

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL052021\
 Data File : VL037023.D
 Acq On : 20 May 2021 14:41
 Operator : SY/AP
 Sample : M2424-05
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 KSV-04

Quant Time: May 21 01:15:42 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	1221032	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.15	114	3609264	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.05	117	3365447	10.00	ppbv	-0.01

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.38	95	2479492	9.81	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.10%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.02	85	28309	0.137	ppbv 95
3) Chlorodifluoromethane	2.96	51	46065	0.206	ppbv 98
4) Chloromethane	3.11	50	87306	1.147	ppbv 97
7) Chloroethane	3.54	64	1701	0.063	ppbv # 67
9) Propene	2.98	41	1033111	12.898	ppbv 99
10) Heptane	8.09	43	539179	2.701	ppbv 98
11) Trichlorofluoromethane	3.92	101	49440	0.258	ppbv 84
12) 1,1,2-Trichlorotrifluoroet	4.46	101	5992	0.044	ppbv # 1
13) Ethanol	3.58	45	1075840	100.663	ppbv 96
15) Acetone	3.83	43	32705520	261.505	ppbv # 61
16) 1,3-Butadiene	3.28	39	4031507	51.885	ppbv # 16
17) tert-Butyl alcohol	4.27	59	1126640	9.834	ppbv 97
19) Isopropyl Alcohol	3.94	45	1240634	18.454	ppbv # 30
20) Methylene Chloride	4.32	84	840486	12.537	ppbv 98
21) Allyl Chloride	4.33	41	54100	0.573	ppbv # 53
23) Vinyl Acetate	5.04	43	310843	1.566	ppbv # 88
25) Ethyl Acetate	5.65	43	2544761	8.468	ppbv # 91
26) Hexane	5.65	57	1723025	11.223	ppbv # 20
27) Carbon Disulfide	4.52	76	257495	1.664	ppbv # 91
28) Methyl tert-Butyl Ether	5.00	73	17834	0.097	ppbv # 1
29) Chloroform	5.73	83	81138	0.374	ppbv 96
30) Cyclohexane	7.09	84	141862	1.087	ppbv # 77
31) cis-1,2-Dichloroethene	5.53	61	4376	0.032	ppbv # 66
34) 2-Butanone	5.21	43	5977459	45.483	ppbv 99
35) Carbon Tetrachloride	6.99	117	8608	0.036	ppbv # 82
36) Benzene	6.86	78	932953	3.001	ppbv 98
37) 1,2-Dichloroethane	6.28	62	9372	0.061	ppbv # 80
38) Trichloroethene	7.80	130	4201	0.032	ppbv # 82
39) 1,2-Dichloropropane	7.81	63	28682	0.239	ppbv # 1
40) 1,4-Dioxane	7.81	88	4659	0.165	ppbv # 100
41) Tetrahydrofuran	5.94	42	19519	0.261	ppbv # 40
42) Bromodichloromethane	7.81	83	194078	0.832	ppbv # 25
43) Methyl Methacrylate	8.02	69	253129	2.362	ppbv # 59
44) 2,2,4-Trimethylpentane	7.84	57	134294	0.252	ppbv # 42
50) 4-Methyl-2-Pentanone	8.71	43	116303	0.536	ppbv # 43
51) 2-Hexanone	10.10	43	772881	6.741	ppbv # 93
52) Tetrachloroethene	11.19	164	6049	0.049	ppbv # 67
53) Toluene	9.77	91	1495747	4.043	ppbv 97
56) 1,1,1,2-Tetrachloroethane	11.67	131	69802	0.493	ppbv # 1
57) Chlorobenzene	12.11	112	16884	0.065	ppbv # 44
58) Ethyl Benzene	12.68	91	264557	0.557	ppbv 96

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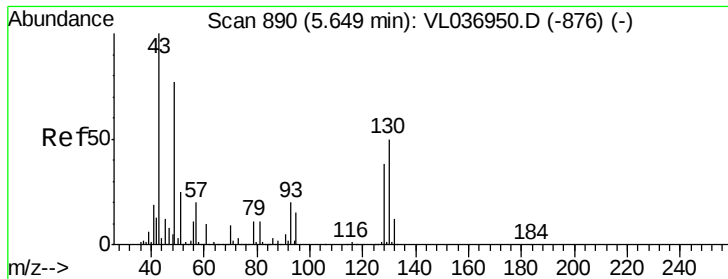
Instrument :
 MSVOA_L
 ClientSampleId :
 KSV-04

Quant Time: May 21 01:15:42 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL051821AIR.M
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

59) m/p-Xylene	12.93	91	513787	1.309	ppbv	97
60) o-Xylene	13.66	91	160173	0.428	ppbv	89
61) Styrene	13.49	104	151848	0.720	ppbv #	90
62) Isopropylbenzene	14.63	105	28168	0.052	ppbv #	48
63) 1,1,2,2-Tetrachloroethane	13.66	83	409013	1.462	ppbv #	29
64) n-propylbenzene	15.53	120	39260	0.283	ppbv #	10
65) tert-Butylbenzene	16.74	119	94832	0.195	ppbv #	47
66) Benzyl Chloride	16.94	91	1274	0.047	ppbv #	62
69) p-Isopropyltoluene	17.63	119	39419	0.069	ppbv #	58
71) 2-Chlorotoluene	15.42	91	39956	0.103	ppbv #	42
72) 4-Ethyltoluene	15.81	105	248197	0.558	ppbv #	95
73) 1,3,5-Trimethylbenzene	15.97	105	224037	0.537	ppbv	97
74) 1,2,4-Trimethylbenzene	16.74	105	716401	1.660	ppbv #	75
75) 1,3-Dichlorobenzene	16.96	146	16213	0.062	ppbv #	24
78) Hexachloro-1,3-Butadiene	23.35	225	28055	0.132	ppbv	92
79) Naphthalene	22.18	128	19579	0.058	ppbv	97
80) Naphthalene,2-methyl-	24.94	142	11213	0.152	ppbv #	81

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 889

Delta R.T. -0.00 min

Lab File: VL037023.D

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ClientSampleId :

KSV-04

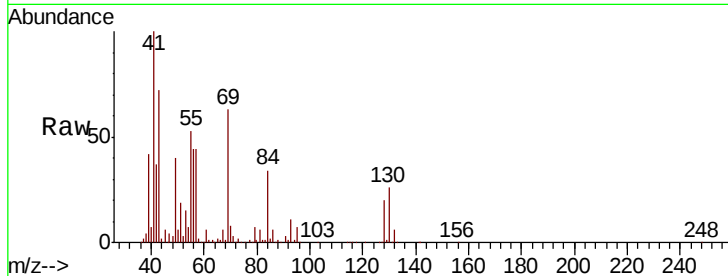
Tot Ion: 49 Resp: 1221032

Ion Ratio Lower Upper

49 100

128 52.0 26.9 80.7

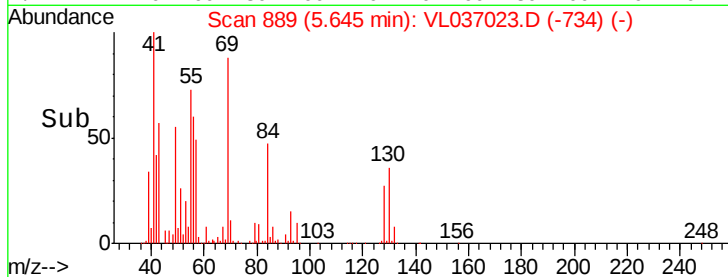
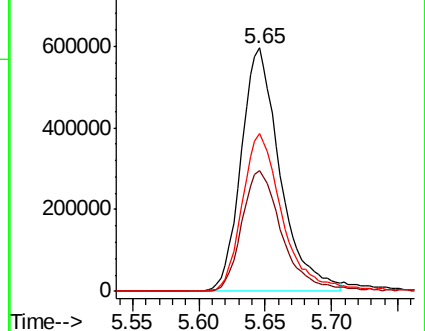
130 67.5 33.8 101.4



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 0.137 ppbv

RT: 3.02 min Scan# 74

Delta R.T. -0.01 min

Lab File: VL037023.D

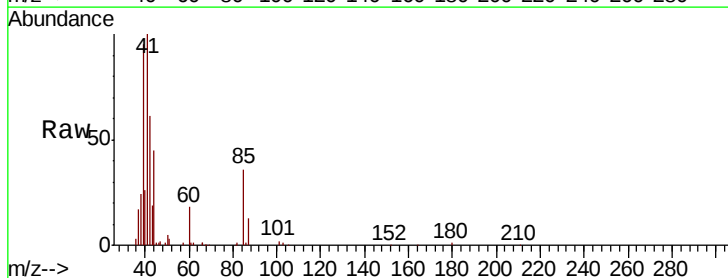
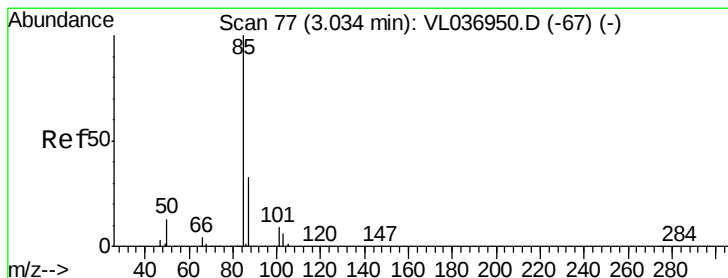
Acq: 20 May 2021 14:41

Tgt Ion: 85 Resp: 28309

Ion Ratio Lower Upper

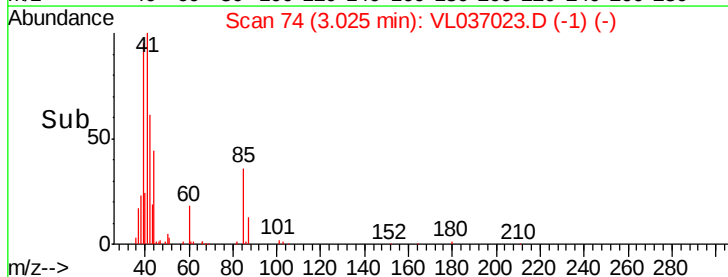
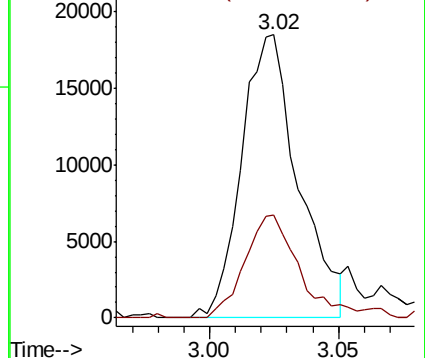
85 100

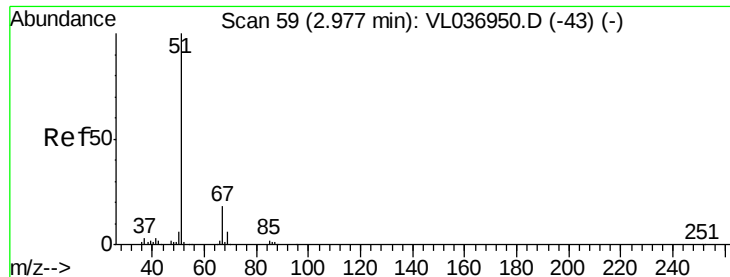
87 36.2 26.6 39.8



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.206 ppbv

RT: 2.96 min Scan# 55

Delta R.T. -0.01 min

Lab File: VL037023.D

Acq: 20 May 2021 14:41

Instrument :

MSVOA_L

ClientSampleId :

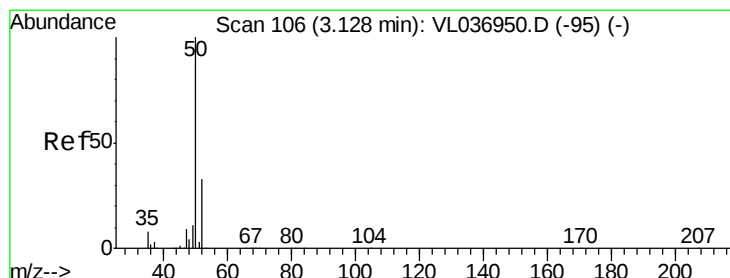
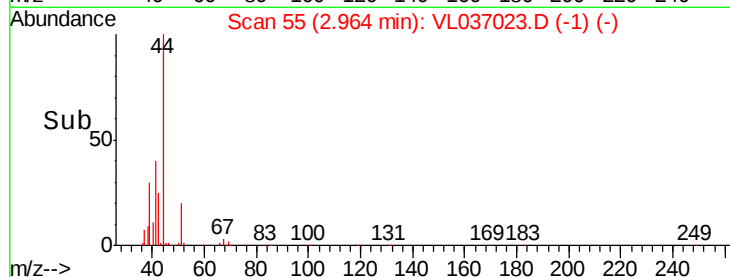
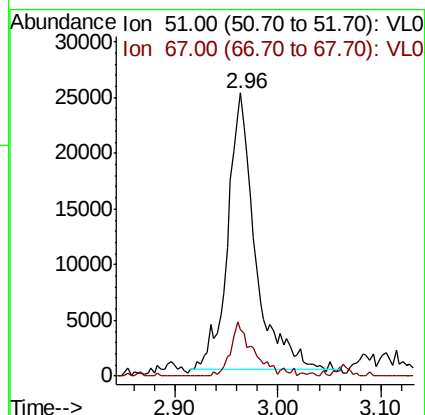
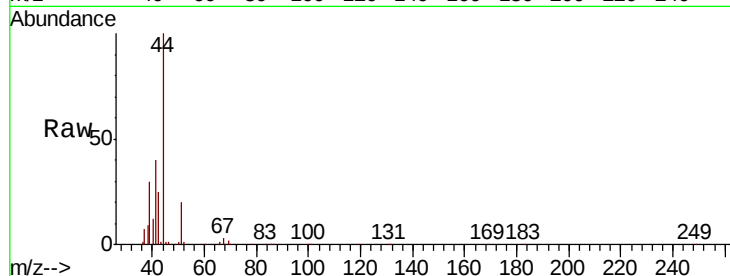
KSV-04

Tot Ion: 51 Resp: 46065

Ion Ratio Lower Upper

51 100

67 17.3 14.6 21.8



#4

Chloromethane

Concen: 1.147 ppbv

RT: 3.11 min Scan# 102

Delta R.T. -0.01 min

Lab File: VL037023.D

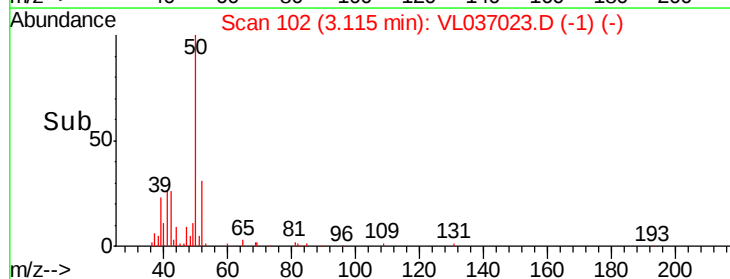
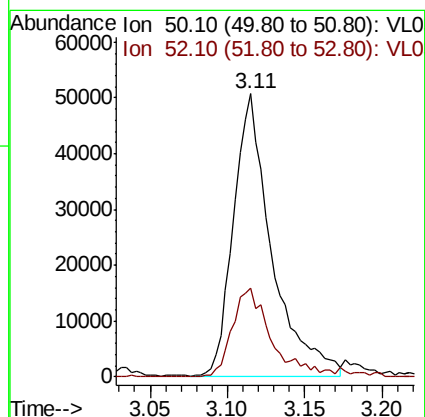
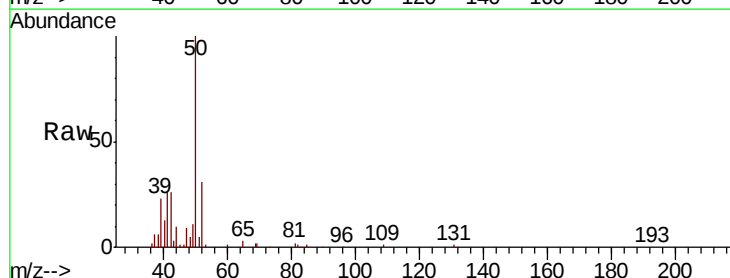
Acq: 20 May 2021 14:41

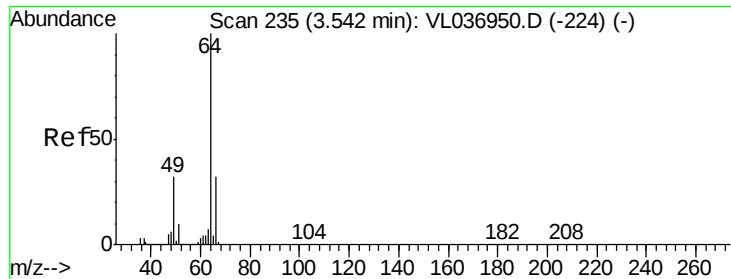
Tgt Ion: 50 Resp: 87306

Ion Ratio Lower Upper

50 100

52 31.2 26.1 39.1





#7

Chloroethane

Concen: 0.063 ppbv

RT: 3.54 min Scan# 233

Delta R.T. -0.01 min

Lab File: VL037023.D

Acq: 20 May 2021 14:41

Instrument :

MSVOA_L

ClientSampleId :

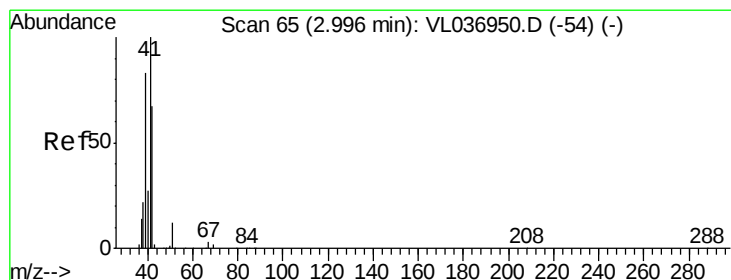
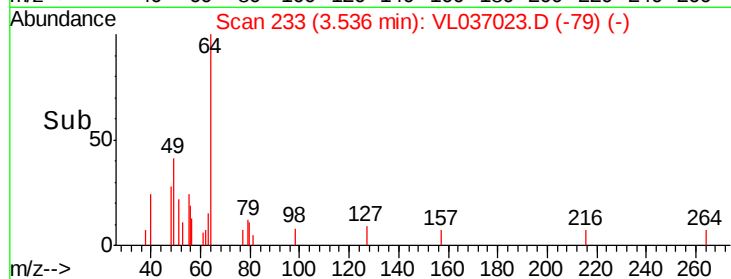
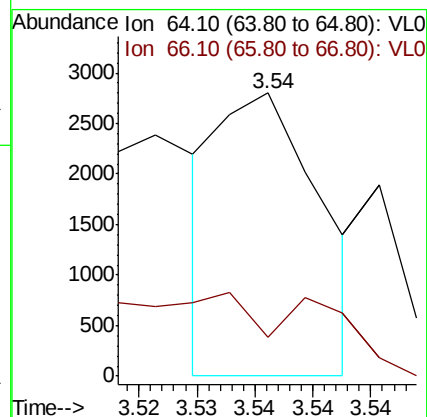
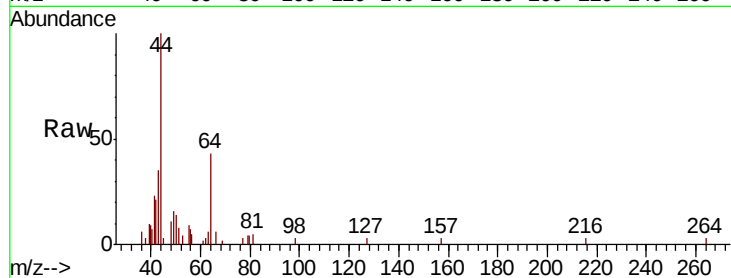
KSV-04

Tot Ion: 64 Resp: 1701

Ion Ratio Lower Upper

64 100

66 13.6 25.4 38.2#



#9

Propene

Concen: 12.898 ppbv

RT: 2.98 min Scan# 61

Delta R.T. -0.01 min

Lab File: VL037023.D

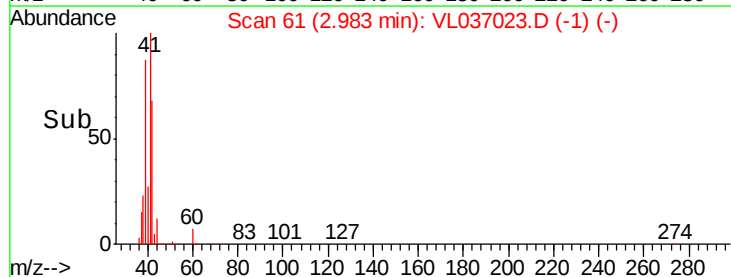
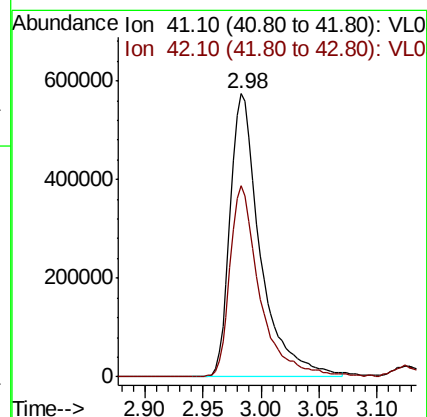
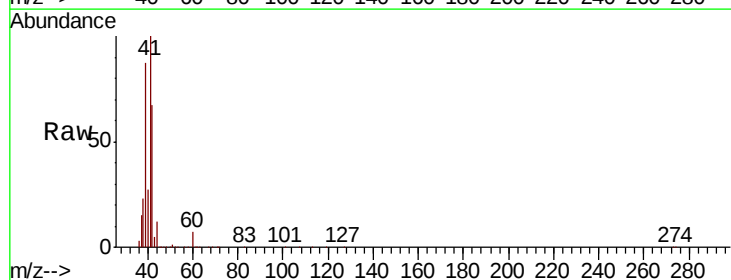
Acq: 20 May 2021 14:41

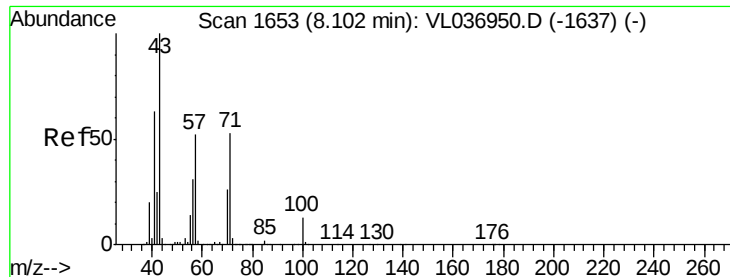
Tgt Ion: 41 Resp: 1033111

Ion Ratio Lower Upper

41 100

42 66.8 53.9 80.9





#10

Heptane

Concen: 2.701 ppbv

RT: 8.09 min Scan# 1648

Delta R.T. -0.02 min

Lab File: VL037023.D

Acq: 20 May 2021 14:41

Instrument :

