

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL052021\
 Data File : VL037025.D
 Acq On : 20 May 2021 15:57
 Operator : SY/AP
 Sample : M2424-06 10X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 KSV-07

Quant Time: May 21 01:16:18 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	5.63	49	1275060	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.14	114	3699211	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.04	117	3212823	10.00	ppbv	-0.02

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1-Bromo-4-Fluorobenzene	14.37	95	2408965	9.98	ppbv	-0.02	
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.80%	

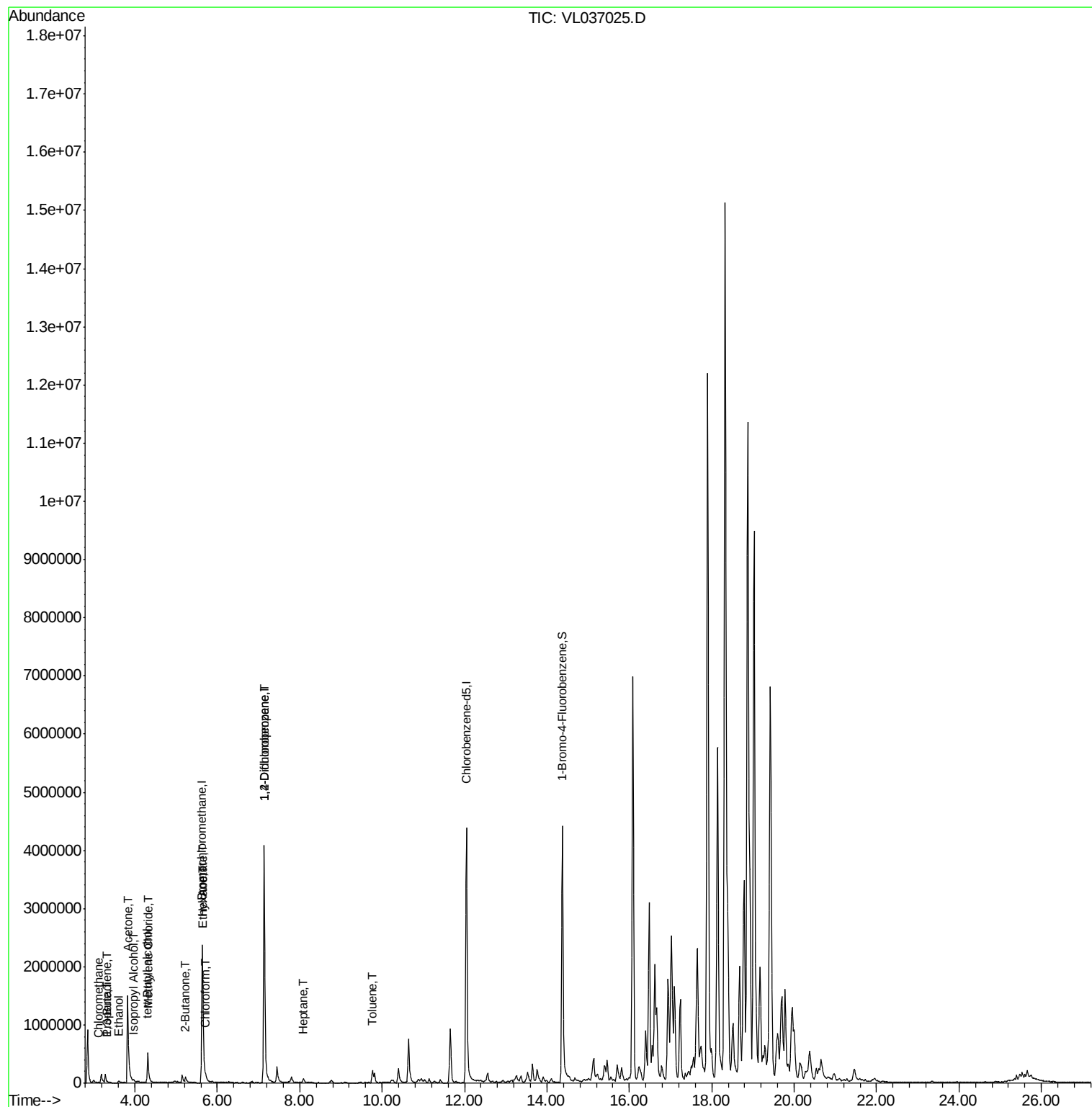
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
4) Chloromethane	3.12	50	4760	0.060	ppbv	98
9) Propene	3.33	41	5459	0.065	ppbv	100
10) Heptane	8.09	43	28592	0.137	ppbv	98
13) Ethanol	3.59	45	17906	1.604	ppbv #	1
15) Acetone	3.82	43	2365262	18.111	ppbv	97
16) 1,3-Butadiene	3.32	39	3677	0.045	ppbv #	10
17) tert-Butyl alcohol	4.29	59	9850	0.082	ppbv #	46
19) Isopropyl Alcohol	3.96	45	8862	0.126	ppbv #	30
20) Methylene Chloride	4.32	84	200202	2.860	ppbv	97
25) Ethyl Acetate	5.65	43	214390	0.683	ppbv #	93
26) Hexane	5.65	57	177342	1.106	ppbv #	62
29) Chloroform	5.72	83	44542	0.197	ppbv	94
34) 2-Butanone	5.22	43	118913	0.883	ppbv #	78
39) 1,2-Dichloropropane	7.14	63	872100	7.105	ppbv #	25
53) Toluene	9.76	91	185201	0.488	ppbv	99

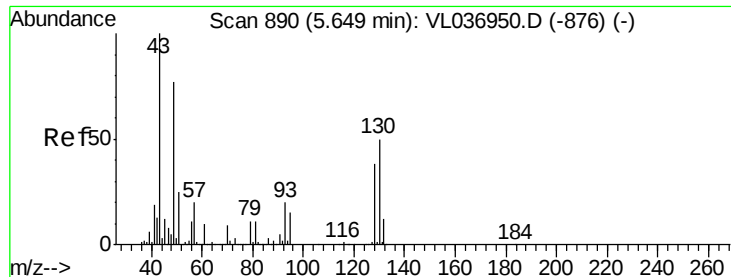
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue May 18 12:00:15 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.63 min Scan# 885

Delta R.T. -0.02 min

Lab File: VL037025.D

Acq: 20 May 2021 15:57

Instrument :

