

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL051921\
 Data File : VL037015.D
 Acq On : 20 May 2021 6:14
 Operator : SY/AP
 Sample : M2424-12 10X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 KSV-10

Quant Time: May 20 08:49:44 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL051821AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 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	982033	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.14	114	2816125	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.05	117	2592187	10.00	ppbv	-0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.38	95	1998307	10.26	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.60%

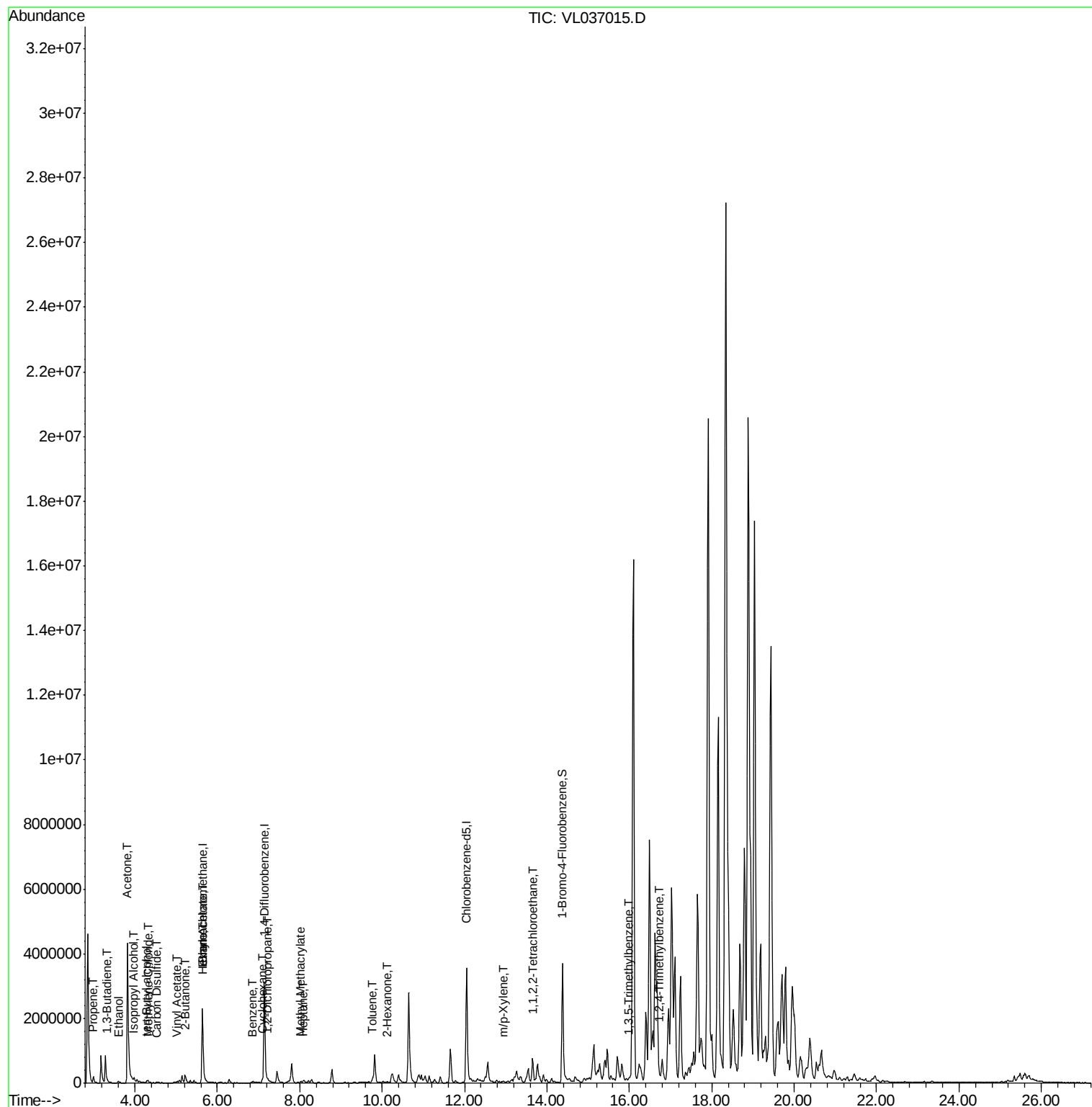
Target Compounds					Qvalue
9) Propene	2.99	41	94984	1.474 ppbv	98
10) Heptane	8.09	43	35458	0.221 ppbv	90
13) Ethanol	3.59	45	40033	4.657 ppbv #	54
15) Acetone	3.82	43	6228185	61.919 ppbv	98
16) 1,3-Butadiene	3.32	39	13166	0.211 ppbv #	10
17) tert-Butyl alcohol	4.29	59	59401	0.645 ppbv #	90
19) Isopropyl Alcohol	3.96	45	51601	0.954 ppbv #	30
20) Methylene Chloride	4.31	84	17344	0.322 ppbv	89
23) Vinyl Acetate	5.03	43	24945	0.156 ppbv #	14
25) Ethyl Acetate	5.65	43	133042	0.550 ppbv #	93
26) Hexane	5.65	57	81095	0.657 ppbv #	11
27) Carbon Disulfide	4.52	76	11240	0.090 ppbv #	77
30) Cyclohexane	7.10	84	47072	0.449 ppbv	90
34) 2-Butanone	5.22	43	365461	3.564 ppbv	95
36) Benzene	6.85	78	36417	0.150 ppbv	94
39) 1,2-Dichloropropane	7.21	63	6692	0.072 ppbv #	43
43) Methyl Methacrylate	8.02	69	9528	0.114 ppbv #	1
51) 2-Hexanone	10.12	43	24706	0.276 ppbv #	42
53) Toluene	9.77	91	59546	0.206 ppbv #	19
59) m/p-Xylene	12.96	91	9237	0.031 ppbv #	30
63) 1,1,2,2-Tetrachloroethane	13.65	83	31645	0.147 ppbv #	25
73) 1,3,5-Trimethylbenzene	15.96	105	10558	0.033 ppbv	89
74) 1,2,4-Trimethylbenzene	16.73	105	27051	0.081 ppbv #	62

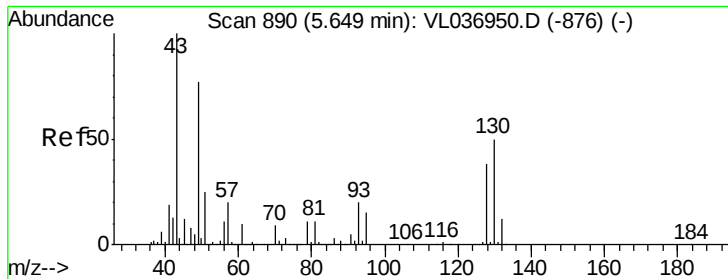
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.64 min Scan# 887

Delta R.T. -0.01 min

Lab File: VL037015.D

Acq: 20 May 2021 6:14

Instrument :

MSVOA_L

ClientSampleId :

KSV-10

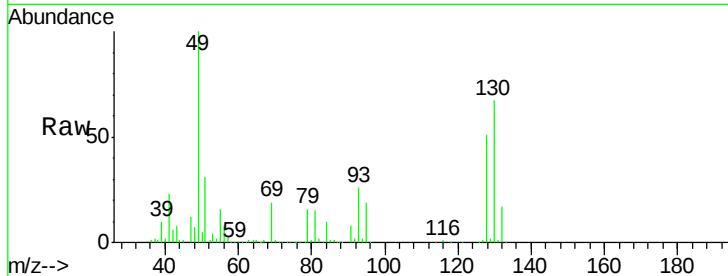
Tgt Ion: 49 Resp: 982033

Ion Ratio Lower Upper

49 100

128 52.9 26.9 80.7

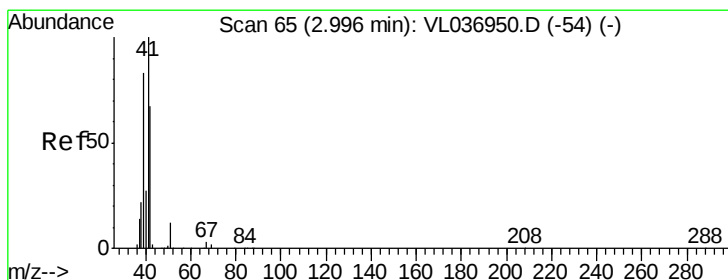
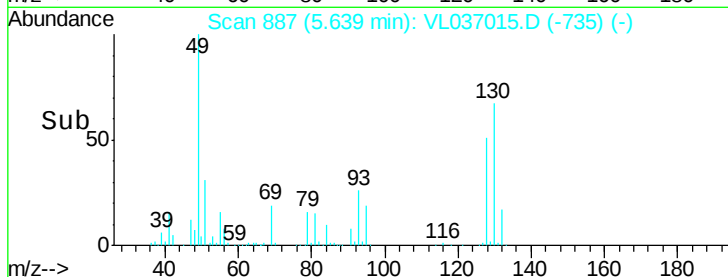
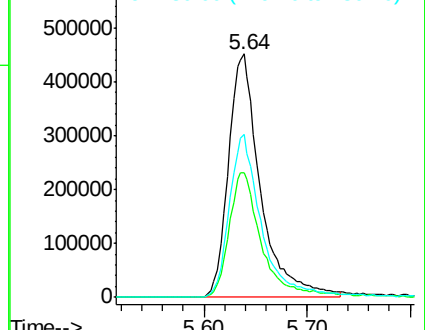
130 67.8 33.8 101.4



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



#9

Propene

Concen: 1.474 ppbv

RT: 2.99 min Scan# 62

Delta R.T. -0.01 min

Lab File: VL037015.D

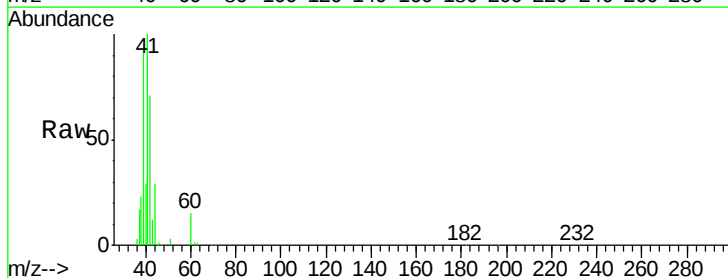
Acq: 20 May 2021 6:14

Tgt Ion: 41 Resp: 94984

Ion Ratio Lower Upper

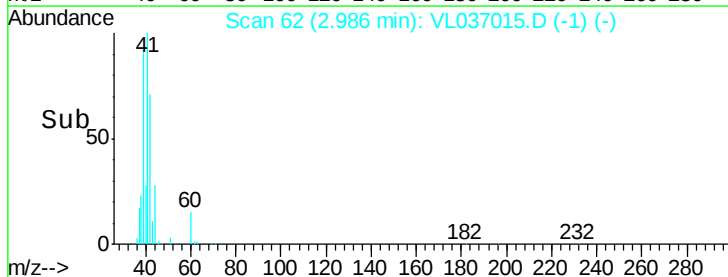
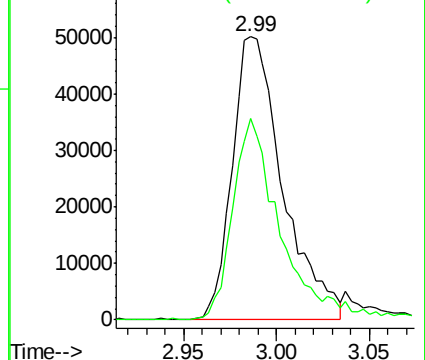
41 100

