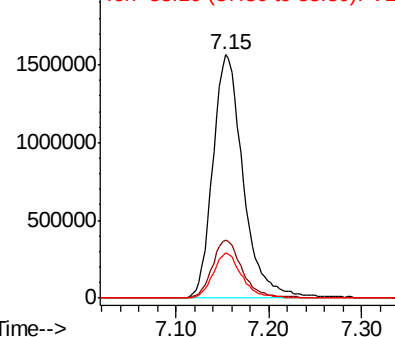
114 100

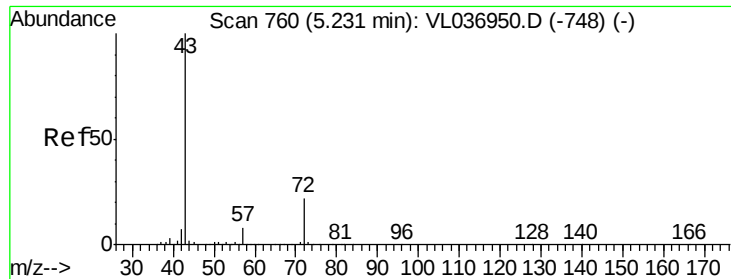
63 23.8 19.6 29.4

88 17.7 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

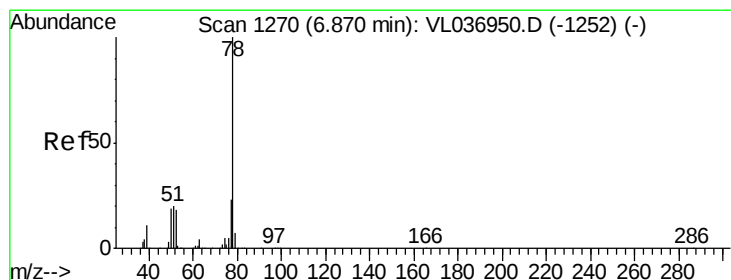
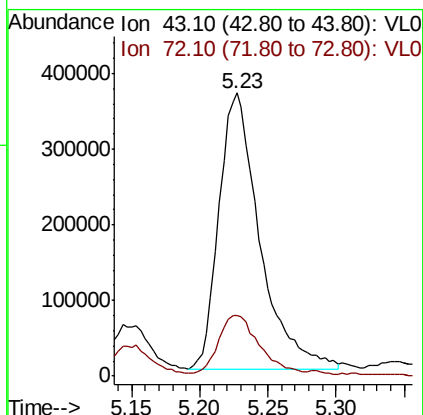
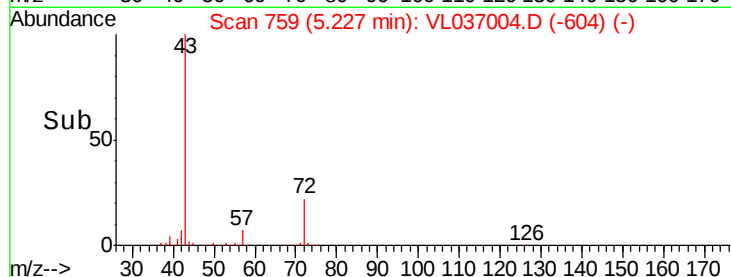
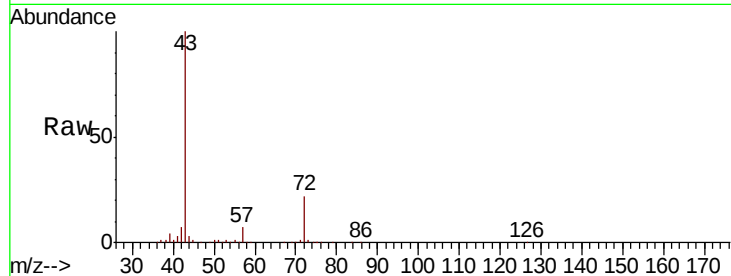




#34  
2-Butanone  
Concen: 5.870 ppbv  
RT: 5.23 min Scan# 759  
Delta R.T. -0.00 min  
Lab File: VL037004.D  
Acq: 19 May 2021 23:10

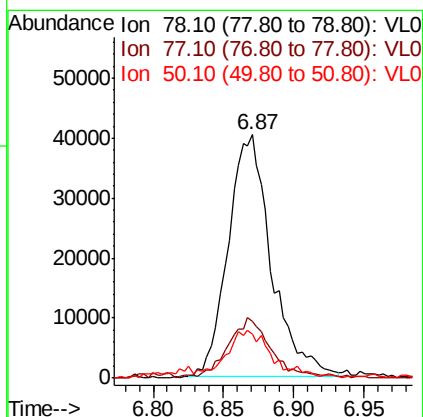
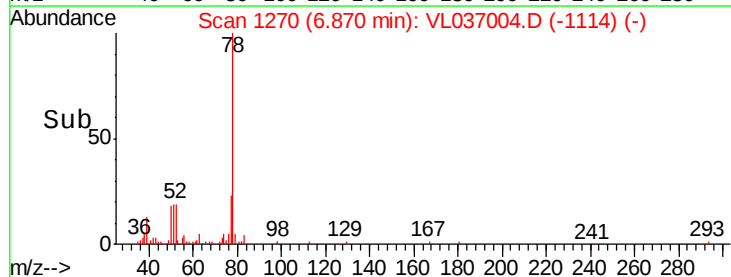
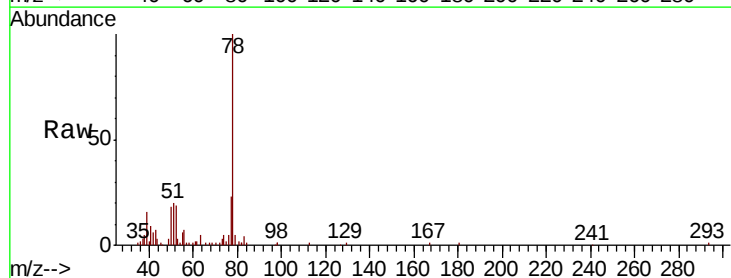
Instrument :  
MSVOA\_L  
ClientSampleId :  
KSV-06

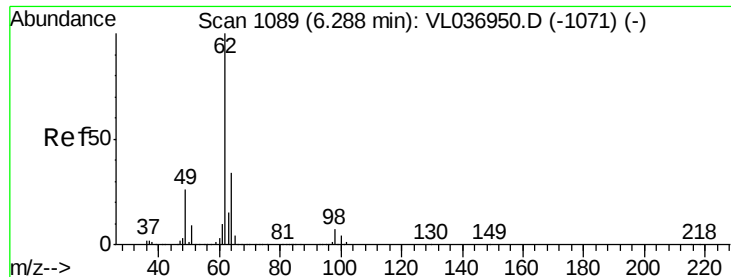
Tot Ion: 43 Resp: 760697  
Ion Ratio Lower Upper  
43 100  
72 24.0 19.0 28.4



#36  
Benzene  
Concen: 0.279 ppbv  
RT: 6.87 min Scan# 1270  
Delta R.T. -0.00 min  
Lab File: VL037004.D  
Acq: 19 May 2021 23:10

Tgt Ion: 78 Resp: 85641  
Ion Ratio Lower Upper  
78 100  
77 22.3 18.6 28.0  
50 15.6 15.0 22.4

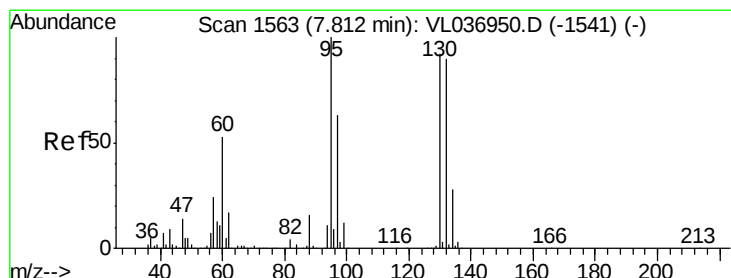
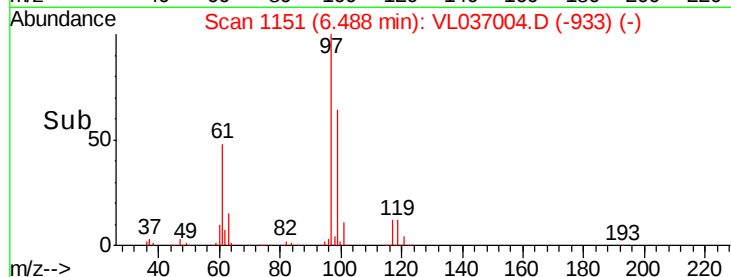
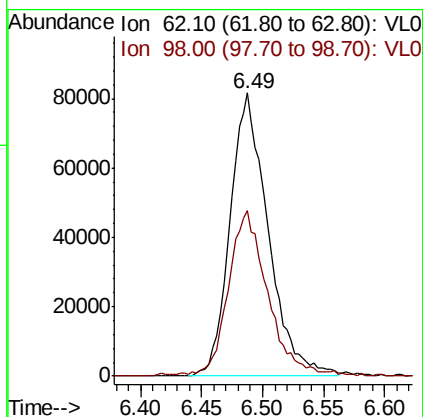
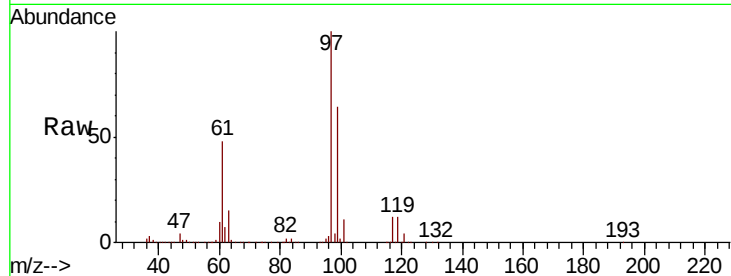