MSVOA_L

ClientSampleId :

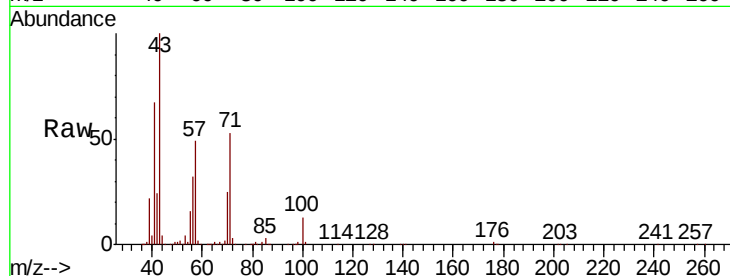
KSV-04

Tot Ion: 43 Resp: 539179

Ion Ratio Lower Upper

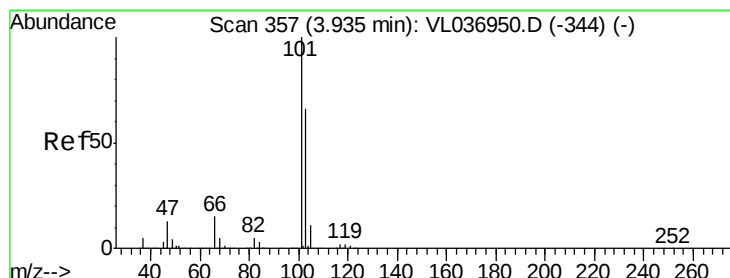
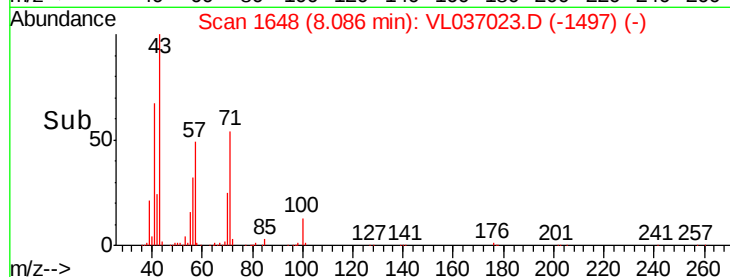
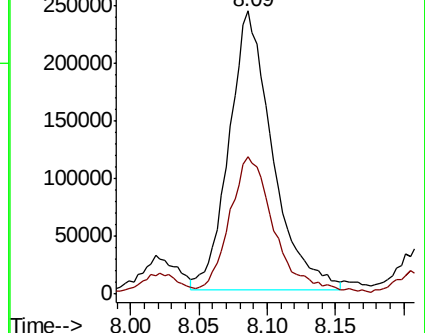
43 100

57 49.8 41.0 61.6



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0



#11

Trichlorofluoromethane

Concen: 0.258 ppbv

RT: 3.92 min Scan# 353

Delta R.T. -0.01 min

Lab File: VL037023.D

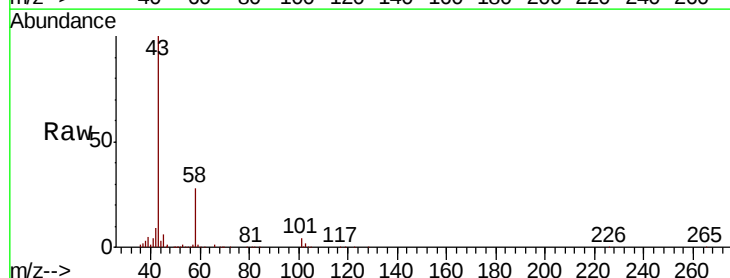
Acq: 20 May 2021 14:41

Tgt Ion:101 Resp: 49440

Ion Ratio Lower Upper

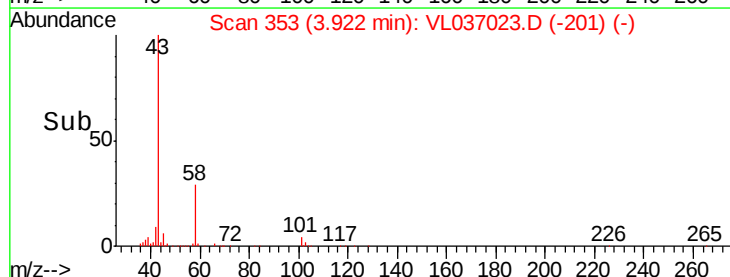
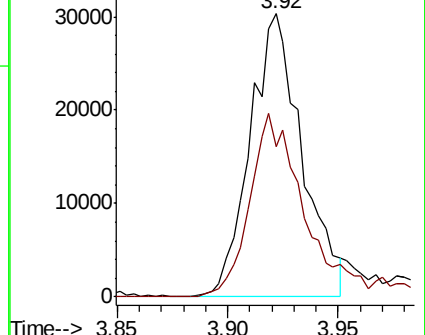
101 100

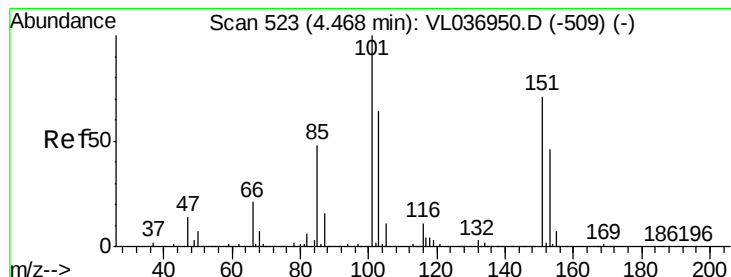
103 53.0 52.6 79.0



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: 0.044 ppbv

RT: 4.46 min Scan# 520

Delta R.T. -0.01 min

Lab File: VL037023.D

Acq: 20 May 2021 14:41

Instrument :

MSVOA_L

ClientSampleID :

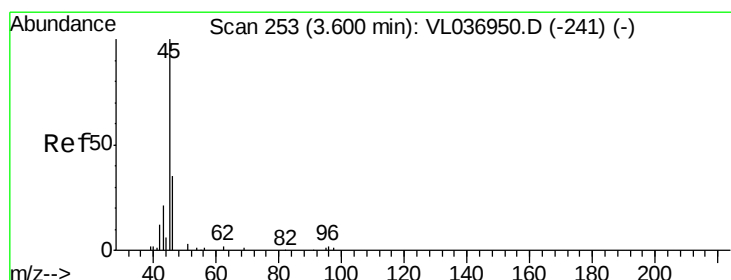
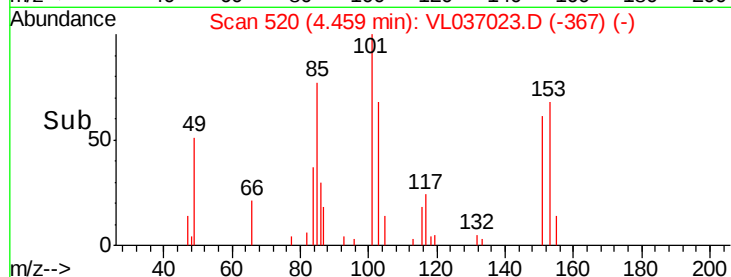
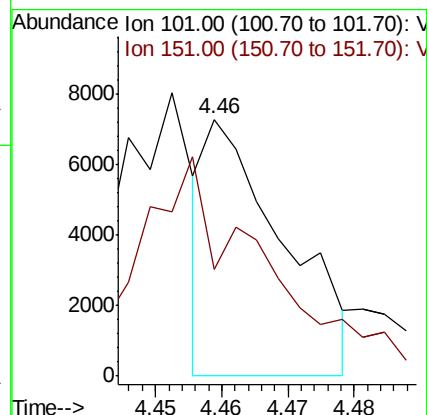
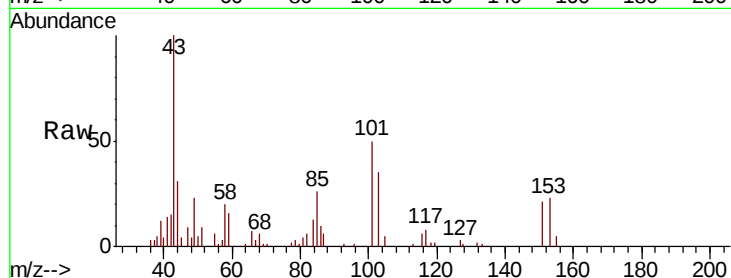
KSV-04

Tot Ion:101 Resp: 5992

Ion Ratio Lower Upper

101 100

151 165.4 57.7 86.5#



#13

Ethanol

Concen: 100.663 ppbv

RT: 3.58 min Scan# 248

Delta R.T. -0.02 min

Lab File: VL037023.D

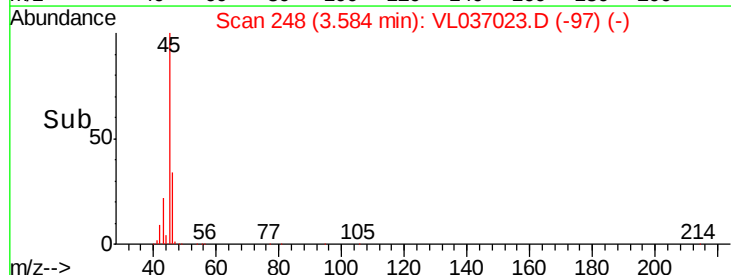
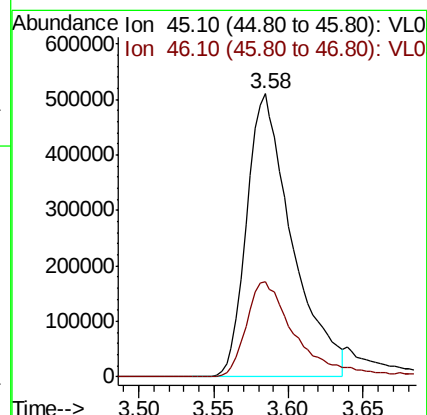
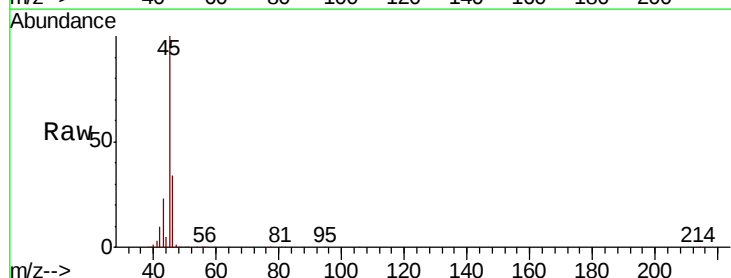
Acq: 20 May 2021 14:41

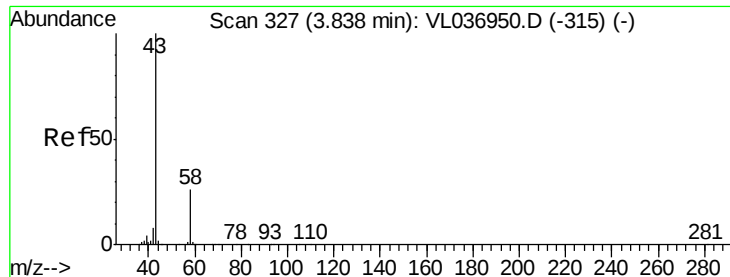
Tgt Ion: 45 Resp: 1075840

Ion Ratio Lower Upper

45 100

46 38.0 16.3 65.3





#15

Acetone

Concen: 261.505 ppbv

RT: 3.83 min Scan# 323

Delta R.T. -0.01 min

Lab File: VL037023.D

Acq: 20 May 2021 14:41

Instrument :

MSVOA_L

ClientSampleId :

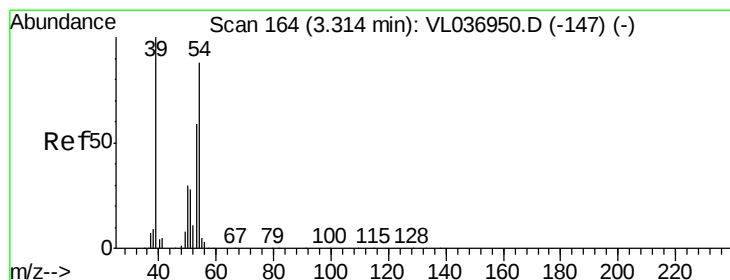
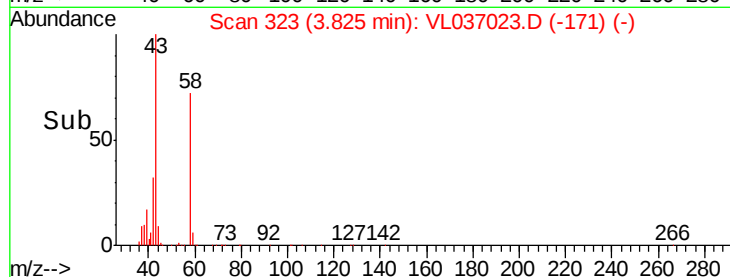
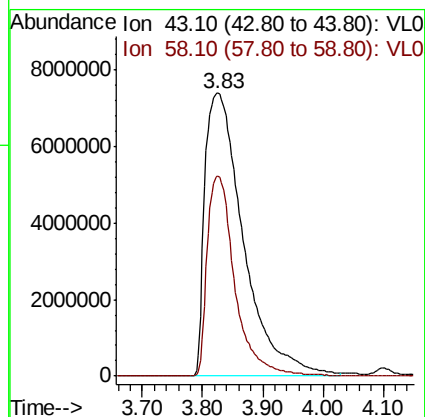
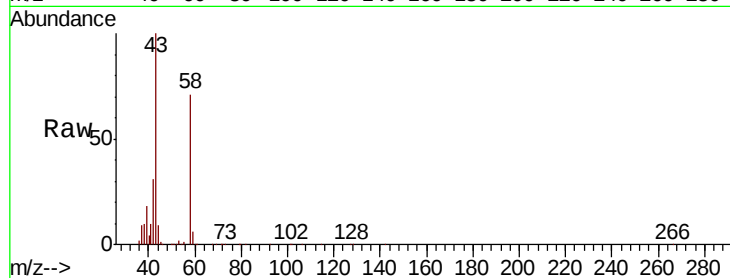
KSV-04

Tot Ion: 43 Resp:32705520

Ion Ratio Lower Upper

43 100

58 50.9 24.0 36.0#



#16

1,3-Butadiene

Concen: 51.885 ppbv

RT: 3.28 min Scan# 154

Delta R.T. -0.03 min

Lab File: VL037023.D

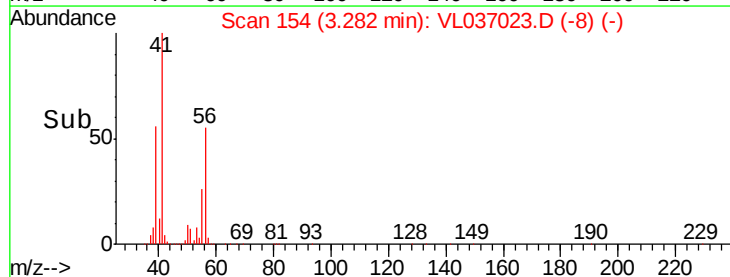
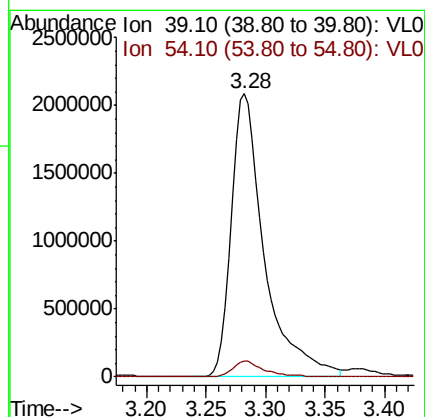
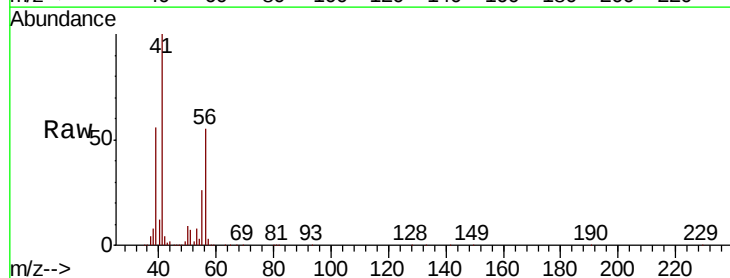
Acq: 20 May 2021 14:41

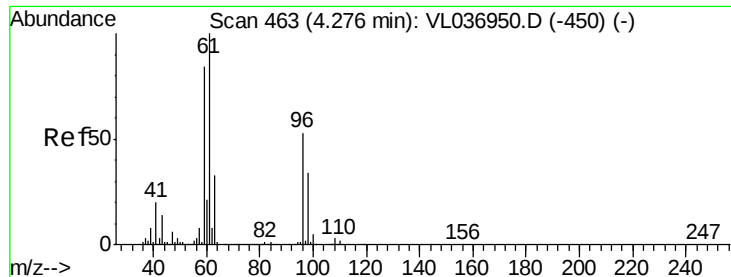
Tgt Ion: 39 Resp: 4031507

Ion Ratio Lower Upper

39 100

54 5.4 63.2 94.8#





#17

tert-Butyl alcohol
 Concen: 9.834 ppbv
 RT: 4.27 min Scan# 460
 Delta R.T. -0.01 min
 Lab File: VL037023.D
 Acq: 20 May 2021 14:41

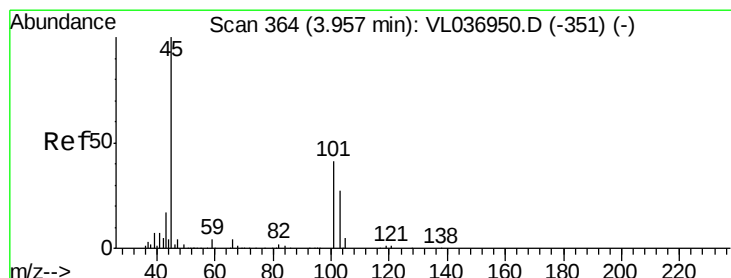
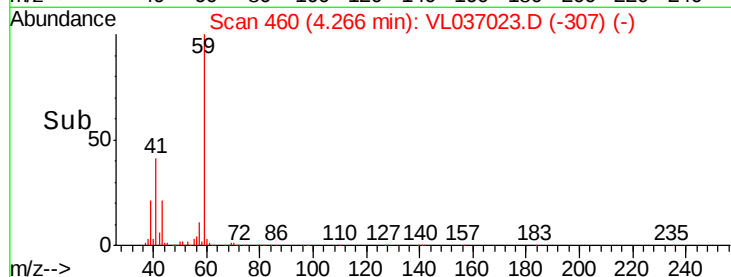
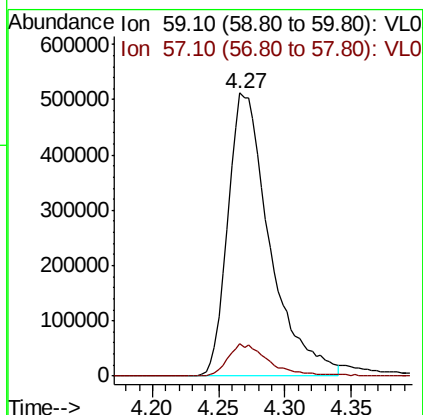
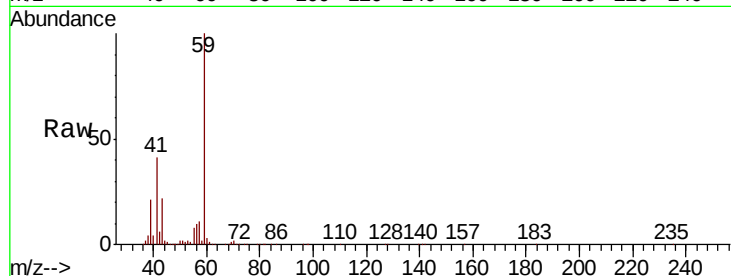
Instrument :
 MSVOA_L
 ClientSampled :
 KSV-04

Tot Ion: 59 Resp: 1126640

Ion Ratio Lower Upper

59 100

57 11.7 8.3 12.5



#19

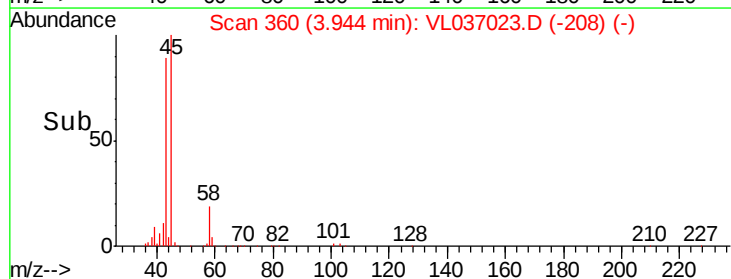
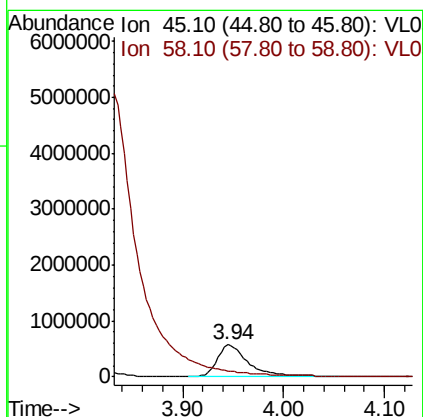
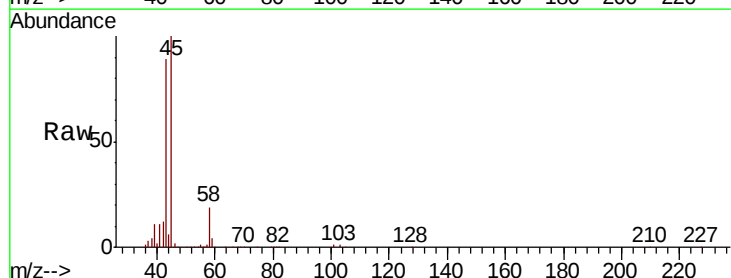
Isopropyl Alcohol
 Concen: 18.454 ppbv
 RT: 3.94 min Scan# 360
 Delta R.T. -0.01 min
 Lab File: VL037023.D
 Acq: 20 May 2021 14:41