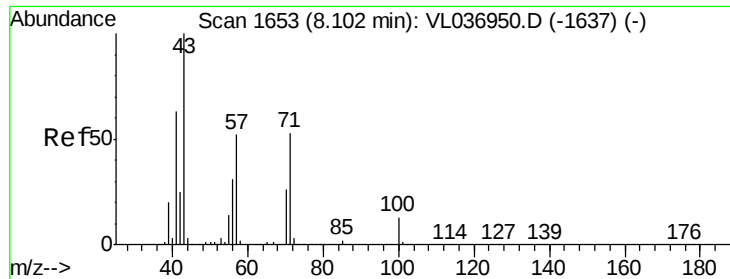
42 69.1 53.9 80.9



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0





#10

Heptane

Concen: 0.221 ppbv

RT: 8.09 min Scan# 1650

Delta R.T. -0.01 min

Lab File: VL037015.D

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Instrument :

MSVOA_L

ClientSampleId :

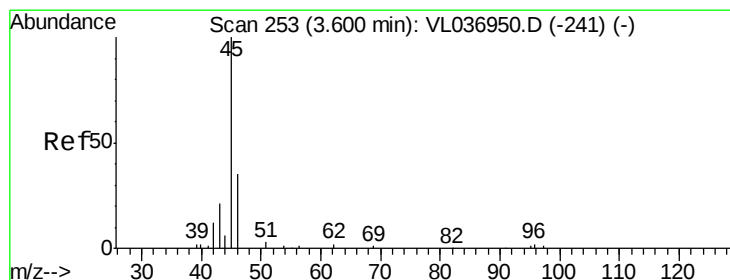
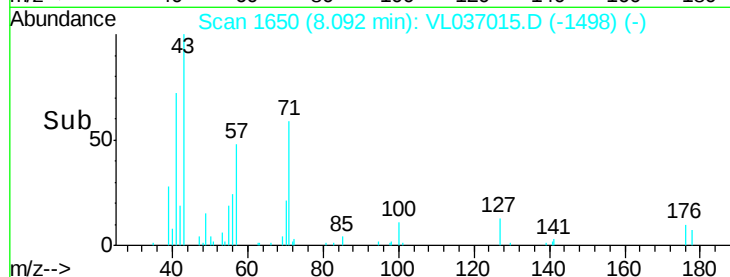
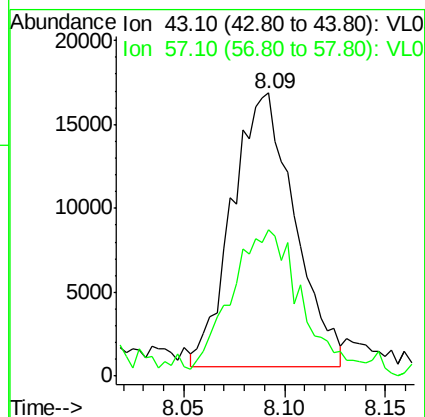
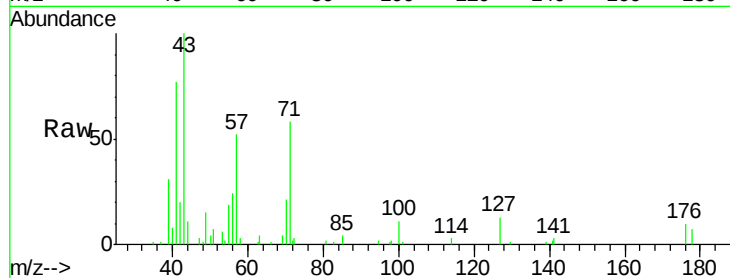
KSV-10

Tgt Ion: 43 Resp: 35458

Ion Ratio Lower Upper

43 100

57 58.6 41.0 61.6



#13

Ethanol

Concen: 4.657 ppbv

RT: 3.59 min Scan# 251

Delta R.T. -0.01 min

Lab File: VL037015.D

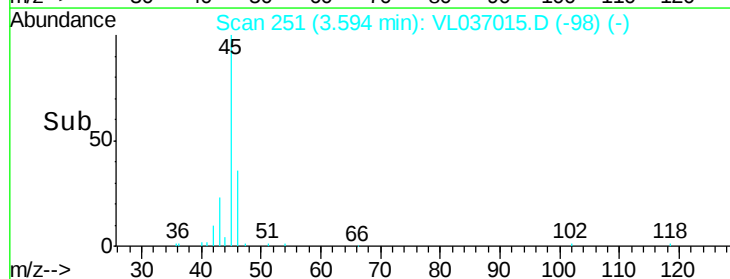
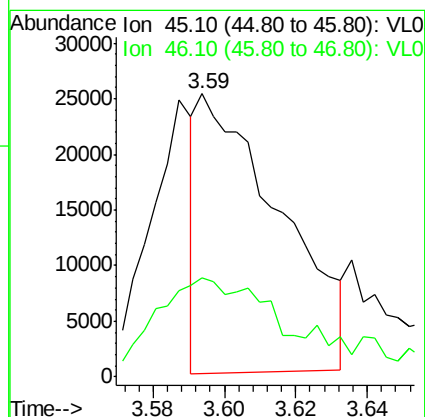
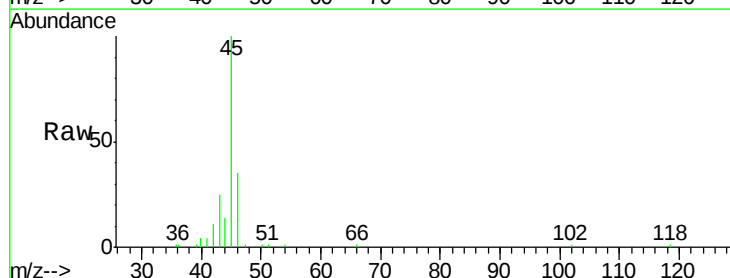
Acq: 20 May 2021 6:14

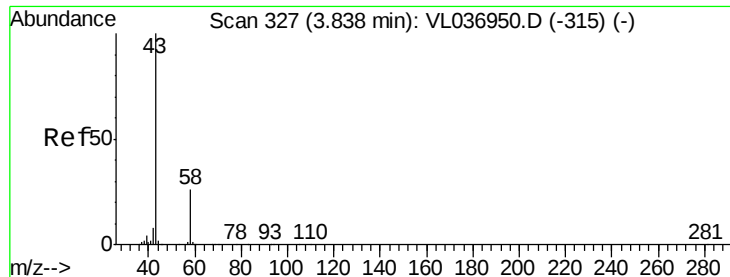
Tgt Ion: 45 Resp: 40033

Ion Ratio Lower Upper

45 100

46 69.5 16.3 65.3#





#15

Acetone

Concen: 61.919 ppbv

RT: 3.82 min Scan# 321

Delta R.T. -0.02 min

Lab File: VL037015.D

Acq: 20 May 2021 6:14

Instrument :

MSVOA_L

ClientSampleId :

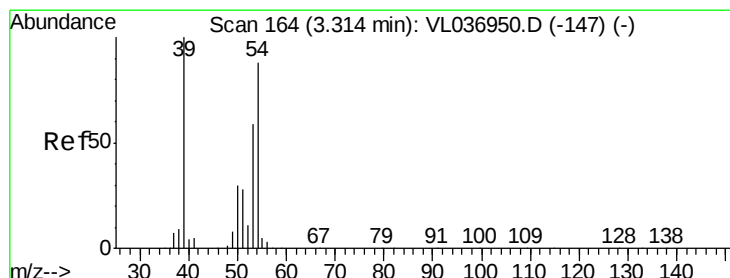
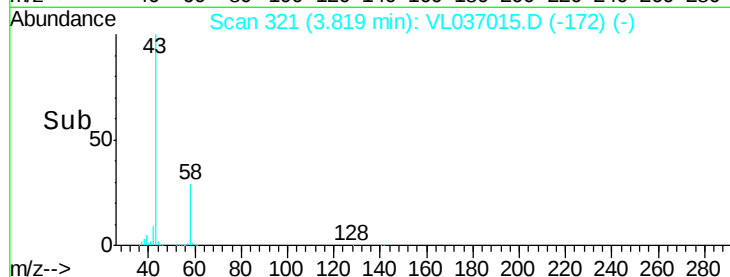
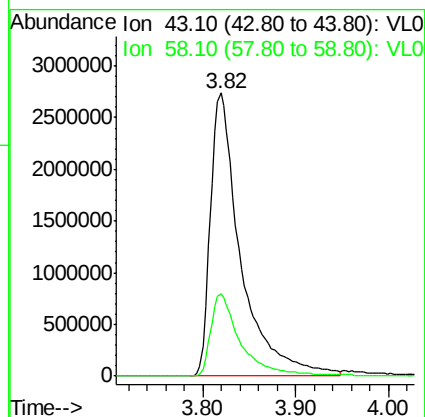
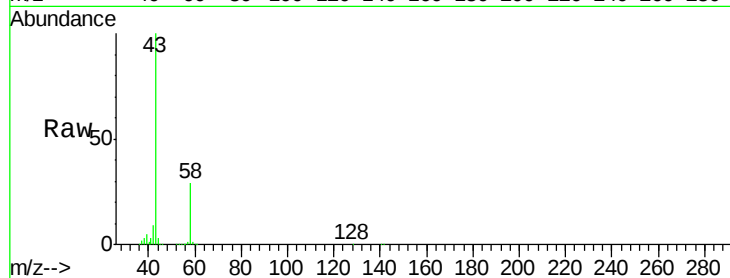
KSV-10

