

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL051921\
 Data File : VL037009.D
 Acq On : 20 May 2021 2:26
 Operator : SY/AP
 Sample : M2424-14DL 10X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 KSS-01DL

Quant Time: May 20 06:35:22 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	1022705	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.15	114	3070753	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.05	117	2751801	10.00	ppbv	0.00

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1-Bromo-4-Fluorobenzene	14.38	95	2037811	9.86	ppbv	-0.01	
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.60%	

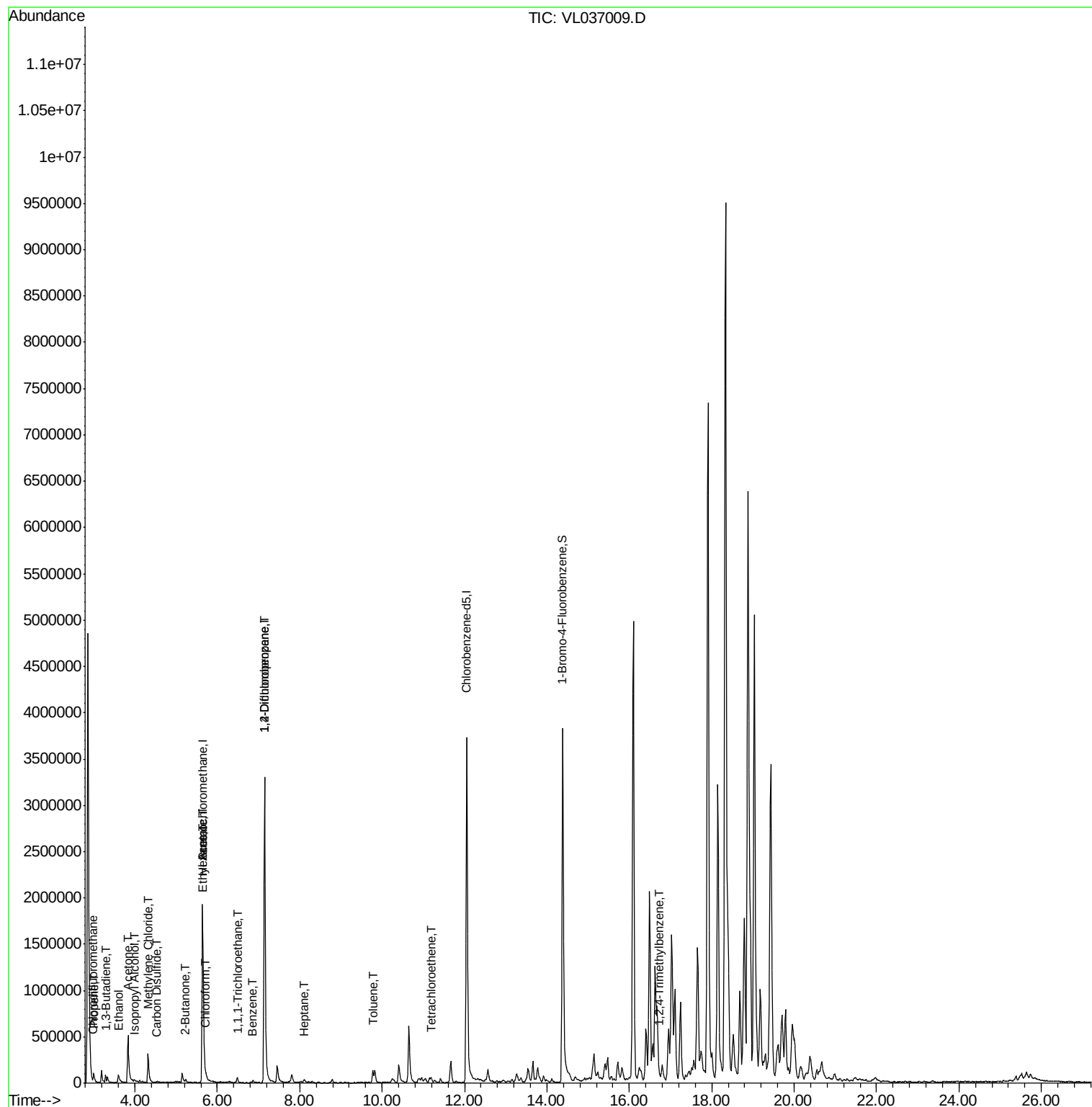
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chlorodifluoromethane	2.97	51	7151	0.038	ppbv #	87
9) Propene	3.00	41	31557	0.470	ppbv	84
10) Heptane	8.09	43	5183	0.031	ppbv #	48
13) Ethanol	3.60	45	127248	14.215	ppbv	97
15) Acetone	3.83	43	712622	6.803	ppbv	98
16) 1,3-Butadiene	3.29	39	24147	0.371	ppbv #	19
19) Isopropyl Alcohol	3.98	45	4084	0.073	ppbv #	30
20) Methylene Chloride	4.32	84	126513	2.253	ppbv	99
25) Ethyl Acetate	5.66	43	85448	0.339	ppbv #	84
26) Hexane	5.66	57	123246	0.958	ppbv #	43
27) Carbon Disulfide	4.52	76	8476	0.065	ppbv #	73
29) Chloroform	5.73	83	14075	0.077	ppbv	98
32) 1,1,1-Trichloroethane	6.48	97	35759	0.183	ppbv	93
34) 2-Butanone	5.23	43	19619	0.175	ppbv #	52
36) Benzene	6.86	78	15994	0.060	ppbv #	86
39) 1,2-Dichloropropane	7.15	63	730334	7.168	ppbv #	26
52) Tetrachloroethene	11.19	164	7924	0.075	ppbv	90
53) Toluene	9.77	91	107996	0.343	ppbv	98
74) 1,2,4-Trimethylbenzene	16.73	105	15008	0.043	ppbv #	60

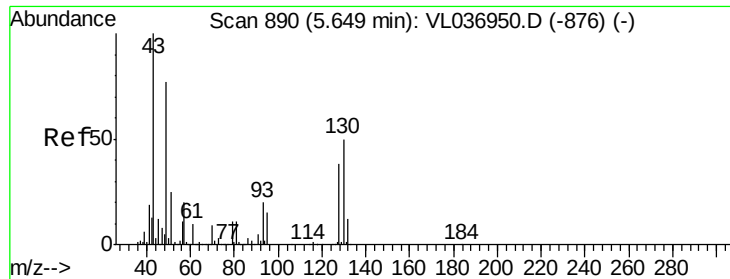
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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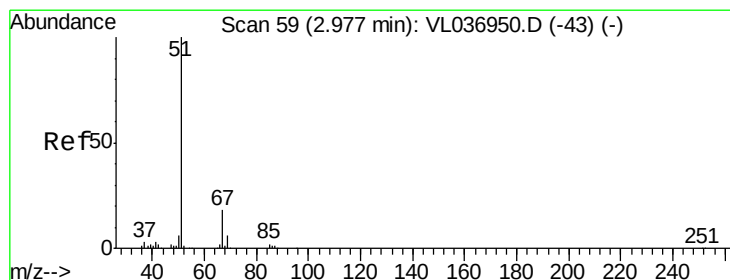
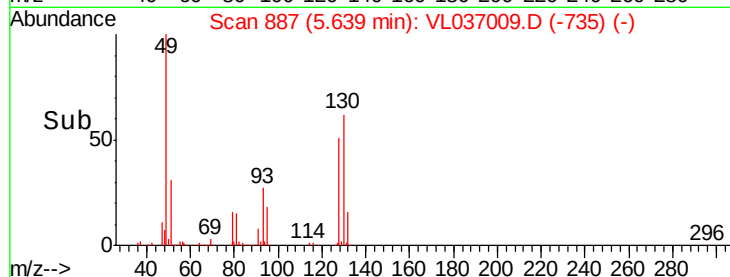
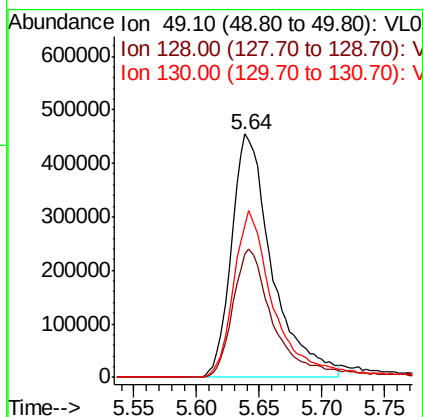
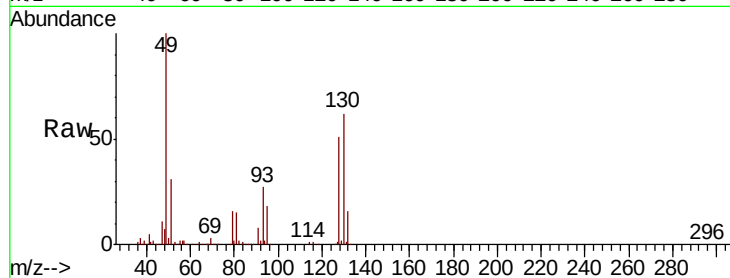




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.64 min Scan# 887
 Delta R.T. -0.01 min
 Lab File: VL037009.D
 Acq: 20 May 2021 2:26