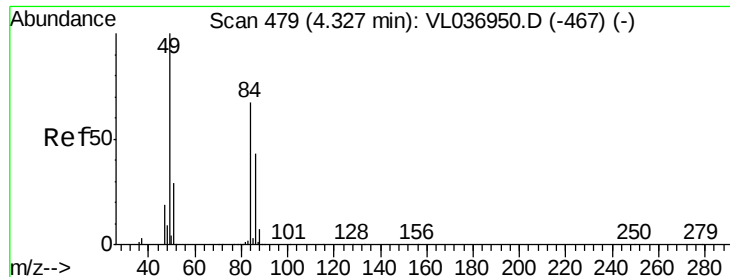
Tgt Ion: 45 Resp: 1240634

Ion Ratio Lower Upper

45 100

58 0.0 37.2 55.8#

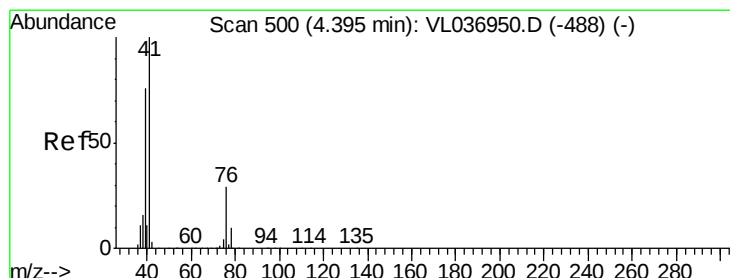
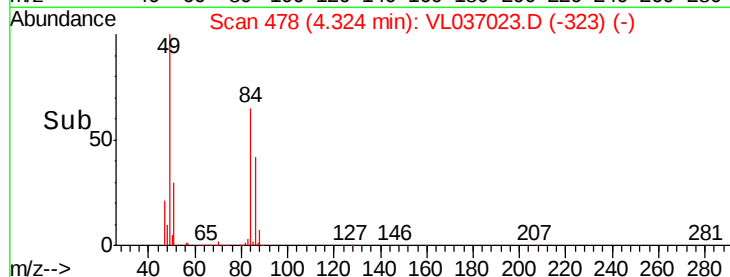
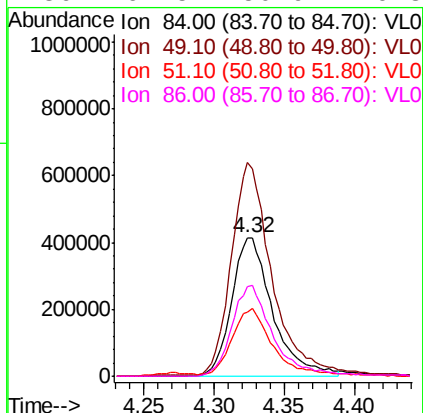
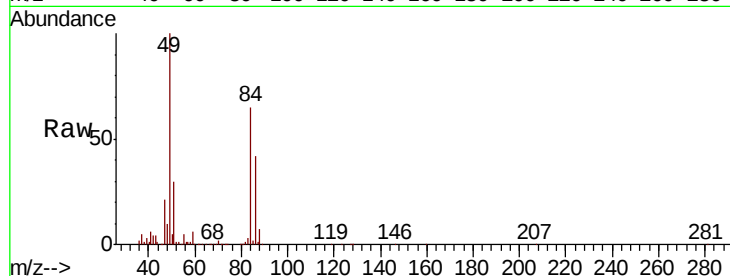




#20
Methylene Chloride
Concen: 12.537 ppbv
RT: 4.32 min Scan# 478
Delta R.T. -0.00 min
Lab File: VL037023.D
Acq: 20 May 2021 14:41

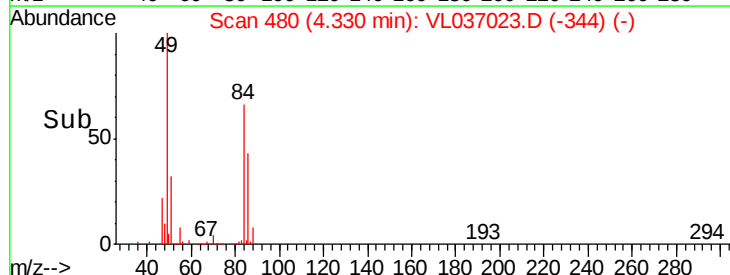
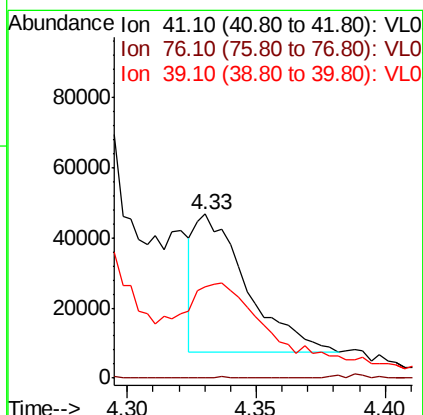
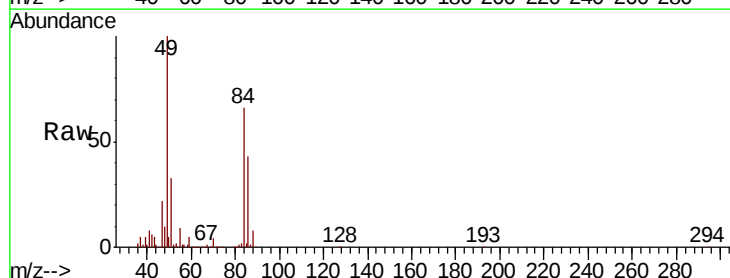
Instrument :
MSVOA_L
ClientSampleId :
KSV-04

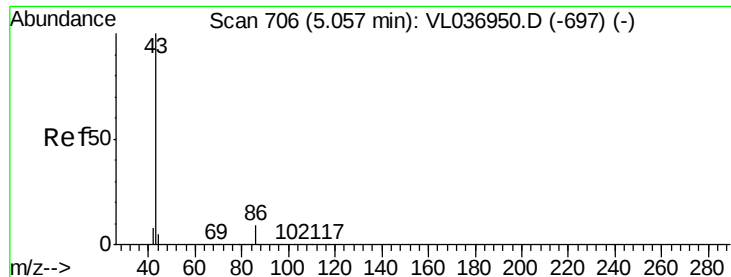
Tot Ion:	84	Resp:	840486
Ion	Ratio	Lower	Upper
84	100		
49	153.5	119.8	179.6
51	44.9	35.1	52.7
86	64.5	50.9	76.3



#21
Allyl Chloride
Concen: 0.573 ppbv
RT: 4.33 min Scan# 480
Delta R.T. -0.06 min
Lab File: VL037023.D
Acq: 20 May 2021 14:41

Tgt Ion:	41	Resp:	54100
Ion	Ratio	Lower	Upper
41	100		
76	0.0	24.9	37.3#
39	118.1	63.7	95.5#

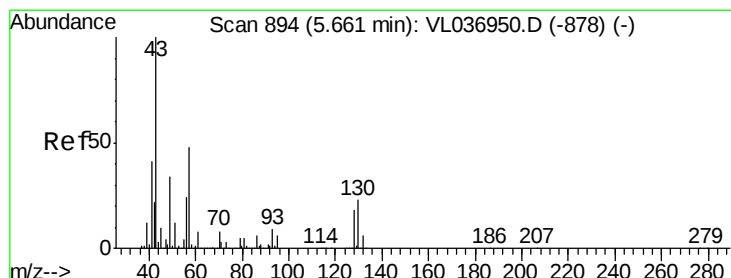
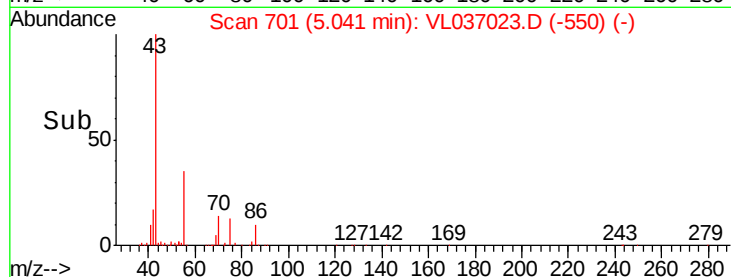
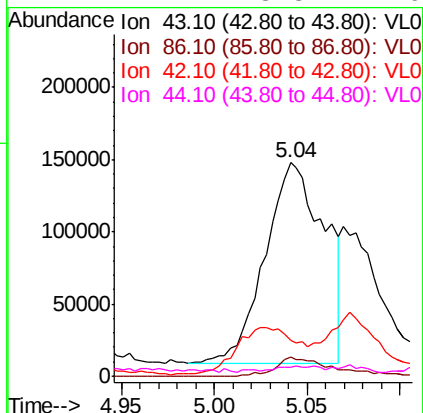
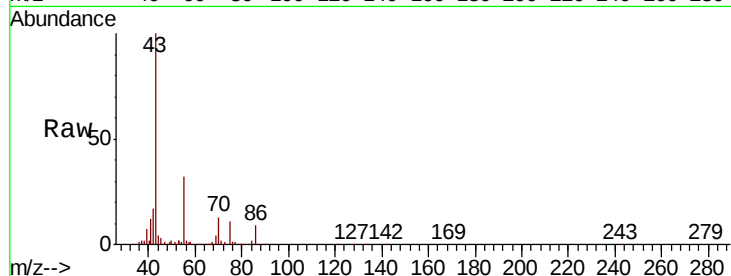




#23
Vinyl Acetate
Concen: 1.566 ppbv
RT: 5.04 min Scan# 701
Delta R.T. -0.02 min
Lab File: VL037023.D
Acq: 20 May 2021 14:41

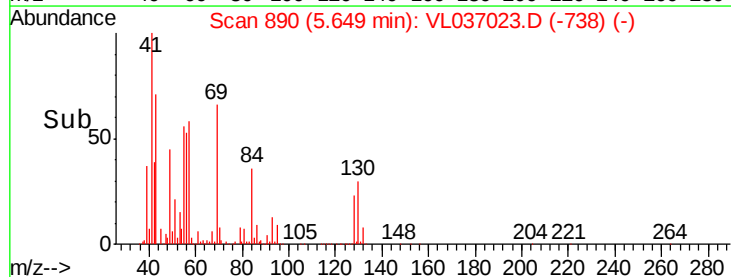
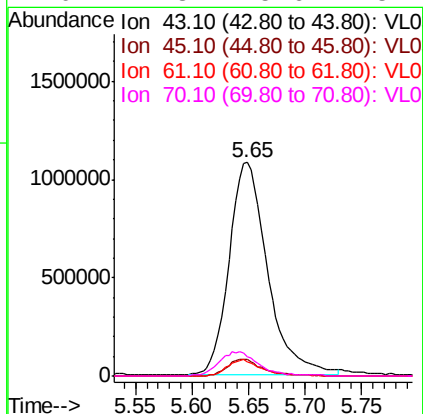
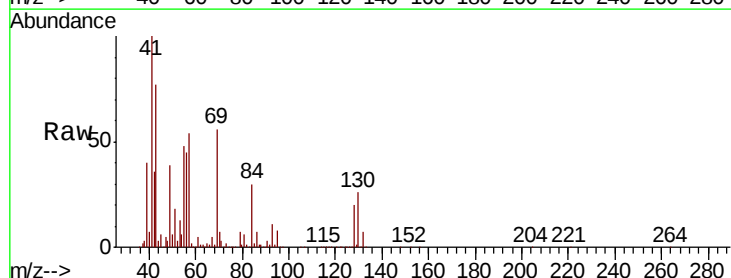
Instrument :
MSVOA_L
ClientSampleID :
KSV-04

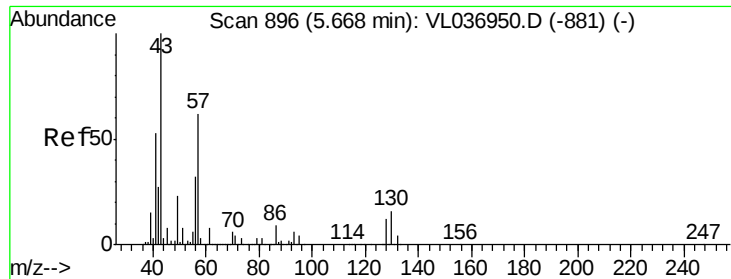
Tot Ion:	43	Resp:	310843
Ion	Ratio	Lower	Upper
43	100		
86	9.4	5.8	8.8#
42	16.4	7.4	11.2#
44	1.4	3.3	4.9#



#25
Ethyl Acetate
Concen: 8.468 ppbv
RT: 5.65 min Scan# 890
Delta R.T. -0.01 min
Lab File: VL037023.D
Acq: 20 May 2021 14:41

Tgt Ion:	43	Resp:	2544761
Ion	Ratio	Lower	Upper
43	100		
45	7.5	7.8	11.8#
61	7.0	7.8	11.8#
70	12.3	5.6	8.4#

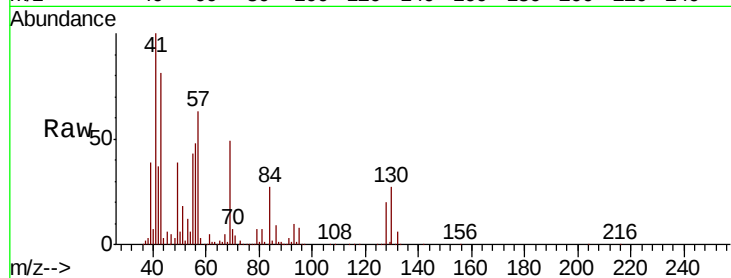




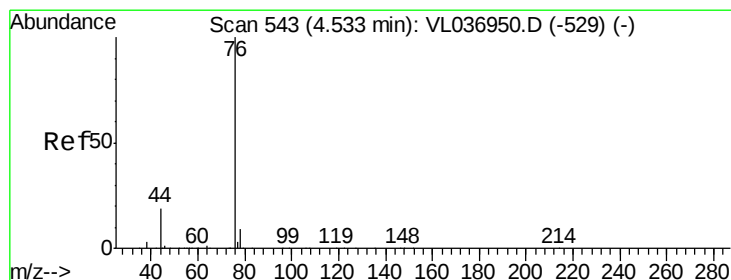
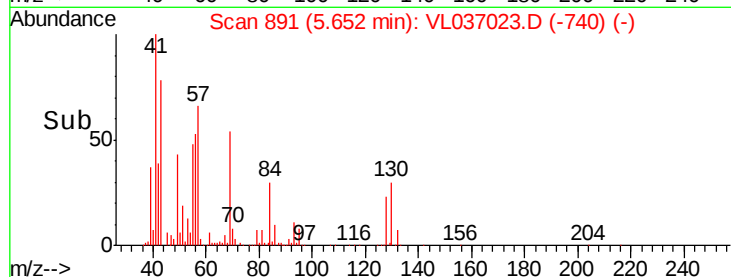
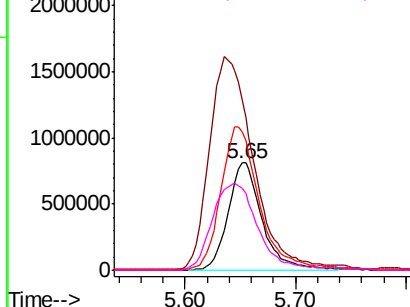
#26
Hexane
Concen: 11.223 ppbv
RT: 5.65 min Scan# 891
Delta R.T. -0.02 min
Lab File: VL037023.D
Acq: 20 May 2021 14:41

Instrument :
MSVOA_L
ClientSampleId :
KSV-04

Tot Ion: 57 Resp: 1723025
Ion Ratio Lower Upper
57 100
41 260.3 70.5 105.7#
43 153.3 165.8 248.8#
56 110.6 42.2 63.4#

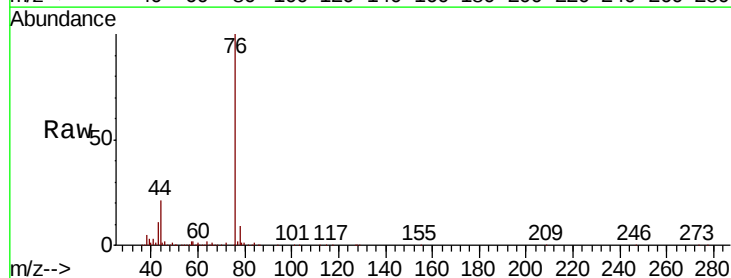


Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0

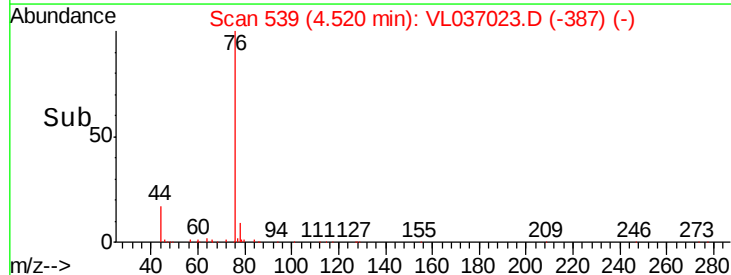
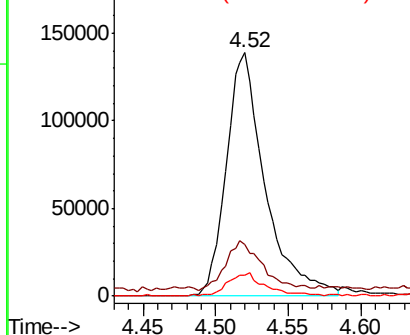


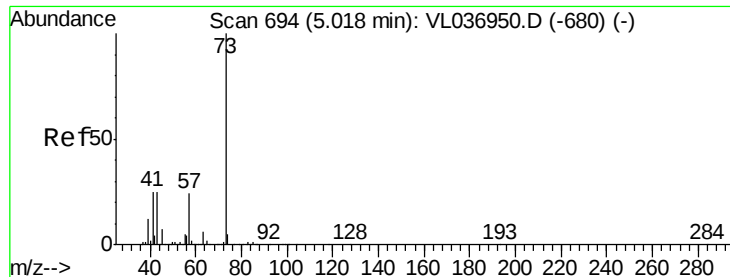
#27
Carbon Disulfide
Concen: 1.664 ppbv
RT: 4.52 min Scan# 539
Delta R.T. -0.01 min
Lab File: VL037023.D
Acq: 20 May 2021 14:41

Tgt Ion: 76 Resp: 257495
Ion Ratio Lower Upper
76 100
44 25.7 15.5 23.3#
78 9.9 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

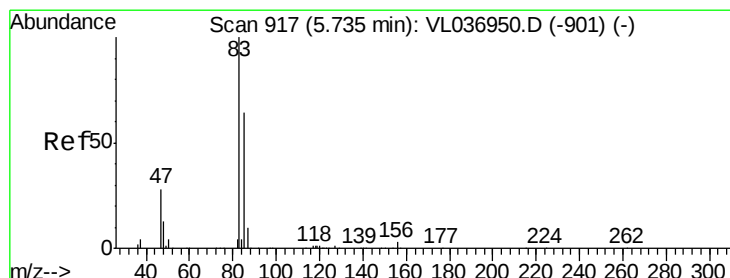
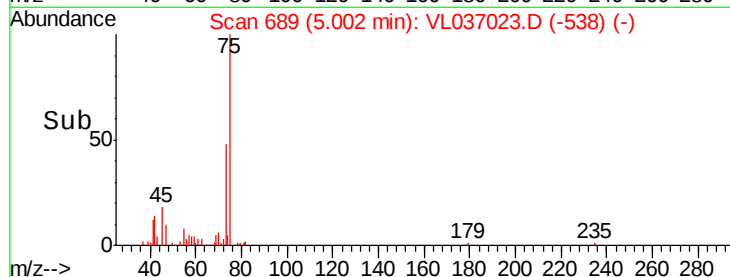
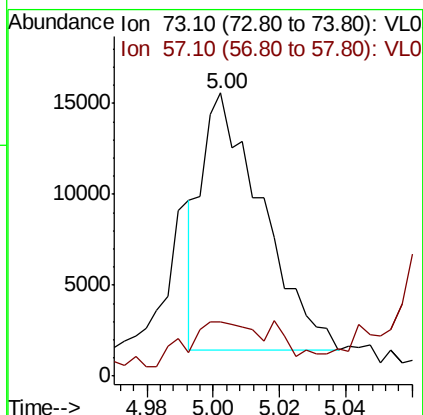
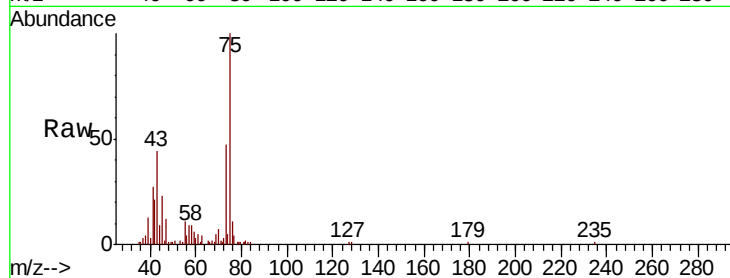




#28
Methvl tert-Butvl Ether
Concen: 0.097 ppbv
RT: 5.00 min Scan# 689
Delta R.T. -0.02 min
Lab File: VL037023.D
Acq: 20 May 2021 14:41

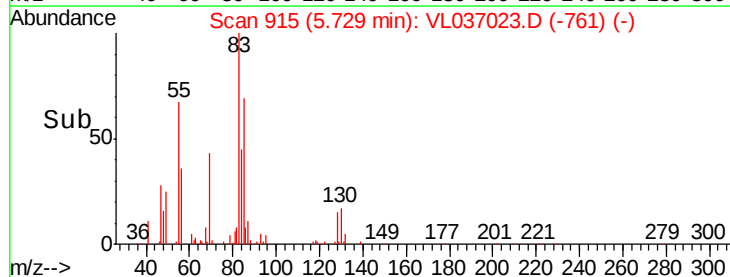
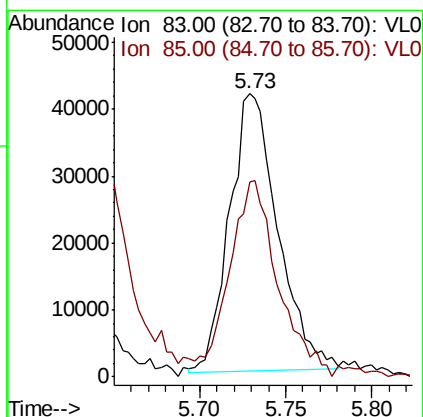
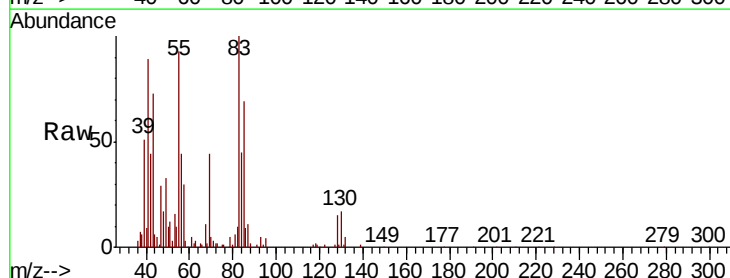
Instrument :
MSVOA_L
ClientSampleId :
KSV-04