#37  
 1,2-Dichloroethane  
 Concen: 1.161 ppbv  
 RT: 6.49 min Scan# 1151  
 Delta R.T. 0.20 min  
 Lab File: VL037004.D  
 Acq: 19 May 2021 23:10

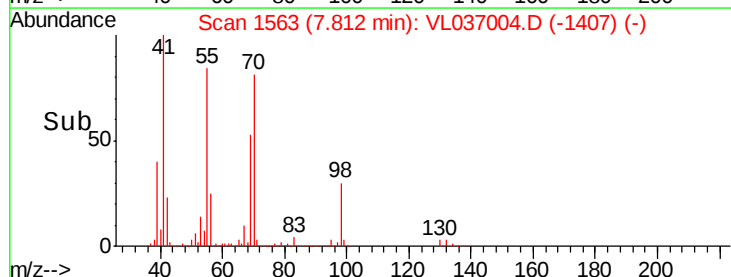
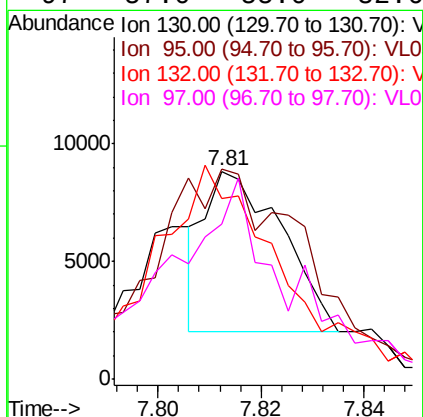
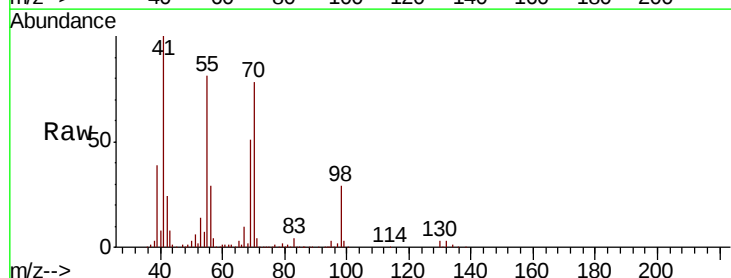
Instrument :  
 MSVOA\_L  
 ClientSampled :  
 KSV-06

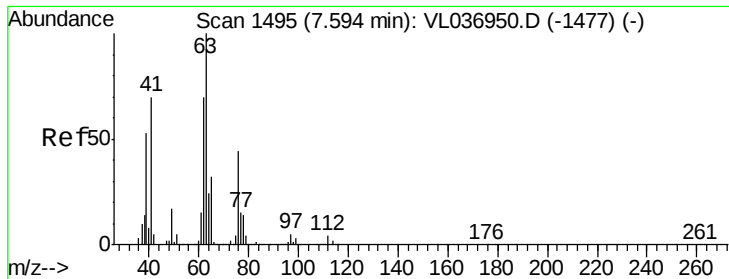
Tot Ion: 62 Resp: 176450  
 Ion Ratio Lower Upper  
 62 100  
 98 61.4 5.5 8.3#



#38  
 Trichloroethene  
 Concen: 0.053 ppbv  
 RT: 7.81 min Scan# 1563  
 Delta R.T. -0.00 min  
 Lab File: VL037004.D  
 Acq: 19 May 2021 23:10

Tgt Ion:130 Resp: 7009  
 Ion Ratio Lower Upper  
 130 100  
 95 79.7 86.9 130.3#  
 132 77.5 78.4 117.6#  
 97 57.0 55.0 82.6





#39

1,2-Dichloropropane

Concen: 6.885 ppbv

RT: 7.15 min Scan# 1358

Delta R.T. -0.44 min

Lab File: VL037004.D

Acq: 19 May 2021 23:10

Instrument :

MSVOA\_L

ClientSampleId :

KSV-06

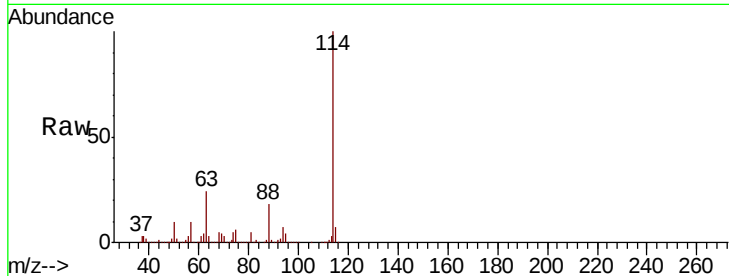
Tot Ion: 63 Resp: 813171

Ion Ratio Lower Upper

63 100

41 0.0 55.7 83.5#

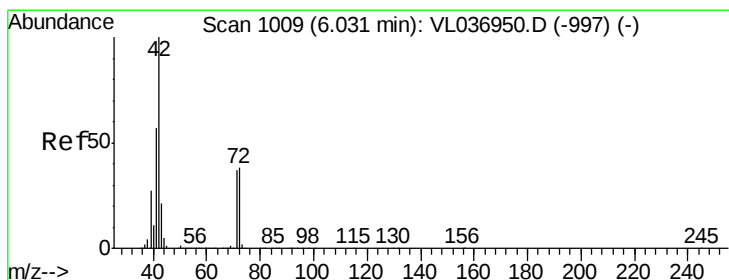
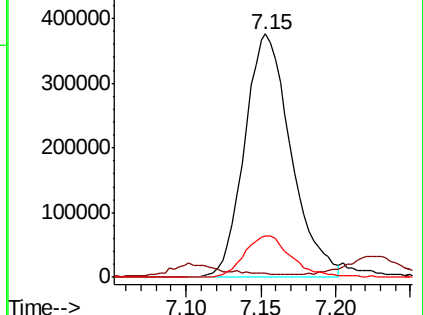
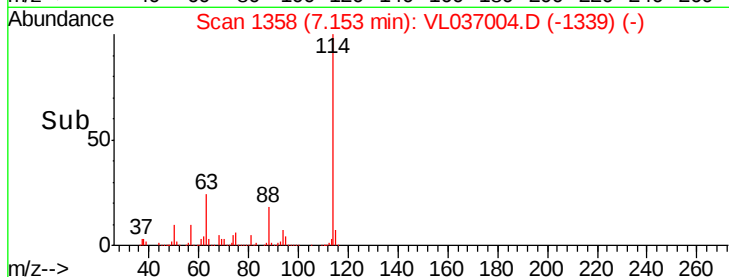
62 16.8 56.2 84.4#



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: 0.159 ppbv

RT: 6.29 min Scan# 1088

Delta R.T. 0.25 min

Lab File: VL037004.D

Acq: 19 May 2021 23:10

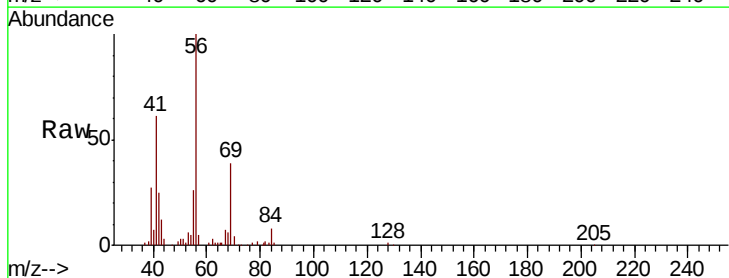
Tgt Ion: 42 Resp: 11717

Ion Ratio Lower Upper

42 100

72 4.7 31.4 47.2#

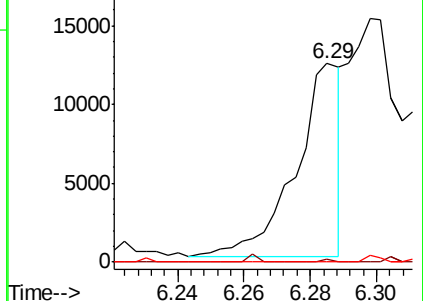
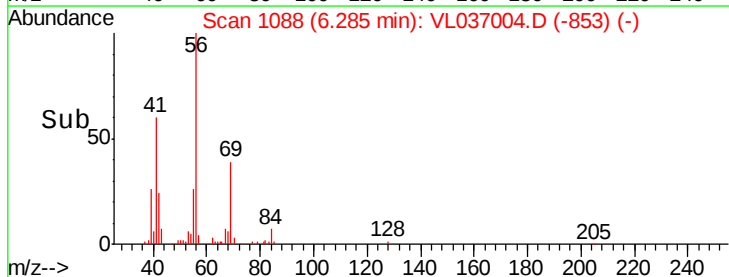
71 0.0 30.4 45.6#