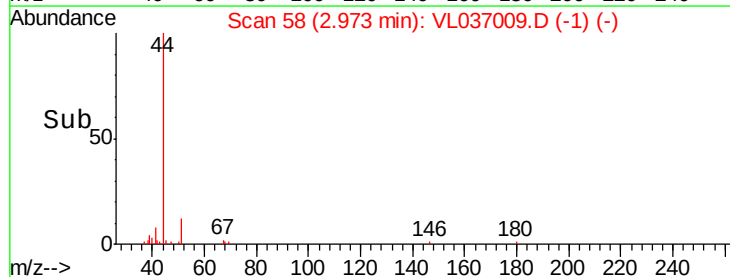
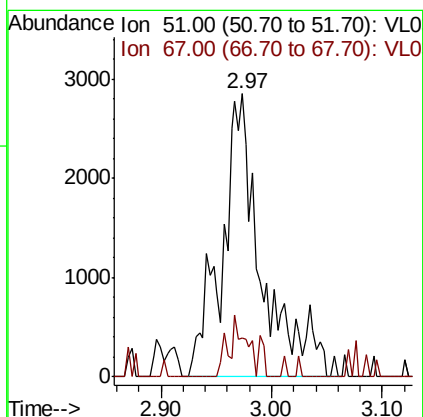
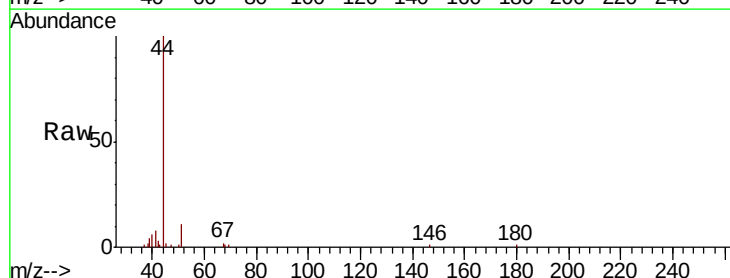
Instrument :
 MSVOA_L
 ClientSampleID :
 KSS-01DL

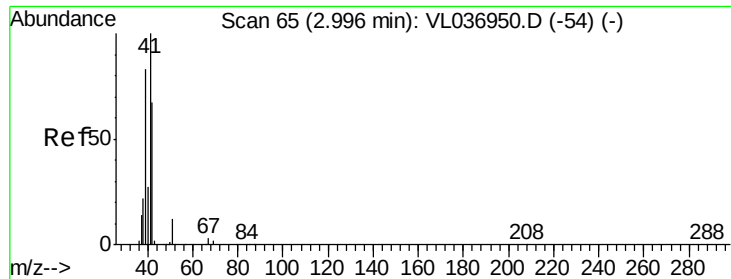
Tot Ion: 49 Resp: 1022705
 Ion Ratio Lower Upper
 49 100
 128 55.6 26.9 80.7
 130 69.6 33.8 101.4



#3
 Chlorodifluoromethane
 Concen: 0.038 ppbv
 RT: 2.97 min Scan# 58
 Delta R.T. -0.00 min
 Lab File: VL037009.D
 Acq: 20 May 2021 2:26

Tgt Ion: 51 Resp: 7151
 Ion Ratio Lower Upper
 51 100
 67 12.3 14.6 21.8#





#9

Propene

Concen: 0.470 ppbv

RT: 3.00 min Scan# 65

Delta R.T. -0.00 min

Lab File: VL037009.D

Acq: 20 May 2021 2:26

Instrument :

MSVOA_L

ClientSampleId :

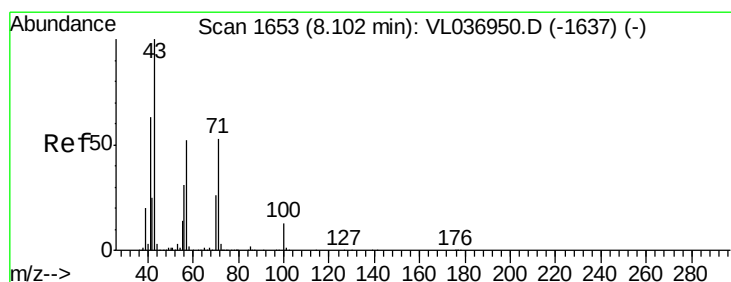
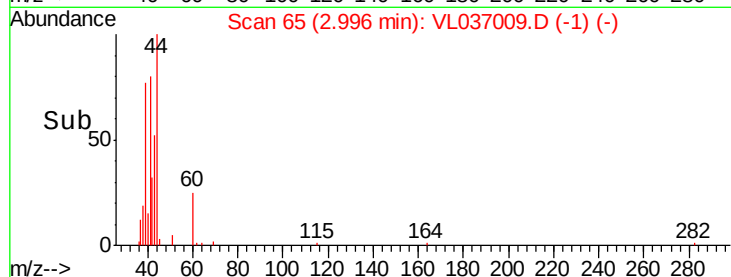
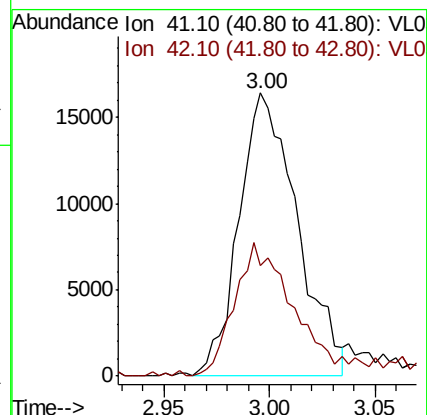
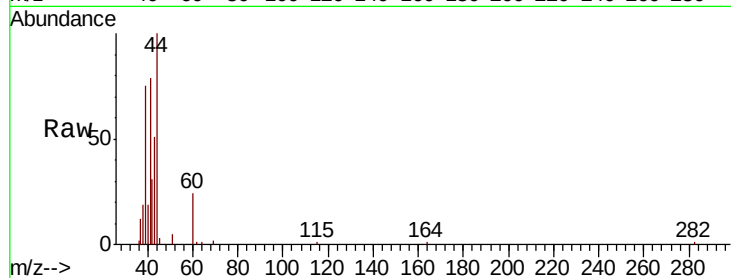
KSS-01DL

Tot Ion: 41 Resp: 31557

Ion Ratio Lower Upper

41 100

42 54.3 53.9 80.9



#10

Heptane

Concen: 0.031 ppbv

RT: 8.09 min Scan# 1649

Delta R.T. -0.01 min

Lab File: VL037009.D

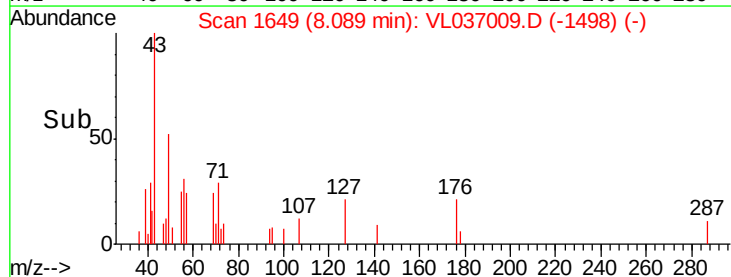
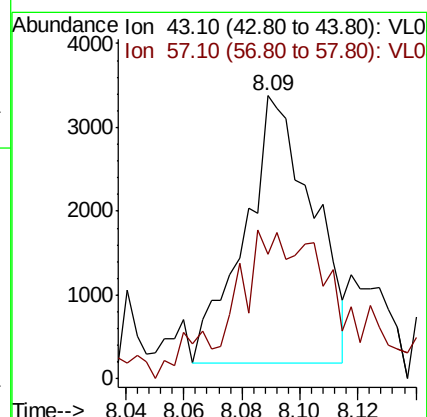
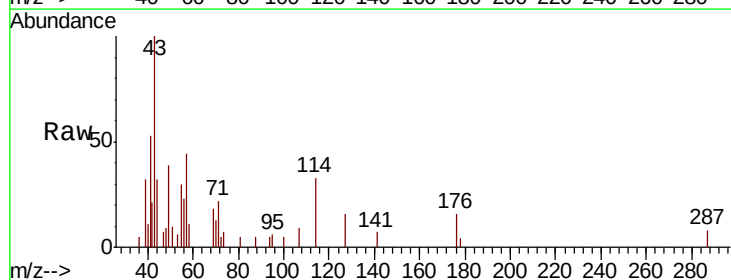
Acq: 20 May 2021 2:26

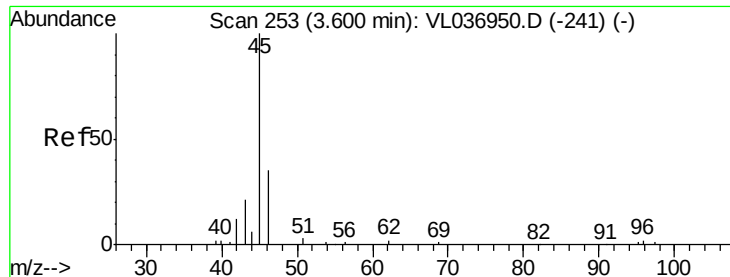
Tgt Ion: 43 Resp: 5183

Ion Ratio Lower Upper

43 100

57 87.8 41.0 61.6#





#13

Ethanol

Concen: 14.215 ppbv

RT: 3.60 min Scan# 252

Delta R.T. -0.00 min

Lab File: VL037009.D

Acq: 20 May 2021 2:26

Instrument :