Tgt Ion: 43 Resp: 6228185

Ion Ratio Lower Upper

43 100

58 29.2 24.0 36.0



#16

1,3-Butadiene

Concen: 0.211 ppbv

RT: 3.32 min Scan# 167

Delta R.T. 0.01 min

Lab File: VL037015.D

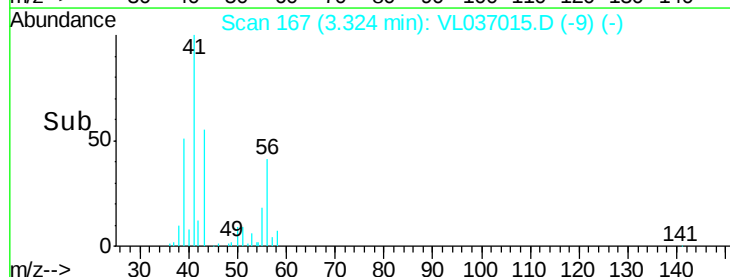
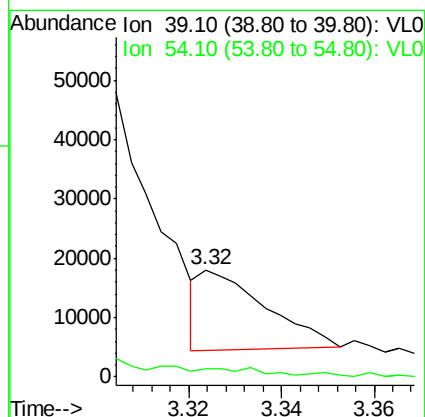
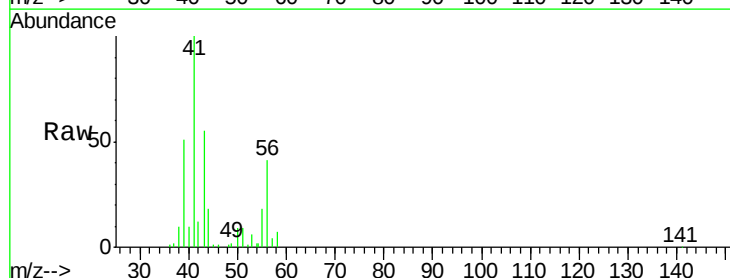
Acq: 20 May 2021 6:14

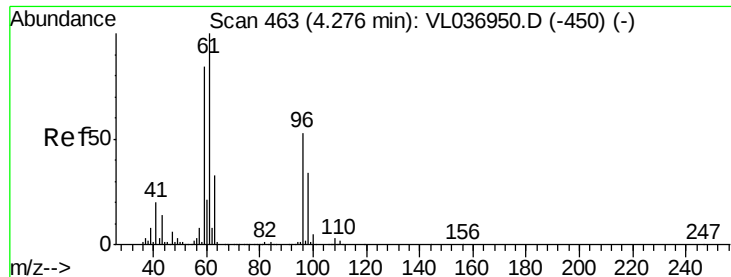
Tgt Ion: 39 Resp: 13166

Ion Ratio Lower Upper

39 100

54 0.0 63.2 94.8#





#17

tert-Butyl alcohol

Concen: 0.645 ppbv

RT: 4.29 min Scan# 467

Delta R.T. 0.01 min

Lab File: VL037015.D

Acq: 20 May 2021 6:14

Instrument :

MSVOA_L

ClientSampleId :

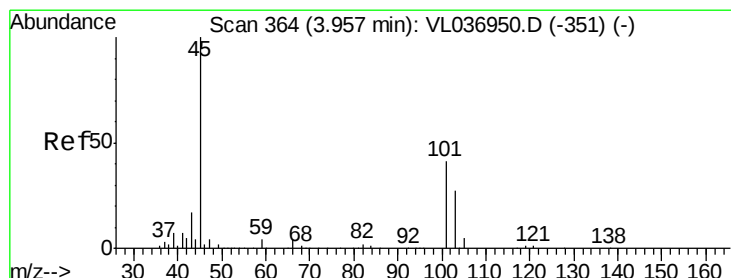
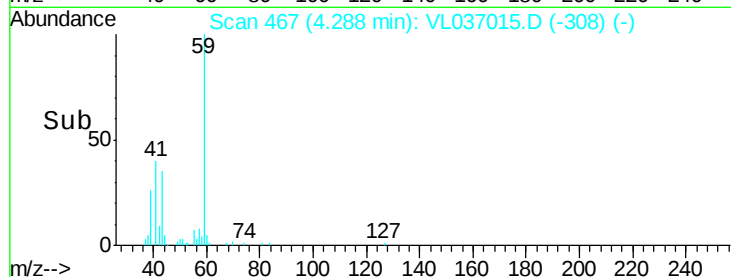
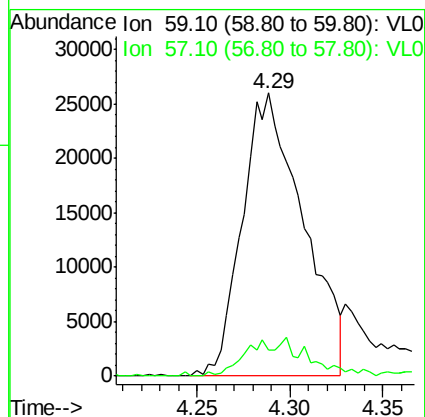
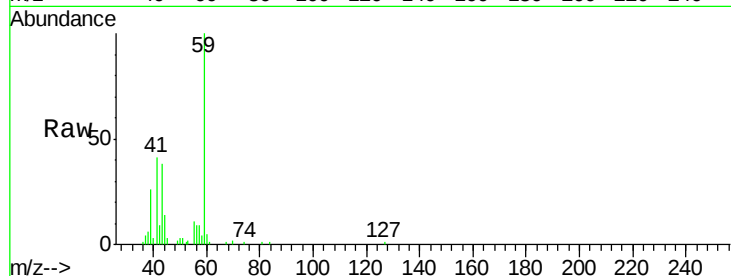
KSV-10

Tgt Ion: 59 Resp: 59401

Ion Ratio Lower Upper

59 100

57 14.3 8.3 12.5#



#19

Isopropyl Alcohol

Concen: 0.954 ppbv

RT: 3.96 min Scan# 365

Delta R.T. 0.00 min

Lab File: VL037015.D

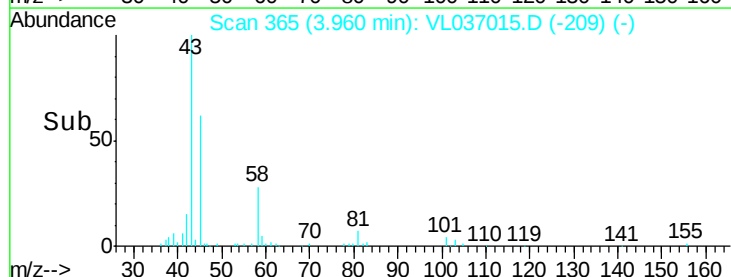
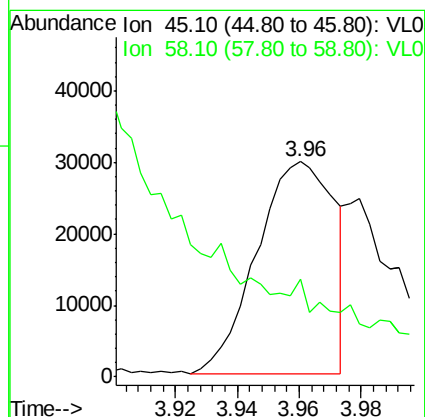
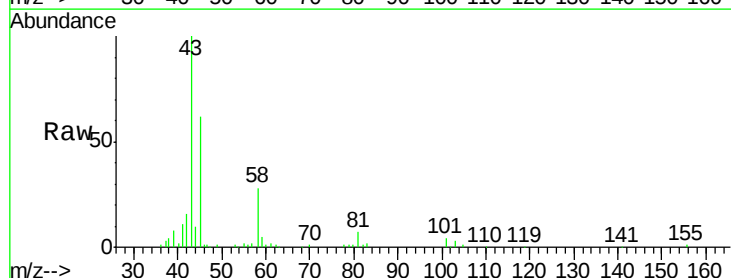
Acq: 20 May 2021 6:14

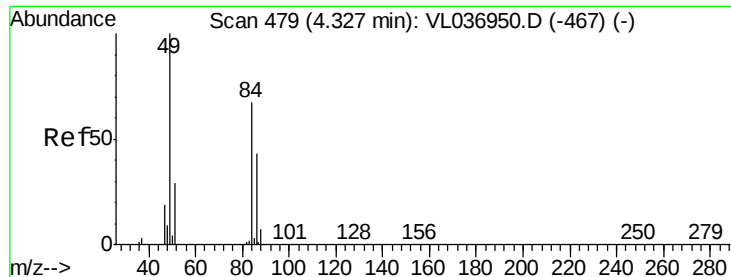
Tgt Ion: 45 Resp: 51601

Ion Ratio Lower Upper

45 100

58 0.0 37.2 55.8#

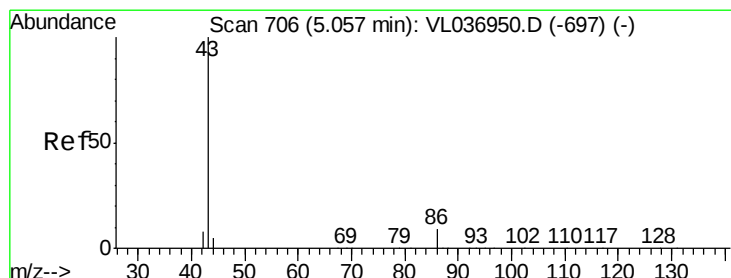
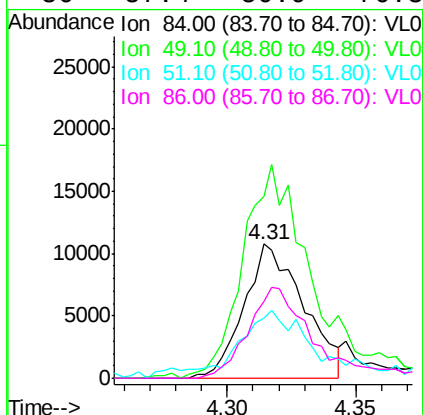
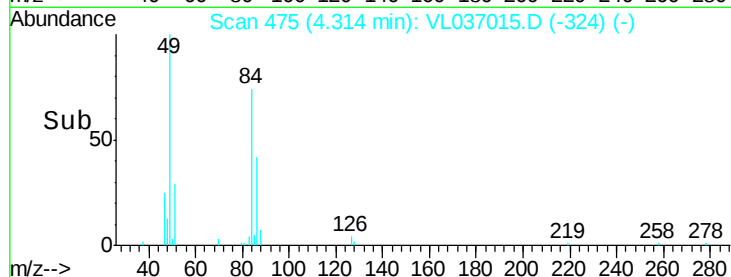
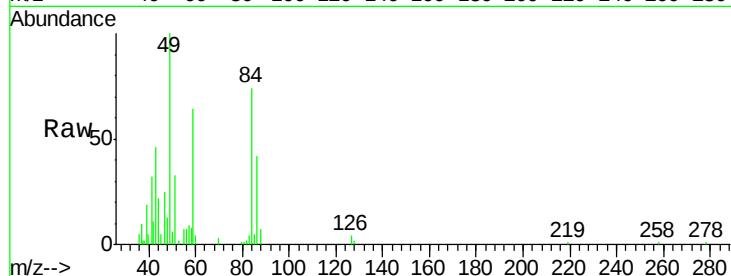