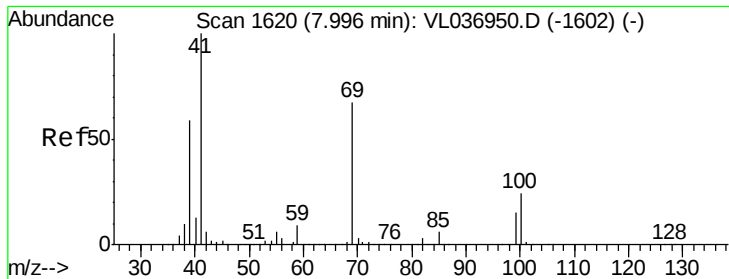


Abundance Ion 42.10 (41.80 to 42.80): VL0

Ion 72.10 (71.80 to 72.80): VL0

Ion 71.10 (70.80 to 71.80): VL0

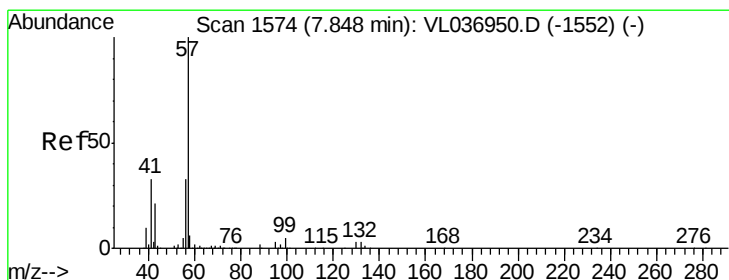
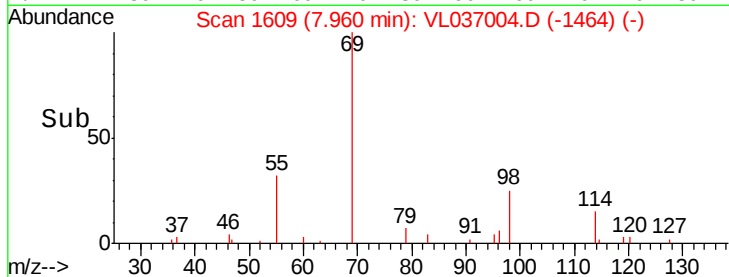
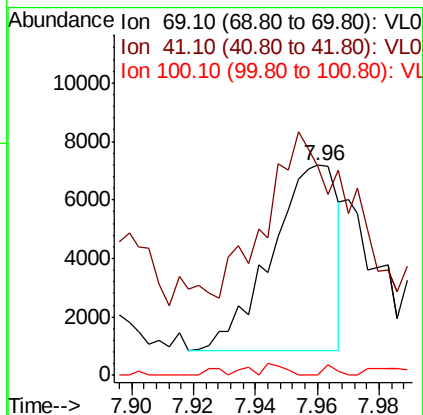
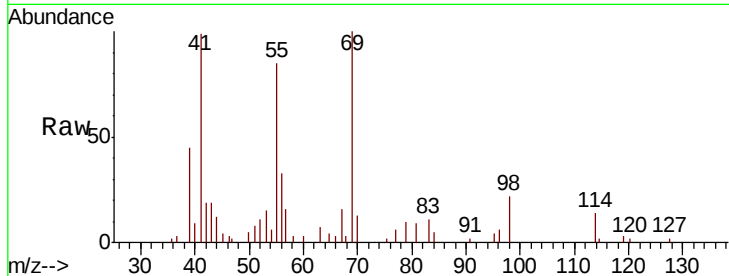




#43  
Methvl Methacrilate  
Concen: 0.088 ppbv  
RT: 7.96 min Scan# 1609  
Delta R.T. -0.04 min  
Lab File: VL037004.D  
Acq: 19 May 2021 23:10

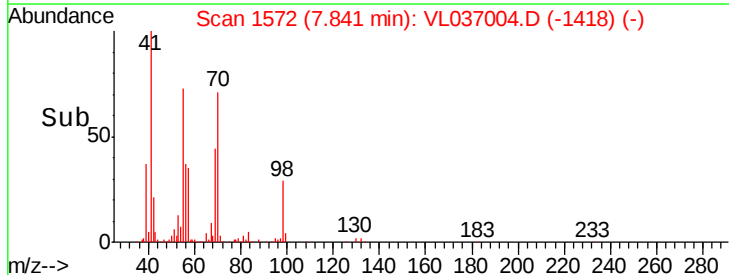
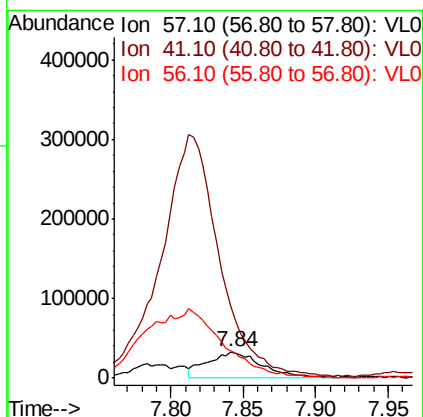
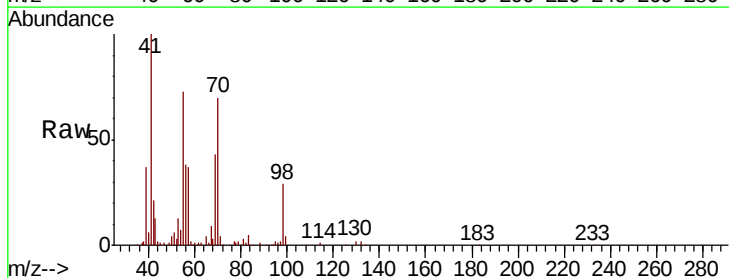
Instrument :  
MSVOA\_L  
ClientSampleId :  
KSV-06

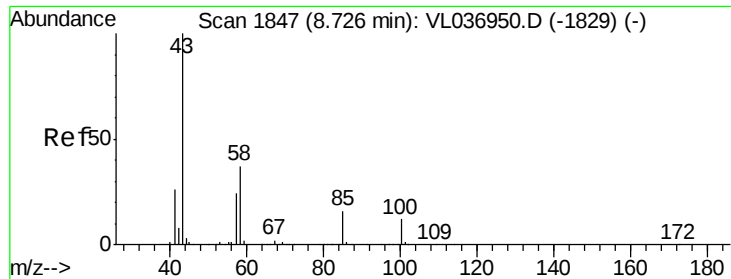
Tot Ion: 69 Resp: 9260  
Ion Ratio Lower Upper  
69 100  
41 0.0 118.6 178.0#  
100 8.3 28.2 42.4#



#44  
2,2,4-Trimethylpentane  
Concen: 0.152 ppbv  
RT: 7.84 min Scan# 1572  
Delta R.T. -0.01 min  
Lab File: VL037004.D  
Acq: 19 May 2021 23:10

Tgt Ion: 57 Resp: 80113  
Ion Ratio Lower Upper  
57 100  
41 0.0 27.0 40.4#  
56 0.0 25.4 38.2#

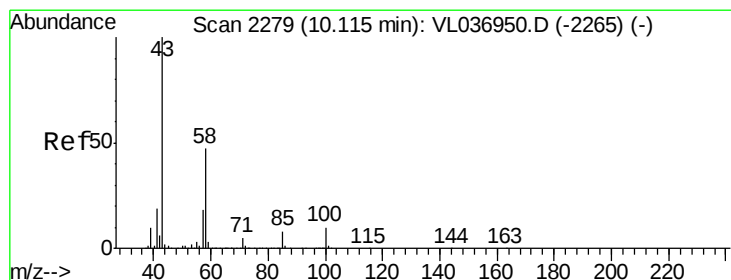
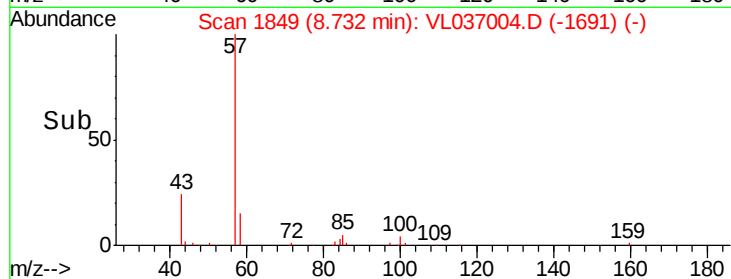
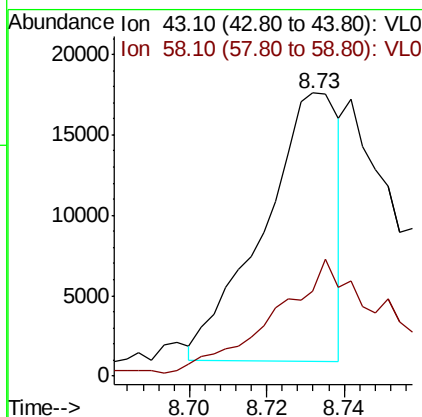
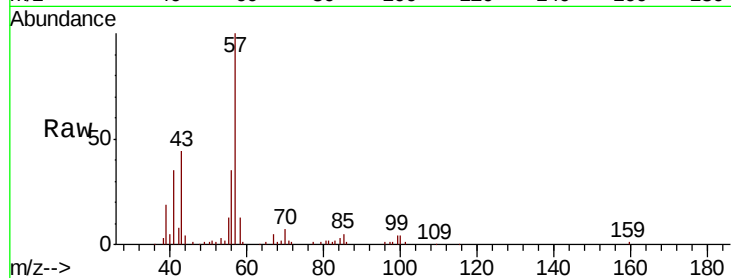




#50  
4-Methyl-2-Pentanone  
Concen: 0.106 ppbv  
RT: 8.73 min Scan# 1849  
Delta R.T. 0.01 min  
Lab File: VL037004.D  
Acq: 19 May 2021 23:10