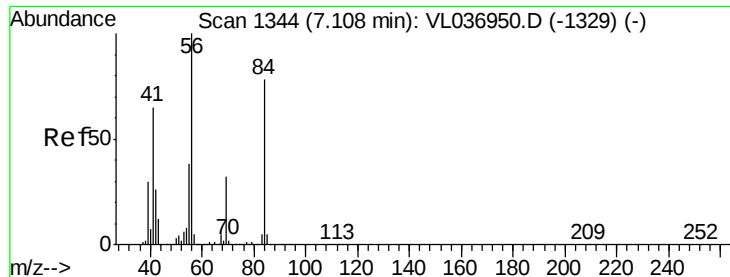
Tot Ion: 73 Resp: 17834
Ion Ratio Lower Upper
73 100
57 85.3 18.3 27.5#



#29
Chloroform
Concen: 0.374 ppbv
RT: 5.73 min Scan# 915
Delta R.T. -0.01 min
Lab File: VL037023.D
Acq: 20 May 2021 14:41

Tgt Ion: 83 Resp: 81138
Ion Ratio Lower Upper
83 100
85 67.2 51.1 76.7

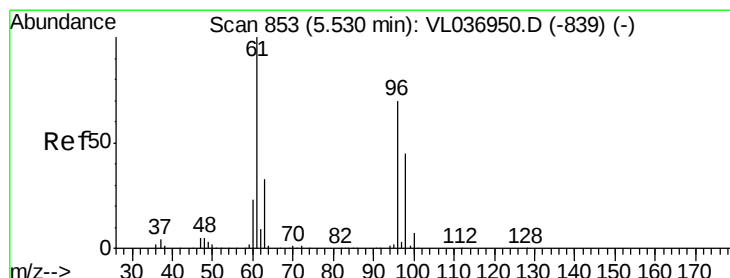
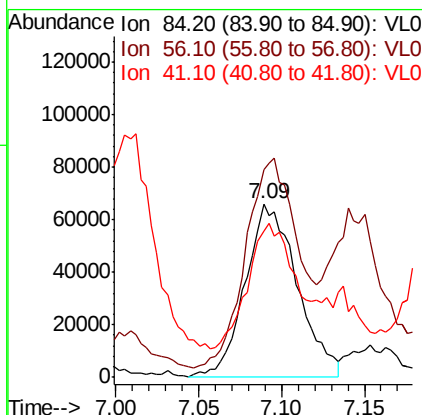
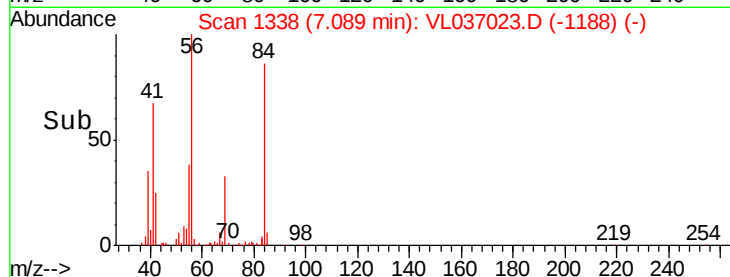
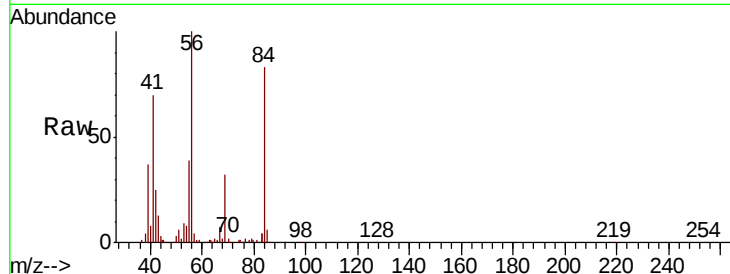




#30
Cvclohexane
Concen: 1.087 ppbv
RT: 7.09 min Scan# 1338
Delta R.T. -0.02 min
Lab File: VL037023.D
Acq: 20 May 2021 14:41

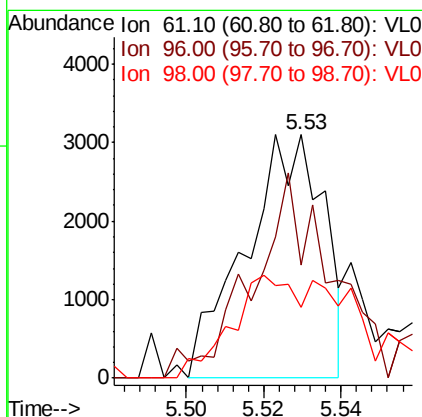
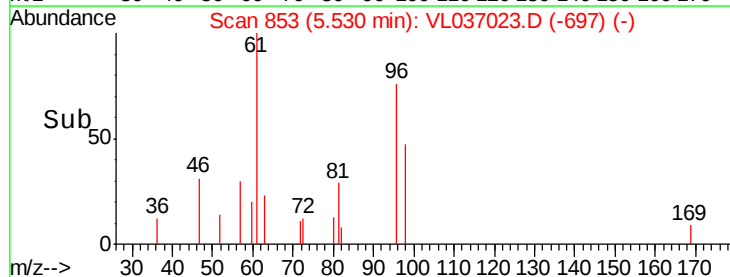
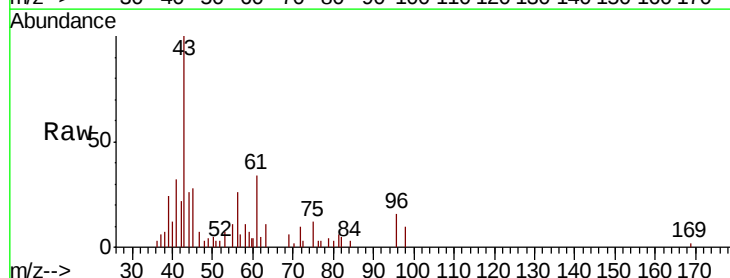
Instrument :
MSVOA_L
ClientSampleId :
KSV-04

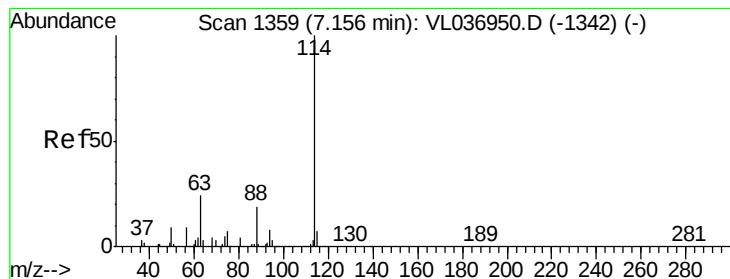
Tot Ion: 84 Resp: 141862
Ion Ratio Lower Upper
84 100
56 137.2 107.9 161.9
41 133.2 65.5 98.3#



#31
cis-1,2-Dichloroethene
Concen: 0.032 ppbv
RT: 5.53 min Scan# 853
Delta R.T. 0.00 min
Lab File: VL037023.D
Acq: 20 May 2021 14:41

Tgt Ion: 61 Resp: 4376
Ion Ratio Lower Upper
61 100
96 42.3 55.9 83.9#
98 22.9 35.6 53.4#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.15 min Scan# 1356

Delta R.T. -0.01 min

Lab File: VL037023.D

Acq: 20 May 2021 14:41

Instrument :

MSVOA_L

ClientSampleId :

KSV-04

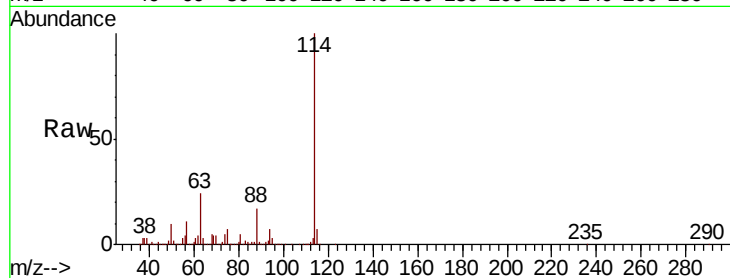
Tot Ion:114 Resp: 3609264

Ion Ratio Lower Upper

114 100

63 24.3 19.6 29.4

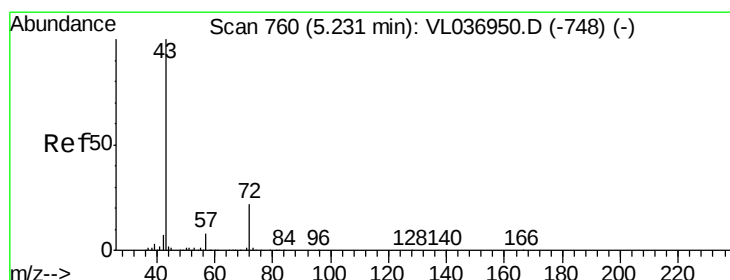
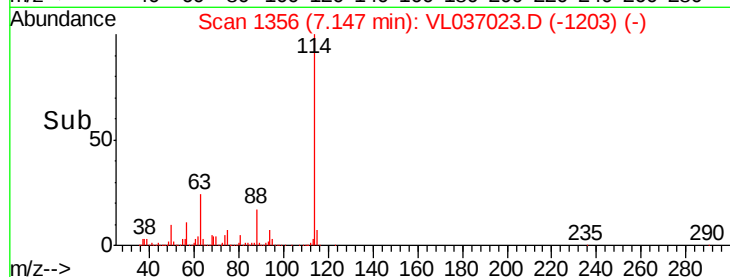
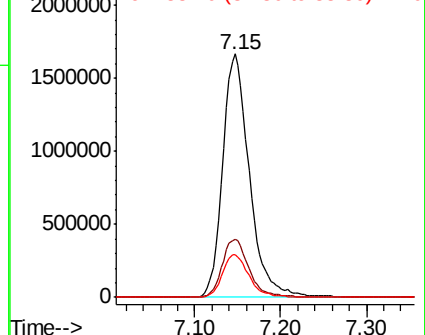
88 17.8 14.6 21.8



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: 45.483 ppbv

RT: 5.21 min Scan# 755

Delta R.T. -0.02 min

Lab File: VL037023.D

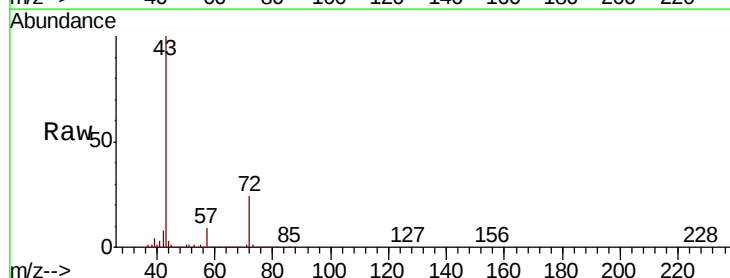
Acq: 20 May 2021 14:41

Tgt Ion: 43 Resp: 5977459

Ion Ratio Lower Upper

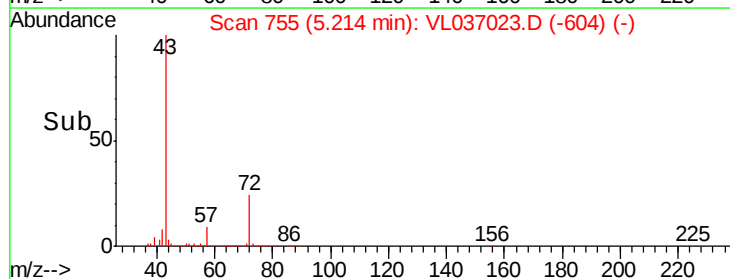
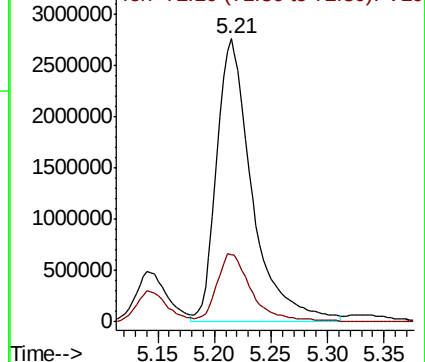
43 100

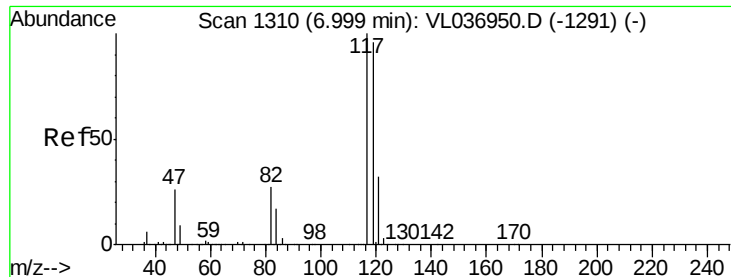
72 24.2 19.0 28.4



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 0.036 ppbv

RT: 6.99 min Scan# 1308

Delta R.T. -0.01 min

Lab File: VL037023.D

Acq: 20 May 2021 14:41

Instrument :

MSVOA_L

ClientSampleId :

KSV-04

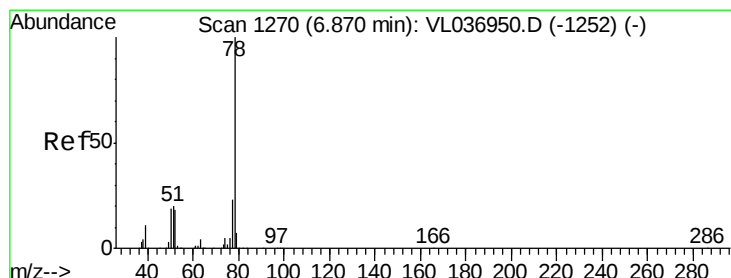
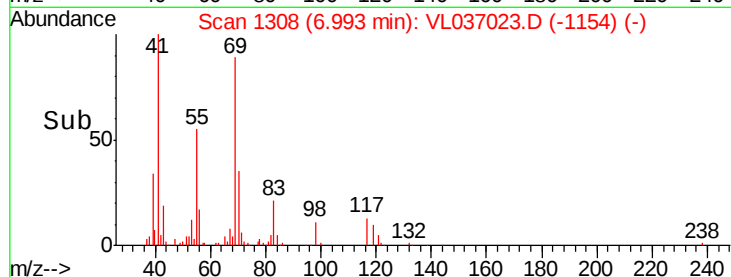
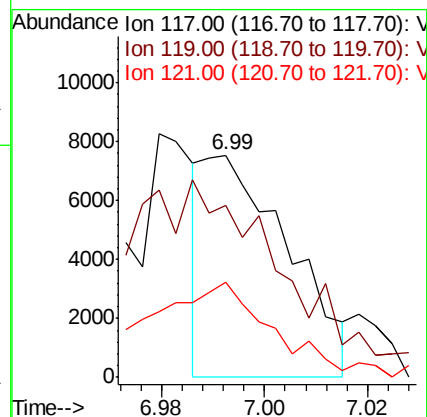
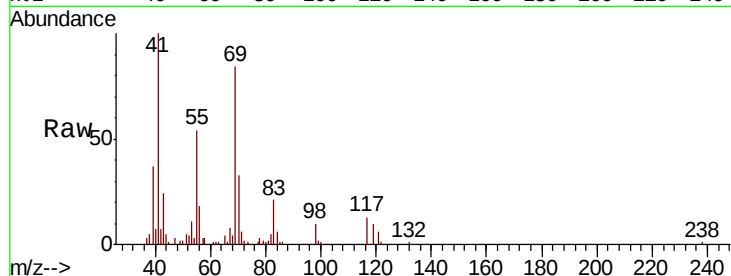
Tot Ion:117 Resp: 8608

Ion Ratio Lower Upper

117 100

119 84.3 76.6 114.8

121 53.1 25.8 38.6#



#36

Benzene

Concen: 3.001 ppbv

RT: 6.86 min Scan# 1267

Delta R.T. -0.01 min

Lab File: VL037023.D

Acq: 20 May 2021 14:41

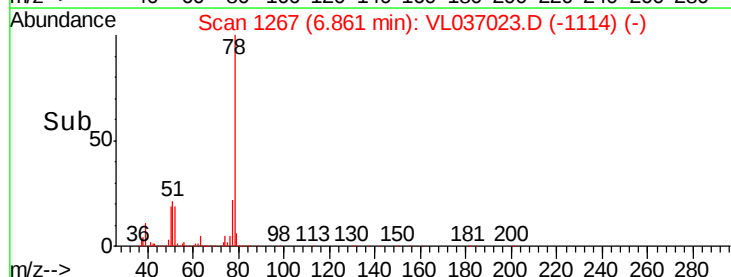
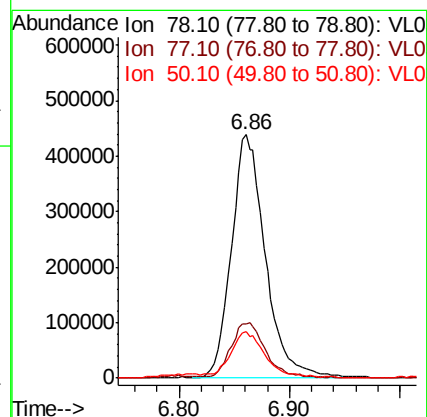
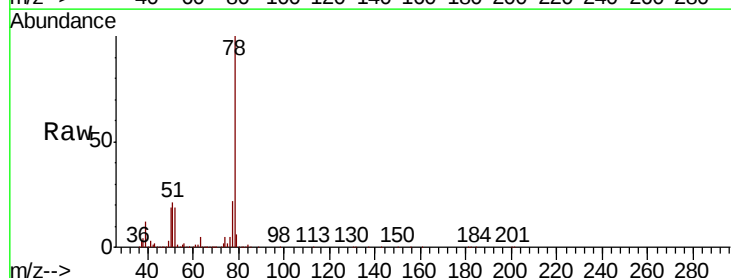
Tgt Ion: 78 Resp: 932953

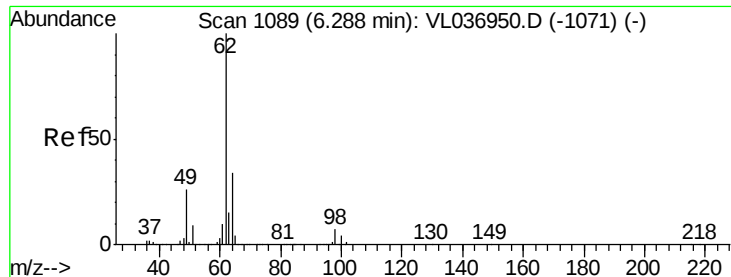
Ion Ratio Lower Upper

78 100

77 21.8 18.6 28.0

50 18.6 15.0 22.4





#37

1,2-Dichloroethane

Concen: 0.061 ppbv

RT: 6.28 min Scan# 1087

Delta R.T. -0.01 min

Lab File: VL037023.D

Acq: 20 May 2021 14:41

Instrument :

MSVOA_L

ClientSampleId :

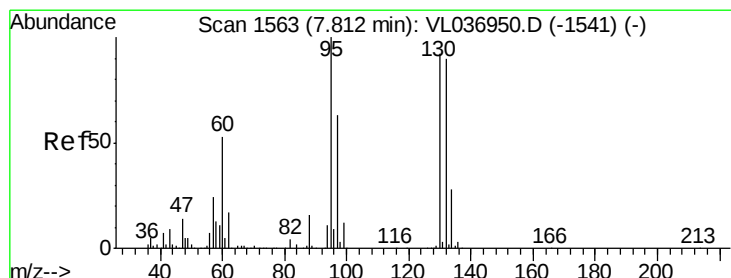
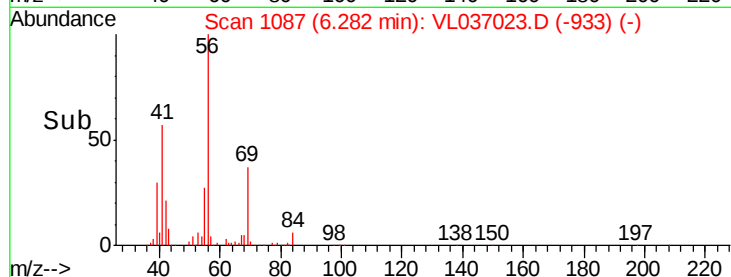
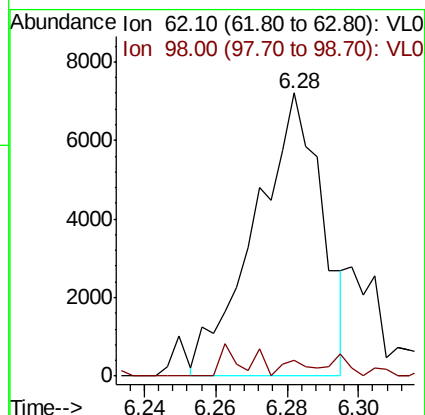
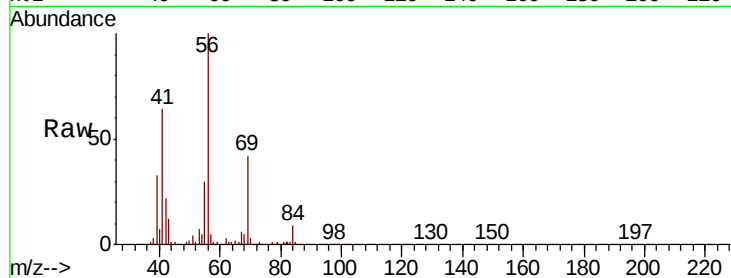
KSV-04

Tot Ion: 62 Resp: 9372

Ion Ratio Lower Upper

62 100

98 0.0 5.5 8.3#



#38

Trichloroethene

Concen: 0.032 ppbv

RT: 7.80 min Scan# 1559

Delta R.T. -0.01 min

Lab File: VL037023.D

Acq: 20 May 2021 14:41

Tgt Ion: 130 Resp: 4201

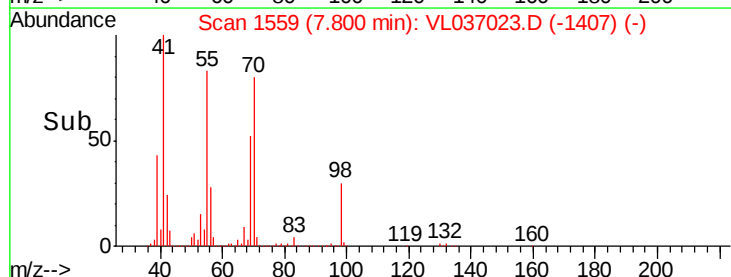
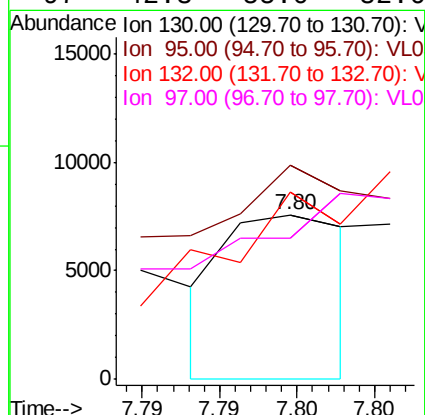
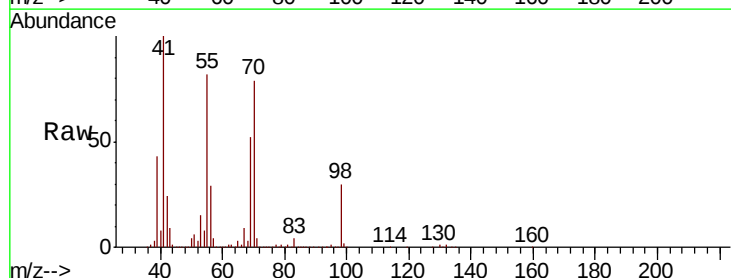
Ion Ratio Lower Upper