#20
Methylene Chloride
Concen: 0.322 ppbv
RT: 4.31 min Scan# 475
Delta R.T. -0.01 min
Lab File: VL037015.D
Acq: 20 May 2021 6:14

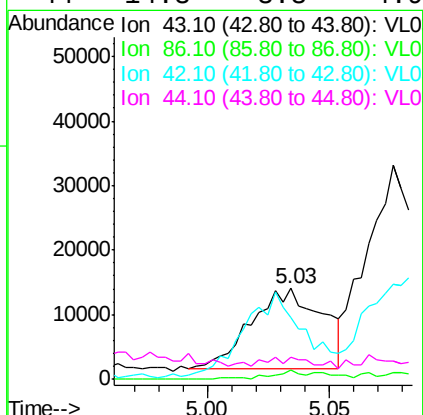
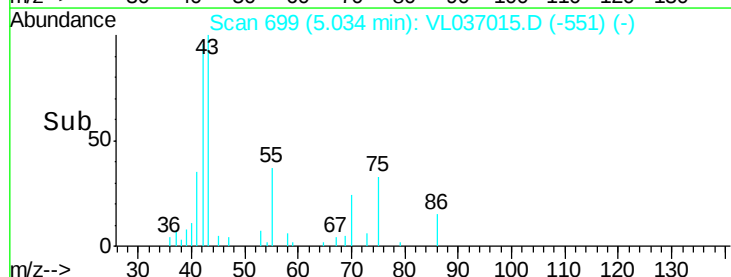
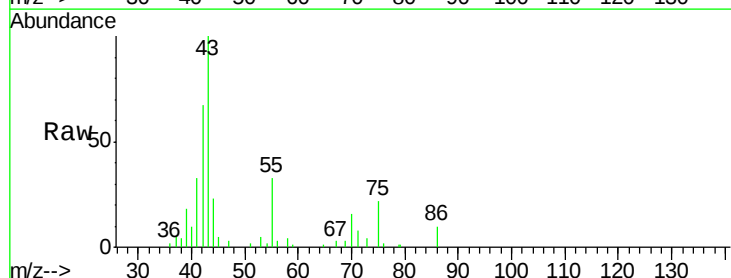
Instrument :
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ClientSampleID :
KSV-10

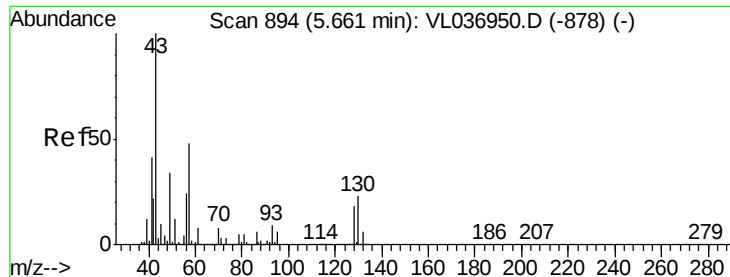
Tgt Ion:	84	Resp:	17344
Ion	Ratio	Lower	Upper
84	100		
49	132.9	119.8	179.6
51	38.0	35.1	52.7
86	57.4	50.9	76.3



#23
Vinyl Acetate
Concen: 0.156 ppbv
RT: 5.03 min Scan# 699
Delta R.T. -0.02 min
Lab File: VL037015.D
Acq: 20 May 2021 6:14

Tgt Ion:	43	Resp:	24945
Ion	Ratio	Lower	Upper
43	100		
86	11.7	5.8	8.8#
42	70.8	7.4	11.2#
44	14.3	3.3	4.9#

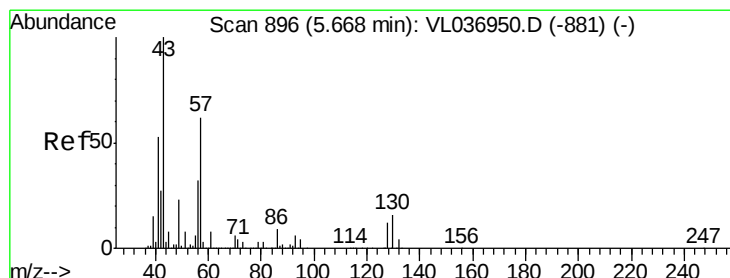
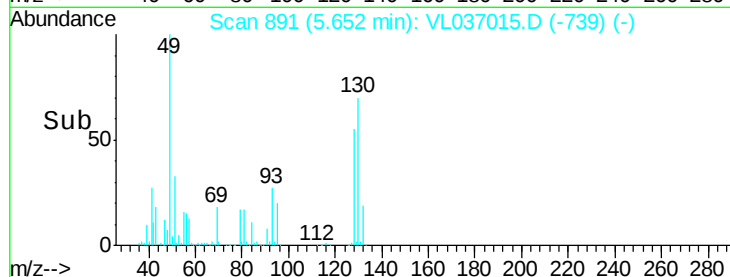
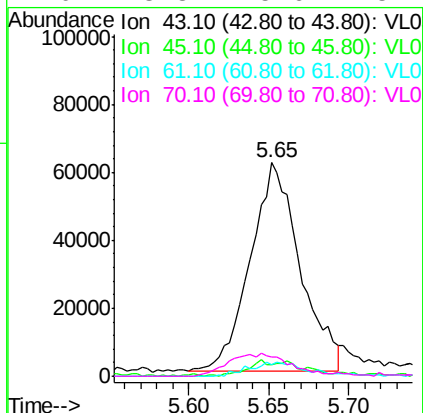
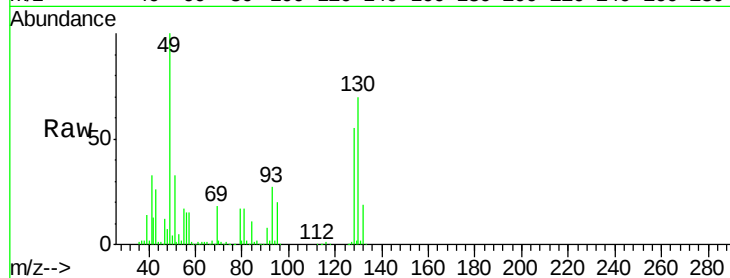




#25
Ethyl Acetate
Concen: 0.550 ppbv
RT: 5.65 min Scan# 891
Delta R.T. -0.01 min
Lab File: VL037015.D
Acq: 20 May 2021 6:14

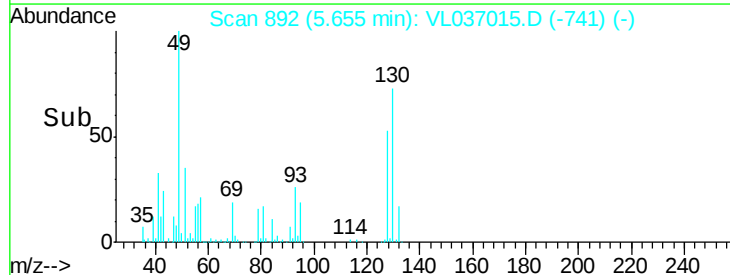
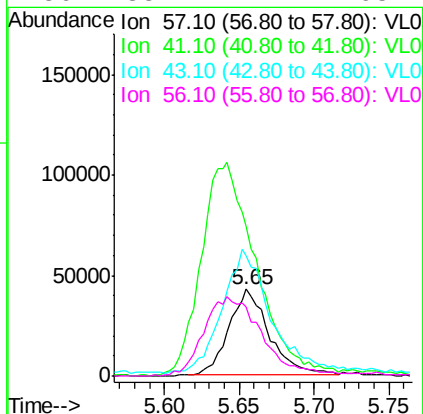
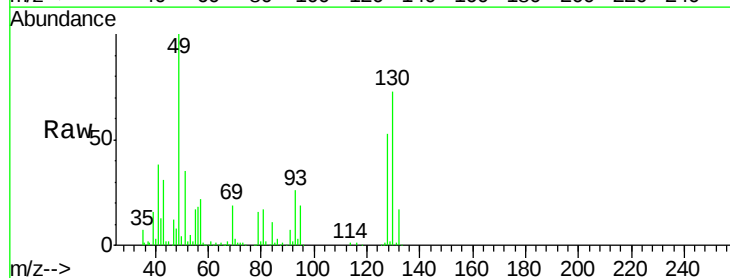
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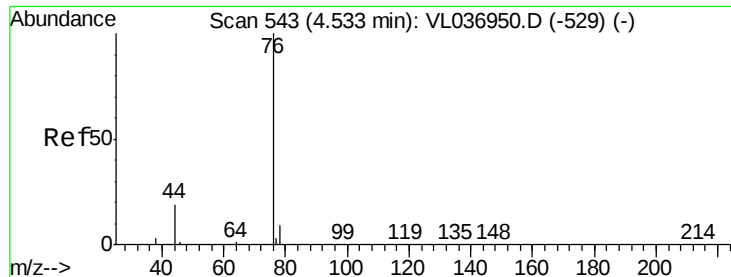
Tgt Ion:	43	Resp:	133042
Ion	Ratio	Lower	Upper
43	100		
45	9.8	7.8	11.8
61	7.6	7.8	11.8#
70	13.8	5.6	8.4#



#26
Hexane
Concen: 0.657 ppbv
RT: 5.65 min Scan# 892
Delta R.T. -0.01 min
Lab File: VL037015.D
Acq: 20 May 2021 6:14

Tgt Ion:	57	Resp:	81095
Ion	Ratio	Lower	Upper
57	100		
41	336.4	70.5	105.7#
43	197.6	165.8	248.8
56	135.1	42.2	63.4#





#27

Carbon Disulfide

Concen: 0.090 ppbv

RT: 4.52 min Scan# 539

Delta R.T. -0.01 min

Lab File: VL037015.D

Acq: 20 May 2021 6:14

Instrument :

MSVOA_L

ClientSampleId :