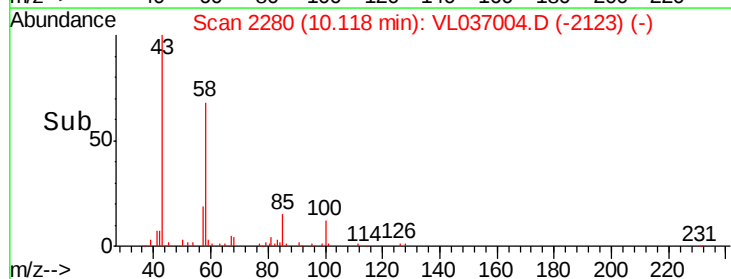
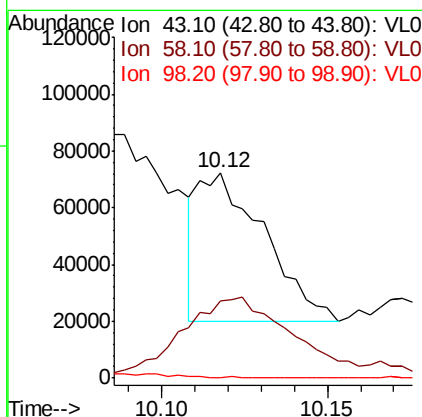
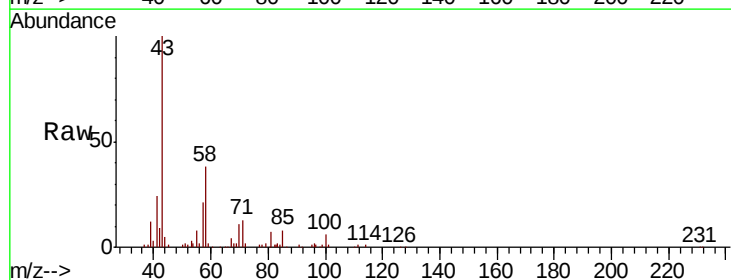
Instrument :  
MSVOA\_L  
ClientSampleId :  
KSV-06

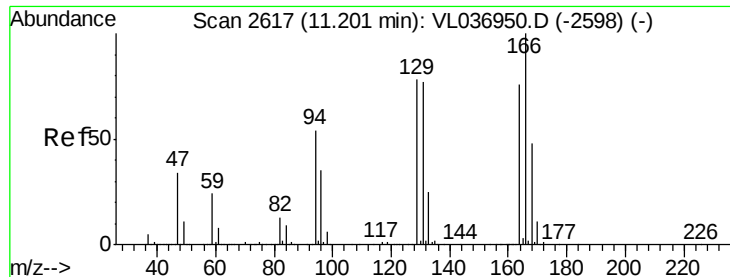
Tot Ion: 43 Resp: 22637  
Ion Ratio Lower Upper  
43 100  
58 69.0 29.4 44.2#



#51  
2-Hexanone  
Concen: 0.645 ppbv  
RT: 10.12 min Scan# 2280  
Delta R.T. 0.00 min  
Lab File: VL037004.D  
Acq: 19 May 2021 23:10

Tgt Ion: 43 Resp: 72921  
Ion Ratio Lower Upper  
43 100  
58 104.0 41.1 61.7#  
98 0.0 0.1 0.1#





#52

Tetrachloroethene

Concen: 0.794 ppbv

RT: 11.19 min Scan# 2615

Delta R.T. -0.01 min

Lab File: VL037004.D

Acq: 19 May 2021 23:10

Instrument :

MSVOA\_L

ClientSampleId :

KSV-06

Tot Ion:164 Resp: 96775

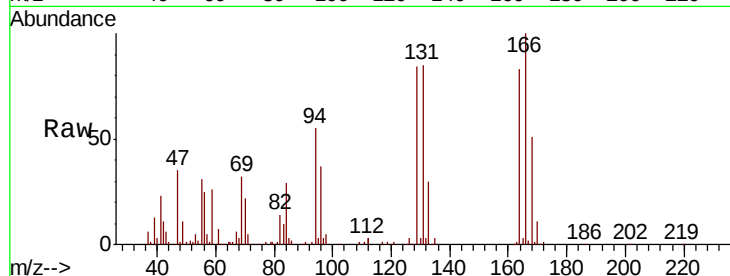
Ion Ratio Lower Upper

164 100

166 121.1 105.5 158.3

129 102.2 81.8 122.8

131 102.8 81.2 121.8

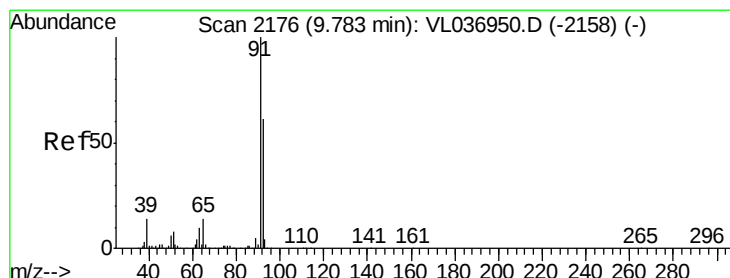
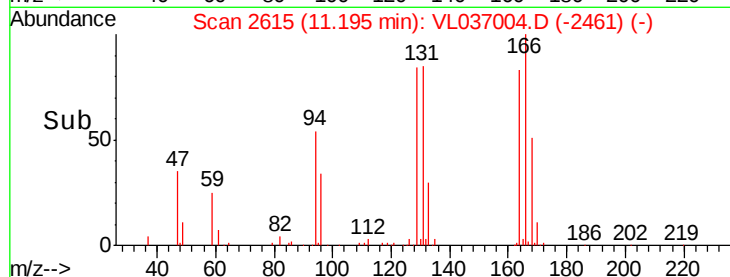
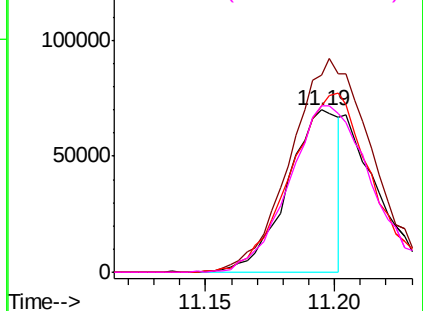


Abundance Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V



#53

Toluene

Concen: 1.154 ppbv

RT: 9.78 min Scan# 2175

Delta R.T. -0.00 min

Lab File: VL037004.D

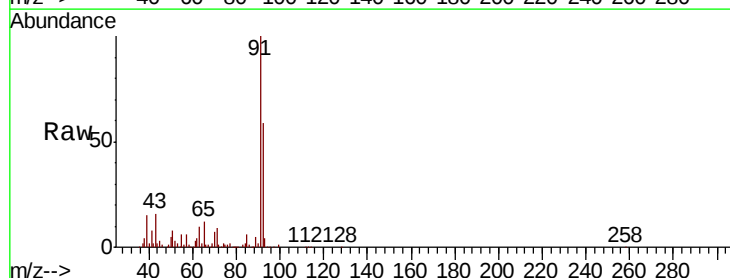
Acq: 19 May 2021 23:10

Tgt Ion: 91 Resp: 421148

Ion Ratio Lower Upper

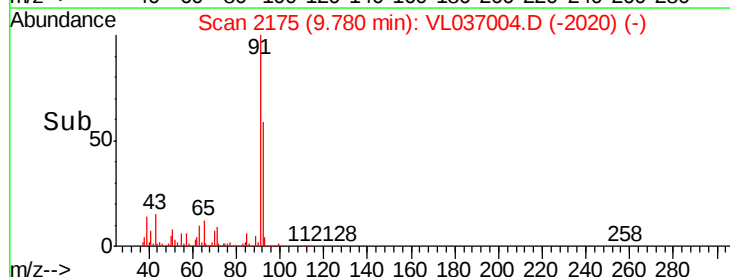
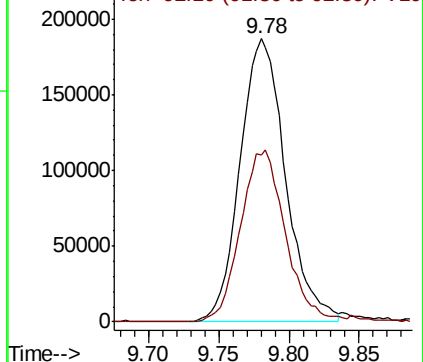
91 100

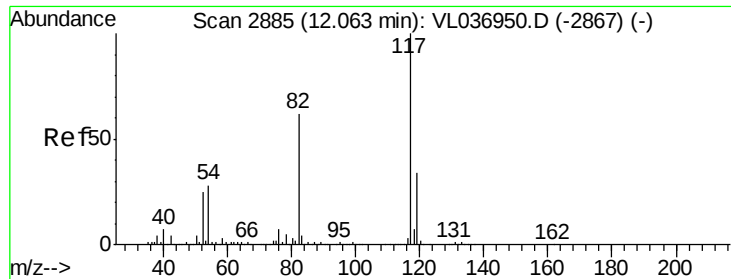
92 61.3 49.5 74.3



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

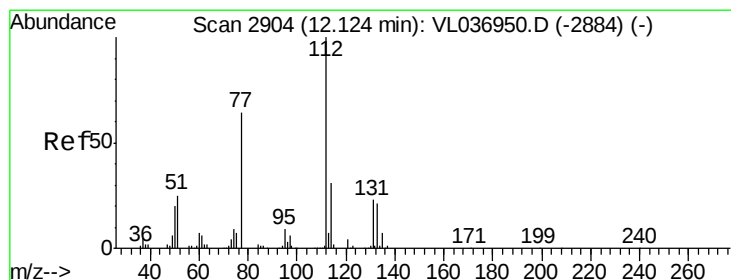
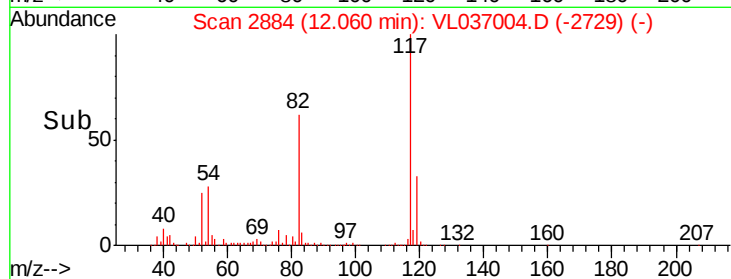
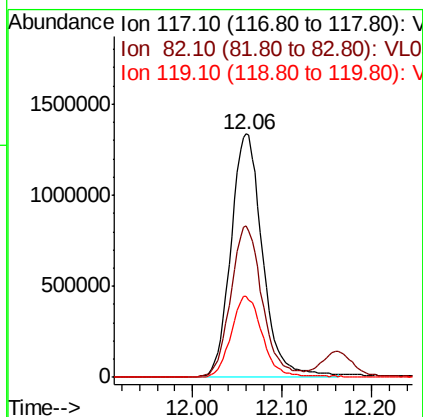
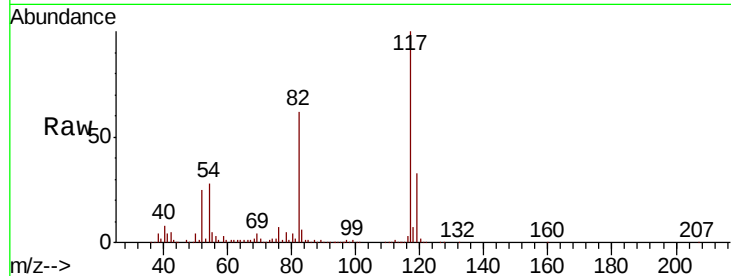