MSVOA_L

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KSV-07

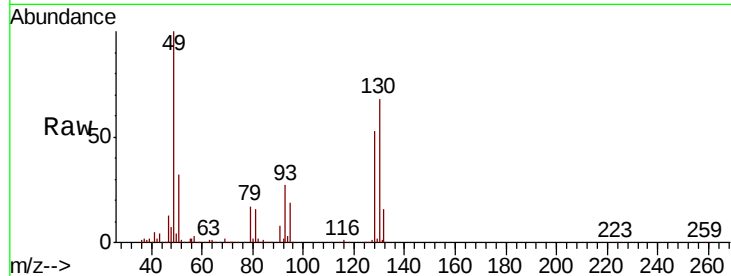
Tot Ion: 49 Resp: 1275060

Ion Ratio Lower Upper

49 100

128 54.3 26.9 80.7

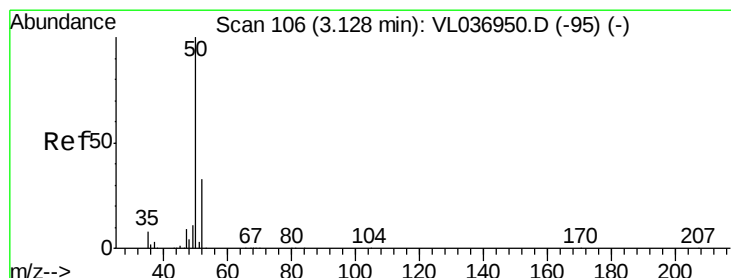
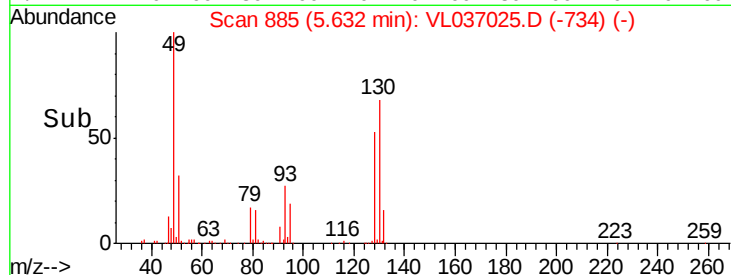
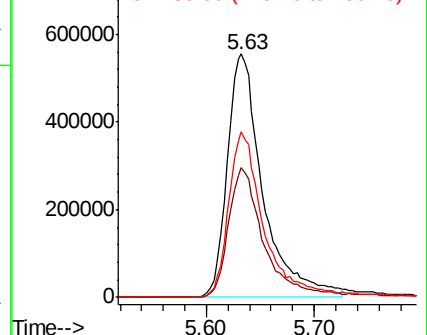
130 69.6 33.8 101.4



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#4

Chloromethane

Concen: 0.060 ppbv

RT: 3.12 min Scan# 104

Delta R.T. -0.01 min

Lab File: VL037025.D

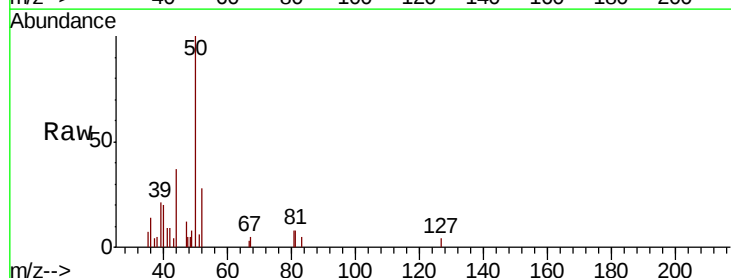
Acq: 20 May 2021 15:57

Tgt Ion: 50 Resp: 4760

Ion Ratio Lower Upper

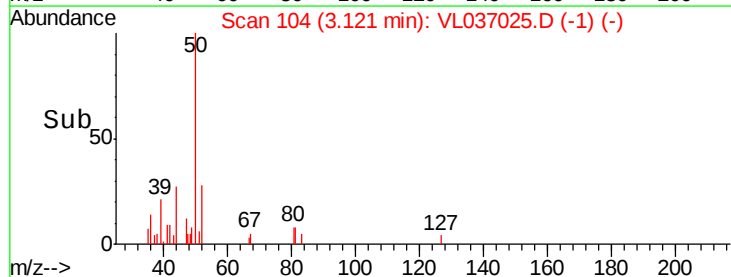
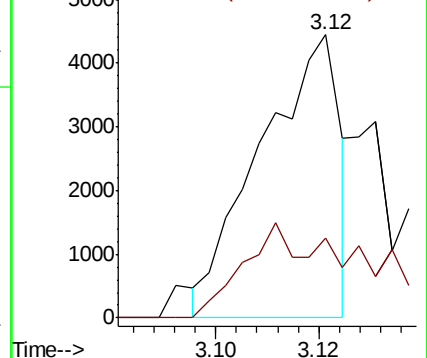
50 100

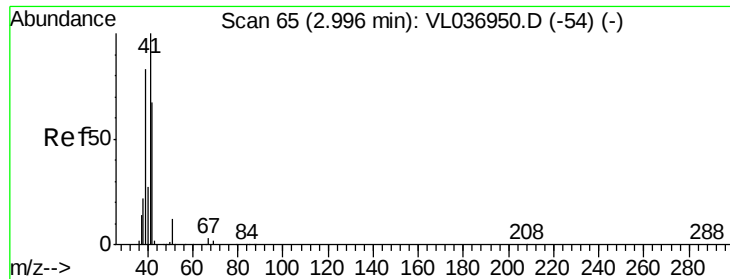
52 31.7 26.1 39.1



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 0.065 ppbv

RT: 3.33 min Scan# 169

Delta R.T. 0.33 min

Lab File: VL037025.D

Acq: 20 May 2021 15:57

Instrument :

MSVOA_L

ClientSampleId :

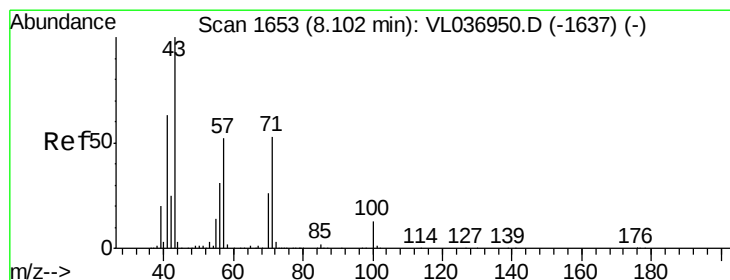
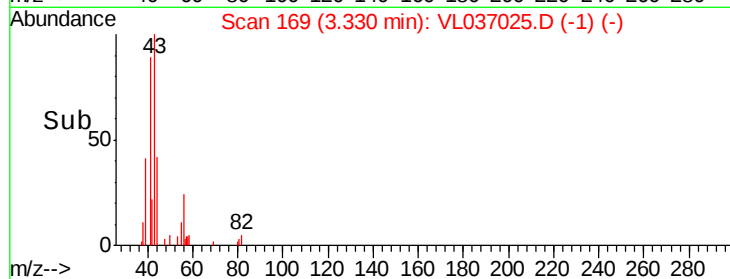
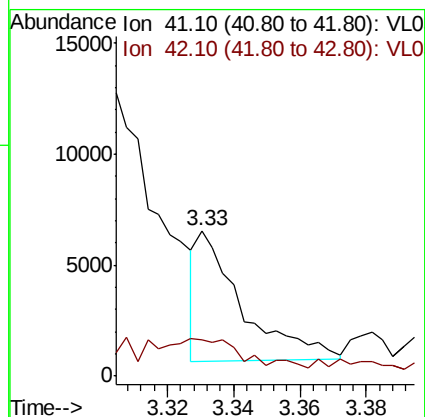
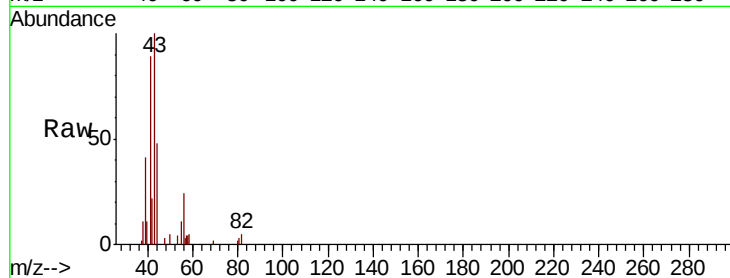
KSV-07