MSVOA_L

ClientSampleId :

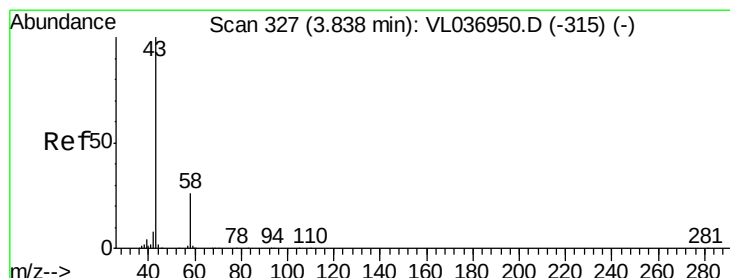
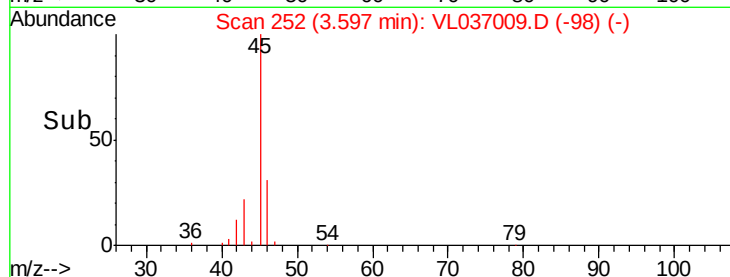
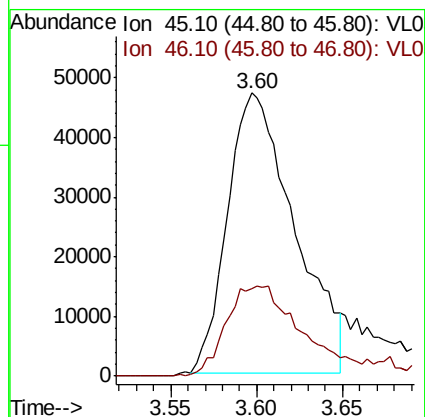
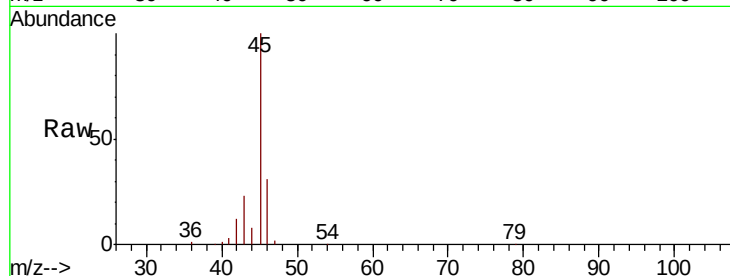
KSS-01DL

Tot Ion: 45 Resp: 127248

Ion Ratio Lower Upper

45 100

46 42.6 16.3 65.3



#15

Acetone

Concen: 6.803 ppbv

RT: 3.83 min Scan# 325

Delta R.T. -0.01 min

Lab File: VL037009.D

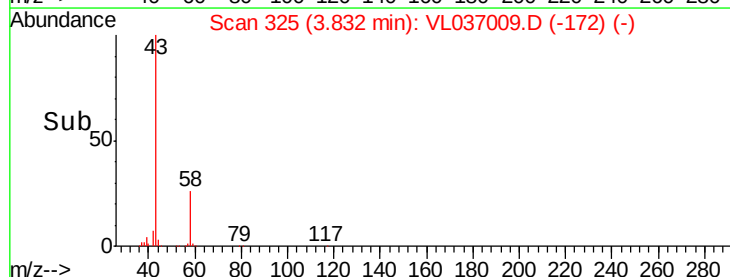
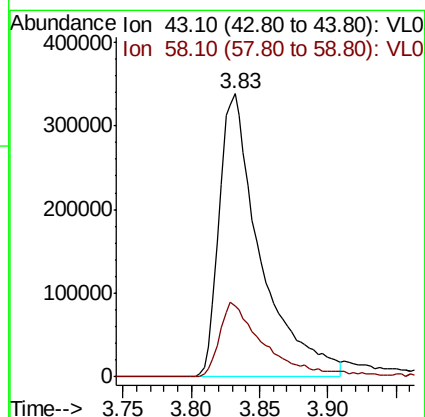
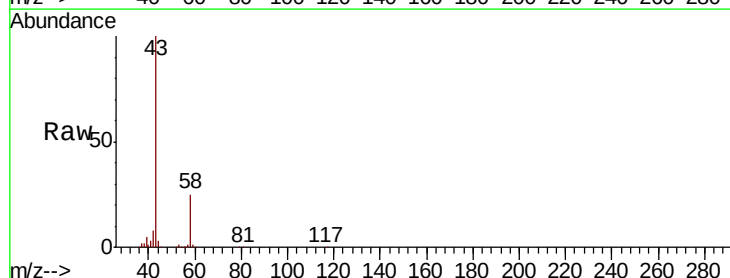
Acq: 20 May 2021 2:26

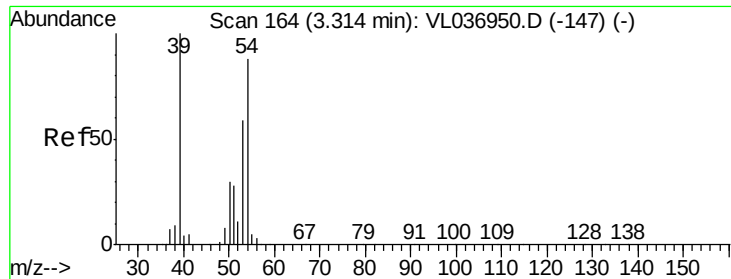
Tgt Ion: 43 Resp: 712622

Ion Ratio Lower Upper

43 100

58 29.0 24.0 36.0





#16

1,3-Butadiene

Concen: 0.371 ppbv

RT: 3.29 min Scan# 156

Delta R.T. -0.03 min

Lab File: VL037009.D

Acq: 20 May 2021 2:26

Instrument :

MSVOA_L

ClientSampleId :

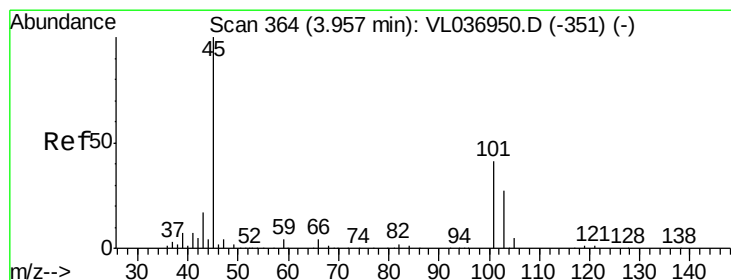
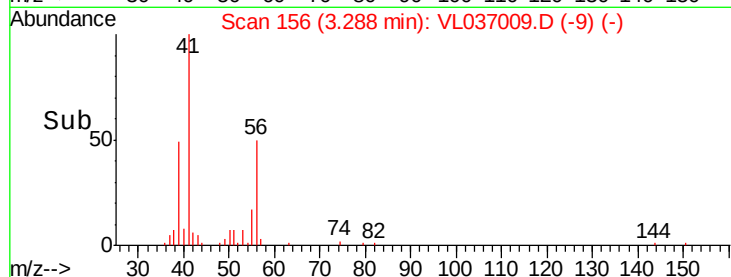
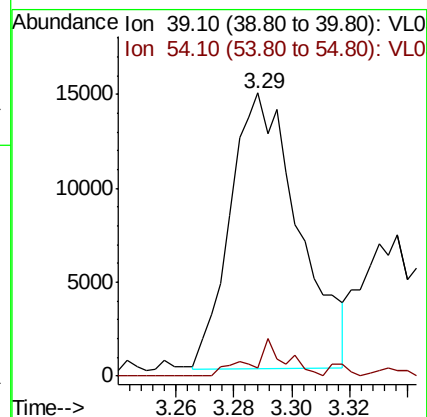
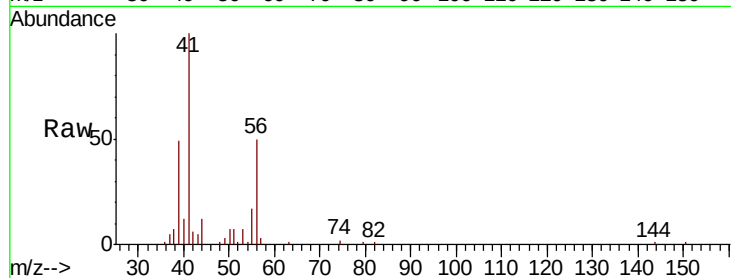
KSS-01DL