#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 12.06 min Scan# 2884  
Delta R.T. -0.00 min  
Lab File: VL037004.D  
Acq: 19 May 2021 23:10

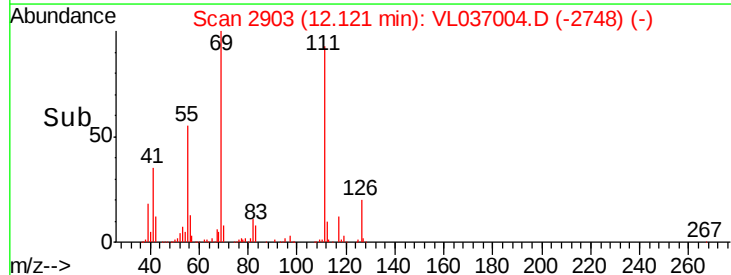
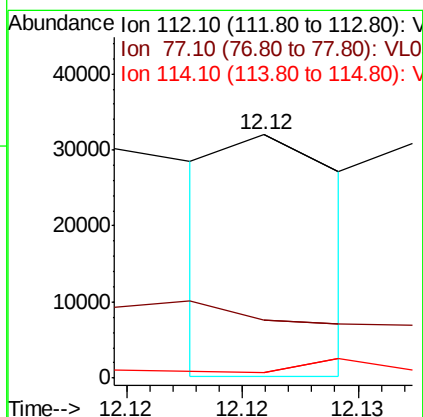
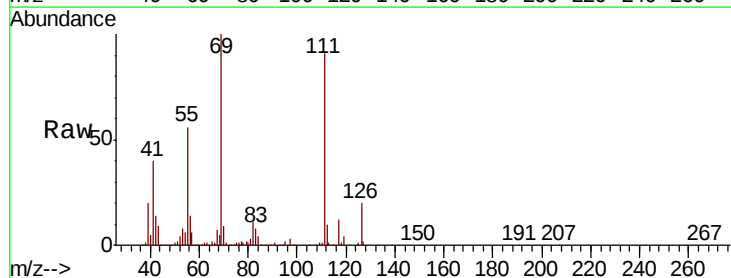
Instrument :  
MSVOA\_L  
ClientSampleId :  
KSV-06

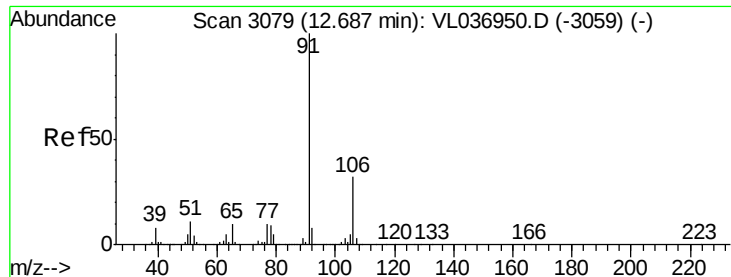
Tot Ion:117 Resp: 3294435  
Ion Ratio Lower Upper  
117 100  
82 61.6 52.6 79.0  
119 33.5 46.6 70.0#



#57  
Chlorobenzene  
Concen: 0.044 ppbv  
RT: 12.12 min Scan# 2903  
Delta R.T. -0.00 min  
Lab File: VL037004.D  
Acq: 19 May 2021 23:10

Tgt Ion:112 Resp: 11329  
Ion Ratio Lower Upper  
112 100  
77 10.9 51.0 76.6#  
114 4.0 28.3 34.5#





#58

Ethyl Benzene

Concen: 0.218 ppbv

RT: 12.69 min Scan# 3079

Delta R.T. -0.00 min

Lab File: VL037004.D

Acq: 19 May 2021 23:10

Instrument :

MSVOA\_L

ClientSampleId :

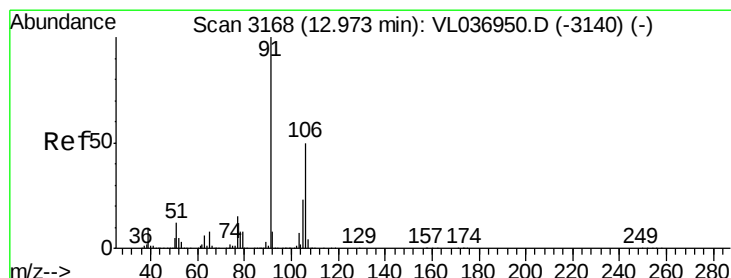
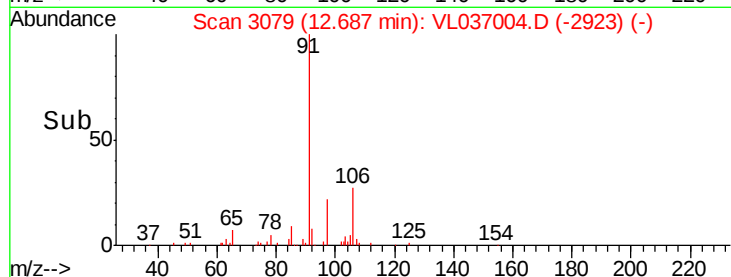
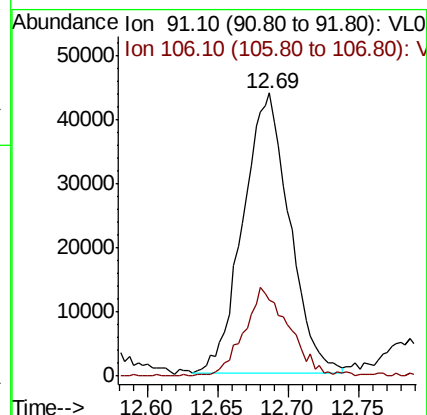
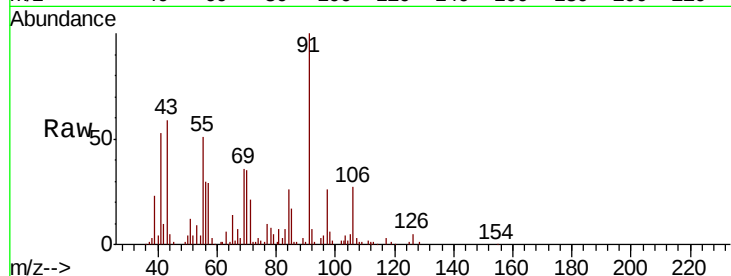
KSV-06

Tot Ion: 91 Resp: 101467

Ion Ratio Lower Upper

91 100

106 27.0 25.6 38.4



#59

m/p-Xylene

Concen: 0.196 ppbv

RT: 12.96 min Scan# 3164

Delta R.T. -0.01 min

Lab File: VL037004.D

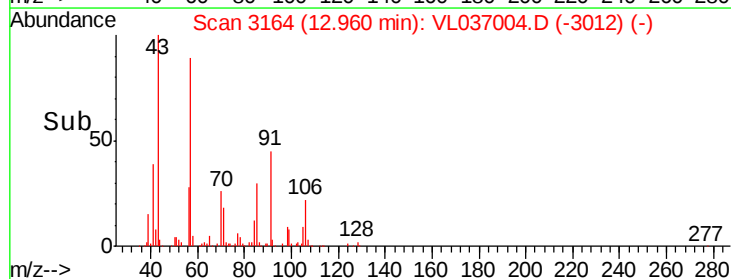
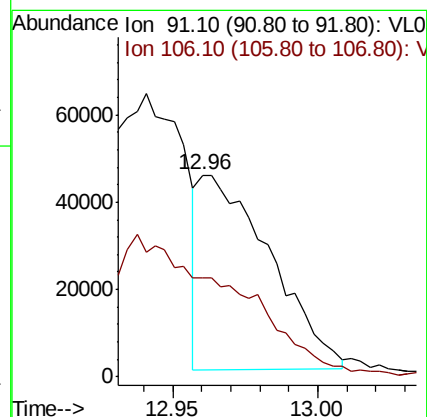
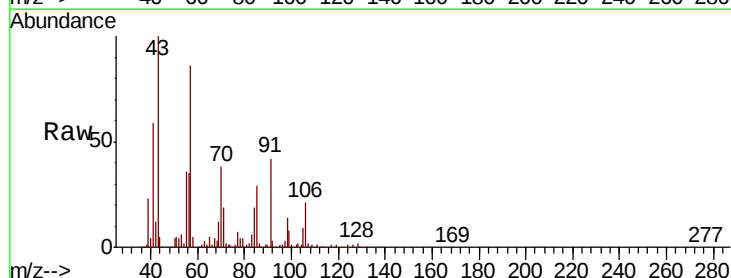
Acq: 19 May 2021 23:10