Tot Ion: 41 Resp: 5459

Ion Ratio Lower Upper

41 100

42 67.7 53.9 80.9



#10

Heptane

Concen: 0.137 ppbv

RT: 8.09 min Scan# 1648

Delta R.T. -0.02 min

Lab File: VL037025.D

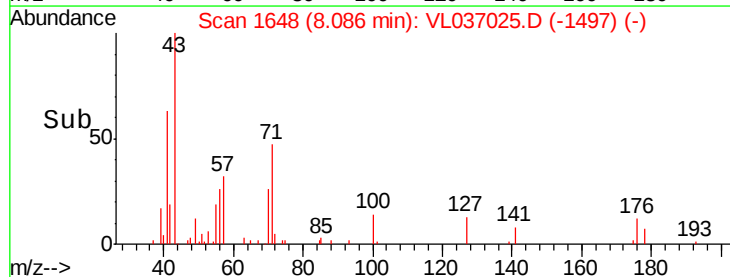
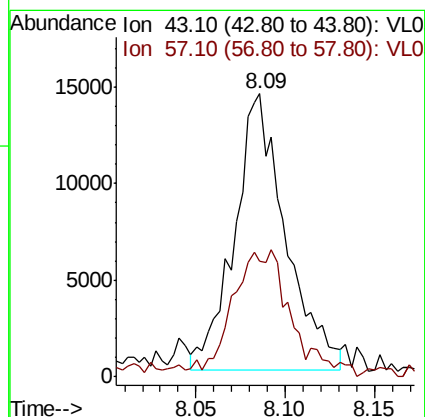
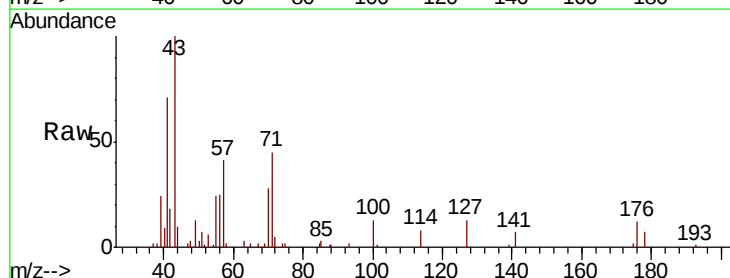
Acq: 20 May 2021 15:57

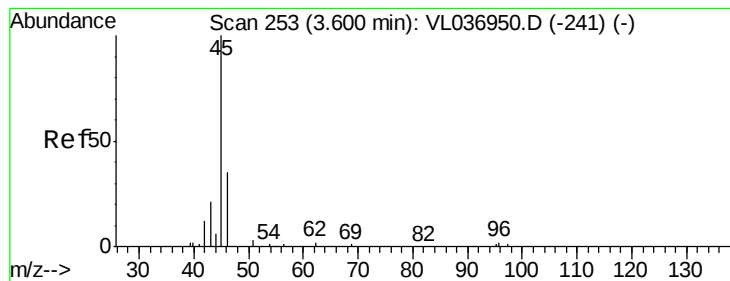
Tgt Ion: 43 Resp: 28592

Ion Ratio Lower Upper

43 100

57 52.9 41.0 61.6





#13

Ethanol

Concen: 1.604 ppbv

RT: 3.59 min Scan# 251

Delta R.T. -0.01 min

Lab File: VL037025.D

Acq: 20 May 2021 15:57

Instrument :

MSVOA_L

ClientSampleId :

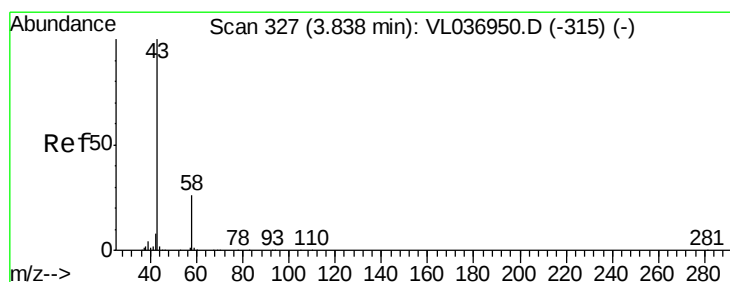
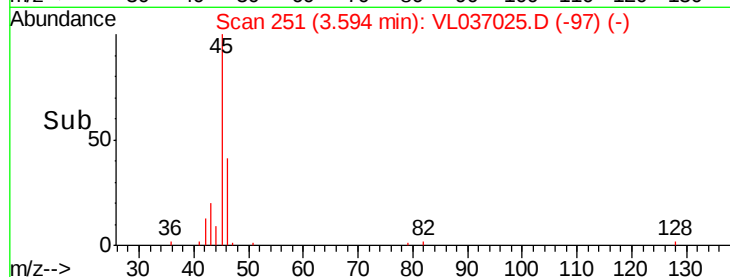
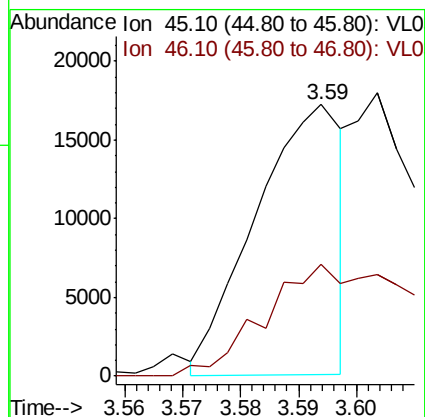
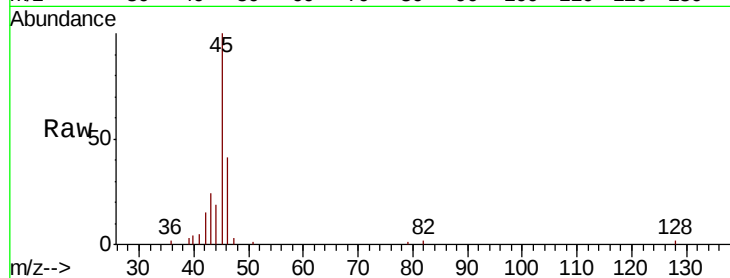
KSV-07

Tot Ion: 45 Resp: 17906

Ion Ratio Lower Upper

45 100

46 126.1 16.3 65.3#



#15

Acetone

Concen: 18.111 ppbv

RT: 3.82 min Scan# 322

Delta R.T. -0.02 min

Lab File: VL037025.D

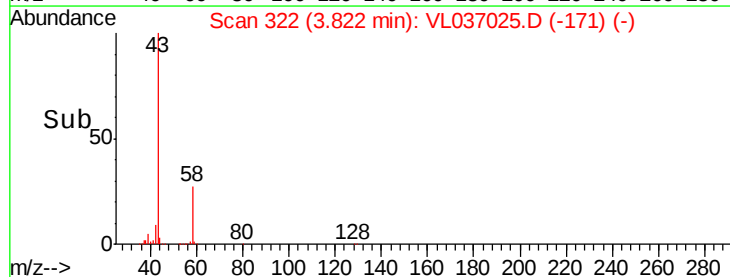
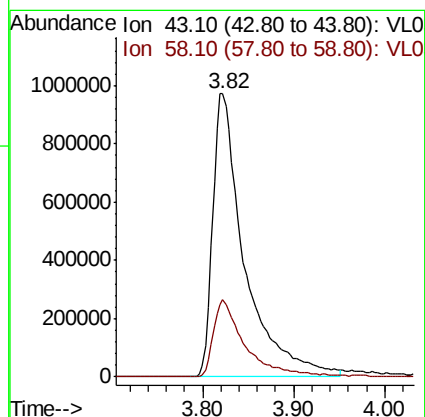
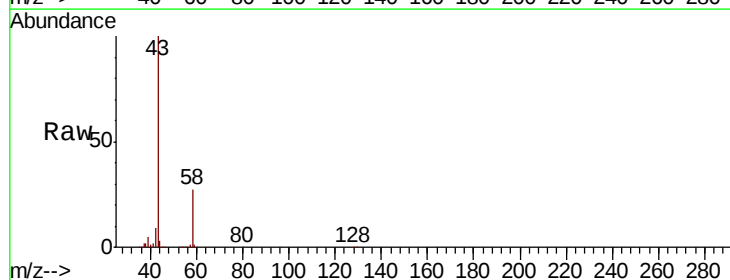
Acq: 20 May 2021 15:57