KSV-10

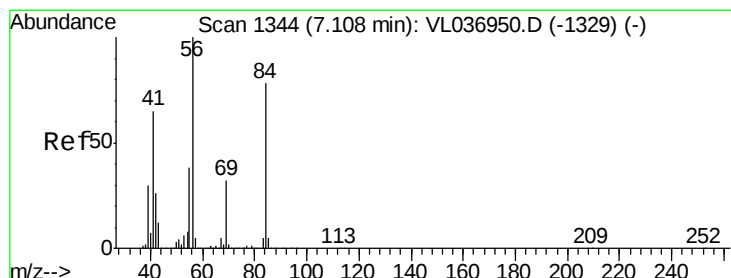
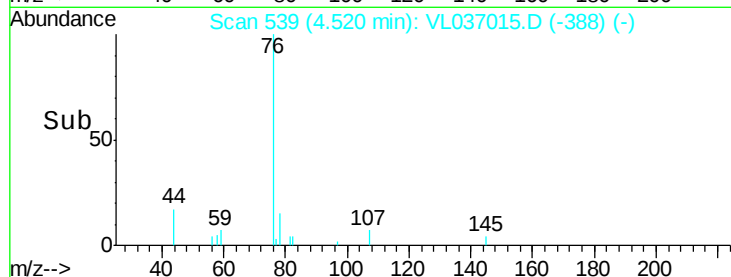
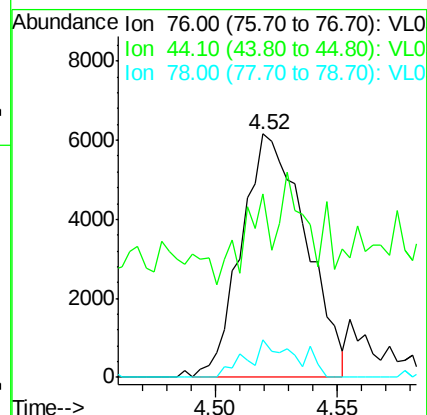
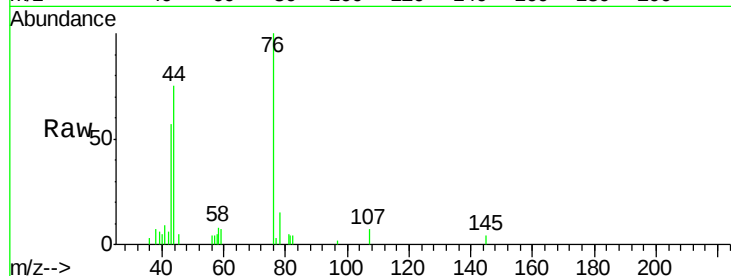
Tgt Ion: 76 Resp: 11240

Ion Ratio Lower Upper

76 100

44 34.3 15.5 23.3#

78 11.5 7.8 11.6



#30

Cyclohexane

Concen: 0.449 ppbv

RT: 7.10 min Scan# 1341

Delta R.T. -0.01 min

Lab File: VL037015.D

Acq: 20 May 2021 6:14

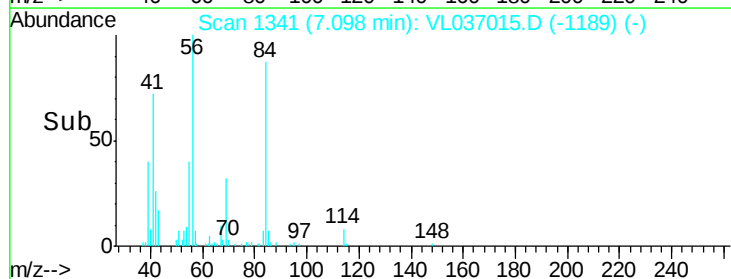
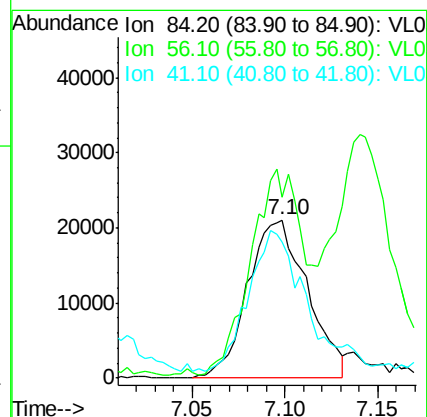
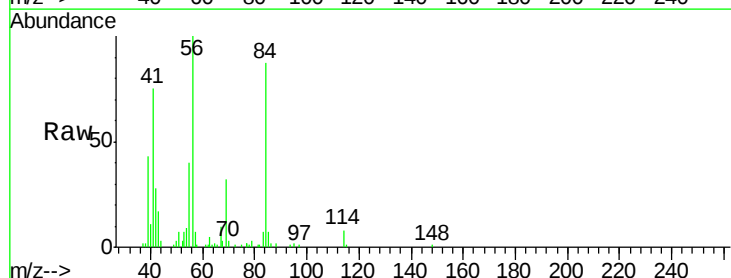
Tgt Ion: 84 Resp: 47072

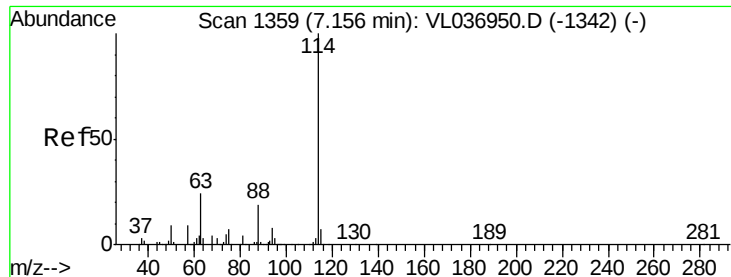
Ion Ratio Lower Upper

84 100

56 120.1 107.9 161.9

41 87.9 65.5 98.3

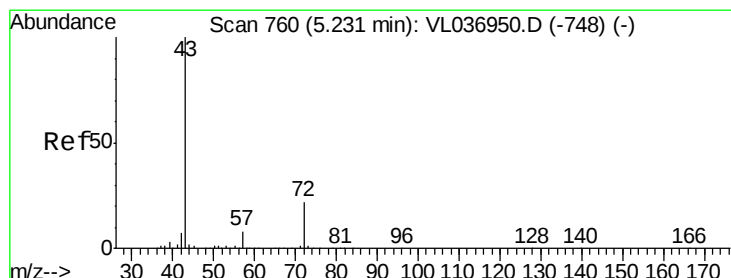
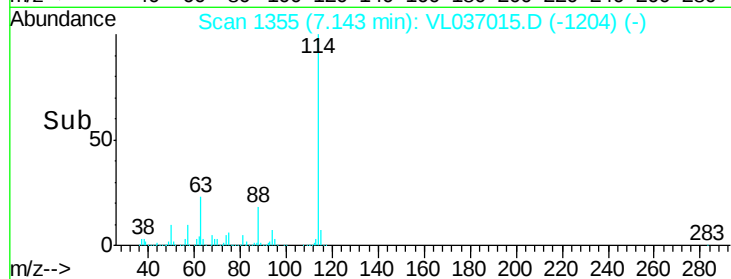
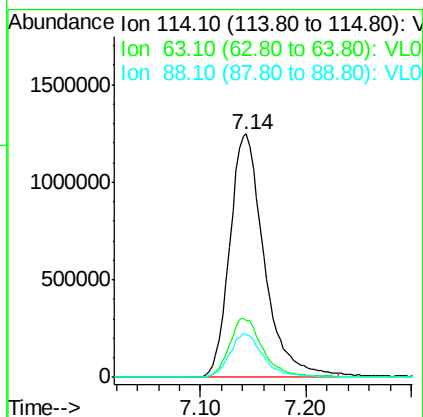
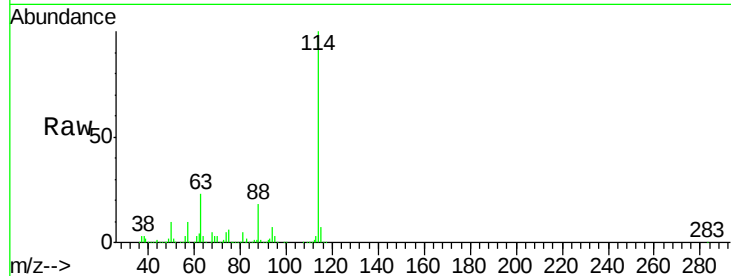




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.14 min Scan# 1355
 Delta R.T. -0.01 min
 Lab File: VL037015.D
 Acq: 20 May 2021 6:14

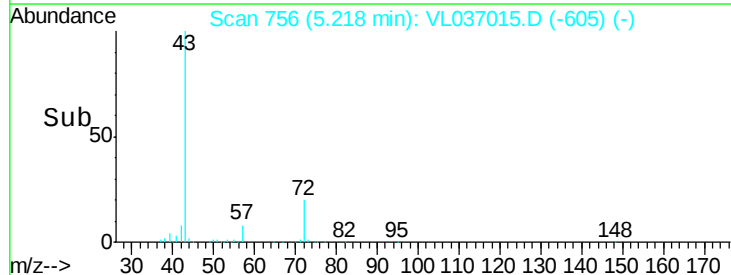
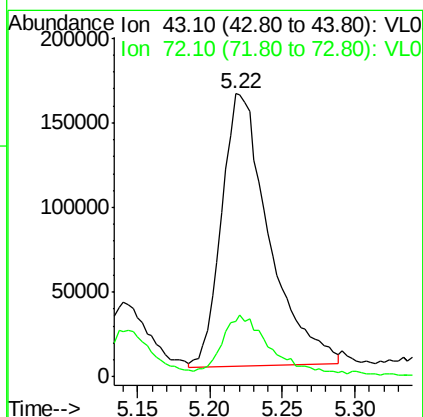
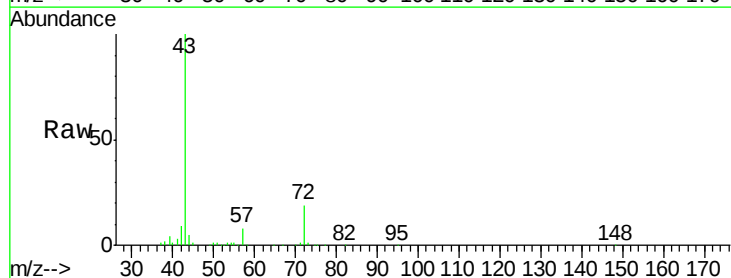
Instrument :
 MSVOA_L
 ClientSampleId :
 KSV-10