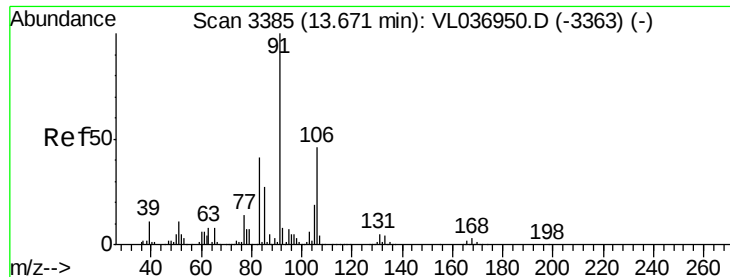
Tgt Ion: 91 Resp: 75318

Ion Ratio Lower Upper

91 100

106 0.0 37.4 56.2#

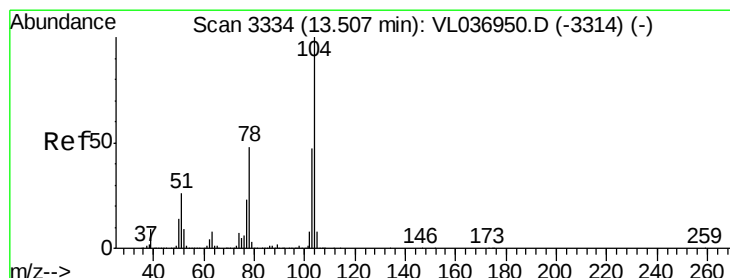
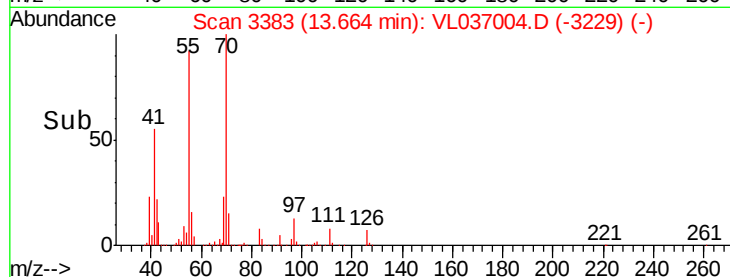
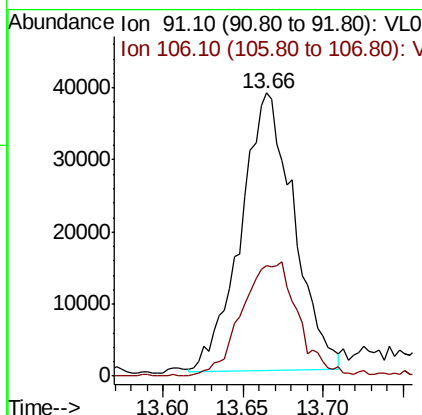
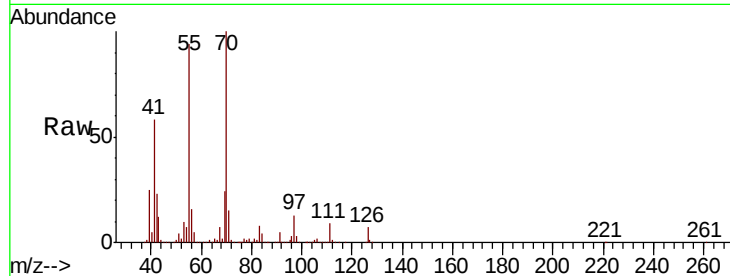




#60  
o-Xylene  
Concen: 0.240 ppbv  
RT: 13.66 min Scan# 3383  
Delta R.T. -0.01 min  
Lab File: VL037004.D  
Acq: 19 May 2021 23:10

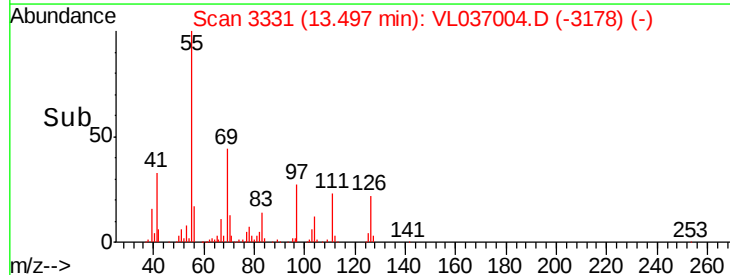
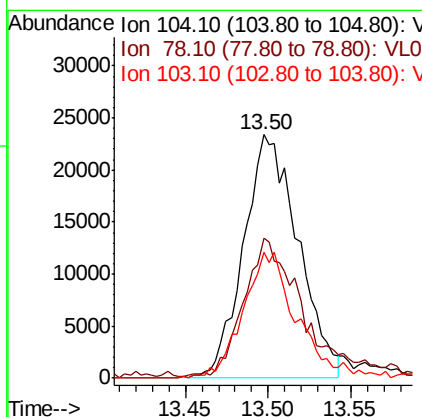
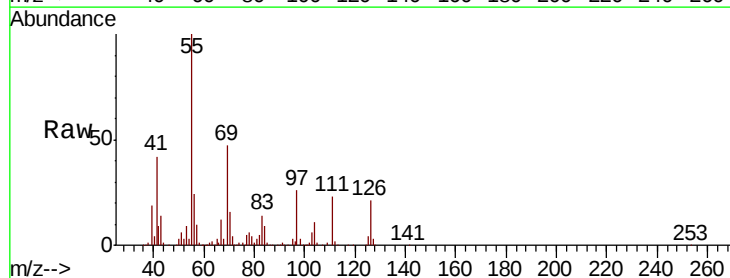
Instrument :  
MSVOA\_L  
ClientSampleId :  
KSV-06

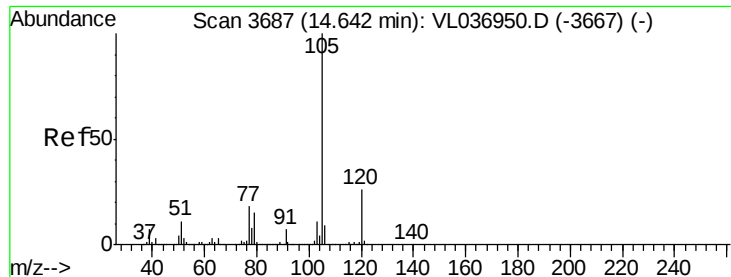
Tot Ion: 91 Resp: 88002  
Ion Ratio Lower Upper  
91 100  
106 44.1 23.4 70.3



#61  
Styrene  
Concen: 0.260 ppbv  
RT: 13.50 min Scan# 3331  
Delta R.T. -0.01 min  
Lab File: VL037004.D  
Acq: 19 May 2021 23:10

Tgt Ion: 104 Resp: 53640  
Ion Ratio Lower Upper  
104 100  
78 61.8 39.0 58.6#  
103 51.8 38.0 57.0





#62

Isopropylbenzene

Concen: 0.038 ppbv

RT: 14.64 min Scan# 3687

Delta R.T. 0.00 min

Lab File: VL037004.D

Acq: 19 May 2021 23:10

Instrument :

MSVOA\_L

ClientSampleId :

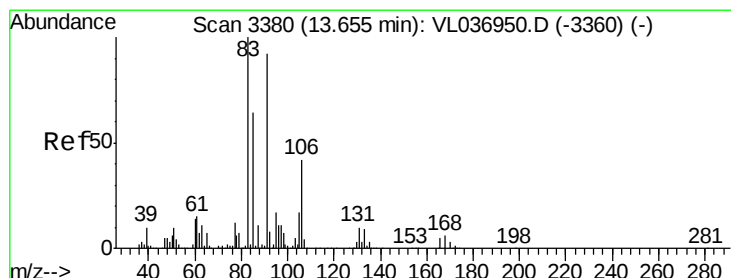
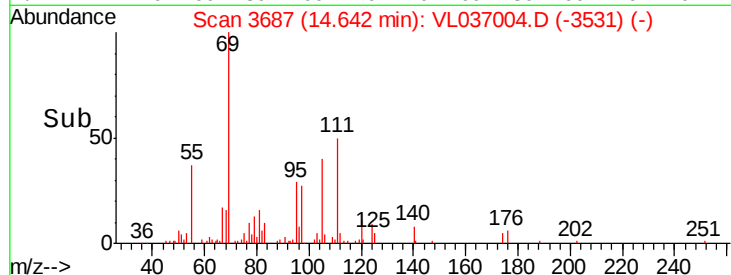
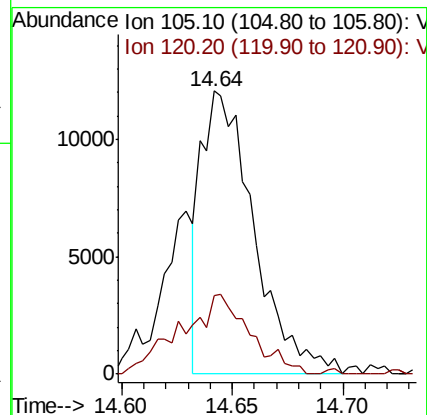
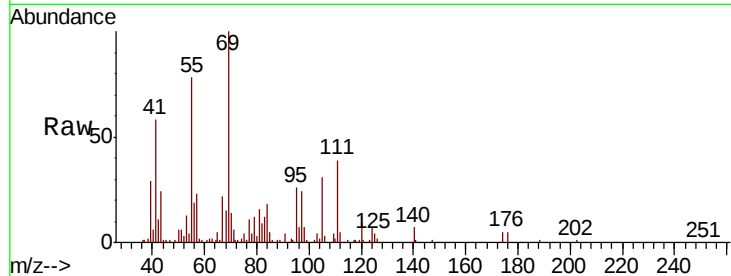
KSV-06