Tot Ion: 39 Resp: 24147

Ion Ratio Lower Upper

39 100

54 7.8 63.2 94.8#



#19

Isopropyl Alcohol

Concen: 0.073 ppbv

RT: 3.98 min Scan# 370

Delta R.T. 0.02 min

Lab File: VL037009.D

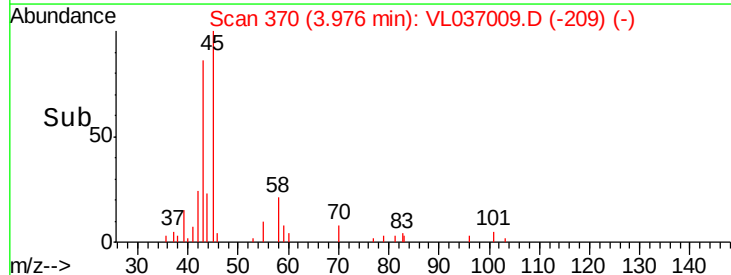
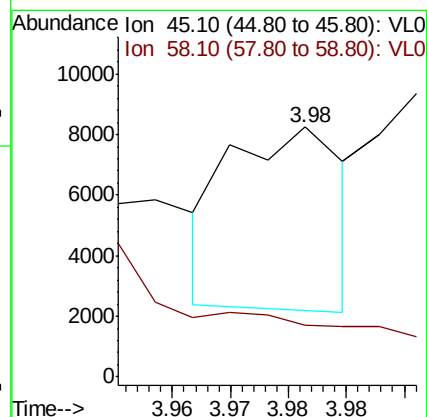
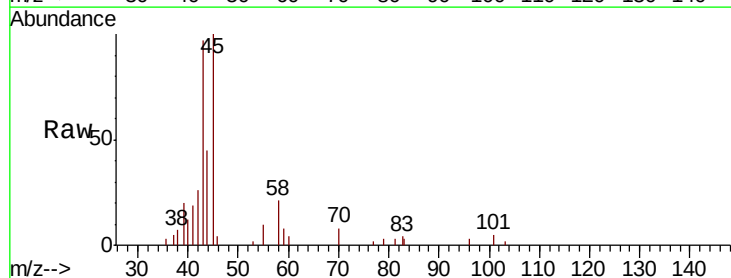
Acq: 20 May 2021 2:26

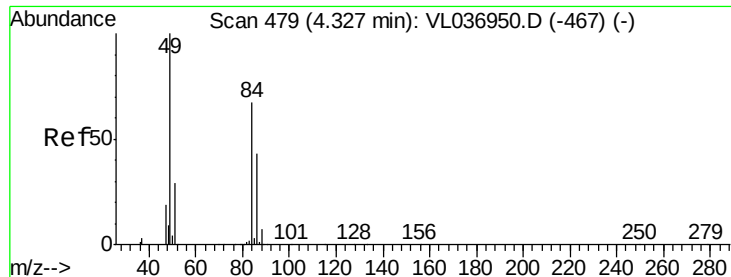
Tgt Ion: 45 Resp: 4084

Ion Ratio Lower Upper

45 100

58 0.0 37.2 55.8#

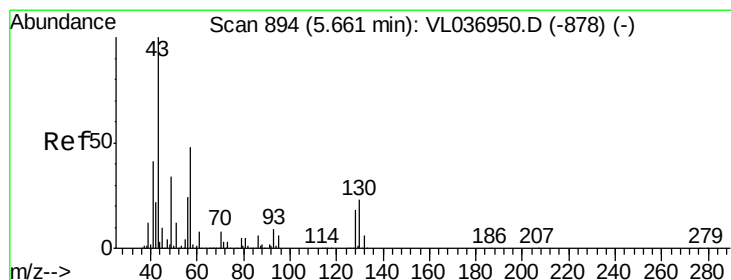
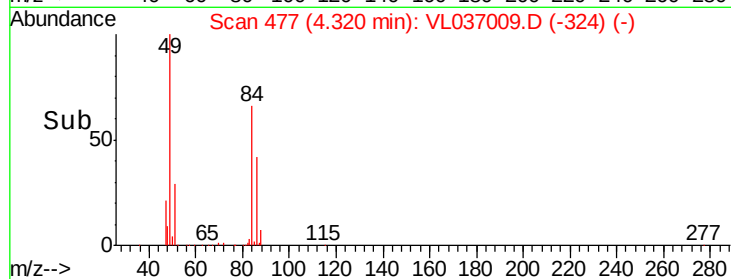
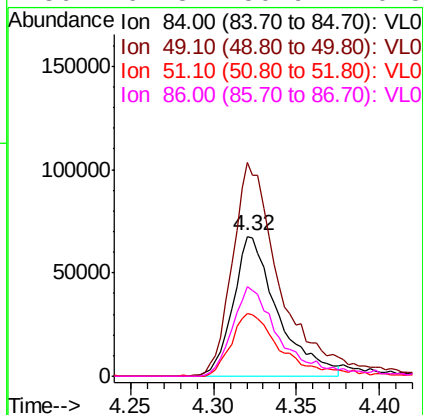
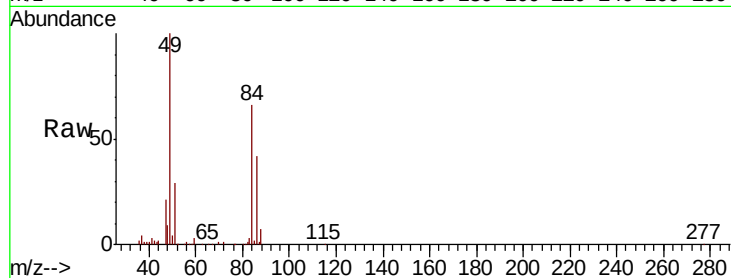




#20
Methylene Chloride
Concen: 2.253 ppbv
RT: 4.32 min Scan# 477
Delta R.T. -0.01 min
Lab File: VL037009.D
Acq: 20 May 2021 2:26

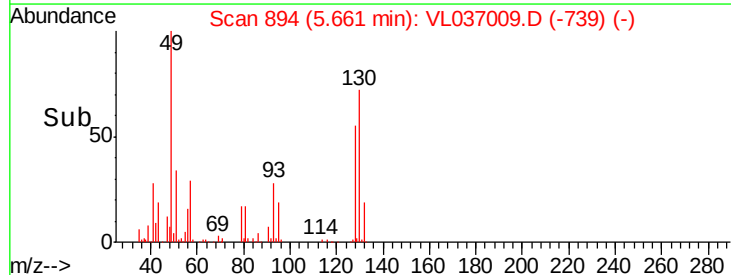
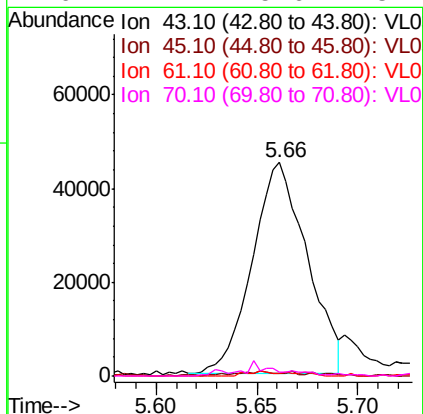
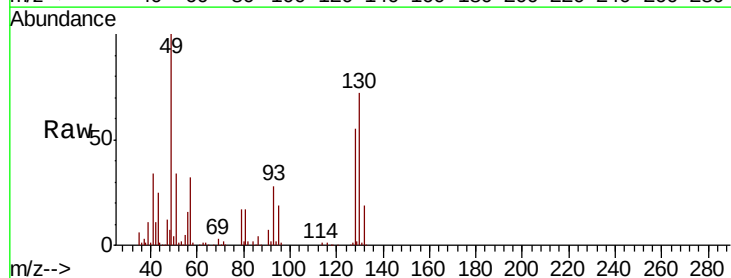
Instrument :
MSVOA_L
ClientSampleId :
KSS-01DL

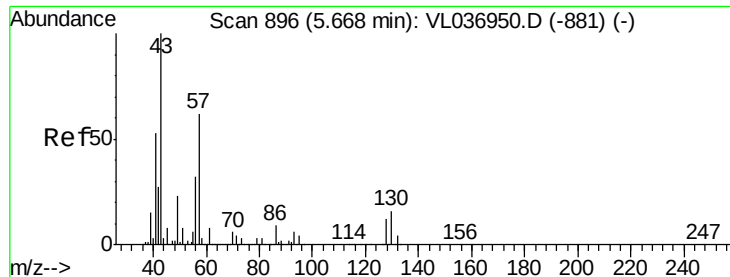
Tot Ion:	84	Resp:	126513
Ion	Ratio	Lower	Upper
84	100		
49	152.2	119.8	179.6
51	44.1	35.1	52.7
86	64.3	50.9	76.3



#25
Ethyl Acetate
Concen: 0.339 ppbv
RT: 5.66 min Scan# 894
Delta R.T. -0.00 min
Lab File: VL037009.D
Acq: 20 May 2021 2:26

Tgt Ion:	43	Resp:	85448
Ion	Ratio	Lower	Upper
43	100		
45	3.0	7.8	11.8#
61	2.0	7.8	11.8#
70	4.7	5.6	8.4#