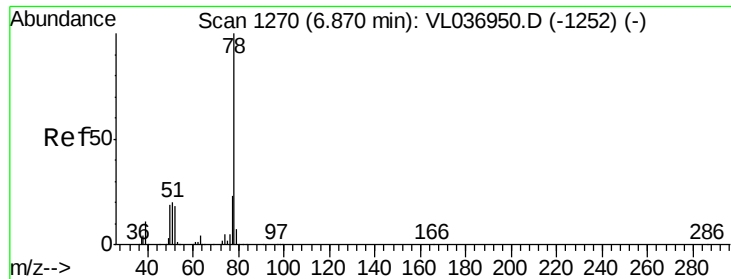
Tgt Ion: 114 Resp: 2816125
 Ion Ratio Lower Upper
 114 100
 63 24.3 19.6 29.4
 88 17.8 14.6 21.8



#34
 2-Butanone
 Concen: 3.564 ppbv
 RT: 5.22 min Scan# 756
 Delta R.T. -0.01 min
 Lab File: VL037015.D
 Acq: 20 May 2021 6:14

Tgt Ion: 43 Resp: 365461
 Ion Ratio Lower Upper
 43 100
 72 26.3 19.0 28.4





#36

Benzene

Concen: 0.150 ppbv

RT: 6.85 min Scan# 1265

Delta R.T. -0.02 min

Lab File: VL037015.D

Acq: 20 May 2021 6:14

Instrument :

MSVOA_L

ClientSampleId :

KSV-10

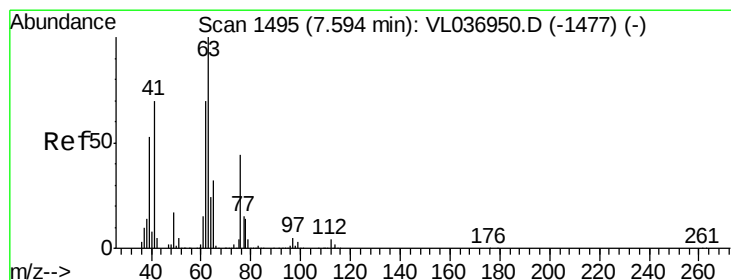
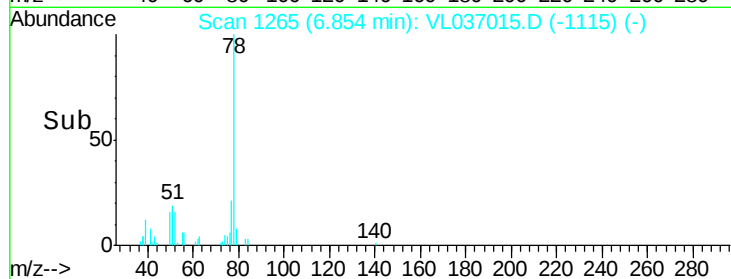
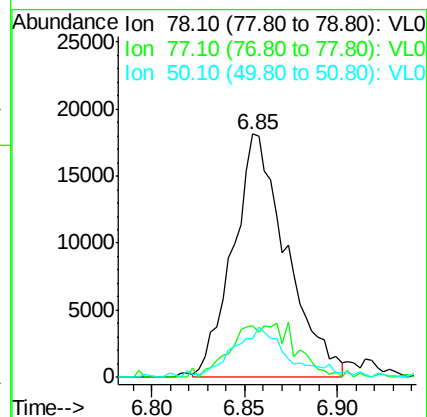
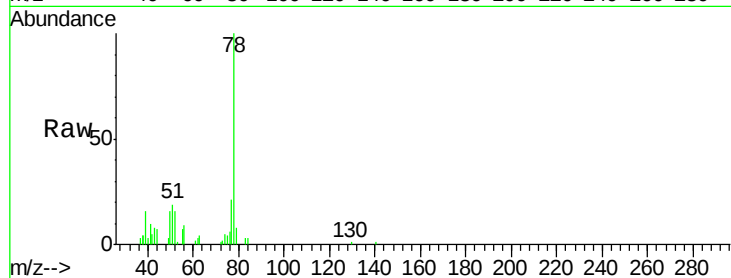
Tgt Ion: 78 Resp: 36417

Ion Ratio Lower Upper

78 100

77 21.6 18.6 28.0

50 15.0 15.0 22.4



#39

1,2-Dichloropropane

Concen: 0.072 ppbv

RT: 7.21 min Scan# 1376

Delta R.T. -0.38 min

Lab File: VL037015.D

Acq: 20 May 2021 6:14

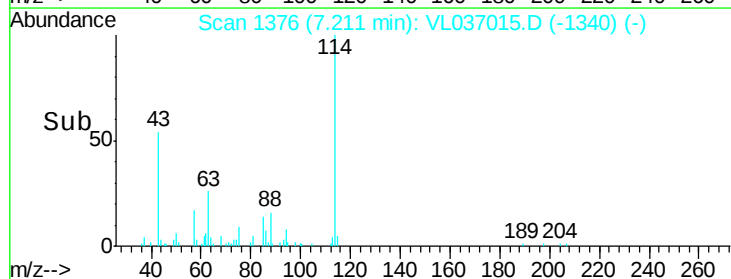
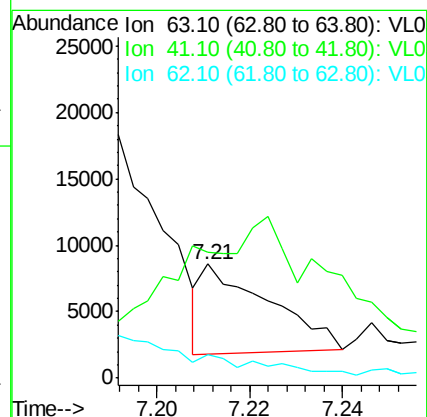
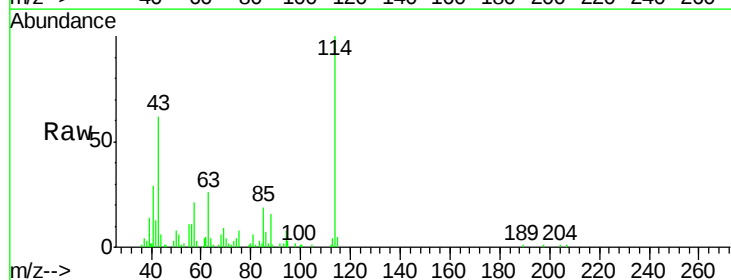
Tgt Ion: 63 Resp: 6692

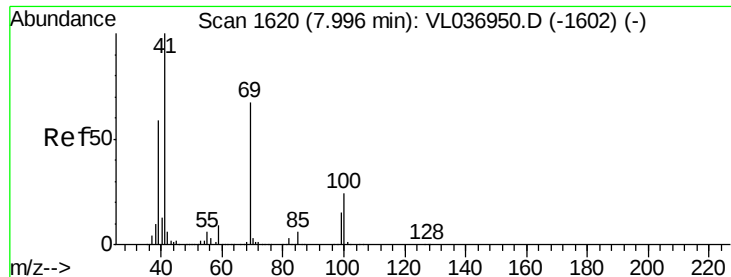
Ion Ratio Lower Upper

63 100

41 27.0 55.7 83.5#

62 18.9 56.2 84.4#





#43

Methyl Methacrylate

Concen: 0.114 ppbv

RT: 8.02 min Scan# 1629

Delta R.T. 0.03 min

Lab File: VL037015.D

Acq: 20 May 2021 6:14

Instrument :

MSVOA_L

ClientSampleId :

KSV-10

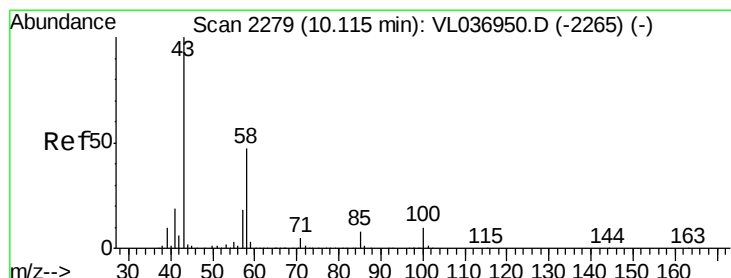
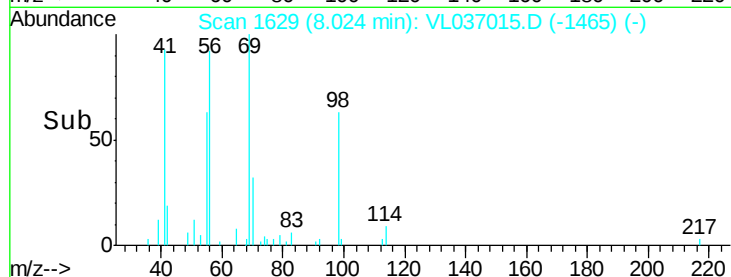
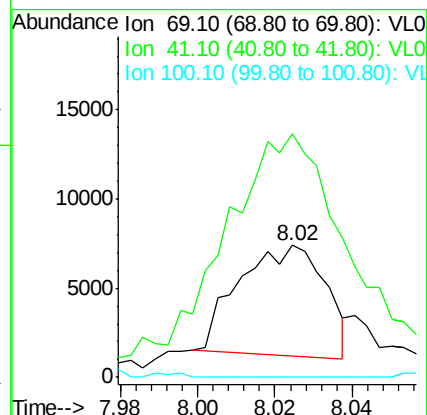
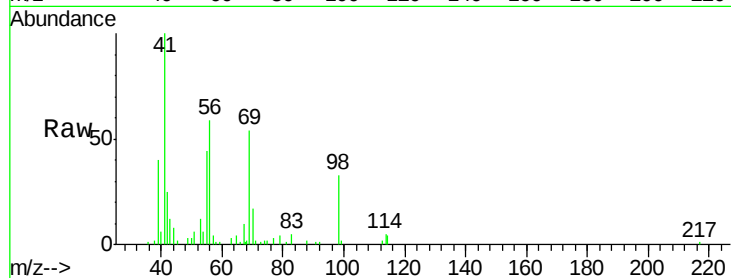
Tgt Ion: 69 Resp: 9528