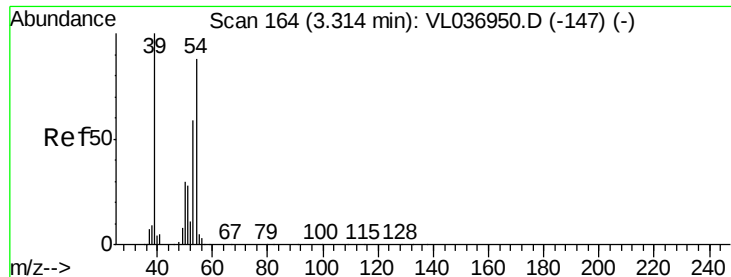
Tgt Ion: 43 Resp: 2365262

Ion Ratio Lower Upper

43 100

58 28.2 24.0 36.0

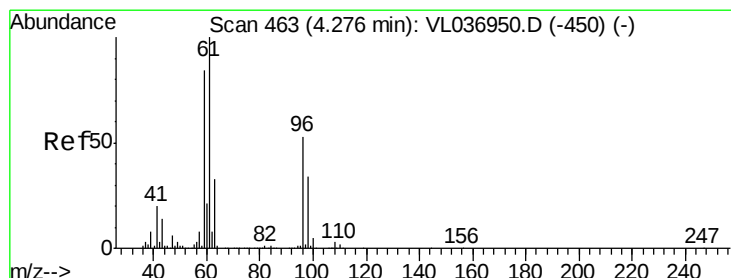
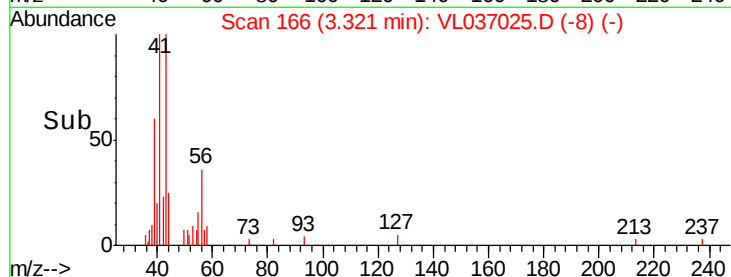
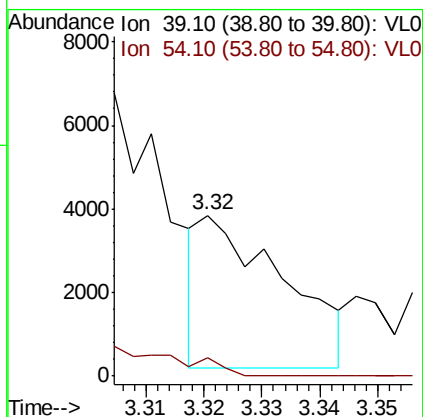
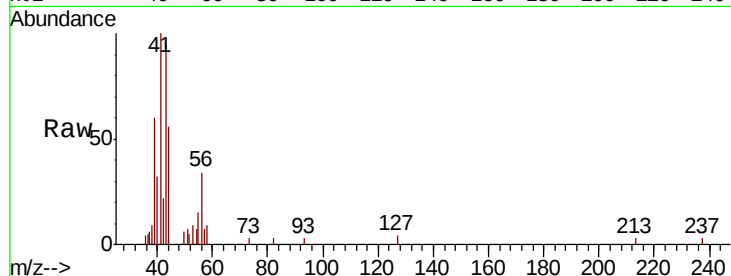




#16
1,3-Butadiene
Concen: 0.045 ppbv
RT: 3.32 min Scan# 166
Delta R.T. 0.01 min
Lab File: VL037025.D
Acq: 20 May 2021 15:57

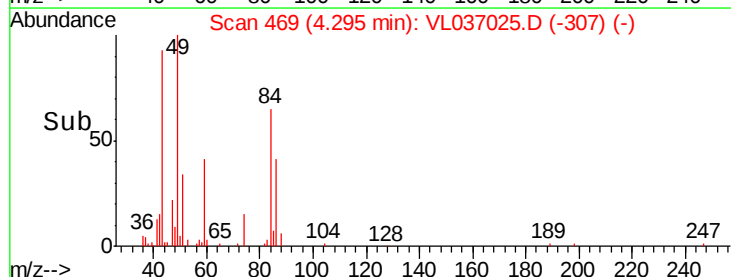
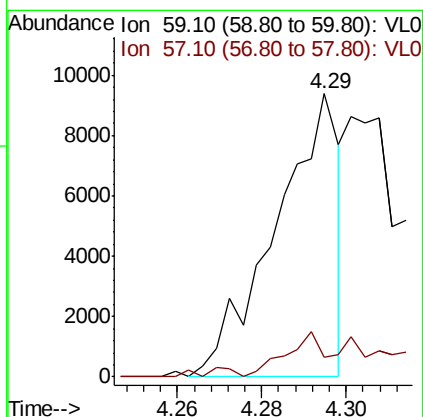
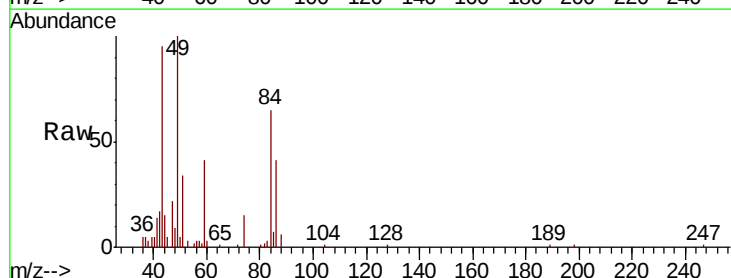
Instrument :
MSVOA_L
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KSV-07

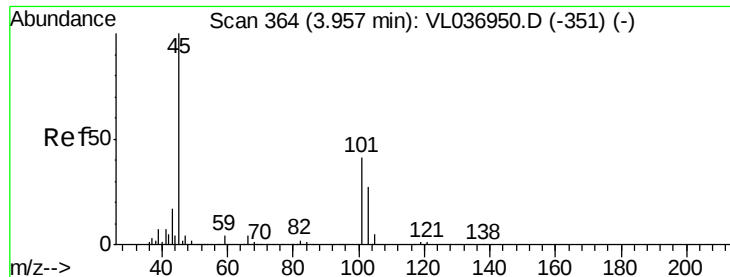
Tot Ion: 39 Resp: 3677
Ion Ratio Lower Upper
39 100
54 0.0 63.2 94.8#



#17
tert-Butyl alcohol
Concen: 0.082 ppbv
RT: 4.29 min Scan# 469
Delta R.T. 0.02 min
Lab File: VL037025.D
Acq: 20 May 2021 15:57

Tgt Ion: 59 Resp: 9850
Ion Ratio Lower Upper
59 100
57 30.5 8.3 12.5#





#19

Isopropyl Alcohol

Concen: 0.126 ppbv

RT: 3.96 min Scan# 365

Delta R.T. 0.00 min

Lab File: VL037025.D

Acq: 20 May 2021 15:57

Instrument :

MSVOA_L

ClientSampleId :