#26

Hexane

Concen: 0.958 ppbv

RT: 5.66 min Scan# 893

Delta R.T. -0.01 min

Lab File: VL037009.D

Acq: 20 May 2021 2:26

Instrument :

MSVOA_L

ClientSampleId :

KSS-01DL

Tot Ion: 57 Resp: 123246

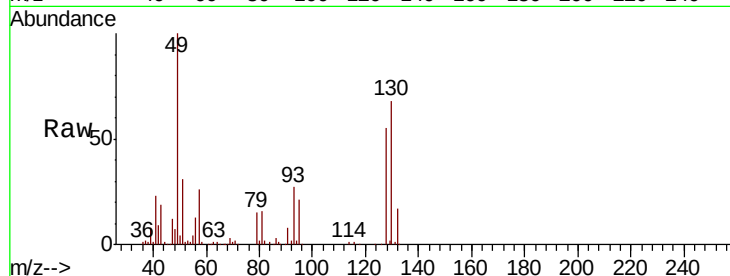
Ion Ratio Lower Upper

57 100

41 113.8 70.5 105.7#

43 79.4 165.8 248.8#

56 58.4 42.2 63.4

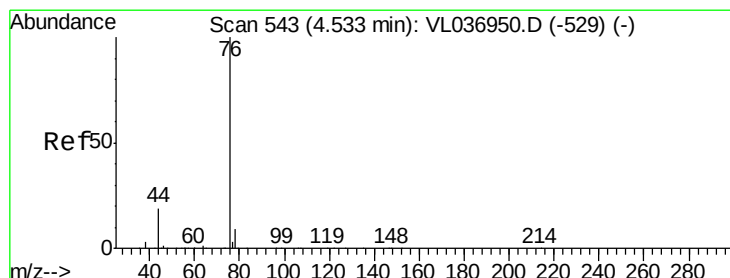
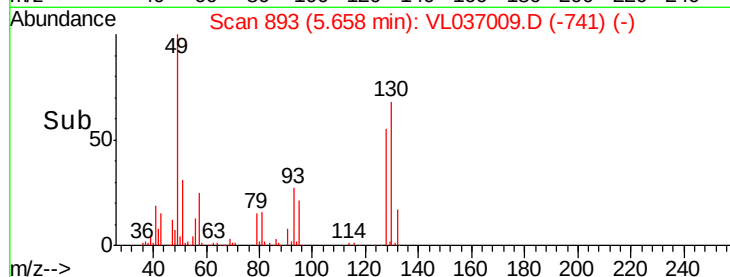
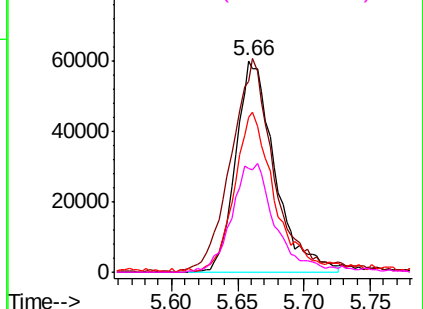


Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0



#27

Carbon Disulfide

Concen: 0.065 ppbv

RT: 4.52 min Scan# 540

Delta R.T. -0.01 min

Lab File: VL037009.D

Acq: 20 May 2021 2:26

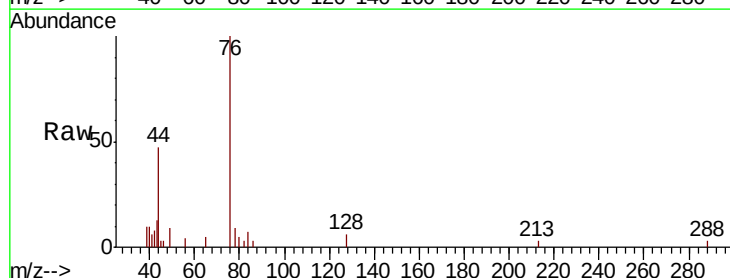
Tgt Ion: 76 Resp: 8476

Ion Ratio Lower Upper

76 100

44 5.3 15.5 23.3#

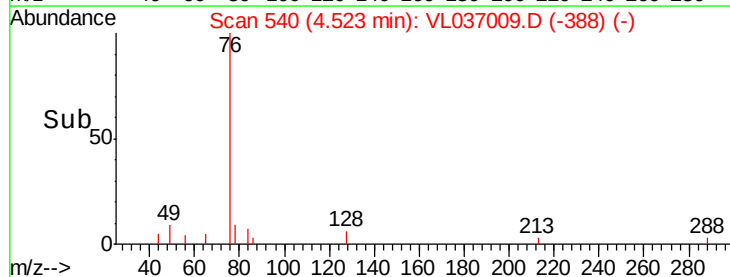
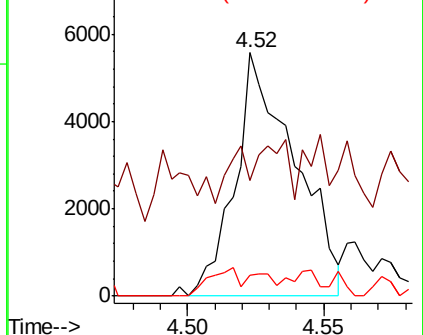
78 16.6 7.8 11.6#

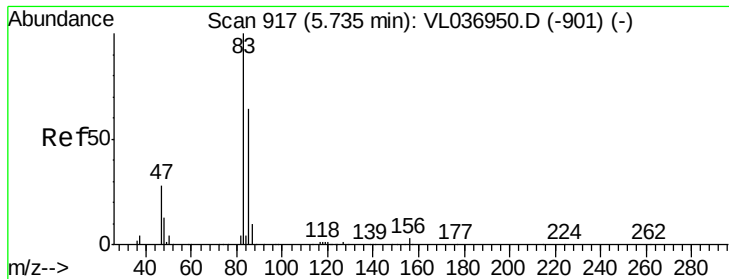


Abundance Ion 76.00 (75.70 to 76.70): VL0

Ion 44.10 (43.80 to 44.80): VL0

Ion 78.00 (77.70 to 78.70): VL0





#29

Chloroform

Concen: 0.077 ppbv

RT: 5.73 min Scan# 914

Delta R.T. -0.01 min

Lab File: VL037009.D

Acq: 20 May 2021 2:26

Instrument :

MSVOA_L

ClientSampleId :

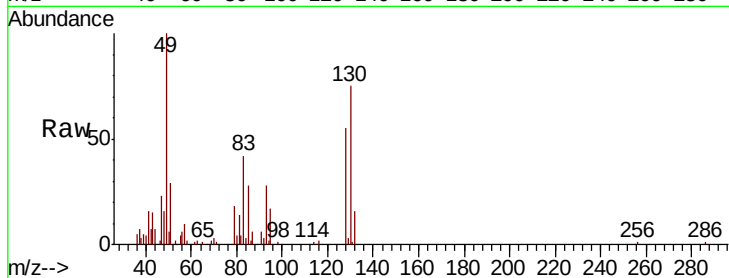
KSS-01DL

Tot Ion: 83 Resp: 14075

Ion Ratio Lower Upper

83 100

85 65.8 51.1 76.7



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

8000

6000

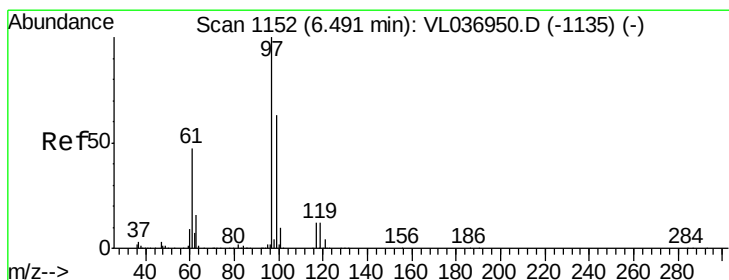
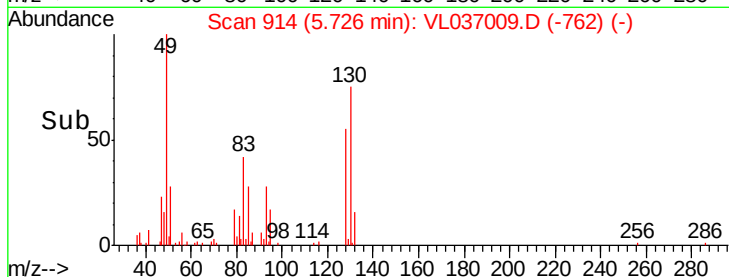
4000