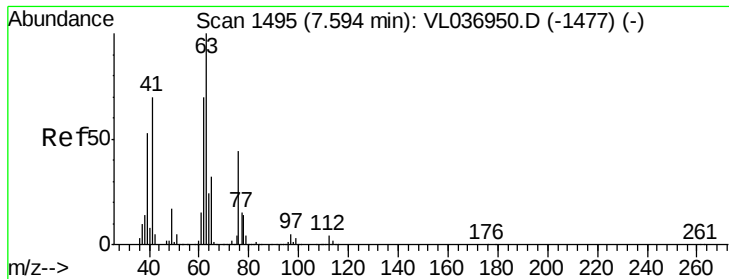
130 100

95 98.9 86.9 130.3

132 81.2 78.4 117.6

97 42.3 55.0 82.6#





#39

1,2-Dichloropropane

Concen: 0.239 ppbv

RT: 7.81 min Scan# 1561

Delta R.T. 0.21 min

Lab File: VL037023.D

Acq: 20 May 2021 14:41

Instrument :

MSVOA_L

ClientSampleId :

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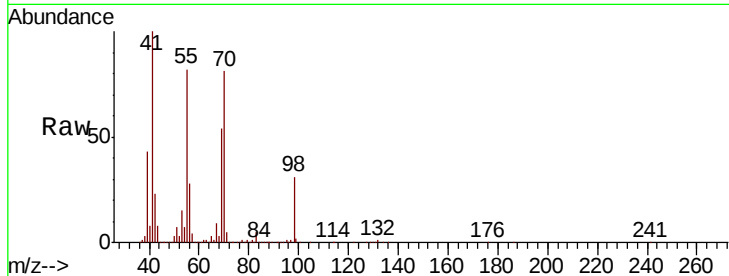
Tot Ion: 63 Resp: 28682

Ion Ratio Lower Upper

63 100

41 7287.4 55.7 83.5#

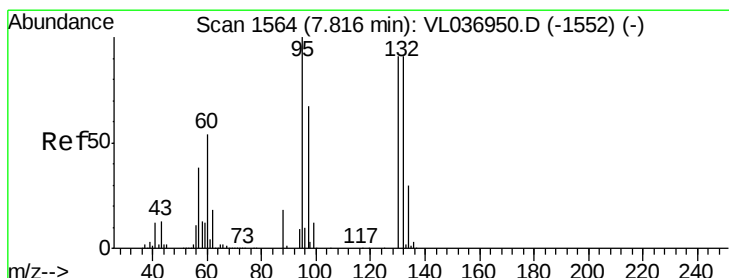
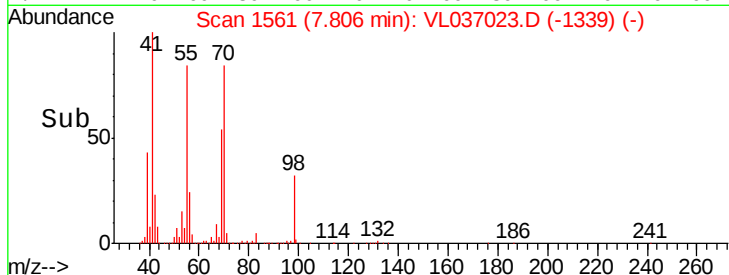
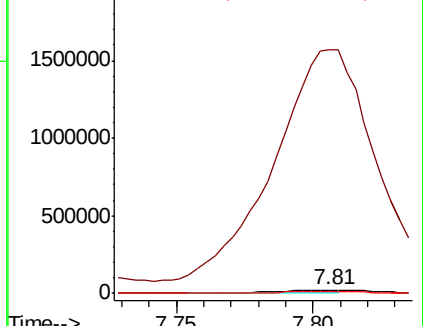
62 67.2 56.2 84.4



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



#40

1,4-Dioxane

Concen: 0.165 ppbv

RT: 7.81 min Scan# 1561

Delta R.T. -0.01 min

Lab File: VL037023.D

Acq: 20 May 2021 14:41

Tgt Ion: 88 Resp: 4659

Ion Ratio Lower Upper

88 100

58 0.0 0.0 0.0

43 8430.9 0.0 0.0#

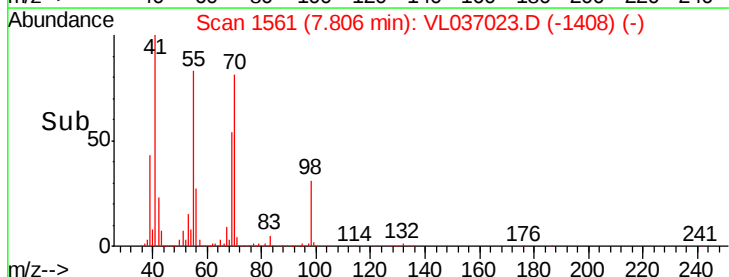
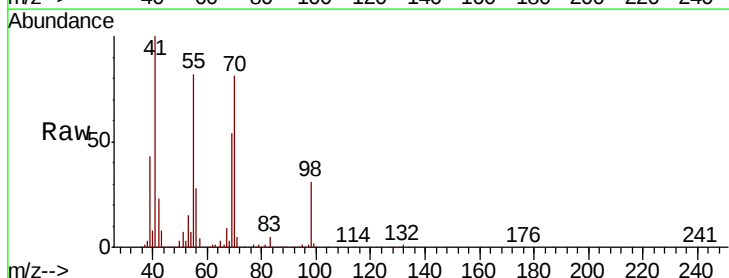
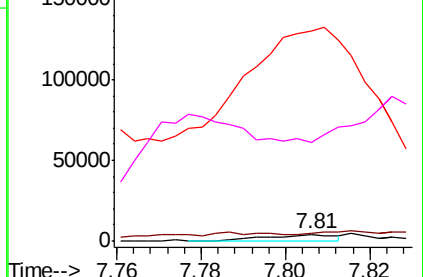
57 0.0 0.0 0.0

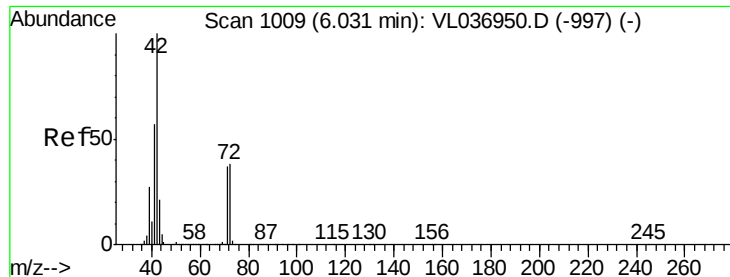
Abundance Ion 88.10 (87.80 to 88.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#41

Tetrahydrofuran

Concen: 0.261 ppbv

RT: 5.94 min Scan# 982

Delta R.T. -0.09 min

Lab File: VL037023.D

Acq: 20 May 2021 14:41

Instrument :

MSVOA_L

ClientSampleId :

KSV-04

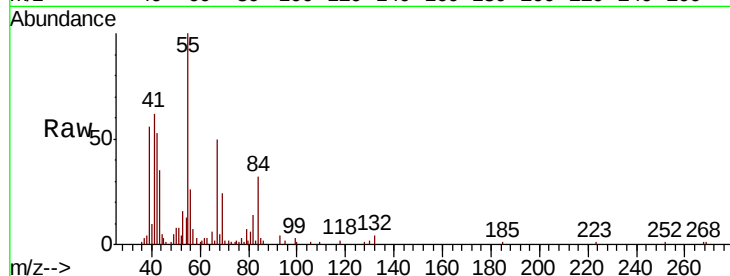
Tot Ion: 42 Resp: 19519

Ion Ratio Lower Upper

42 100

72 4.1 31.4 47.2#

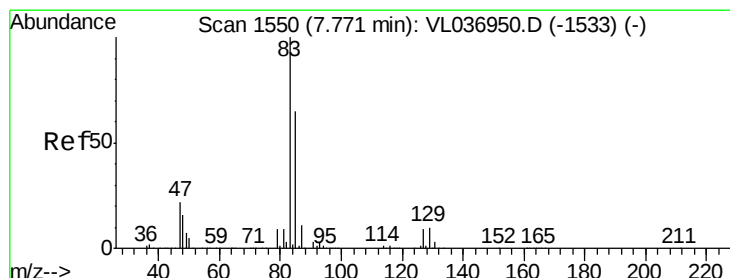
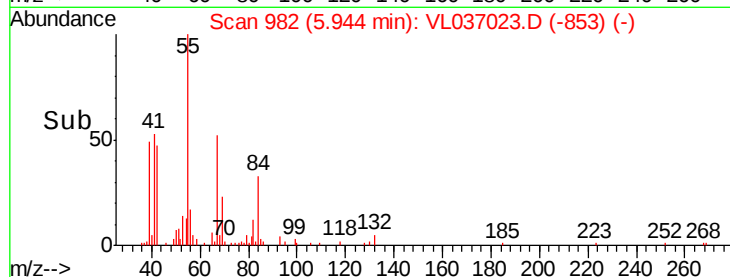
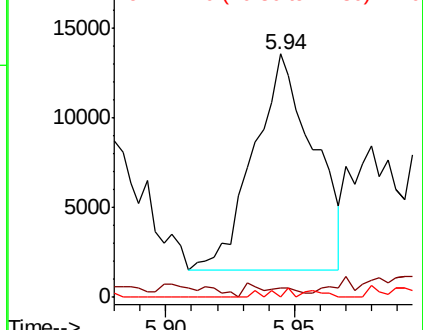
71 0.0 30.4 45.6#



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



#42

Bromodichloromethane

Concen: 0.832 ppbv

RT: 7.81 min Scan# 1562

Delta R.T. 0.04 min

Lab File: VL037023.D

Acq: 20 May 2021 14:41

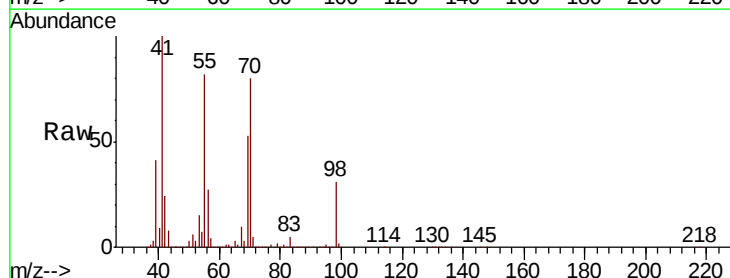
Tgt Ion: 83 Resp: 194078

Ion Ratio Lower Upper

83 100

85 0.0 51.7 77.5#

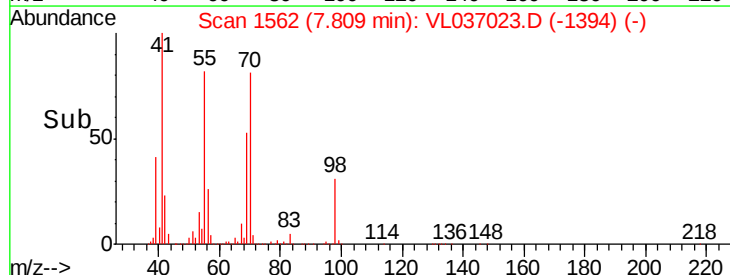
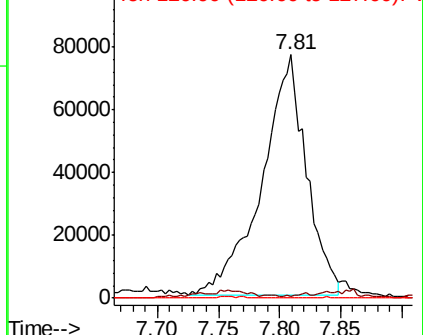
127 0.0 6.9 10.3#

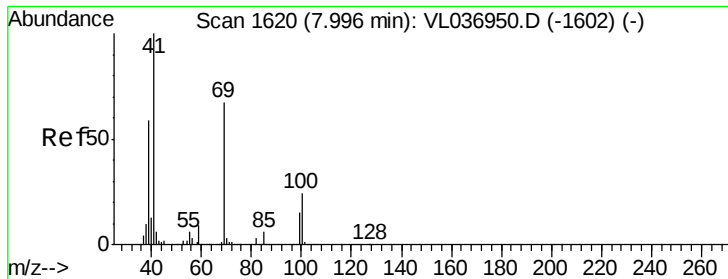


Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 126.90 (126.60 to 127.60): V

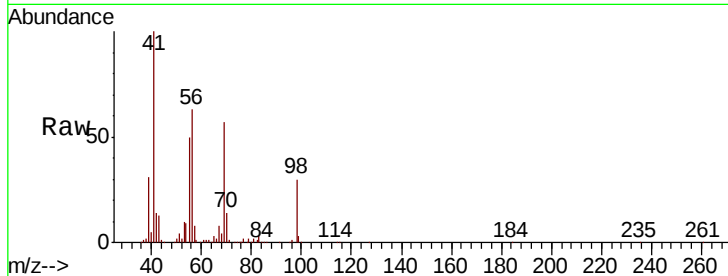




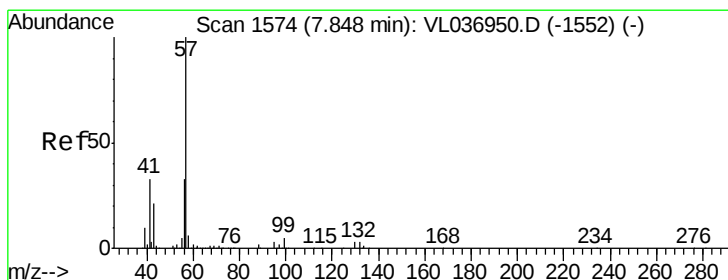
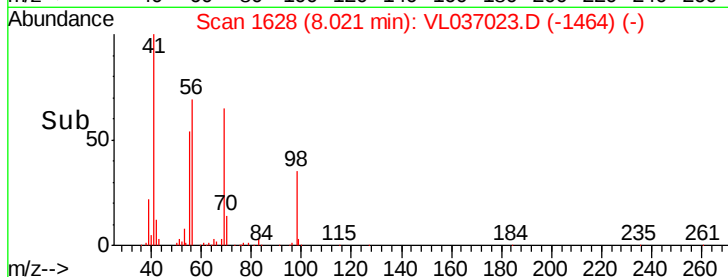
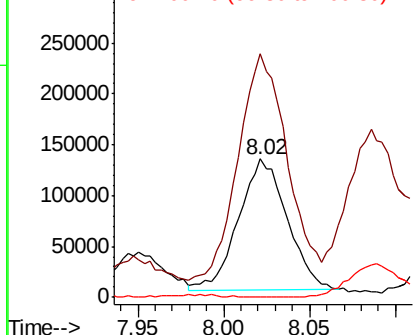
#43
Methvl Methacrilate
Concen: 2.362 ppbv
RT: 8.02 min Scan# 1628
Delta R.T. 0.03 min
Lab File: VL037023.D
Acq: 20 May 2021 14:41

Instrument :
MSVOA_L
ClientSampleId :
KSV-04

Tot Ion: 69 Resp: 253129
Ion Ratio Lower Upper
69 100
41 195.0 118.6 178.0#
100 2.4 28.2 42.4#

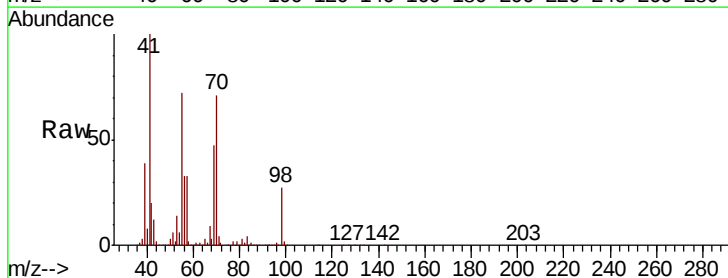


Abundance Ion 69.10 (68.80 to 69.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 100.10 (99.80 to 100.80): VL0

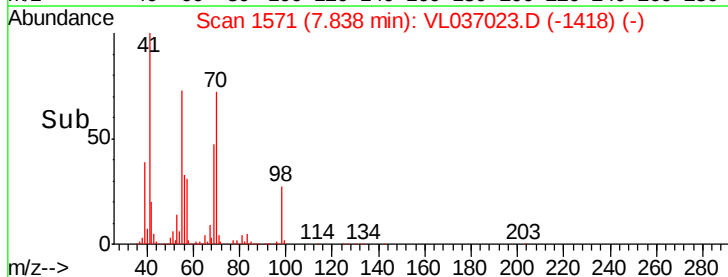
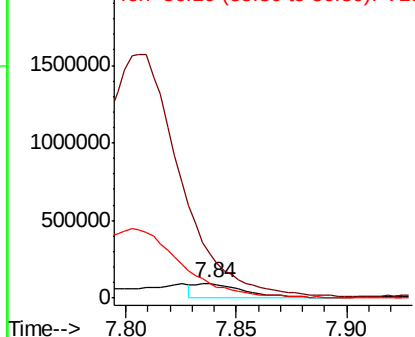


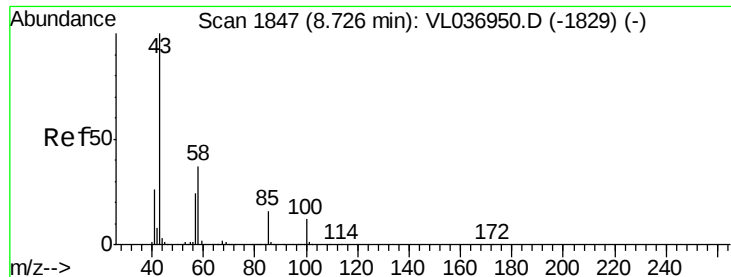
#44
2,2,4-Trimethylpentane
Concen: 0.252 ppbv
RT: 7.84 min Scan# 1571
Delta R.T. -0.01 min
Lab File: VL037023.D
Acq: 20 May 2021 14:41

Tgt Ion: 57 Resp: 134294
Ion Ratio Lower Upper
57 100
41 0.0 27.0 40.4#
56 0.0 25.4 38.2#



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

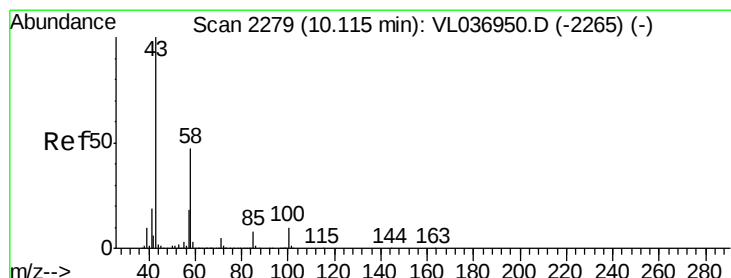
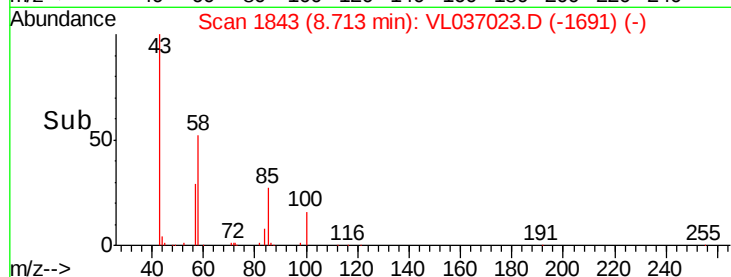
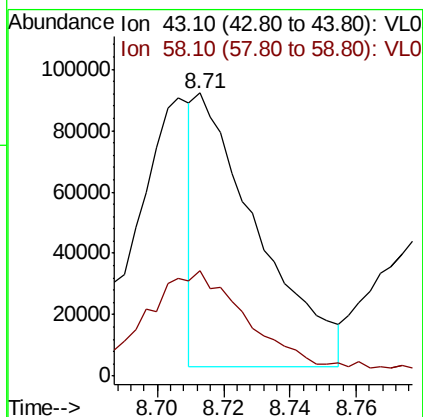
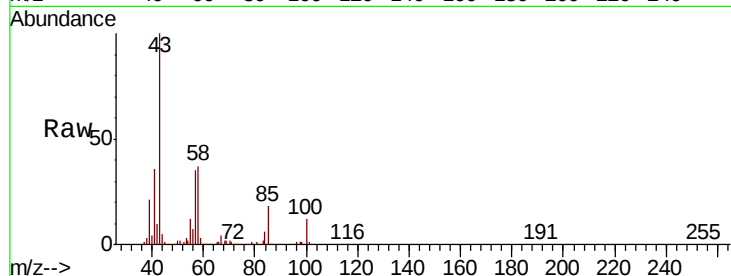




#50
 4-Methyl-2-Pentanone
 Concen: 0.536 ppbv
 RT: 8.71 min Scan# 1843
 Delta R.T. -0.01 min
 Lab File: VL037023.D
 Acq: 20 May 2021 14:41

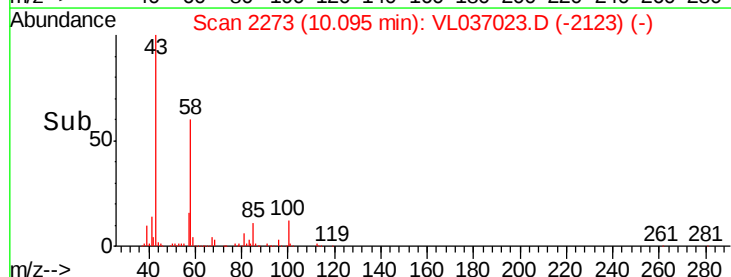
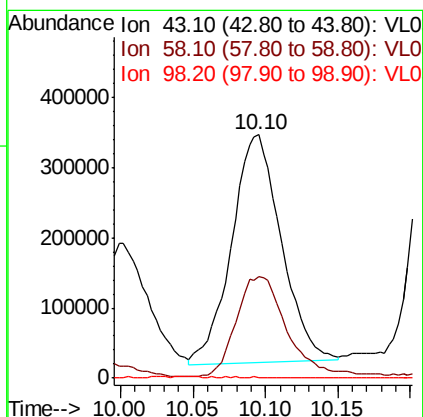
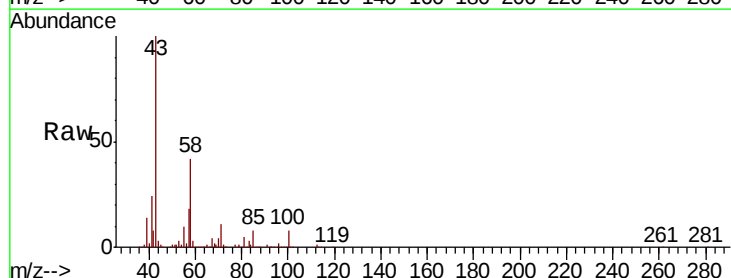
Instrument :
 MSVOA_L
 ClientSampleID :
 KSV-04