Ion Ratio Lower Upper

69 100

41 307.5 118.6 178.0#

100 3.8 28.2 42.4#



#51

2-Hexanone

Concen: 0.276 ppbv

RT: 10.12 min Scan# 2282

Delta R.T. 0.01 min

Lab File: VL037015.D

Acq: 20 May 2021 6:14

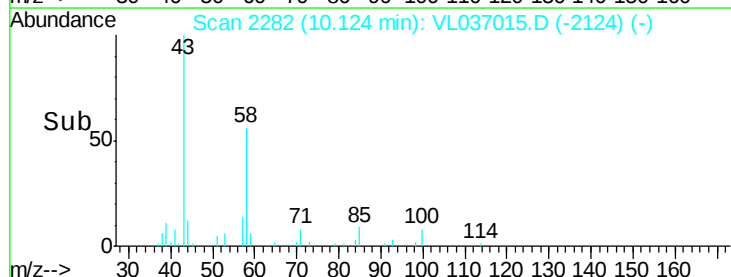
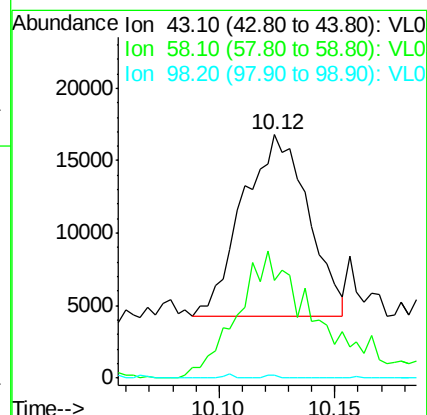
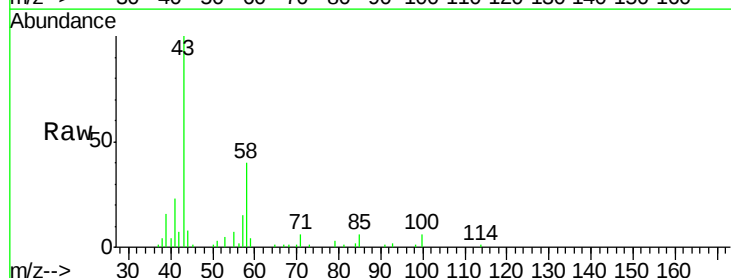
Tgt Ion: 43 Resp: 24706

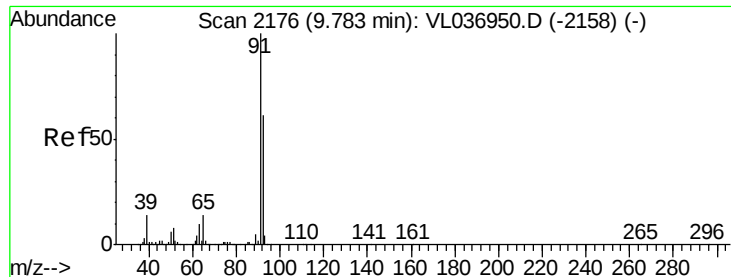
Ion Ratio Lower Upper

43 100

58 92.1 41.1 61.7#

98 0.0 0.1 0.1#





#53

Toluene

Concen: 0.206 ppbv

RT: 9.77 min Scan# 2171

Delta R.T. -0.02 min

Lab File: VL037015.D

Acq: 20 May 2021 6:14

Instrument :

MSVOA_L

ClientSampled :

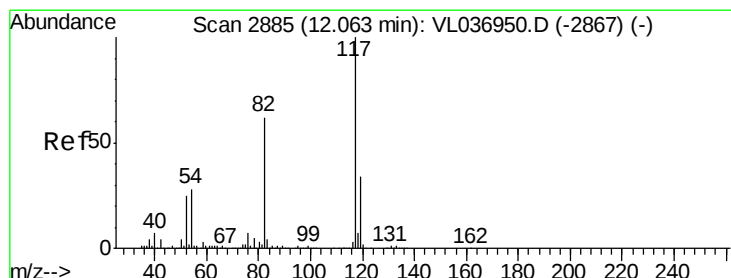
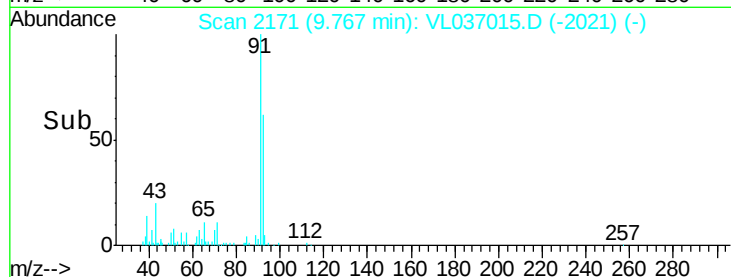
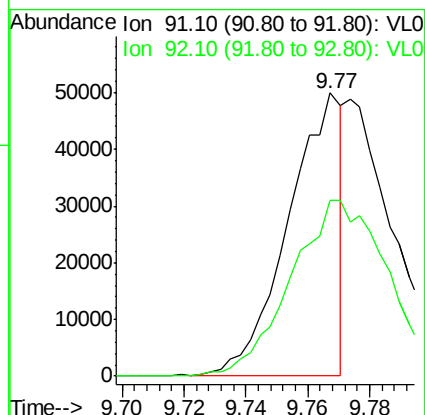
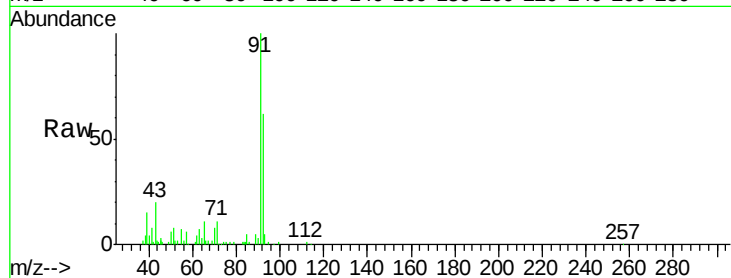
KSV-10

Tgt Ion: 91 Resp: 59546

Ion Ratio Lower Upper

91 100

92 0.0 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: VL037015.D

Acq: 20 May 2021 6:14

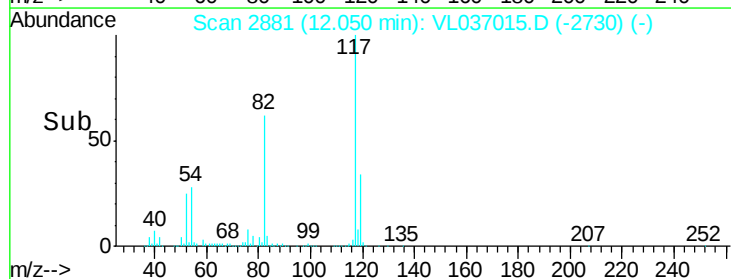
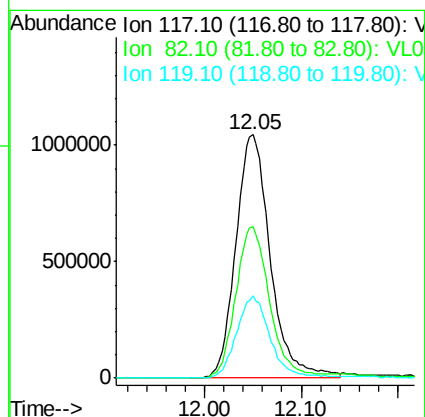
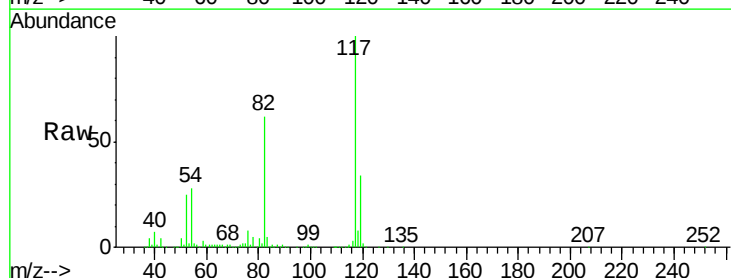
Tgt Ion: 117 Resp: 2592187

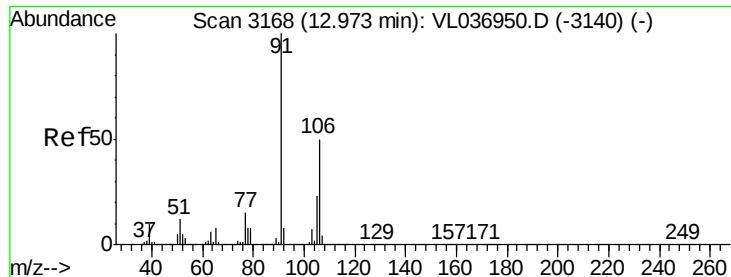
Ion Ratio Lower Upper

117 100

82 64.4 52.6 79.0

119 33.7 46.6 70.0#

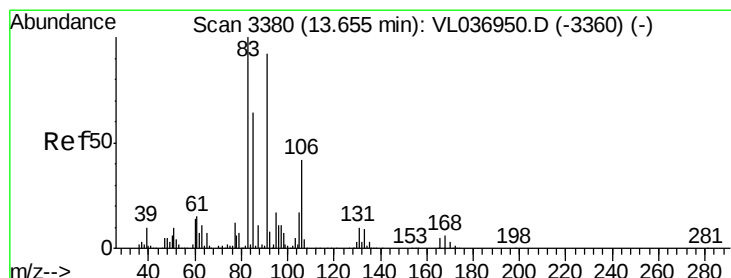
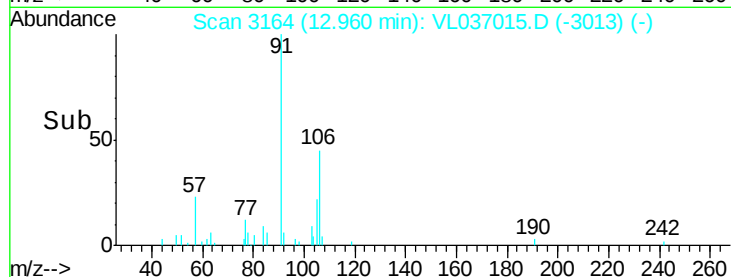
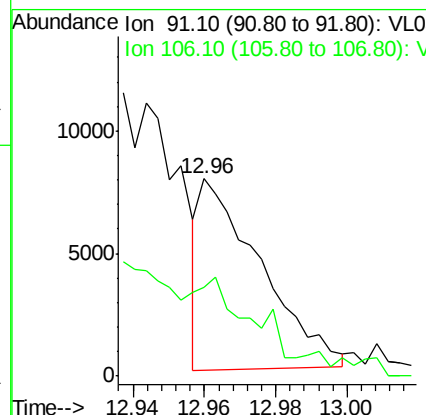
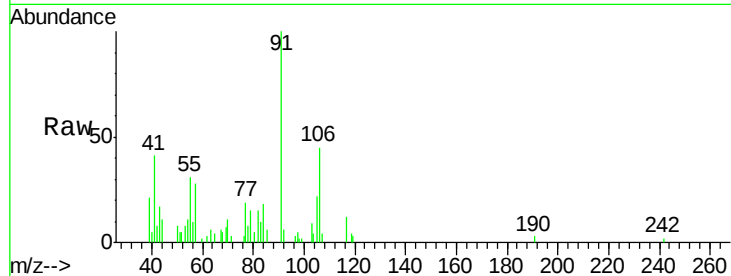