2000

0

5.70 5.75

Time-->



#32

1,1,1-Trichloroethane

Concen: 0.183 ppbv

RT: 6.48 min Scan# 1150

Delta R.T. -0.01 min

Lab File: VL037009.D

Acq: 20 May 2021 2:26

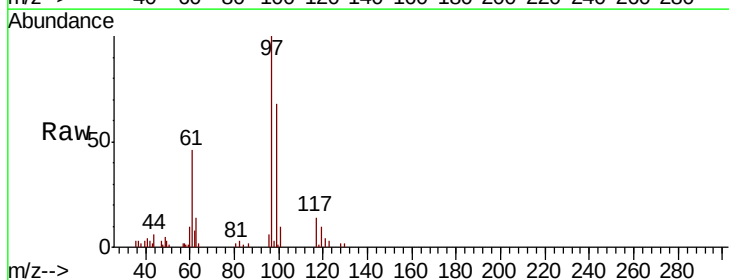
Tgt Ion: 97 Resp: 35759

Ion Ratio Lower Upper

97 100

99 70.3 51.9 77.9

61 52.3 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

20000

15000

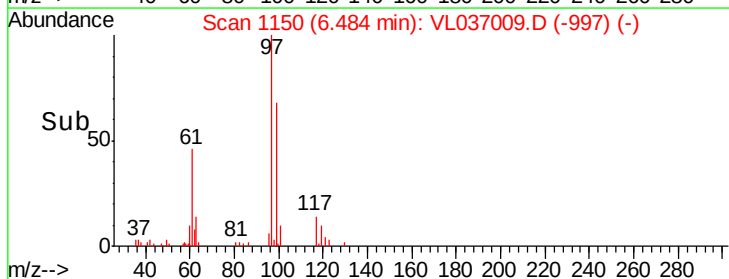
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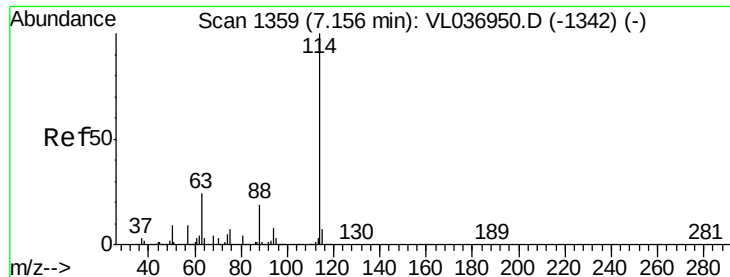
5000

0

6.40 6.45 6.50 6.55

Time-->

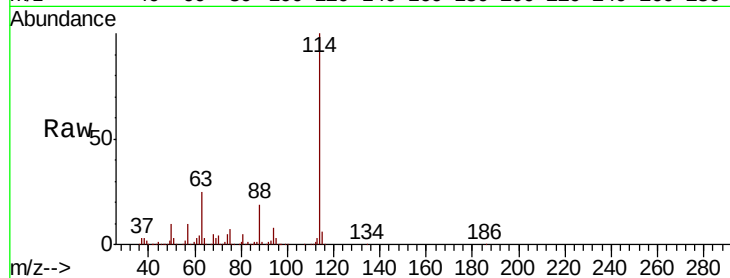




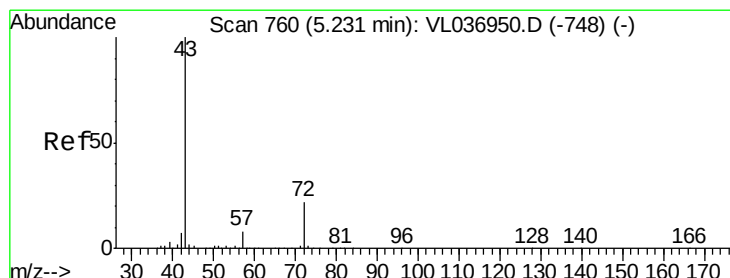
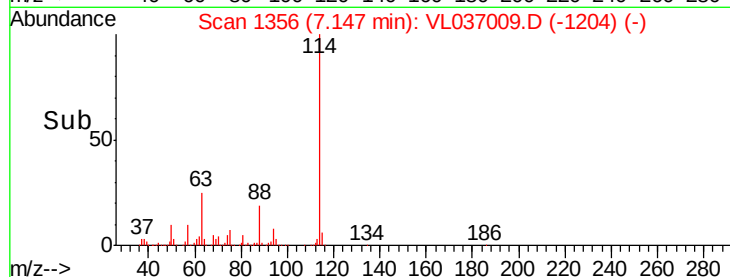
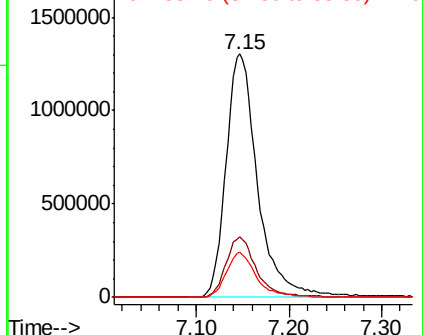
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.15 min Scan# 1356
 Delta R.T. -0.01 min
 Lab File: VL037009.D
 Acq: 20 May 2021 2:26

Instrument :
 MSVOA_L
 ClientSampleId :
 KSS-01DL

Tot Ion:114 Resp: 3070753
 Ion Ratio Lower Upper
 114 100
 63 24.3 19.6 29.4
 88 17.9 14.6 21.8

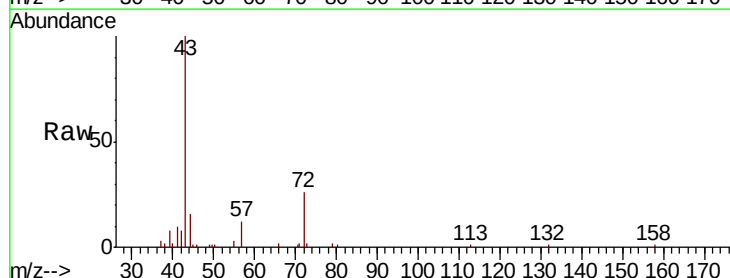


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

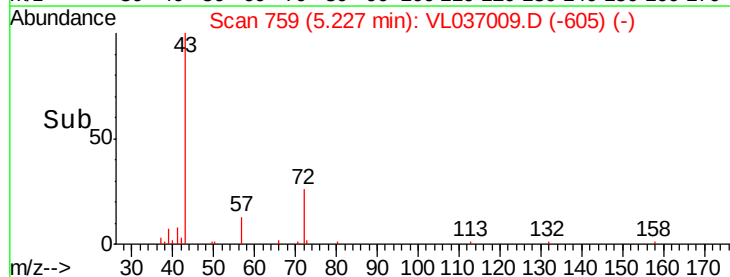
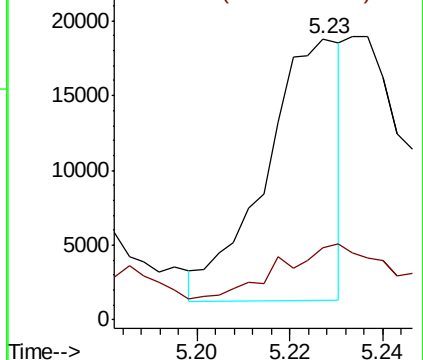


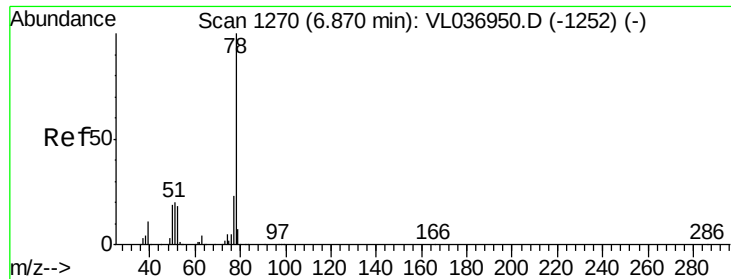
#34
 2-Butanone
 Concen: 0.175 ppbv
 RT: 5.23 min Scan# 759
 Delta R.T. -0.00 min
 Lab File: VL037009.D
 Acq: 20 May 2021 2:26

Tgt Ion: 43 Resp: 19619
 Ion Ratio Lower Upper
 43 100
 72 0.0 19.0 28.4#



Abundance Ion 43.10 (42.80 to 43.80): VL0
 Ion 72.10 (71.80 to 72.80): VL0





#36

Benzene

Concen: 0.060 ppbv

RT: 6.86 min Scan# 1267

Delta R.T. -0.01 min

Lab File: VL037009.D

Acq: 20 May 2021 2:26

Instrument :