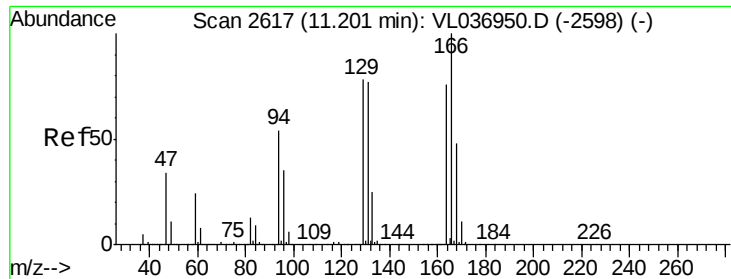
Tot Ion: 43 Resp: 116303
 Ion Ratio Lower Upper
 43 100
 58 70.7 29.4 44.2#



#51
 2-Hexanone
 Concen: 6.741 ppbv
 RT: 10.10 min Scan# 2273
 Delta R.T. -0.02 min
 Lab File: VL037023.D
 Acq: 20 May 2021 14:41

Tgt Ion: 43 Resp: 772881
 Ion Ratio Lower Upper
 43 100
 58 46.2 41.1 61.7
 98 0.1 0.1 0.1#





#52

Tetrachloroethene

Concen: 0.049 ppbv

RT: 11.19 min Scan# 2612

Delta R.T. -0.02 min

Lab File: VL037023.D

Acq: 20 May 2021 14:41

Instrument :

MSVOA_L

ClientSampleId :

KSV-04

Tot Ion:164 Resp: 6049

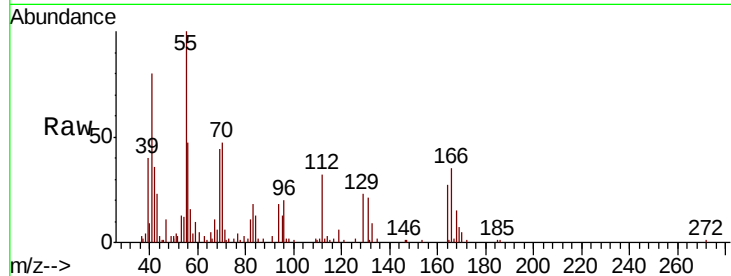
Ion Ratio Lower Upper

164 100

166 137.8 105.5 158.3

129 63.4 81.8 122.8#

131 38.4 81.2 121.8#

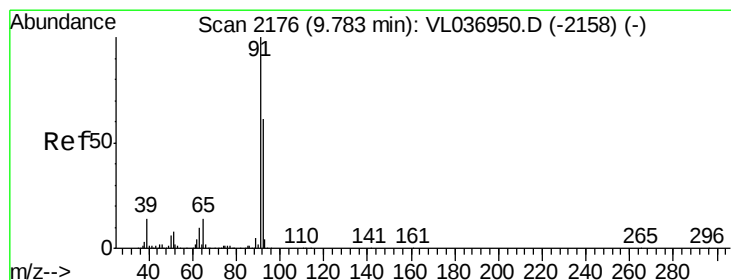
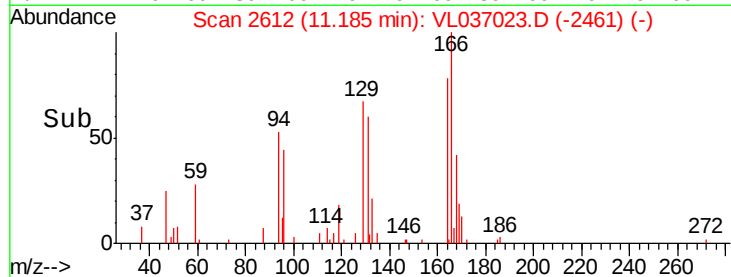
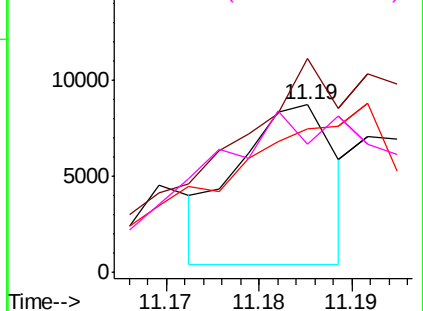


Abundance Ion 163.90 (163.60 to 164.60): V

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: 4.043 ppbv

RT: 9.77 min Scan# 2172

Delta R.T. -0.01 min

Lab File: VL037023.D

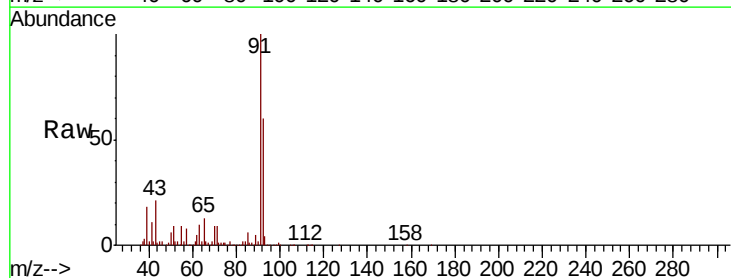
Acq: 20 May 2021 14:41

Tgt Ion: 91 Resp: 1495747

Ion Ratio Lower Upper

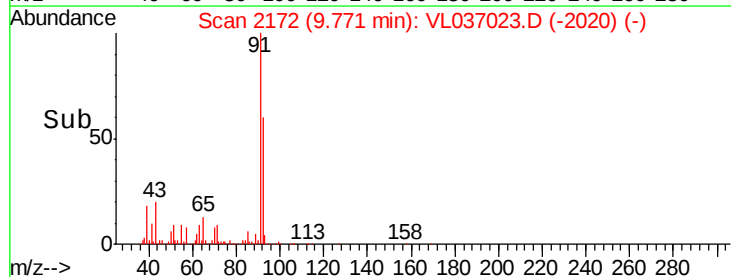
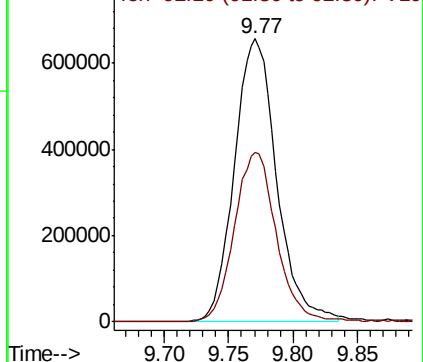
91 100

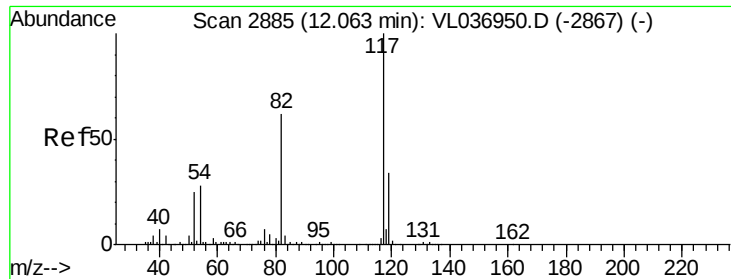
92 60.0 49.5 74.3



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

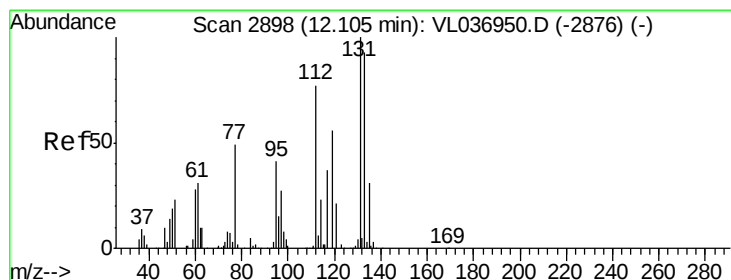
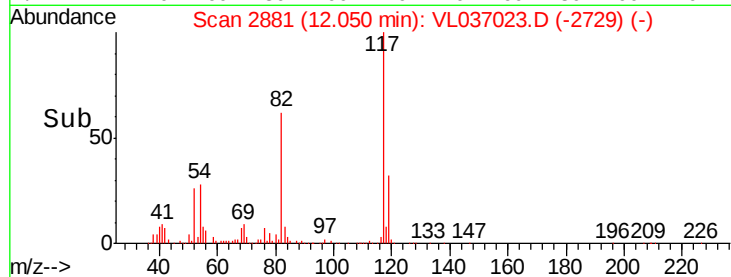
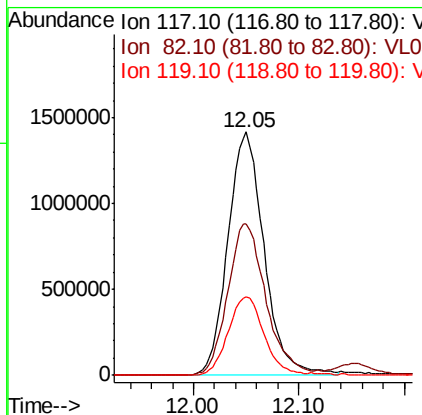
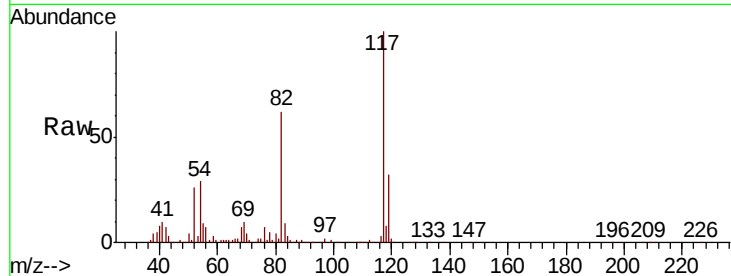




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.05 min Scan# 2881
Delta R.T. -0.01 min
Lab File: VL037023.D
Acq: 20 May 2021 14:41

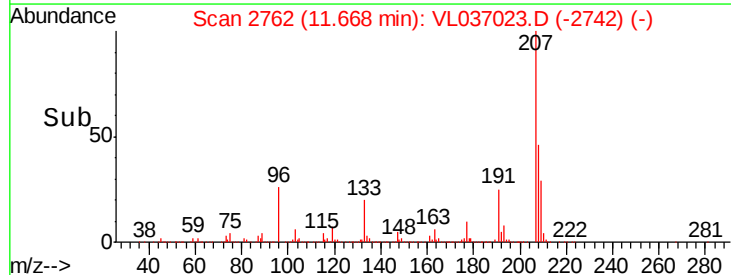
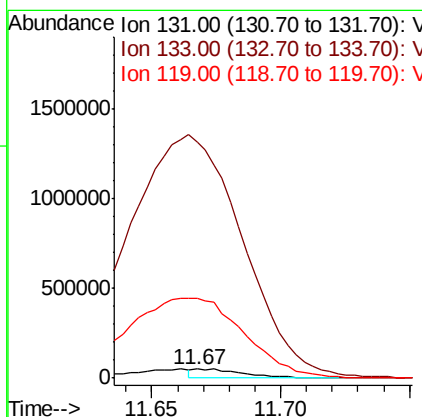
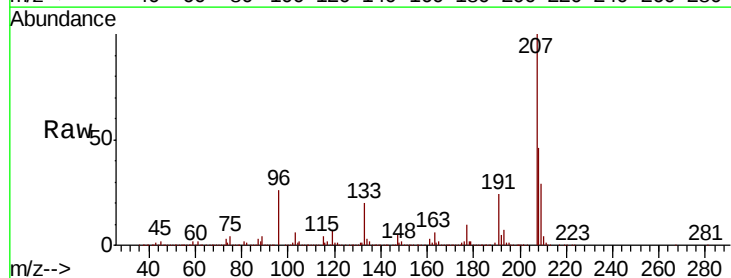
Instrument :
MSVOA_L
ClientSampleId :
KSV-04

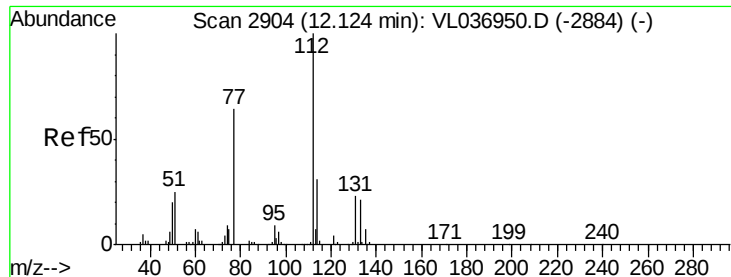
Tot Ion:117 Resp: 3365447
Ion Ratio Lower Upper
117 100
82 65.8 52.6 79.0
119 33.3 46.6 70.0#



#56
1,1,1,2-Tetrachloroethane
Concen: 0.493 ppbv
RT: 11.67 min Scan# 2762
Delta R.T. -0.44 min
Lab File: VL037023.D
Acq: 20 May 2021 14:41

Tgt Ion:131 Resp: 69802
Ion Ratio Lower Upper
131 100
133 6080.9 76.9 115.3#
119 2042.3 120.2 180.4#

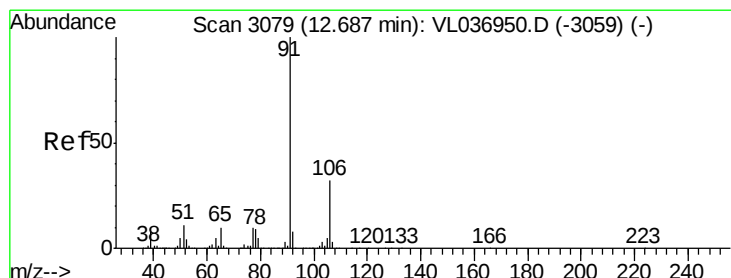
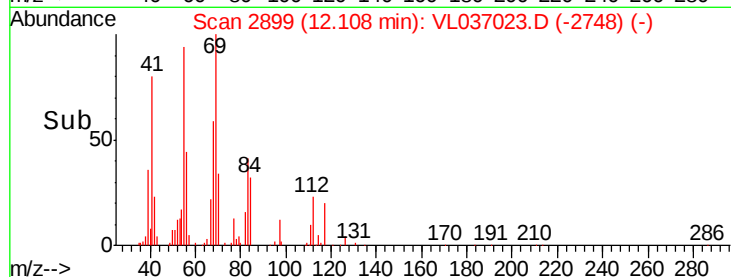
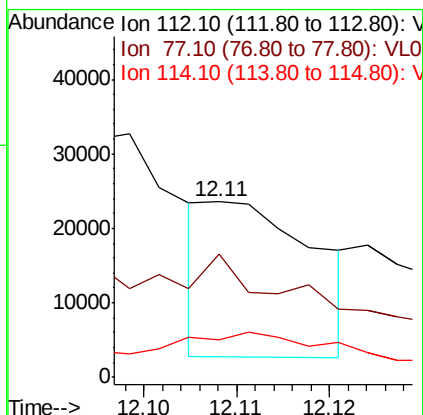
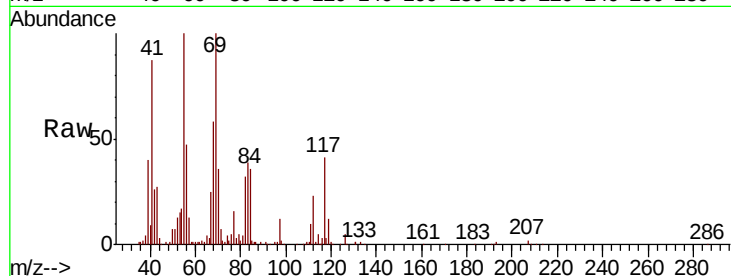




#57
Chlorobenzene
Concen: 0.065 ppbv
RT: 12.11 min Scan# 2899
Delta R.T. -0.02 min
Lab File: VL037023.D
Acq: 20 May 2021 14:41

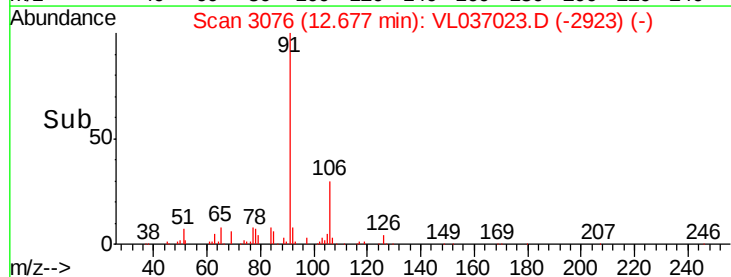
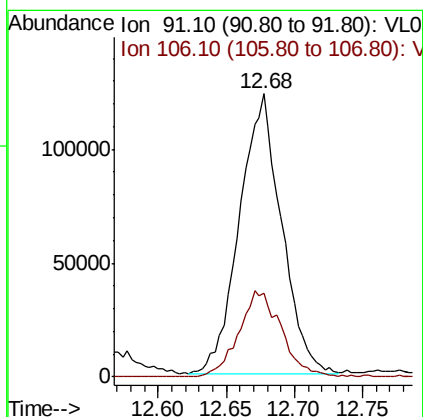
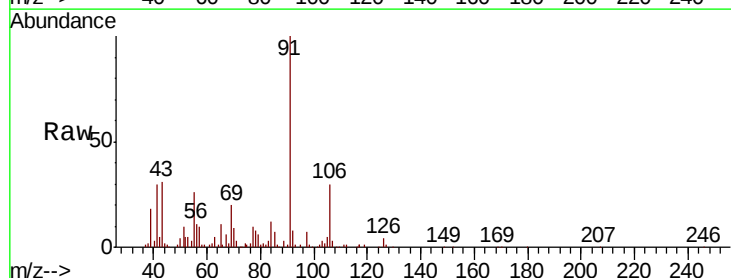
Instrument :
MSVOA_L
ClientSampleId :
KSV-04

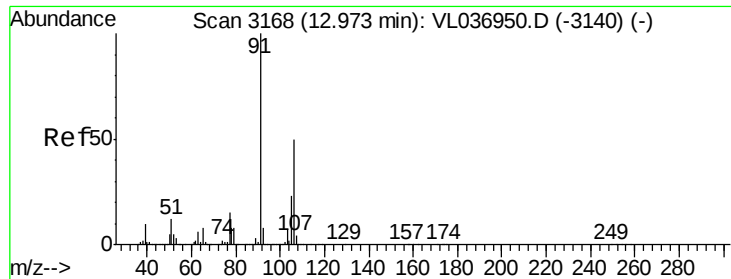
Tot Ion:112 Resp: 16884
Ion Ratio Lower Upper
112 100
77 114.0 51.0 76.6#
114 9.7 28.3 34.5#



#58
Ethyl Benzene
Concen: 0.557 ppbv
RT: 12.68 min Scan# 3076
Delta R.T. -0.01 min
Lab File: VL037023.D
Acq: 20 May 2021 14:41

Tgt Ion: 91 Resp: 264557
Ion Ratio Lower Upper
91 100
106 29.9 25.6 38.4

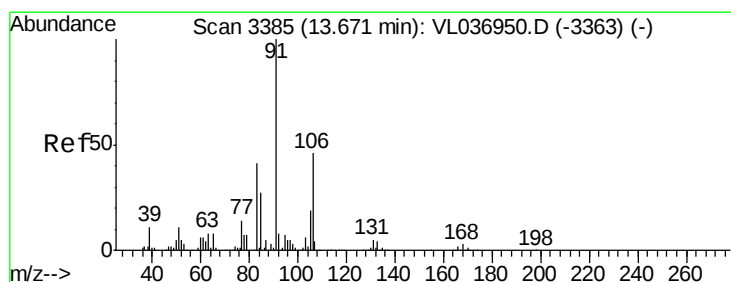
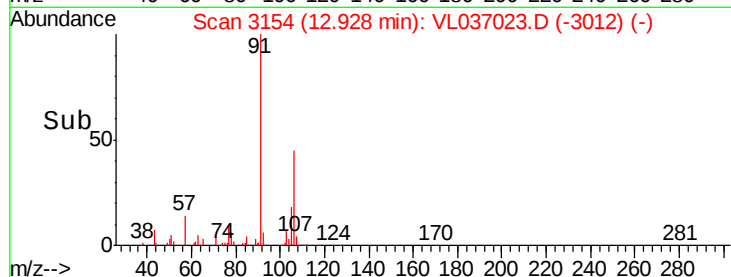
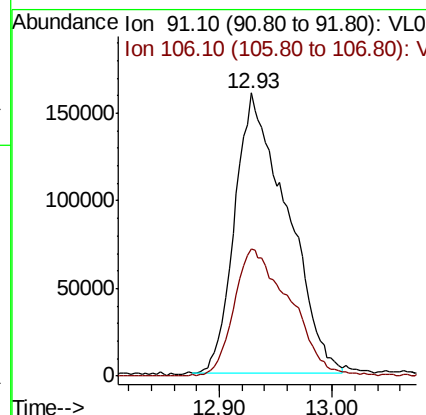
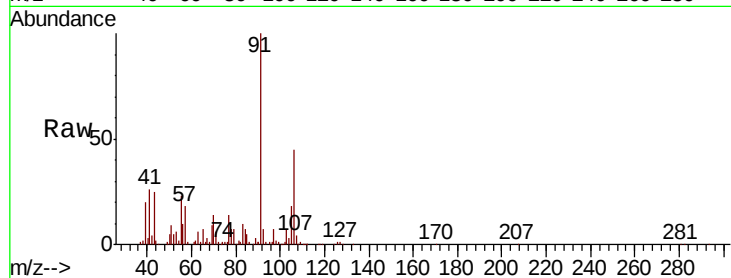




#59
m/p-Xylene
Concen: 1.309 ppbv
RT: 12.93 min Scan# 3154
Delta R.T. -0.04 min
Lab File: VL037023.D
Acq: 20 May 2021 14:41

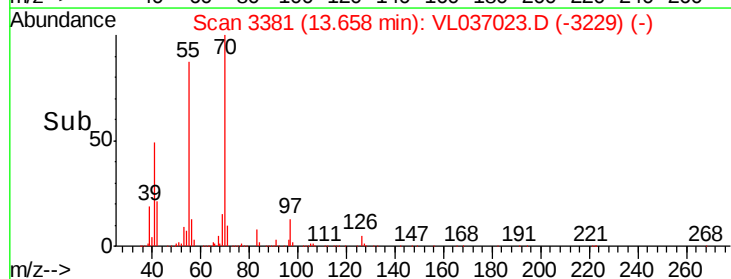
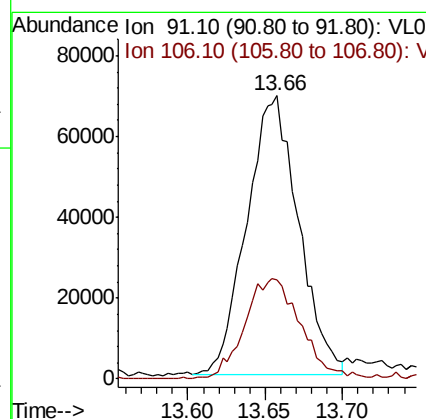
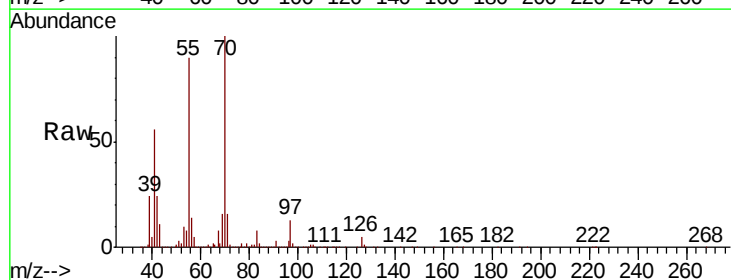
Instrument :
MSVOA_L
ClientSampleId :
KSV-04