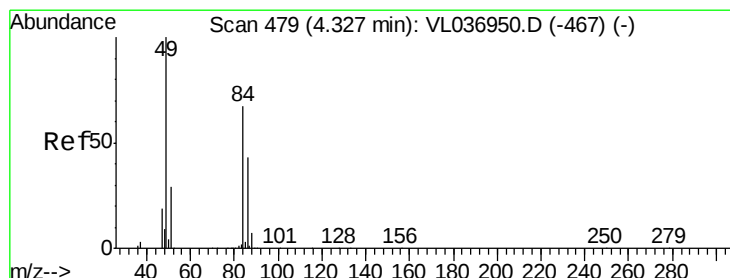
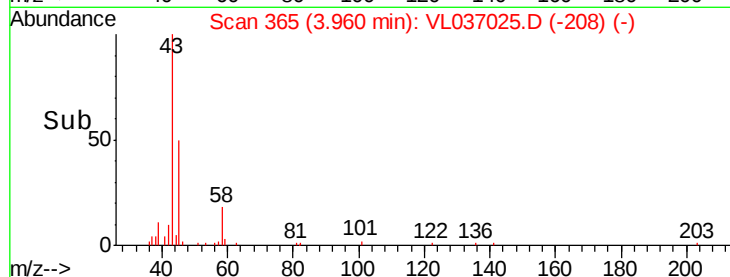
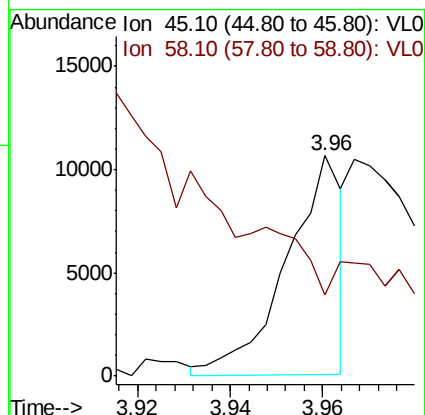
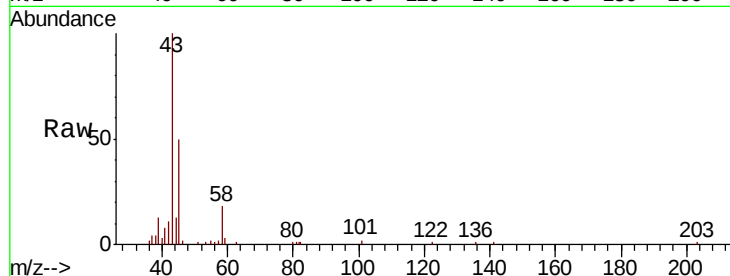
KSV-07

Tot Ion: 45 Resp: 8862

Ion Ratio Lower Upper

45 100

58 0.0 37.2 55.8#



#20

Methylene Chloride

Concen: 2.860 ppbv

RT: 4.32 min Scan# 476

Delta R.T. -0.01 min

Lab File: VL037025.D

Acq: 20 May 2021 15:57

Tgt Ion: 84 Resp: 200202

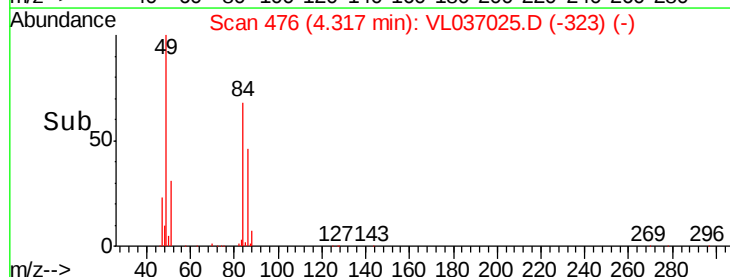
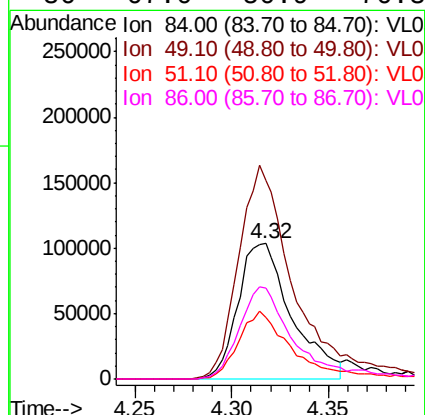
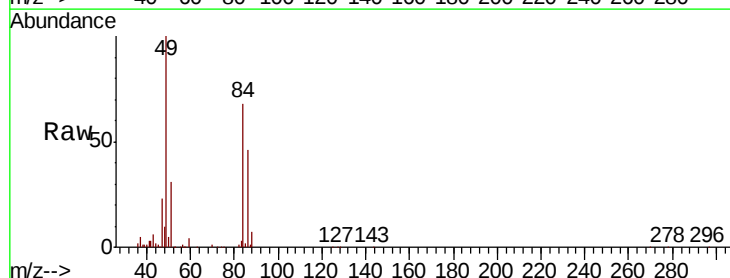
Ion Ratio Lower Upper

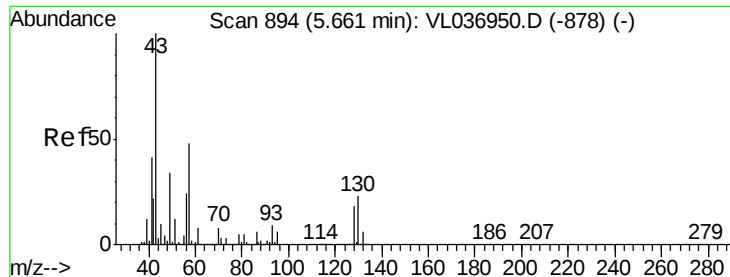
84 100

49 146.3 119.8 179.6

51 45.0 35.1 52.7

86 67.0 50.9 76.3

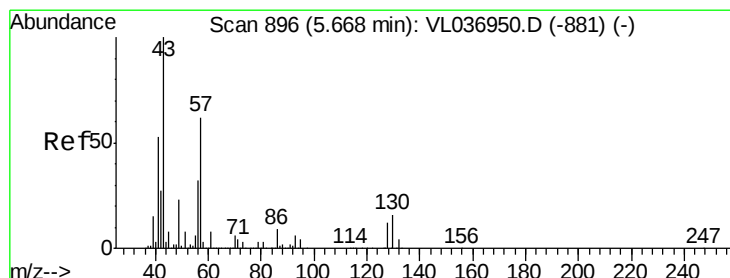
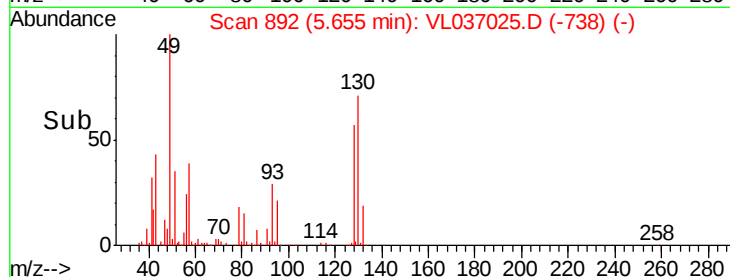
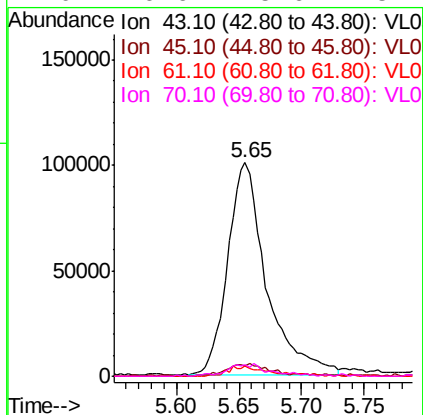
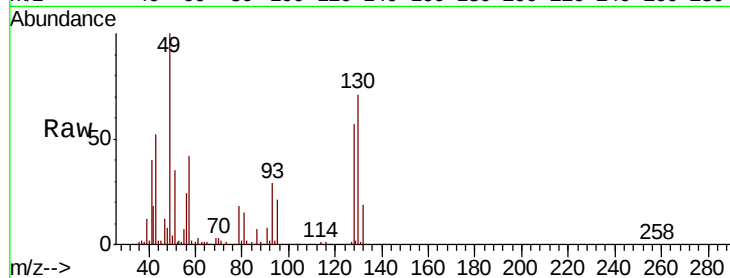