Tot Ion:105 Resp: 19874

Ion Ratio Lower Upper

105 100

120 37.5 21.7 32.5#



#63

1,1,2,2-Tetrachloroethane

Concen: 0.616 ppbv

RT: 13.66 min Scan# 3383

Delta R.T. 0.01 min

Lab File: VL037004.D

Acq: 19 May 2021 23:10

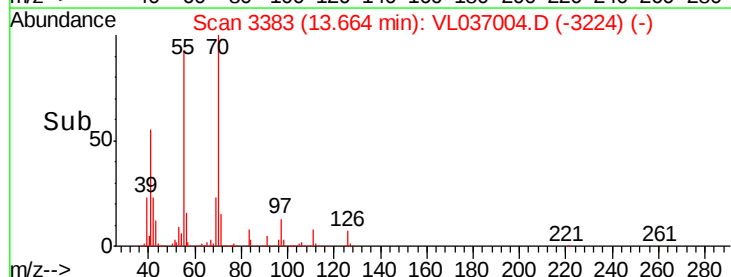
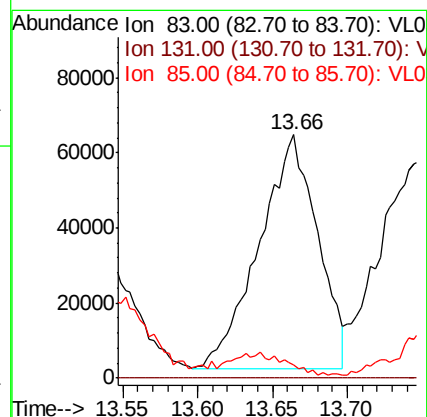
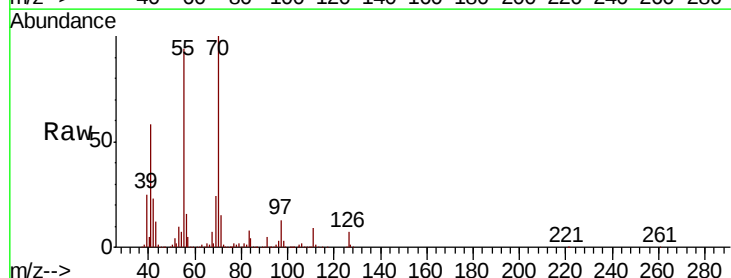
Tgt Ion: 83 Resp: 168539

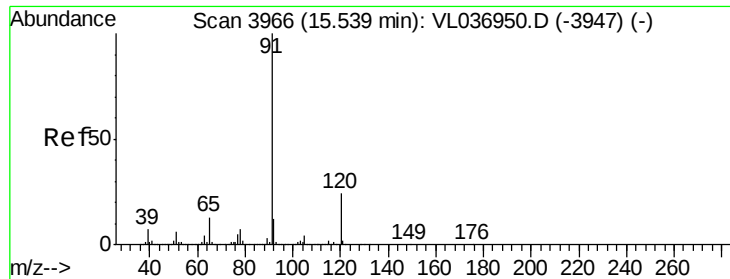
Ion Ratio Lower Upper

83 100

131 0.0 5.0 15.0#

85 9.9 32.9 98.6#

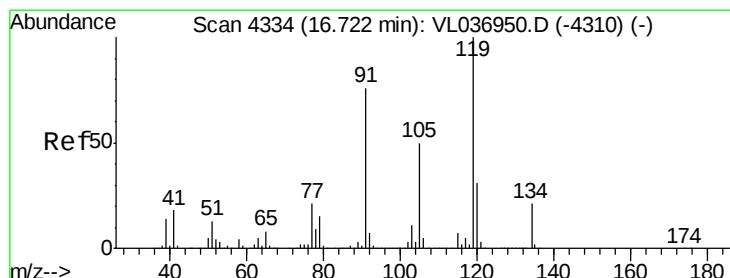
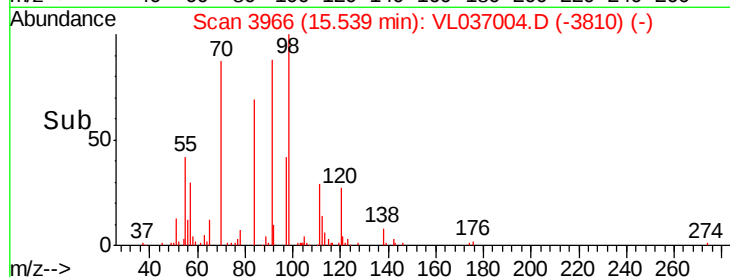
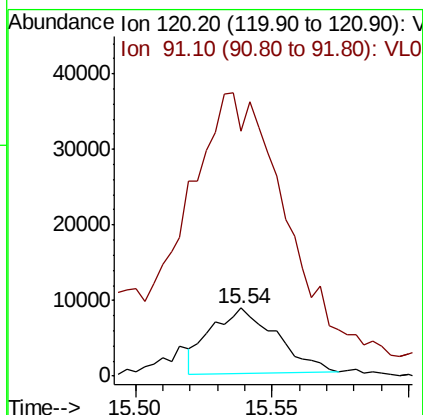
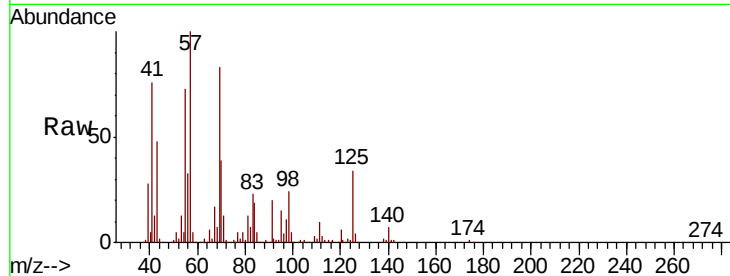




#64  
n-propylbenzene  
Concen: 0.107 ppbv  
RT: 15.54 min Scan# 3966  
Delta R.T. 0.00 min  
Lab File: VL037004.D  
Acq: 19 May 2021 23:10

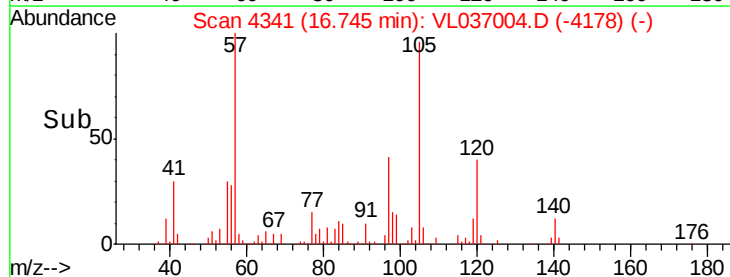
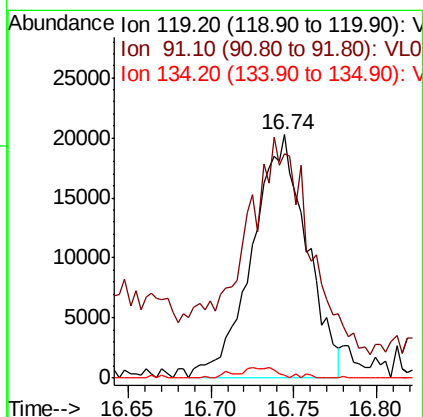
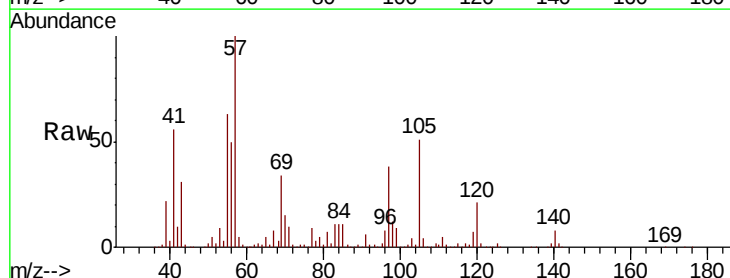
Instrument :  
MSVOA\_L  
ClientSampled :  
KSV-06

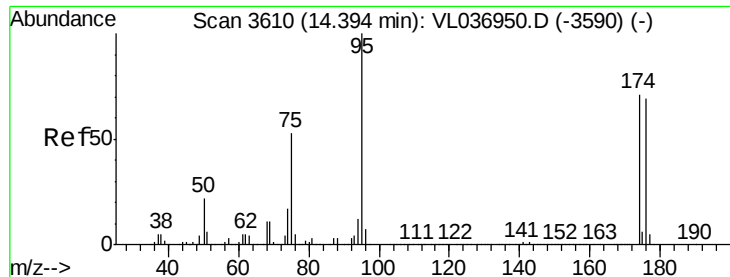
Tot Ion:120 Resp: 14490  
Ion Ratio Lower Upper  
120 100  
91 951.9 343.8 515.6#



#65  
tert-Butylbenzene  
Concen: 0.097 ppbv  
RT: 16.74 min Scan# 4341  
Delta R.T. 0.02 min  
Lab File: VL037004.D  
Acq: 19 May 2021 23:10

Tgt Ion:119 Resp: 46228  
Ion Ratio Lower Upper  
119 100  
91 112.3 61.9 92.9#  
134 3.4 16.2 24.4#