#59
m/p-Xylene
Concen: 0.031 ppbv
RT: 12.96 min Scan# 3164
Delta R.T. -0.01 min
Lab File: VL037015.D
Acq: 20 May 2021 6:14

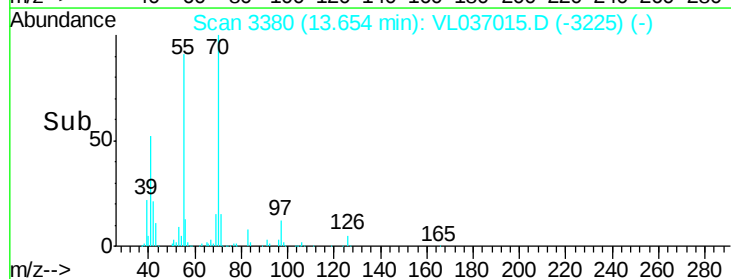
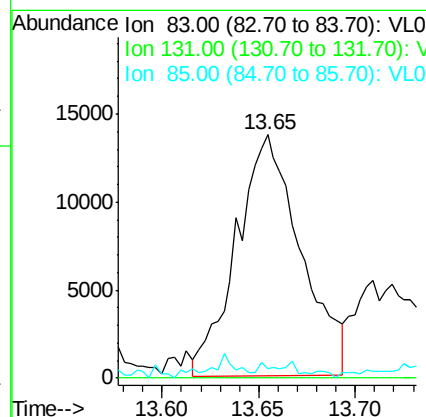
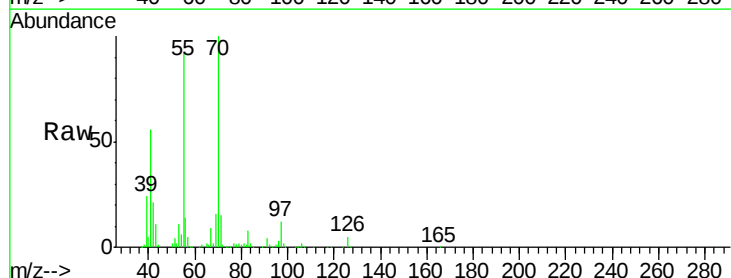
Instrument :
MSVOA_L
ClientSampleId :
KSV-10

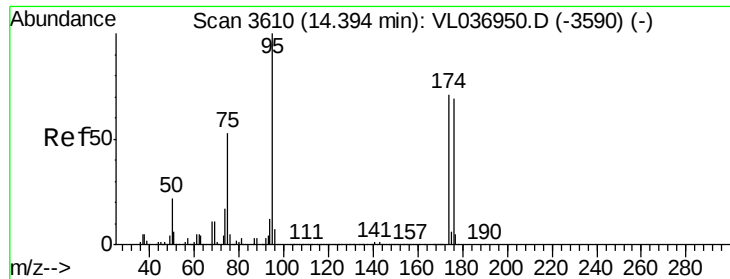
Tgt Ion: 91 Resp: 9237
Ion Ratio Lower Upper
91 100
106 0.0 37.4 56.2#



#63
1,1,2,2-Tetrachloroethane
Concen: 0.147 ppbv
RT: 13.65 min Scan# 3380
Delta R.T. -0.00 min
Lab File: VL037015.D
Acq: 20 May 2021 6:14

Tgt Ion: 83 Resp: 31645
Ion Ratio Lower Upper
83 100
131 0.0 5.0 15.0#
85 0.0 32.9 98.6#

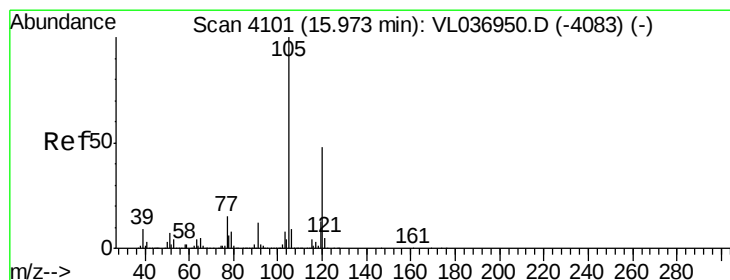
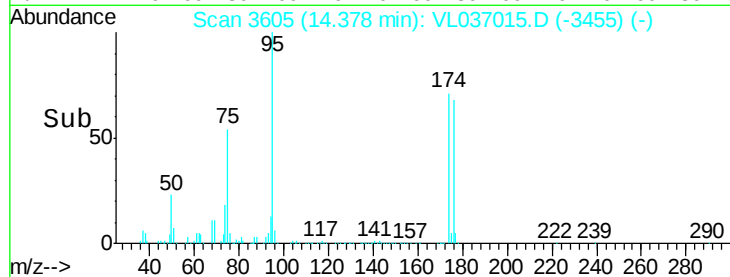
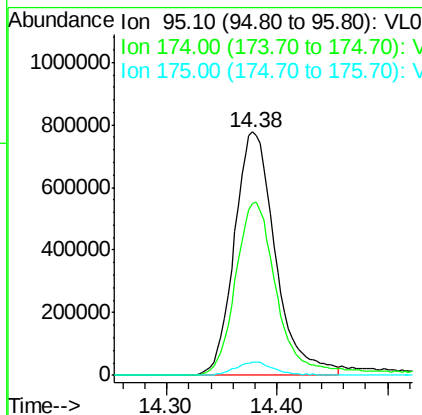
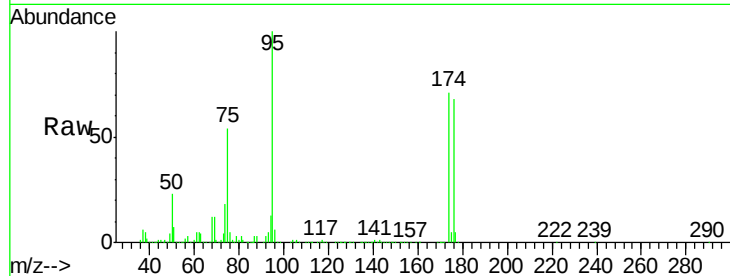




#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.262 ppbv
 RT: 14.38 min Scan# 3605
 Delta R.T. -0.02 min
 Lab File: VL037015.D
 Acq: 20 May 2021 6:14

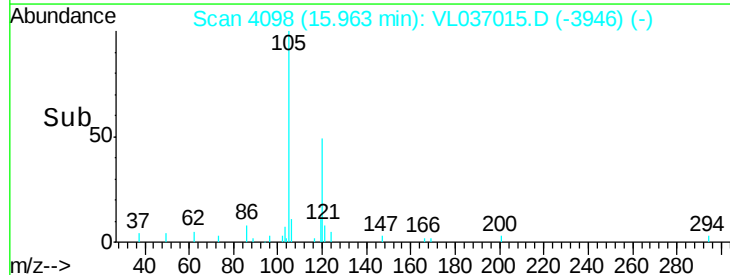
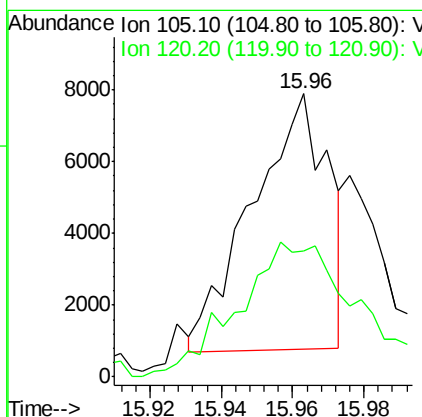
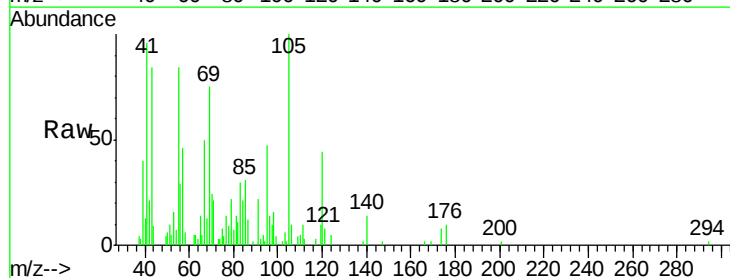
Instrument :
 MSVOA_L
 ClientSampleId :
 KSV-10

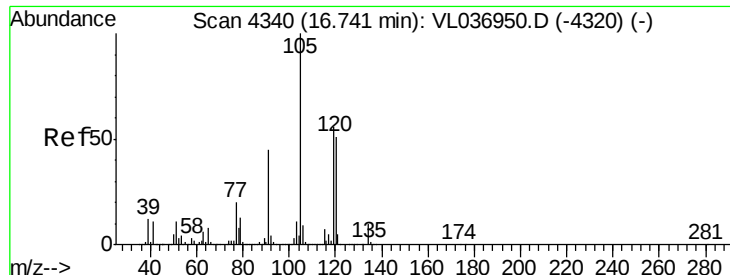
Tgt Ion: 95 Resp: 1998307
 Ion Ratio Lower Upper
 95 100
 174 74.8 58.4 87.6
 175 5.4 4.4 6.6



#73
 1,3,5-Trimethylbenzene
 Concen: 0.033 ppbv
 RT: 15.96 min Scan# 4098
 Delta R.T. -0.01 min
 Lab File: VL037015.D
 Acq: 20 May 2021 6:14

Tgt Ion: 105 Resp: 10558
 Ion Ratio Lower Upper
 105 100
 120 40.7 38.6 58.0





#74

1,2,4-Trimethylbenzene

Concen: 0.081 ppbv

RT: 16.73 min Scan# 4335

Delta R.T. -0.02 min

Lab File: VL037015.D

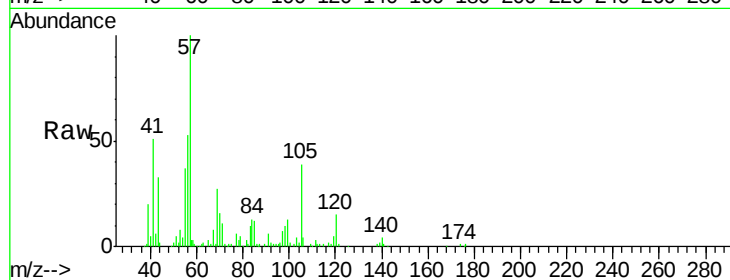
Acq: 20 May 2021 6:14

Instrument :

MSVOA_L

ClientSampleId :

KSV-10



Tgt Ion:105 Resp: 27051

Ion Ratio Lower Upper

105 100

120 38.1 40.6 61.0#

91 8.9 37.4 56.0#

77 0.9 16.2 24.4#

Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