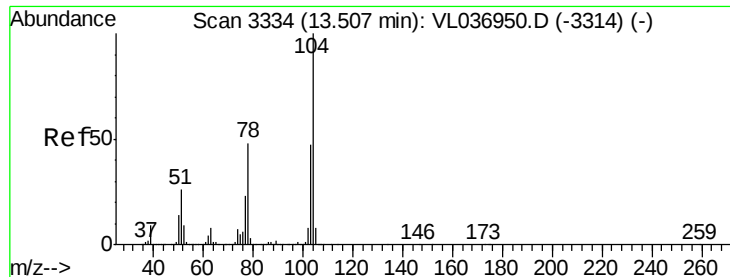
Tot Ion: 91 Resp: 513787
Ion Ratio Lower Upper
91 100
106 48.8 37.4 56.2



#60
o-Xylene
Concen: 0.428 ppbv
RT: 13.66 min Scan# 3381
Delta R.T. -0.01 min
Lab File: VL037023.D
Acq: 20 May 2021 14:41

Tgt Ion: 91 Resp: 160173
Ion Ratio Lower Upper
91 100
106 39.4 23.4 70.3





#61

Stvrene

Concen: 0.720 ppbv

RT: 13.49 min Scan# 3329

Delta R.T. -0.02 min

Lab File: VL037023.D

Acq: 20 May 2021 14:41

Instrument :

MSVOA_L

ClientSampleId :

KSV-04

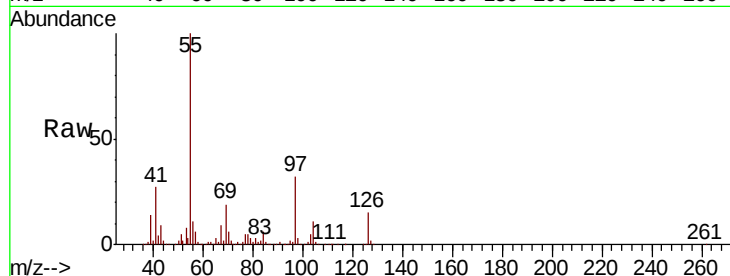
Tot Ion:104 Resp: 151848

Ion Ratio Lower Upper

104 100

78 60.3 39.0 58.6#

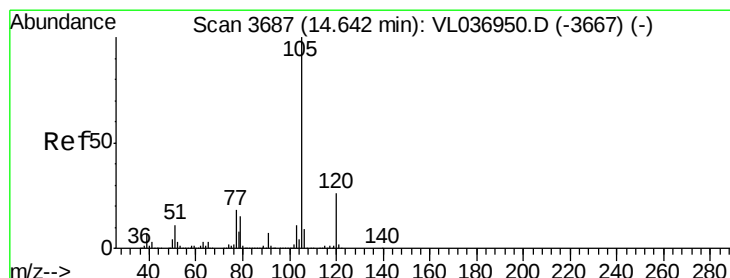
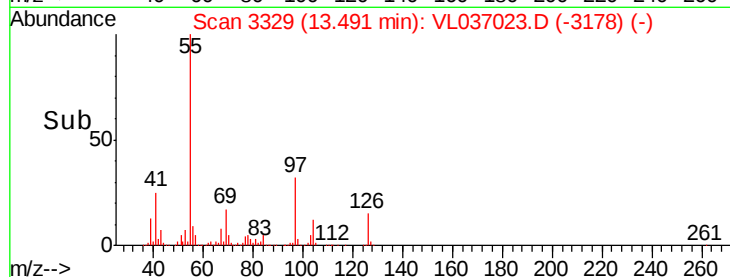
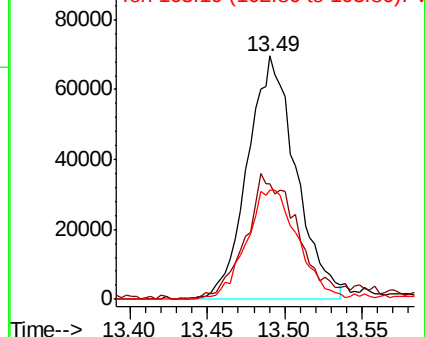
103 49.6 38.0 57.0



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V



#62

Isopropylbenzene

Concen: 0.052 ppbv

RT: 14.63 min Scan# 3682

Delta R.T. -0.02 min

Lab File: VL037023.D

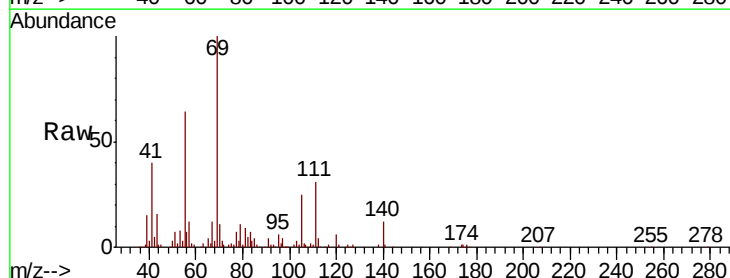
Acq: 20 May 2021 14:41

Tgt Ion:105 Resp: 28168

Ion Ratio Lower Upper

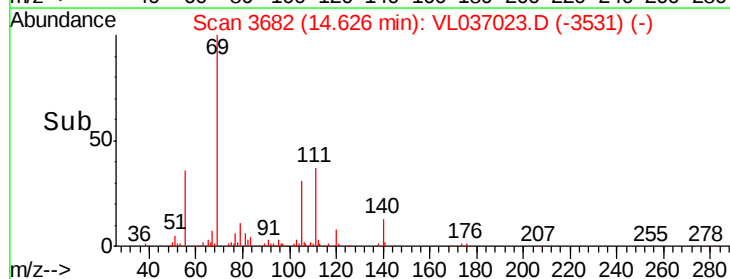
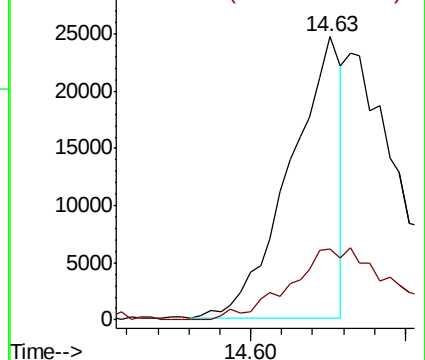
105 100

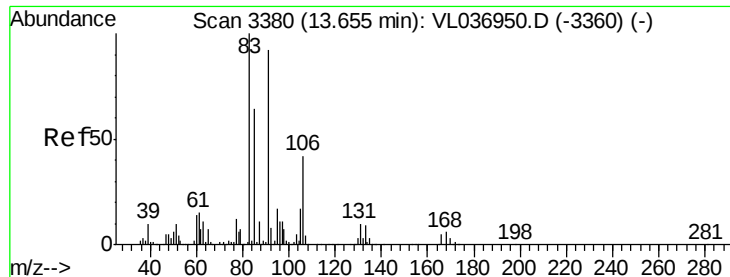
120 0.0 21.7 32.5#



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

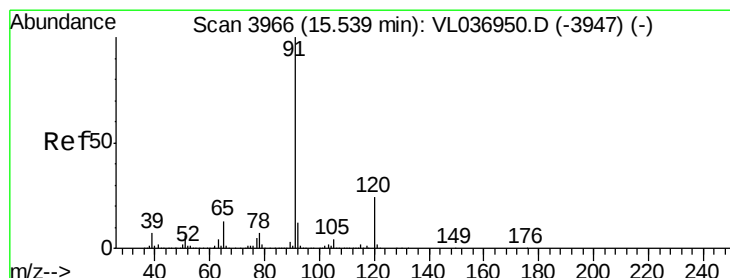
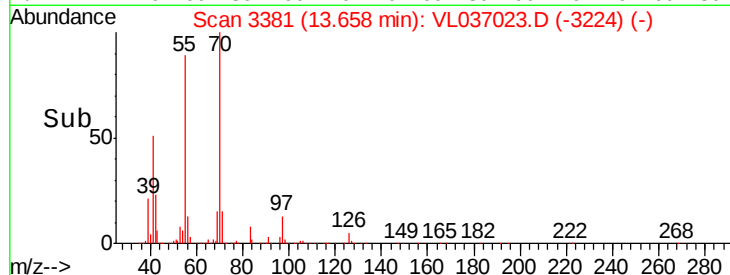
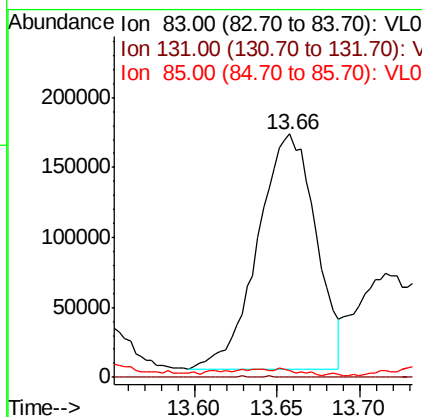
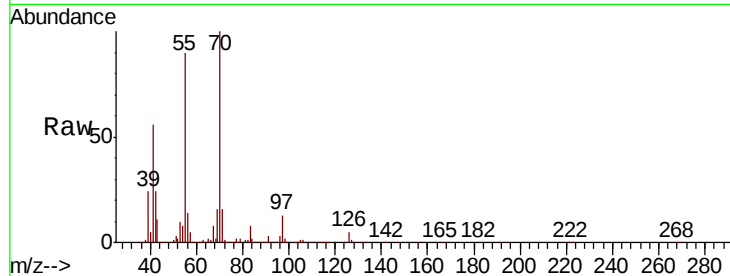




#63
 1,1,2,2-Tetrachloroethane
 Concen: 1.462 ppbv
 RT: 13.66 min Scan# 3381
 Delta R.T. 0.00 min
 Lab File: VL037023.D
 Acq: 20 May 2021 14:41

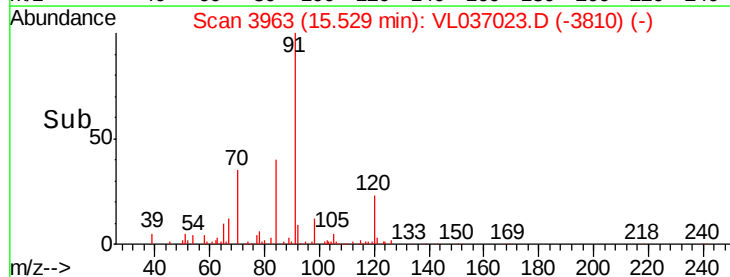
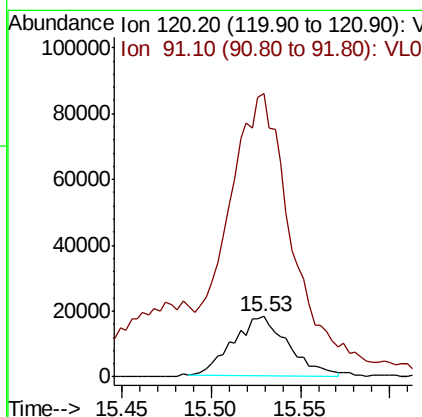
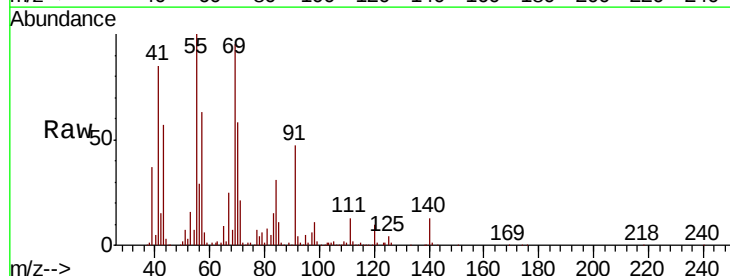
Instrument :
 MSVOA_L
 ClientSampleId :
 KSV-04

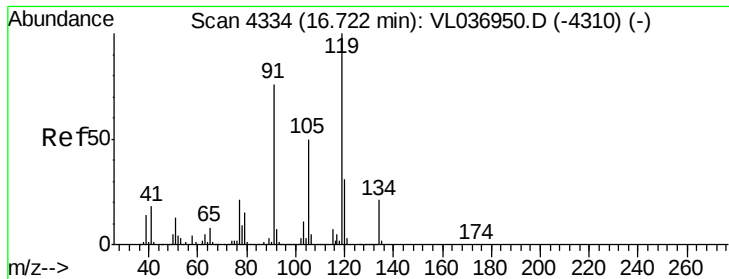
Tot Ion: 83 Resp: 409013
 Ion Ratio Lower Upper
 83 100
 131 0.3 5.0 15.0#
 85 3.6 32.9 98.6#



#64
 n-propylbenzene
 Concen: 0.283 ppbv
 RT: 15.53 min Scan# 3963
 Delta R.T. -0.01 min
 Lab File: VL037023.D
 Acq: 20 May 2021 14:41

Tgt Ion:120 Resp: 39260
 Ion Ratio Lower Upper
 120 100
 91 653.2 343.8 515.6#





#65

tert-Butylbenzene

Concen: 0.195 ppbv

RT: 16.74 min Scan# 4341

Delta R.T. 0.02 min

Lab File: VL037023.D

Acq: 20 May 2021 14:41

Instrument :

MSVOA_L

ClientSampled :

KSV-04

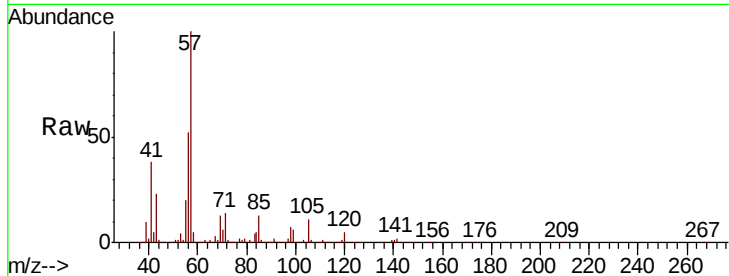
Tot Ion:119 Resp: 94832

Ion Ratio Lower Upper

119 100

91 127.6 61.9 92.9#

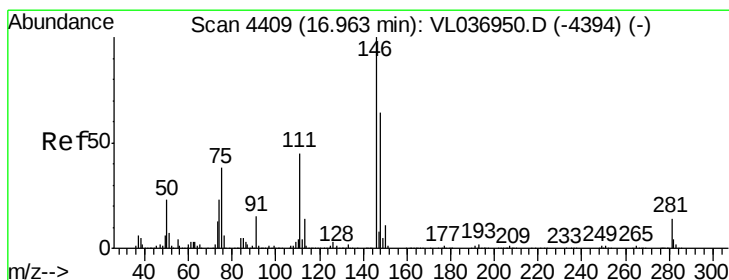
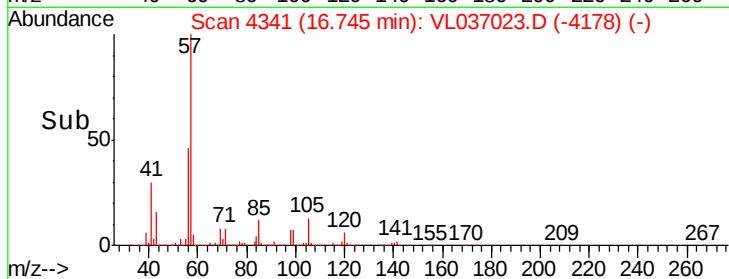
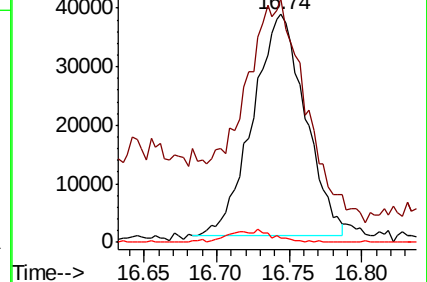
134 4.9 16.2 24.4#



Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V



#66

Benzyl Chloride

Concen: 0.047 ppbv

RT: 16.94 min Scan# 4403

Delta R.T. -0.02 min

Lab File: VL037023.D

Acq: 20 May 2021 14:41

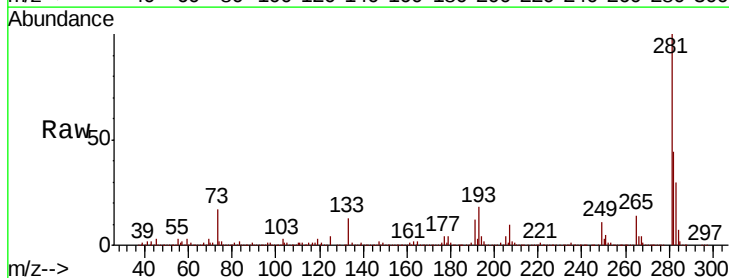
Tgt Ion: 91 Resp: 1274

Ion Ratio Lower Upper

91 100

126 0.0 16.5 24.7#

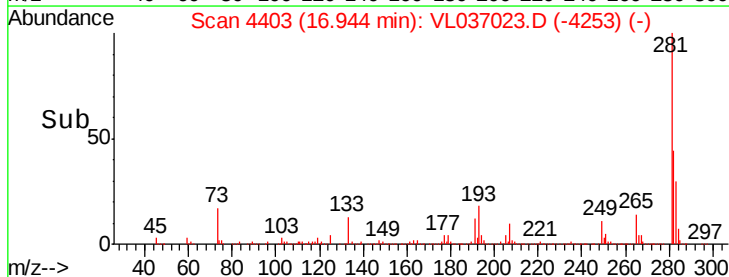
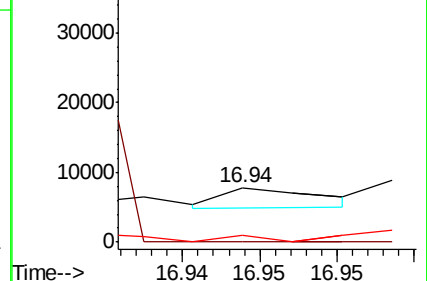
128 0.0 5.5 8.3#

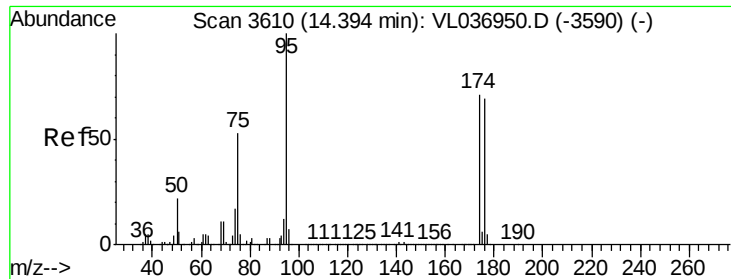


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V





#68

1-Bromo-4-Fluorobenzene

Concen: 9.807 ppbv

RT: 14.38 min Scan# 3605

Delta R.T. -0.02 min

Lab File: VL037023.D

Acq: 20 May 2021 14:41

Instrument :

MSVOA_L

ClientSampleId :

KSV-04

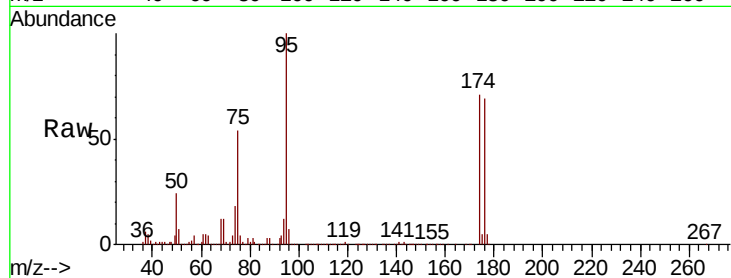
Tot Ion: 95 Resp: 2479492

Ion Ratio Lower Upper

95 100

174 75.1 58.4 87.6

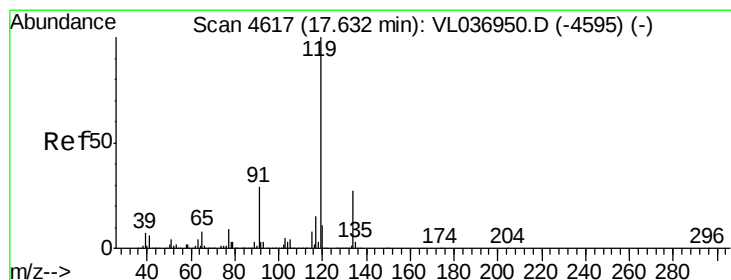
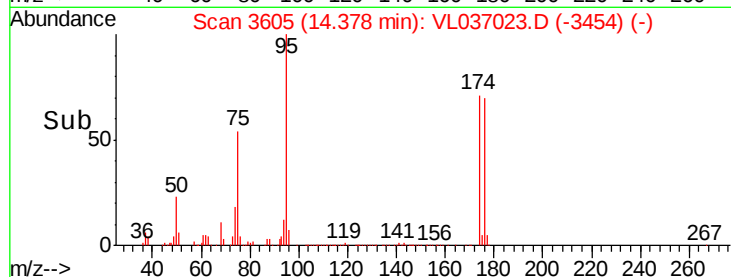
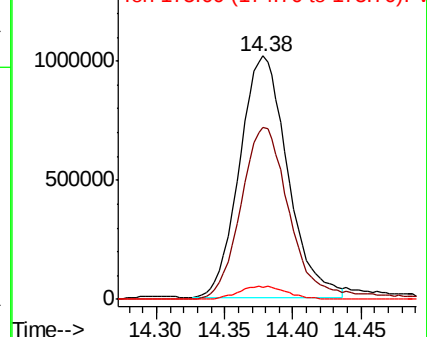
175 5.7 4.4 6.6