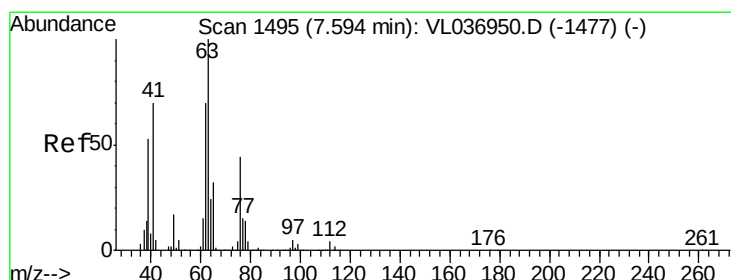
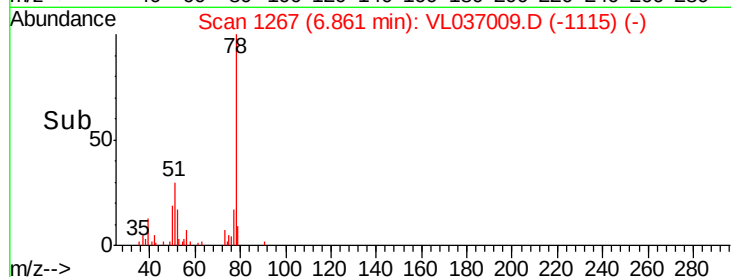
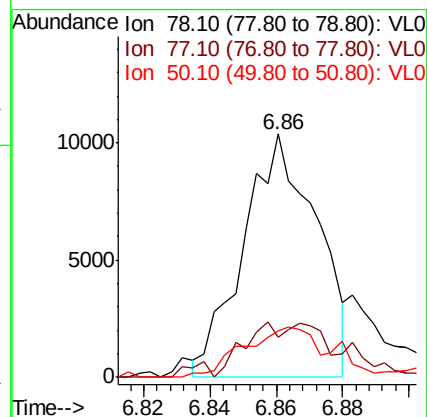
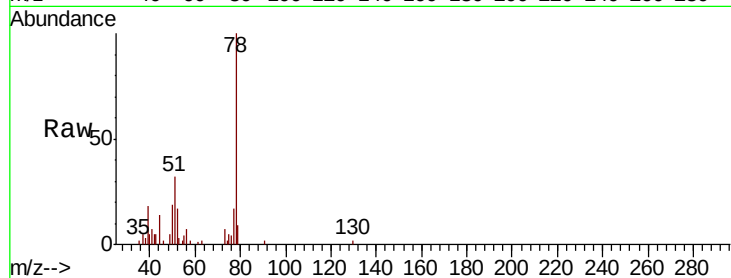
MSVOA_L

ClientSampleId :

KSS-01DL

Tot Ion: 78 Resp: 15994

Ion	Ratio	Lower	Upper
78	100		
77	14.0	18.6	28.0#
50	15.1	15.0	22.4



#39

1,2-Dichloropropane

Concen: 7.168 ppbv

RT: 7.15 min Scan# 1356

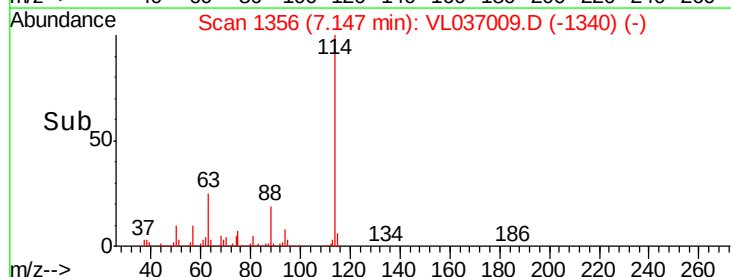
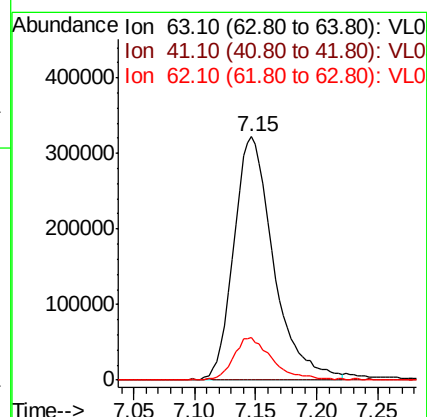
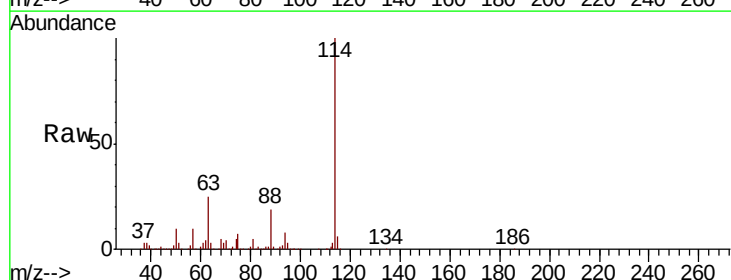
Delta R.T. -0.45 min

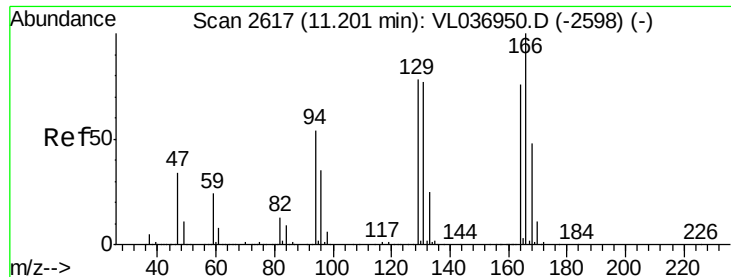
Lab File: VL037009.D

Acq: 20 May 2021 2:26

Tgt Ion: 63 Resp: 730334

Ion	Ratio	Lower	Upper
63	100		
41	0.0	55.7	83.5#
62	17.7	56.2	84.4#





#52

Tetrachloroethene

Concen: 0.075 ppbv

RT: 11.19 min Scan# 2615

Delta R.T. -0.01 min

Lab File: VL037009.D

Acq: 20 May 2021 2:26

Instrument :

MSVOA_L

ClientSampleId :

KSS-01DL

Tot Ion:164 Resp: 7924

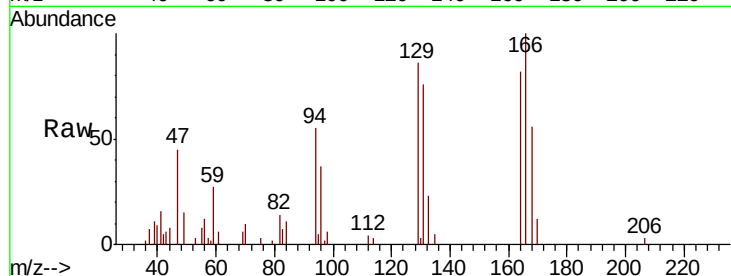
Ion Ratio Lower Upper

164 100

166 117.4 105.5 158.3

129 109.7 81.8 122.8

131 90.5 81.2 121.8

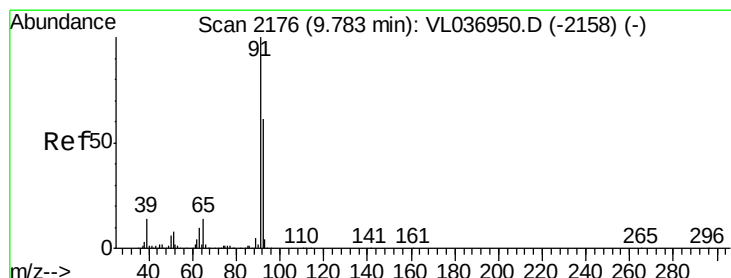
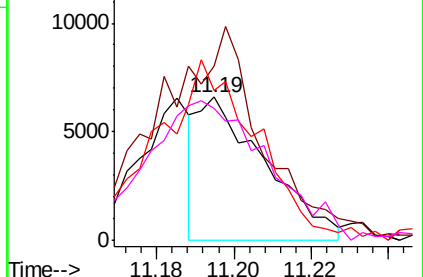
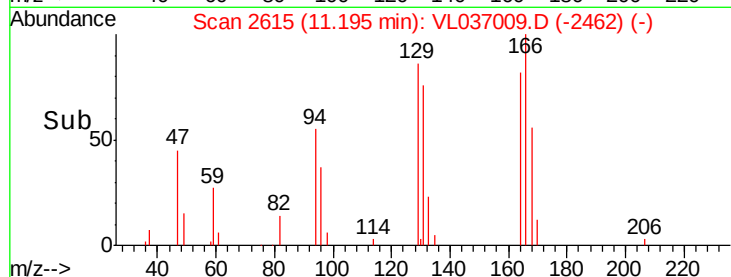


Abundance Ion 163.90 (163.60 to 164.60): V

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: 0.343 ppbv

RT: 9.77 min Scan# 2173

Delta R.T. -0.01 min

Lab File: VL037009.D

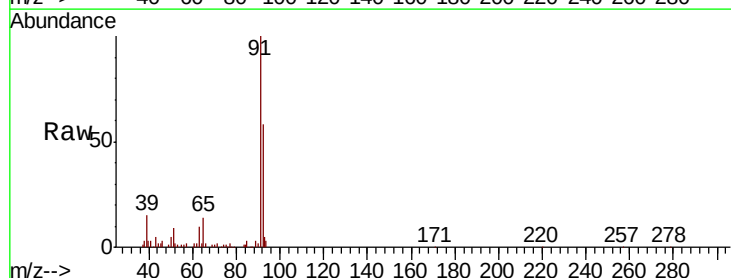
Acq: 20 May 2021 2:26

Tgt Ion: 91 Resp: 107996

Ion Ratio Lower Upper

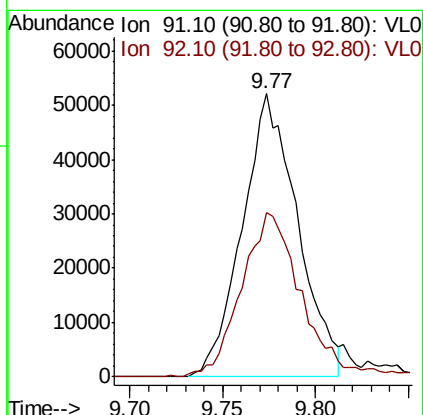
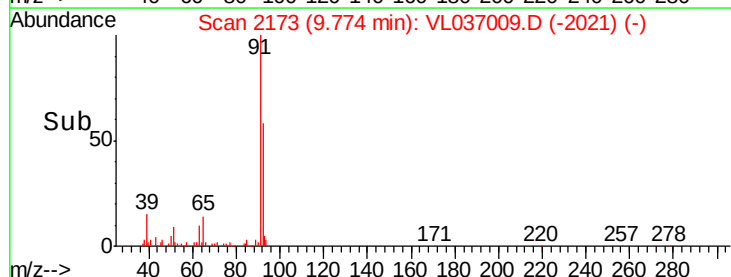
91 100