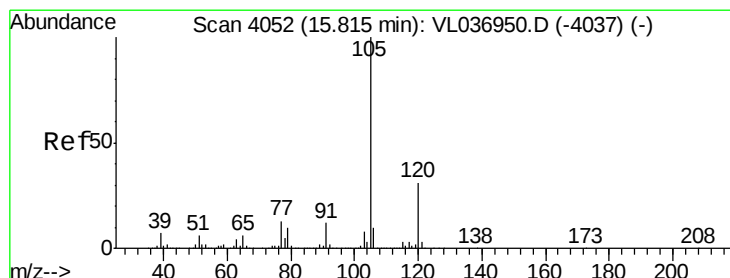
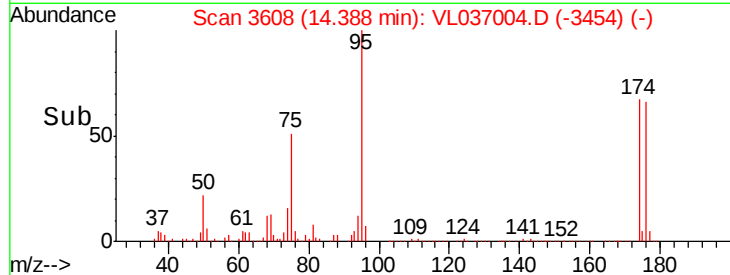
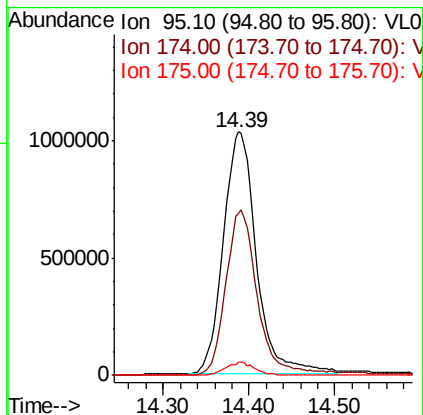
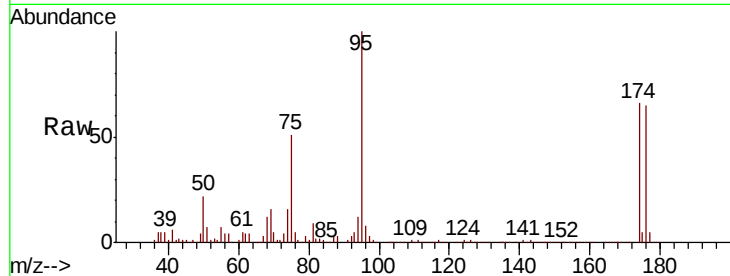




#68  
 1-Bromo-4-Fluorobenzene  
 Concen: 11.164 ppbv  
 RT: 14.39 min Scan# 3608  
 Delta R.T. -0.01 min  
 Lab File: VL037004.D  
 Acq: 19 May 2021 23:10

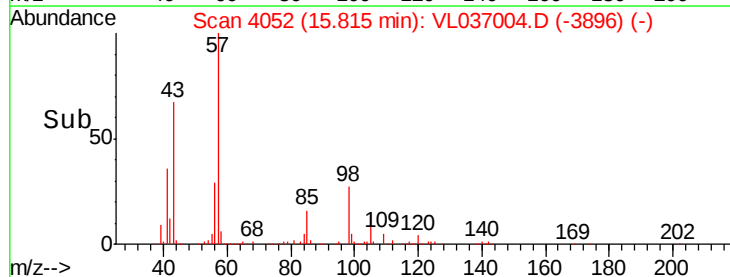
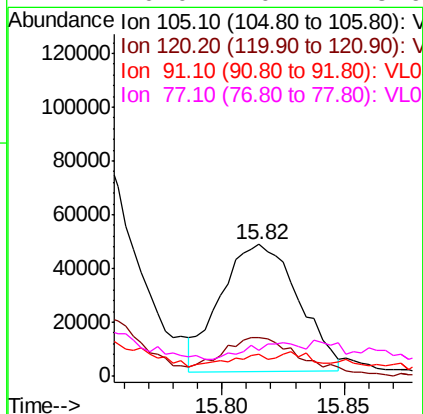
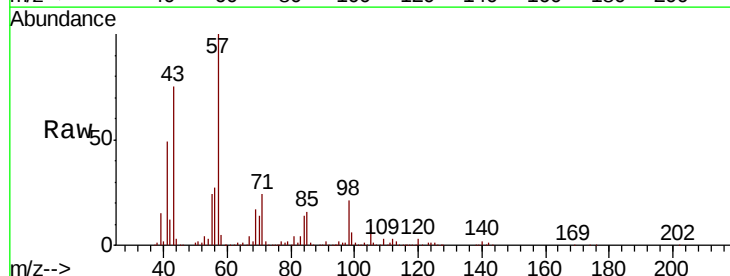
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 KSV-06

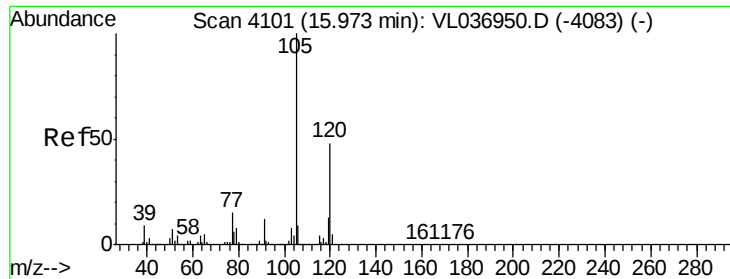
Tot Ion: 95 Resp: 2762919  
 Ion Ratio Lower Upper  
 95 100  
 174 67.5 58.4 87.6  
 175 5.0 4.4 6.6



#72  
 4-Ethyltoluene  
 Concen: 0.240 ppbv  
 RT: 15.82 min Scan# 4052  
 Delta R.T. 0.00 min  
 Lab File: VL037004.D  
 Acq: 19 May 2021 23:10

Tgt Ion: 105 Resp: 104502  
 Ion Ratio Lower Upper  
 105 100  
 120 30.8 24.6 37.0  
 91 0.0 9.8 14.6#  
 77 0.0 10.4 15.6#

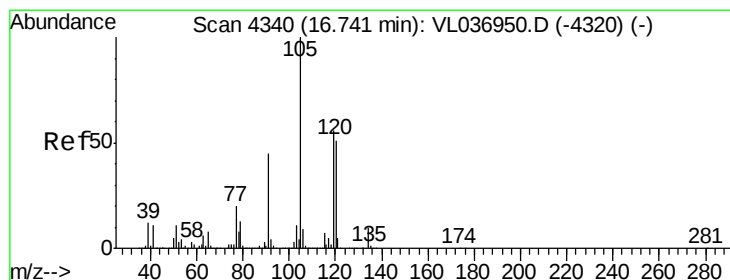
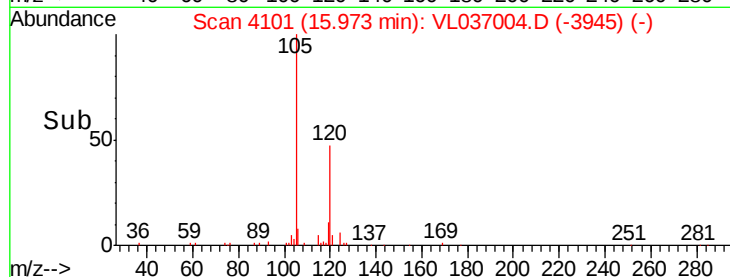
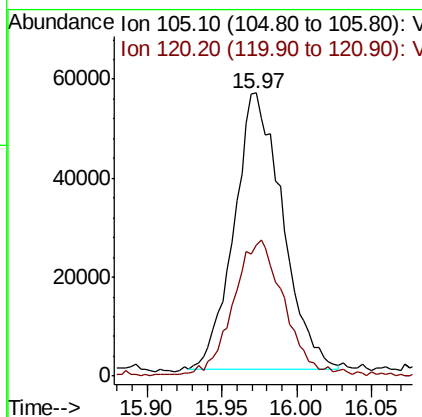
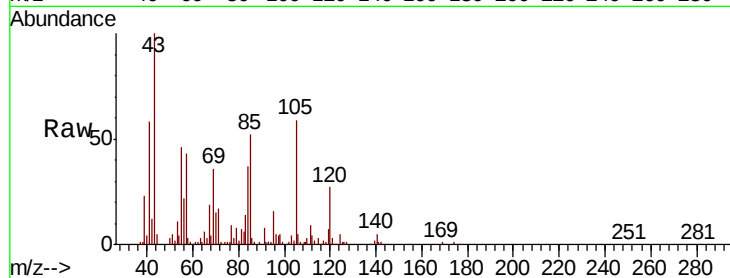




#73  
 1,3,5-Trimethylbenzene  
 Concen: 0.308 ppbv  
 RT: 15.97 min Scan# 4101  
 Delta R.T. 0.00 min  
 Lab File: VL037004.D  
 Acq: 19 May 2021 23:10

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 KSV-06

Tot Ion:105 Resp: 125888  
 Ion Ratio Lower Upper  
 105 100  
 120 46.4 38.6 58.0



#74  
 1,2,4-Trimethylbenzene  
 Concen: 0.856 ppbv  
 RT: 16.74 min Scan# 4341  
 Delta R.T. 0.00 min  
 Lab File: VL037004.D  
 Acq: 19 May 2021 23:10

Tgt Ion:105 Resp: 361679  
 Ion Ratio Lower Upper  
 105 100  
 120 41.8 40.6 61.0  
 91 10.7 37.4 56.0#  
 77 15.5 16.2 24.4#