#25
Ethyl Acetate
Concen: 0.683 ppbv
RT: 5.65 min Scan# 892
Delta R.T. -0.01 min
Lab File: VL037025.D
Acq: 20 May 2021 15:57

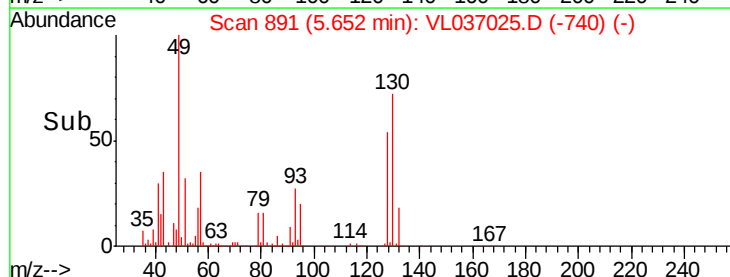
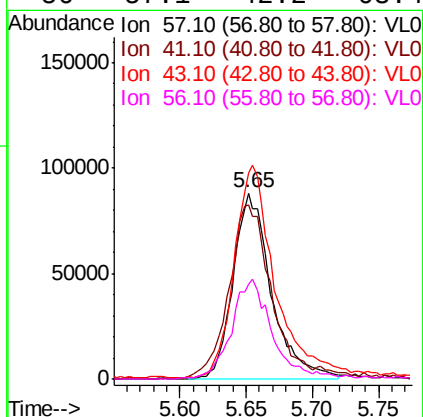
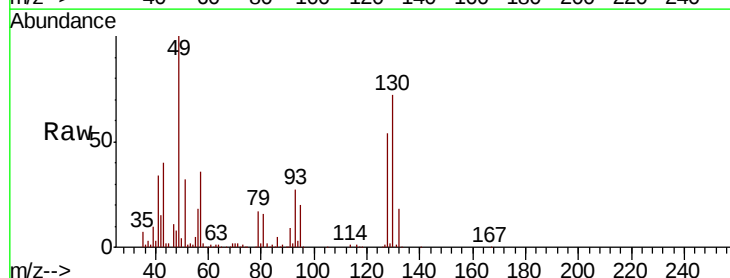
Instrument :
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KSV-07

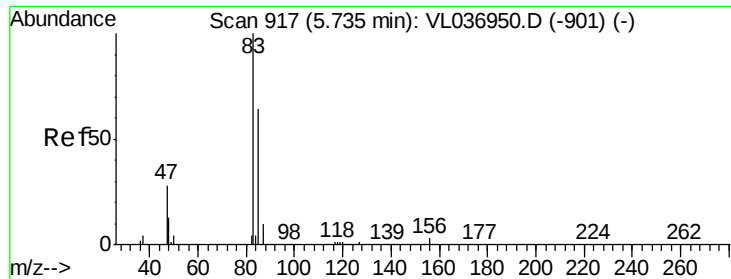
Tot Ion:	43	Resp:	214390
Ion	Ratio	Lower	Upper
43	100		
45	7.4	7.8	11.8#
61	5.6	7.8	11.8#
70	6.6	5.6	8.4



#26
Hexane
Concen: 1.106 ppbv
RT: 5.65 min Scan# 891
Delta R.T. -0.02 min
Lab File: VL037025.D
Acq: 20 May 2021 15:57

Tgt Ion:	57	Resp:	177342
Ion	Ratio	Lower	Upper
57	100		
41	107.8	70.5	105.7#
43	124.2	165.8	248.8#
56	57.1	42.2	63.4





#29

Chloroform

Concen: 0.197 ppbv

RT: 5.72 min Scan# 911

Delta R.T. -0.02 min

Lab File: VL037025.D

Acq: 20 May 2021 15:57

Instrument :

MSVOA_L

ClientSampleId :

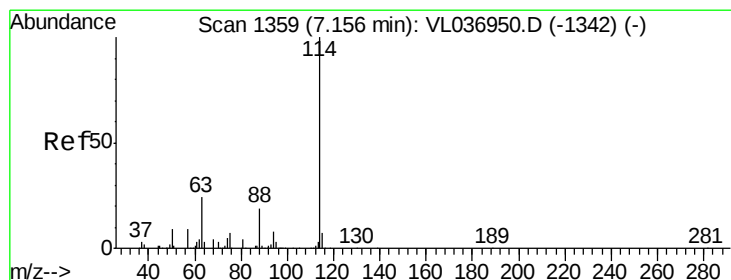
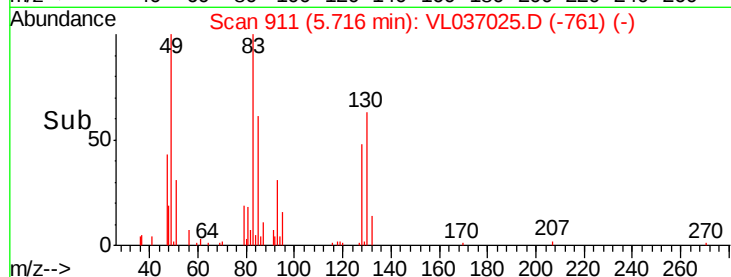
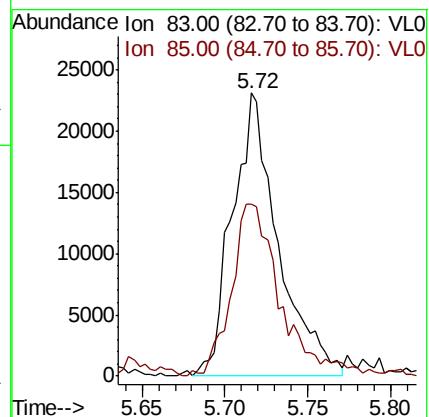
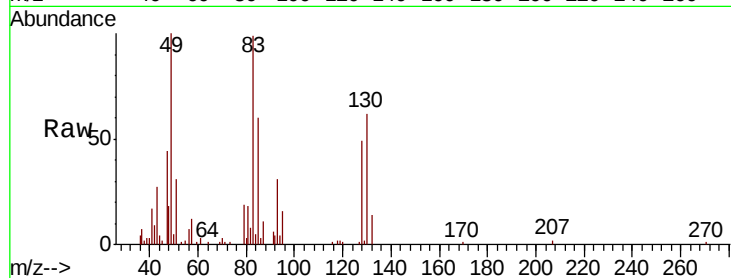
KSV-07