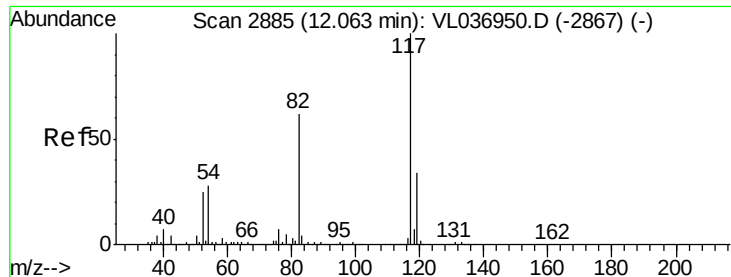
92 63.8 49.5 74.3



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

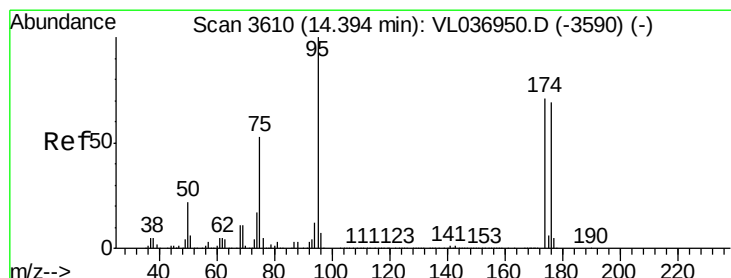
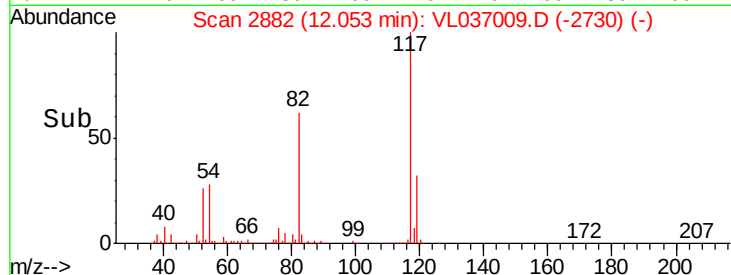
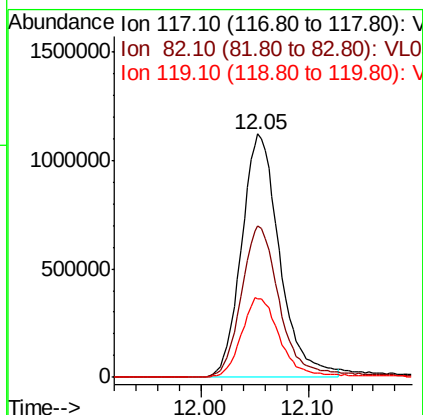
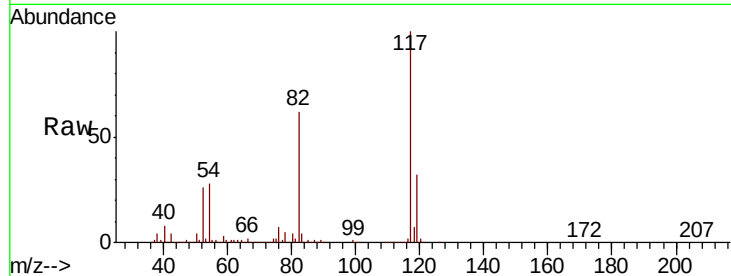




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.05 min Scan# 2882
Delta R.T. -0.01 min
Lab File: VL037009.D
Acq: 20 May 2021 2:26

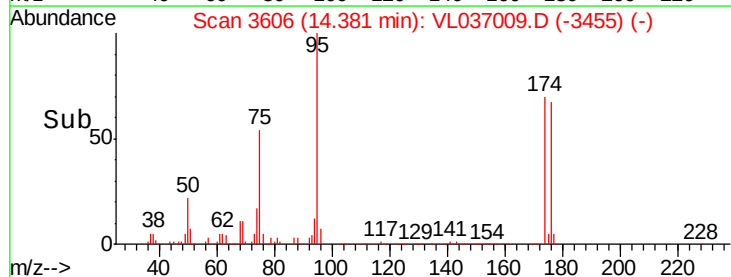
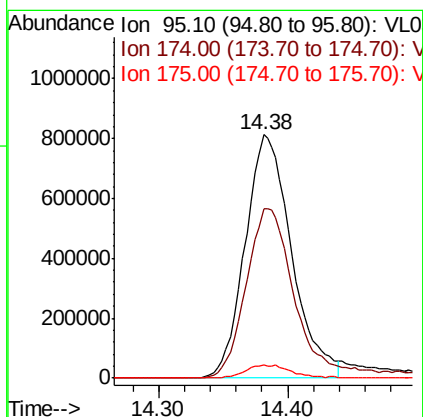
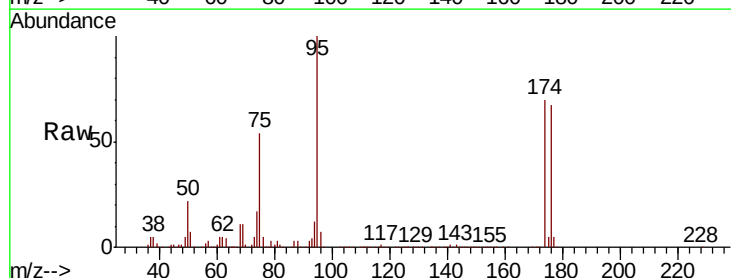
Instrument :
MSVOA_L
ClientSampleId :
KSS-01DL

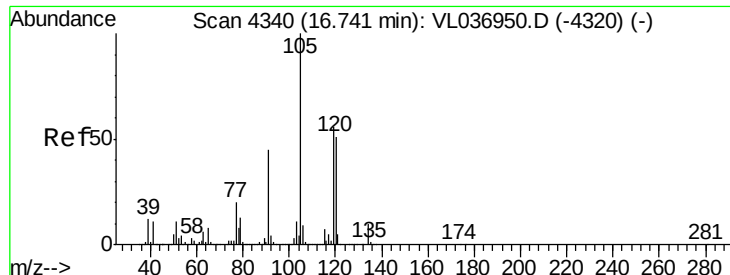
Tot Ion:117 Resp: 2751801
Ion Ratio Lower Upper
117 100
82 65.0 52.6 79.0
119 34.5 46.6 70.0#



#68
1-Bromo-4-Fluorobenzene
Concen: 9.858 ppbv
RT: 14.38 min Scan# 3606
Delta R.T. -0.01 min
Lab File: VL037009.D
Acq: 20 May 2021 2:26

Tgt Ion: 95 Resp: 2037811
Ion Ratio Lower Upper
95 100
174 78.2 58.4 87.6
175 5.6 4.4 6.6





#74

1,2,4-Trimethylbenzene

Concen: 0.043 ppbv

RT: 16.73 min Scan# 4336

Delta R.T. -0.01 min

Lab File: VL037009.D

Acq: 20 May 2021 2:26

Instrument :

MSVOA_L

ClientSampleId :

KSS-01DL

Tot Ion:105 Resp: 15008

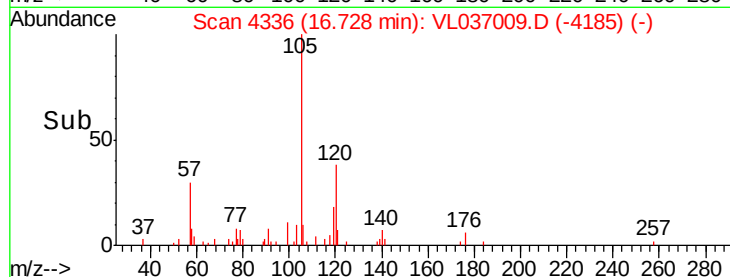
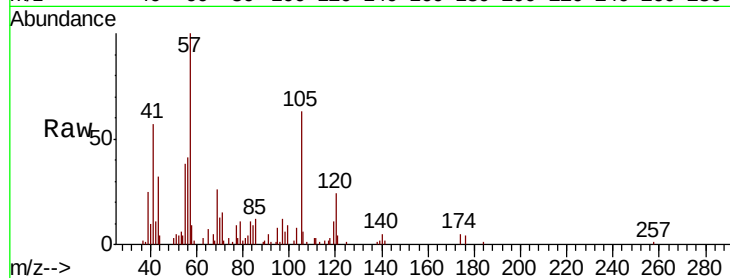
Ion Ratio Lower Upper

105 100

120 38.1 40.6 61.0#

91 1.0 37.4 56.0#

77 7.4 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