Tot Ion: 83 Resp: 44542

Ion Ratio Lower Upper

83 100

85 59.1 51.1 76.7



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.14 min Scan# 1353

Delta R.T. -0.02 min

Lab File: VL037025.D

Acq: 20 May 2021 15:57

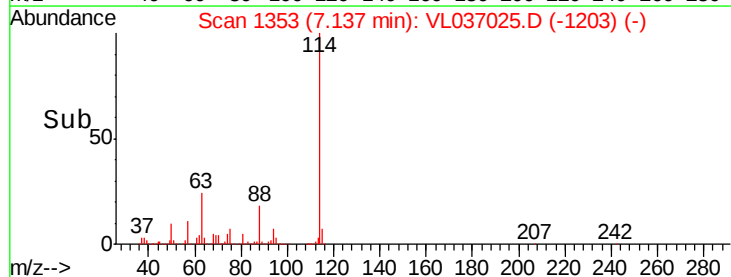
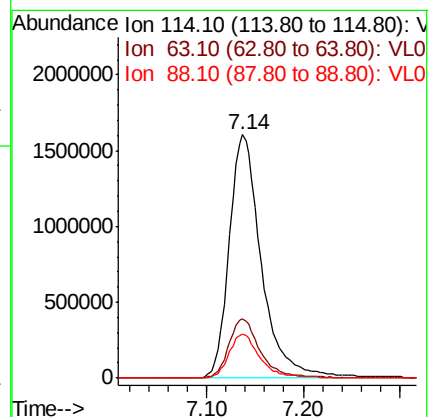
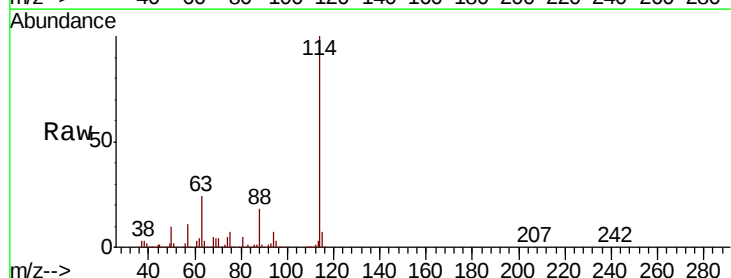
Tgt Ion: 114 Resp: 3699211

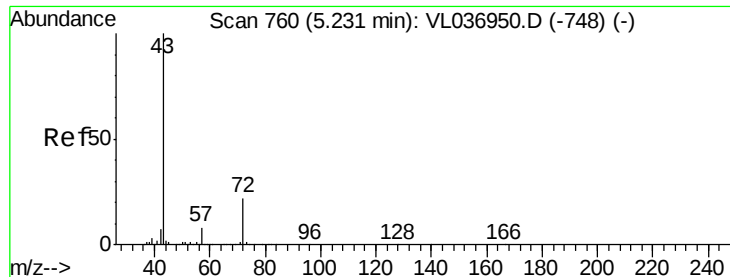
Ion Ratio Lower Upper

114 100

63 24.2 19.6 29.4

88 17.8 14.6 21.8

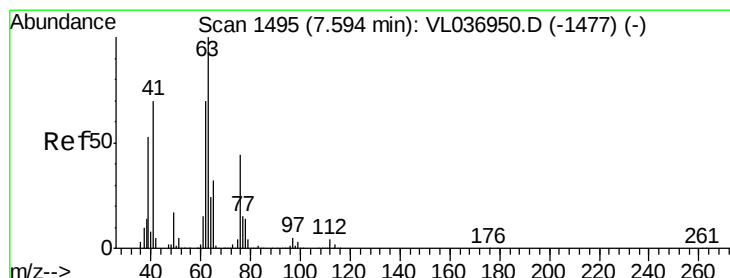
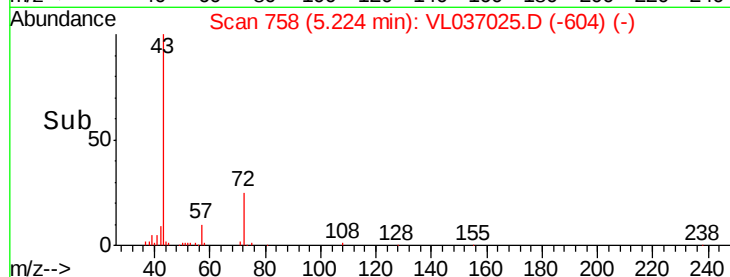
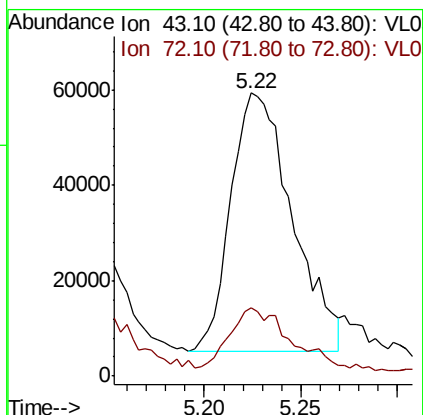
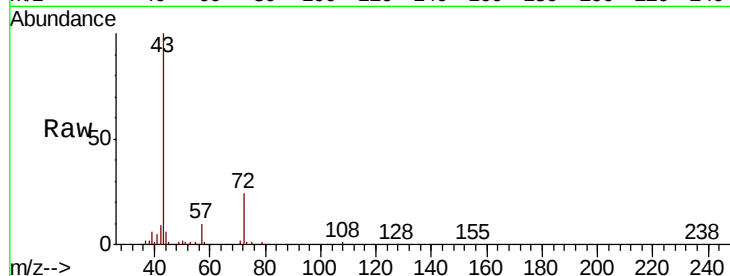




#34
 2-Butanone
 Concen: 0.883 ppbv
 RT: 5.22 min Scan# 758
 Delta R.T. -0.01 min
 Lab File: VL037025.D
 Acq: 20 May 2021 15:57

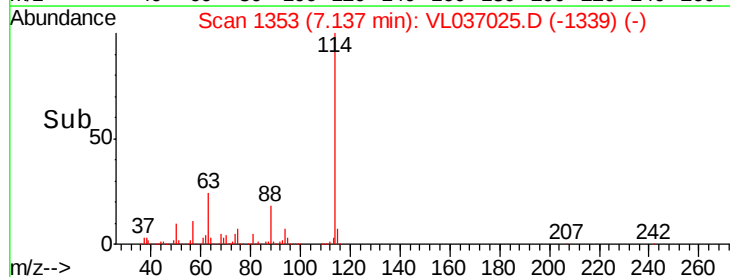
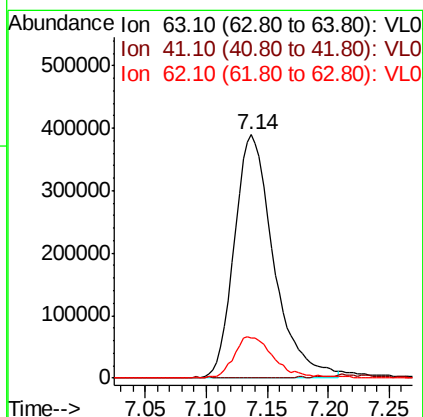
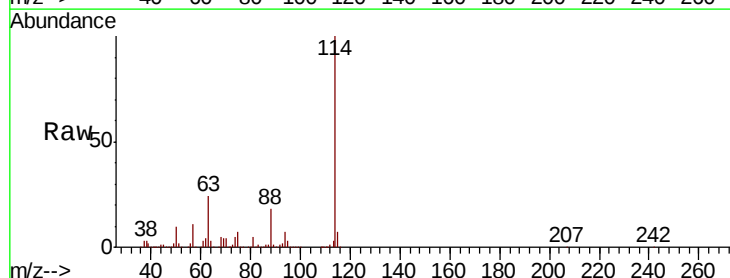
Instrument :
 MSVOA_L
 ClientSampleId :
 KSV-07

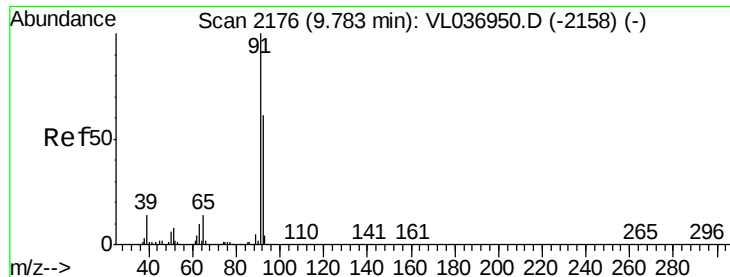
Tot Ion: 43 Resp: 118913
 Ion Ratio Lower Upper
 43 100
 72 34.3 19.0 28.4#



#39
 1,2-Dichloropropane
 Concen: 7.105 ppbv
 RT: 7.14 min Scan# 1353
 Delta R.T. -0.46 min
 Lab File: VL037025.D
 Acq: 20 May 2021 15:57

Tgt Ion: 63 Resp: 872100
 Ion Ratio Lower Upper
 63 100
 41 0.0 55.7 83.5#
 62 16.3 56.2 84.4#





#53

Toluene

Concen: 0.488 ppbv

RT: 9.76 min Scan# 2170

Delta R.T. -0.02 min

Lab File: VL037025.D

Acq: 20 May 2021 15:57

Instrument :

MSVOA_L

ClientSampleId :

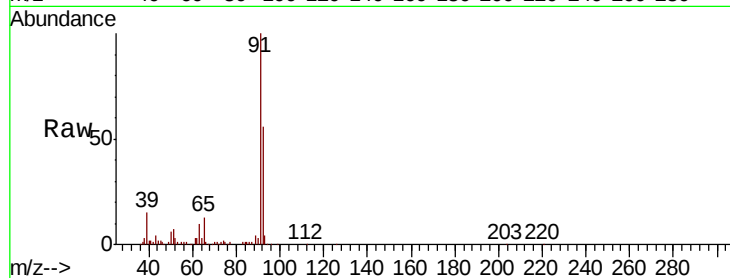
KSV-07

Tot Ion: 91 Resp: 185201

Ion Ratio Lower Upper

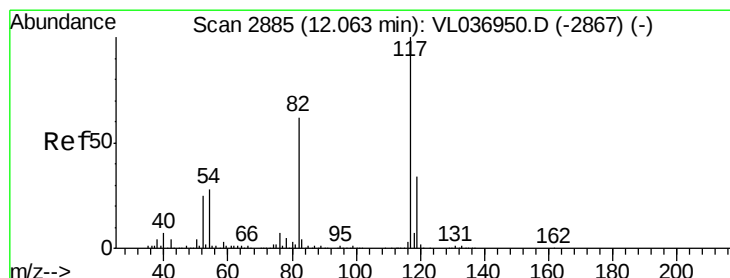
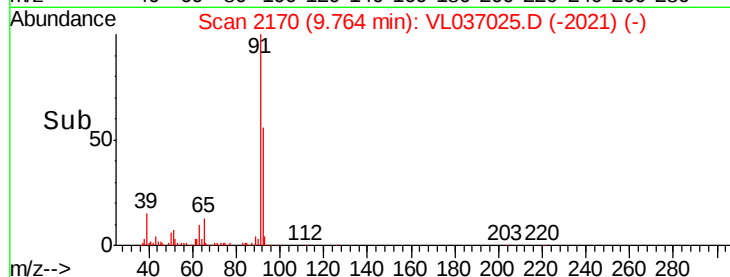
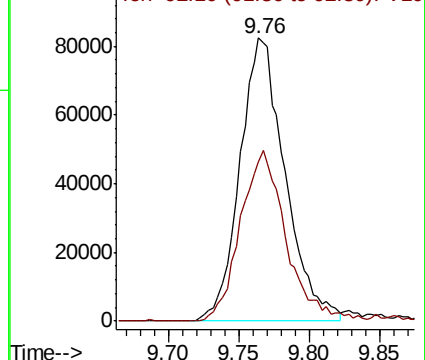
91 100

92 62.4 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: 12.04 min Scan# 2879

Delta R.T. -0.02 min

Lab File: VL037025.D

Acq: 20 May 2021 15:57

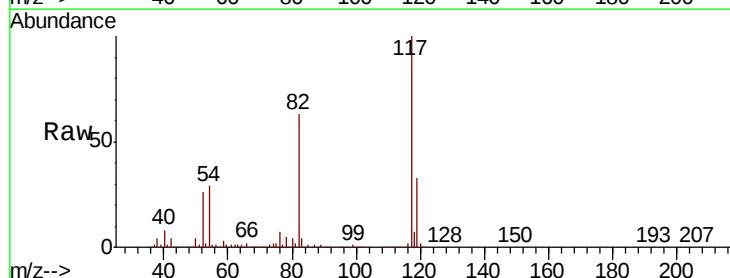
Tgt Ion: 117 Resp: 3212823

Ion Ratio Lower Upper

117 100

82 65.5 52.6 79.0

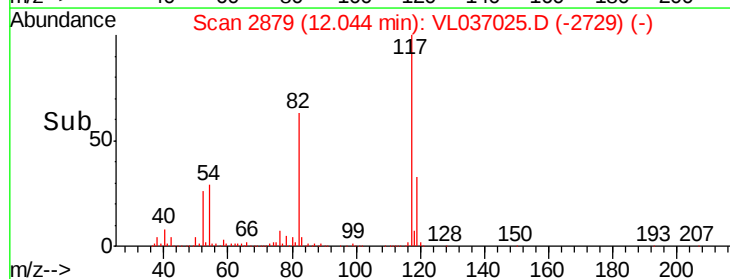
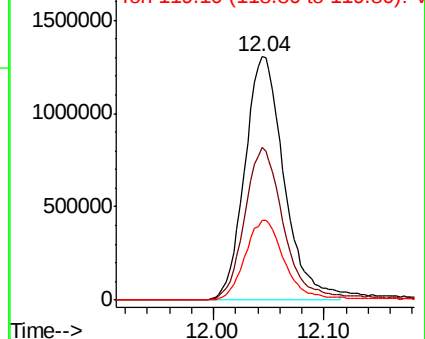
119 33.9 46.6 70.0#

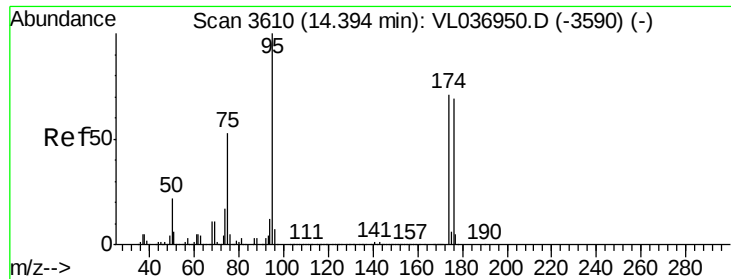


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V





#68

1-Bromo-4-Fluorobenzene

Concen: 9.981 ppbv

RT: 14.37 min Scan# 3604

Delta R.T. -0.02 min

Lab File: VL037025.D

Acq: 20 May 2021 15:57

Instrument :

MSVOA_L

ClientSampleId :

KSV-07

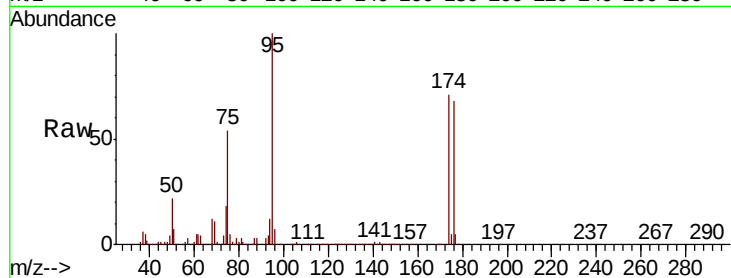
Tot Ion: 95 Resp: 2408965

Ion Ratio Lower Upper

95 100

174 74.7 58.4 87.6

175 5.4 4.4 6.6



Abundance

Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