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



#69

p-Isopropyltoluene

Concen: 0.069 ppbv

RT: 17.63 min Scan# 4616

Delta R.T. -0.00 min

Lab File: VL037023.D

Acq: 20 May 2021 14:41

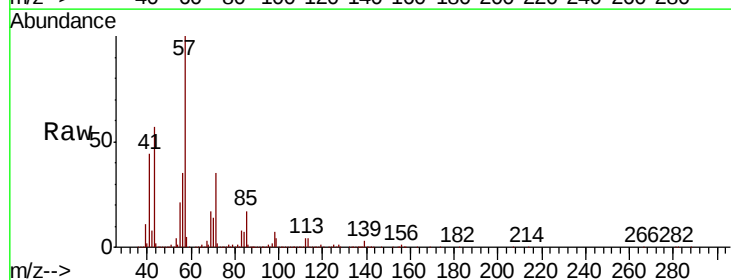
Tgt Ion: 119 Resp: 39419

Ion Ratio Lower Upper

119 100

134 42.1 21.2 31.8#

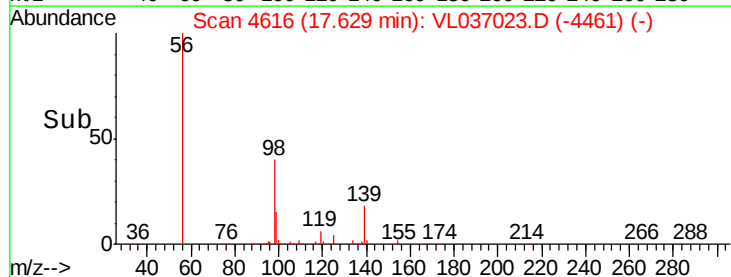
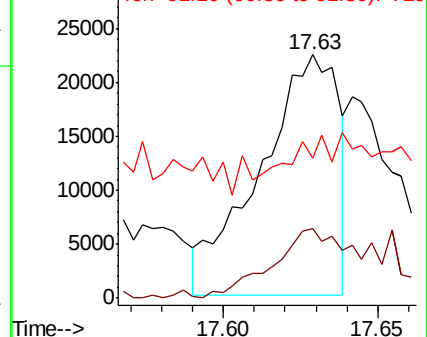
91 0.0 22.2 33.4#

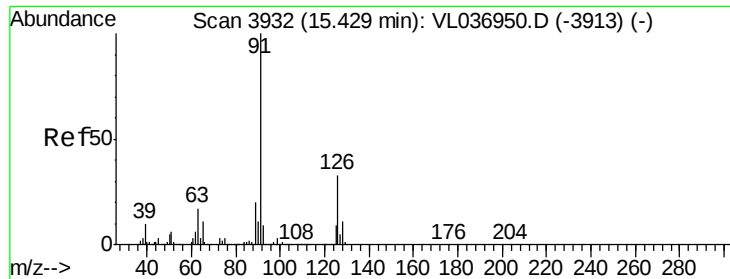


Abundance Ion 119.10 (118.80 to 119.80): V

Ion 134.20 (133.90 to 134.90): V

Ion 91.10 (90.80 to 91.80): VL0

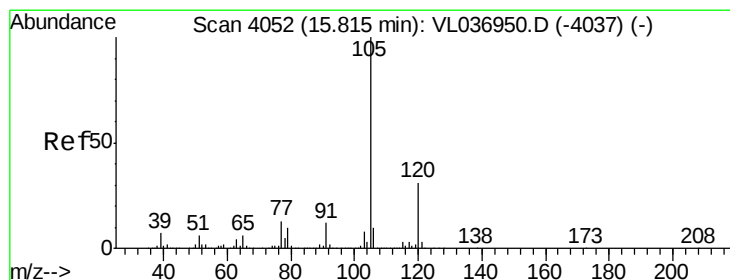
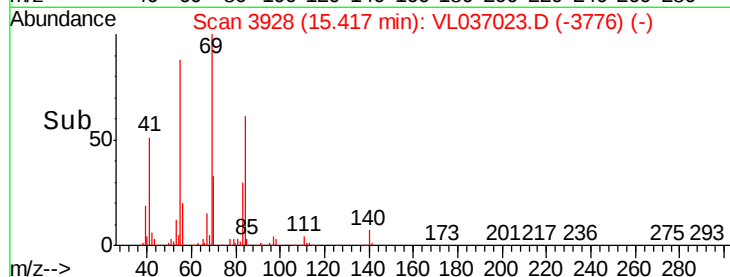
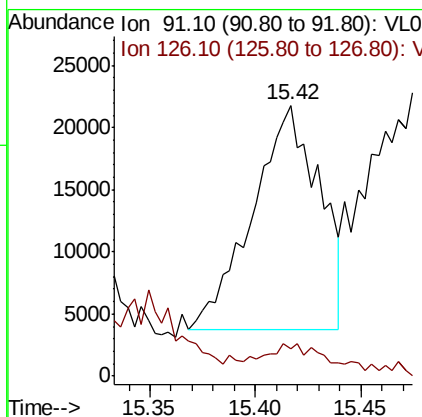
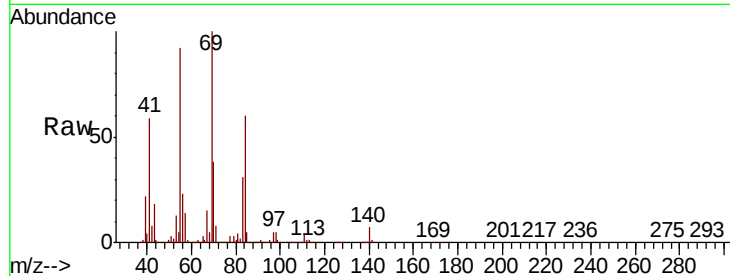




#71
 2-Chlorotoluene
 Concen: 0.103 ppbv
 RT: 15.42 min Scan# 3928
 Delta R.T. -0.01 min
 Lab File: VL037023.D
 Acq: 20 May 2021 14:41

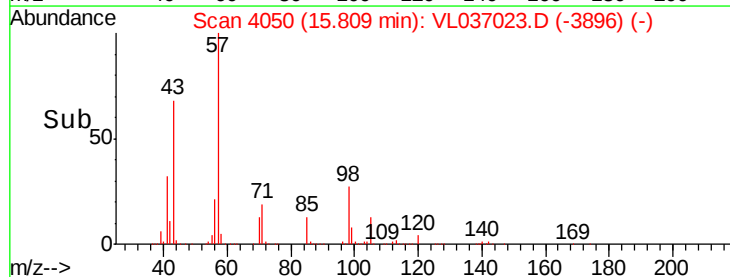
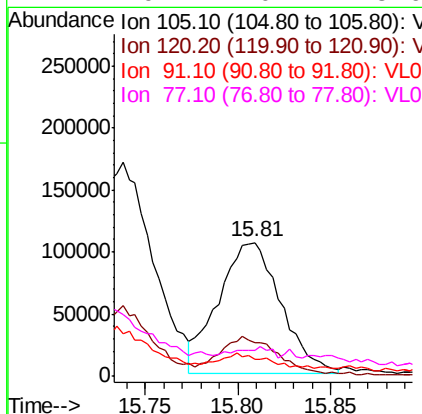
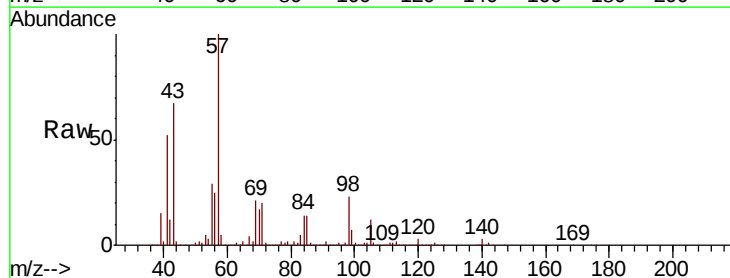
Instrument :
 MSVOA_L
 ClientSampled :
 KSV-04

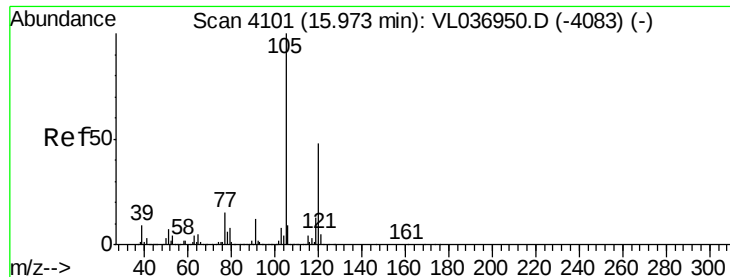
Tot Ion: 91 Resp: 39956
 Ion Ratio Lower Upper
 91 100
 126 0.0 13.1 52.5#



#72
 4-Ethyltoluene
 Concen: 0.558 ppbv
 RT: 15.81 min Scan# 4050
 Delta R.T. -0.01 min
 Lab File: VL037023.D
 Acq: 20 May 2021 14:41

Tgt Ion: 105 Resp: 248197
 Ion Ratio Lower Upper
 105 100
 120 31.4 24.6 37.0
 91 13.3 9.8 14.6
 77 19.1 10.4 15.6#





#73

1,3,5-Trimethylbenzene

Concen: 0.537 ppbv

RT: 15.97 min Scan# 4099

Delta R.T. -0.01 min

Lab File: VL037023.D

Acq: 20 May 2021 14:41

Instrument :

MSVOA_L

ClientSampled :

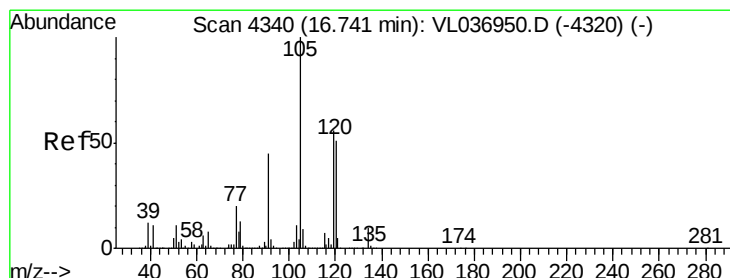
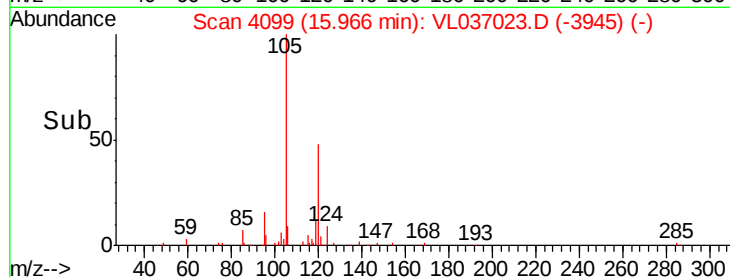
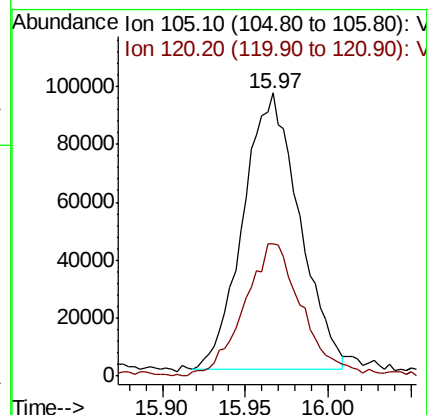
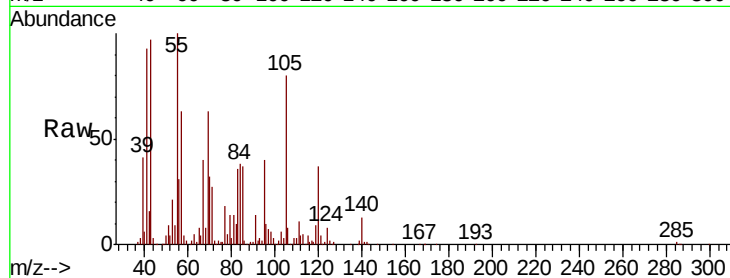
KSV-04

Tot Ion:105 Resp: 224037

Ion Ratio Lower Upper

105 100

120 46.4 38.6 58.0



#74

1,2,4-Trimethylbenzene

Concen: 1.660 ppbv

RT: 16.74 min Scan# 4341

Delta R.T. 0.00 min

Lab File: VL037023.D

Acq: 20 May 2021 14:41

Tgt Ion:105 Resp: 716401

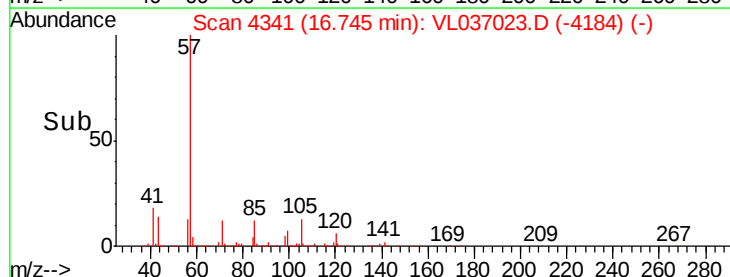
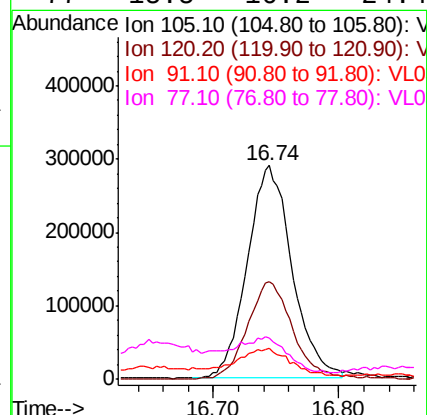
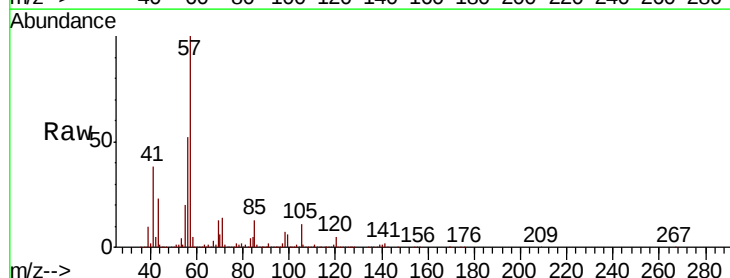
Ion Ratio Lower Upper

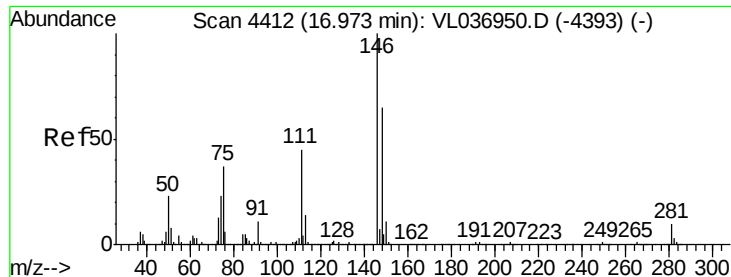
105 100

120 45.5 40.6 61.0

91 13.0 37.4 56.0#

77 15.5 16.2 24.4#





#75

1,3-Dichlorobenzene

Concen: 0.062 ppbv

RT: 16.96 min Scan# 4408

Delta R.T. -0.01 min

Lab File: VL037023.D

Acq: 20 May 2021 14:41

Instrument :

MSVOA_L

ClientSampleId :

KSV-04

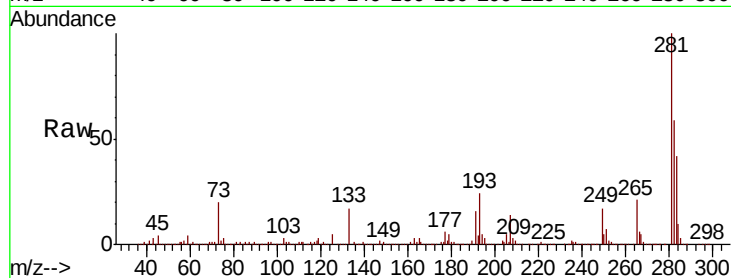
Tot Ion:146 Resp: 16213

Ion Ratio Lower Upper

146 100

111 0.0 22.2 66.6#

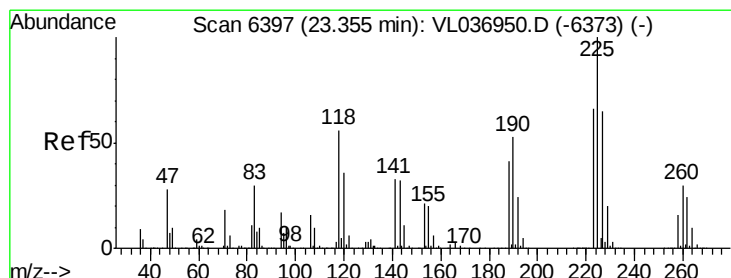
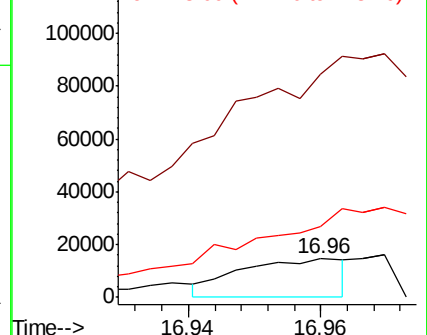
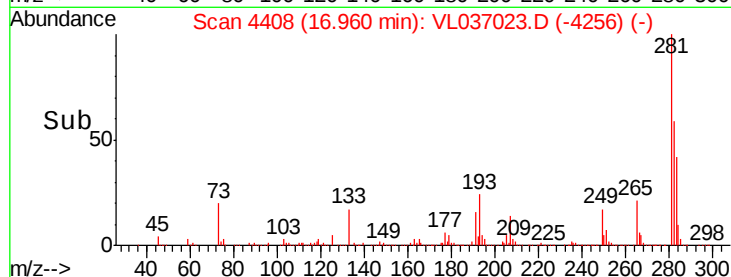
148 0.0 32.3 96.8#



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#78

Hexachloro-1,3-Butadiene

Concen: 0.132 ppbv

RT: 23.35 min Scan# 6394

Delta R.T. -0.01 min

Lab File: VL037023.D

Acq: 20 May 2021 14:41

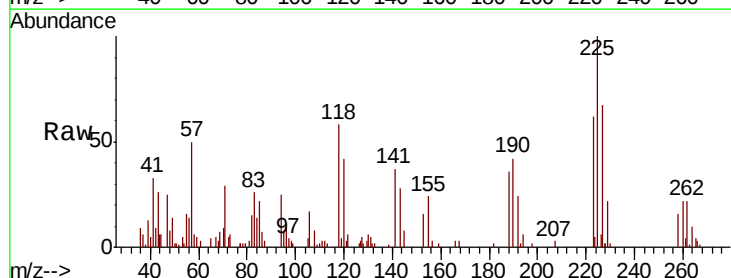
Tgt Ion:225 Resp: 28055

Ion Ratio Lower Upper

225 100

223 71.3 51.9 77.9

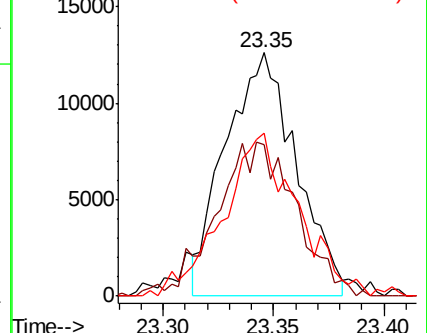
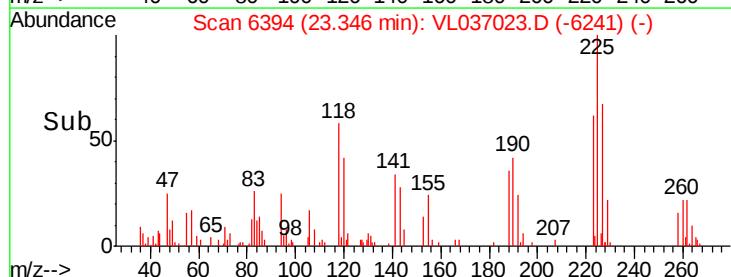
227 71.6 51.8 77.6

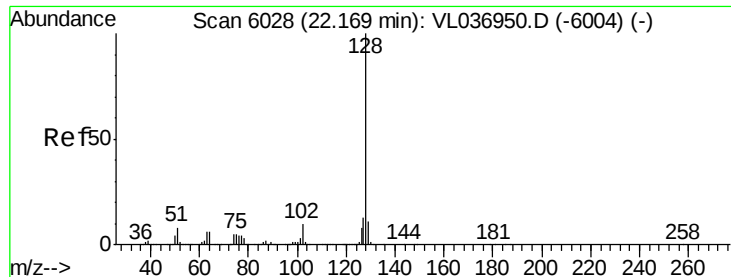


Abundance Ion 224.90 (224.60 to 225.60): V

Ion 222.90 (222.60 to 223.60): V

Ion 226.90 (226.60 to 227.60): V

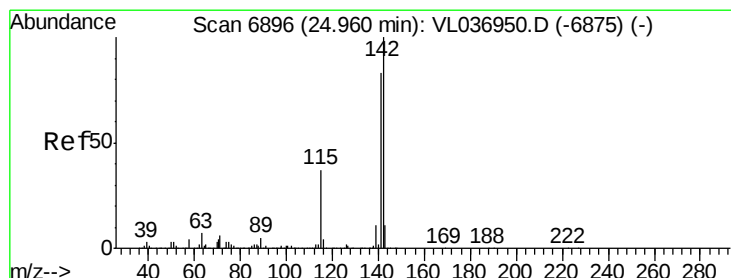
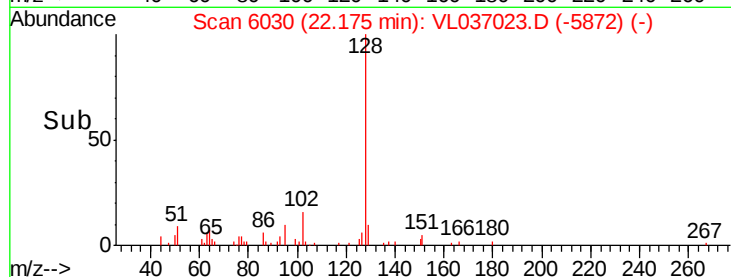
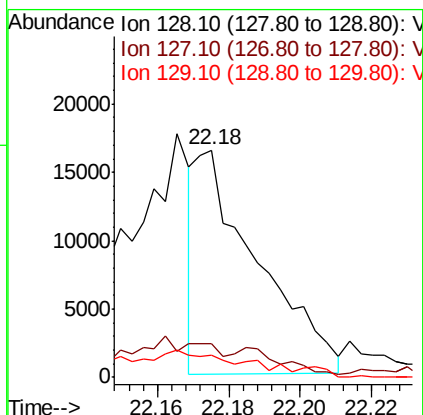
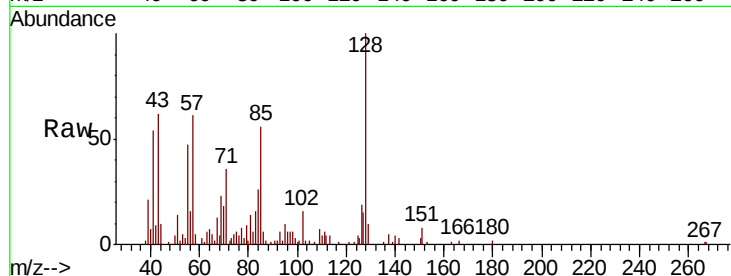




#79
Naphthalene
Concen: 0.058 ppbv
RT: 22.18 min Scan# 6030
Delta R.T. 0.01 min
Lab File: VL037023.D
Acq: 20 May 2021 14:41

Instrument :
MSVOA_L
ClientSampleId :
KSV-04

Tot Ion:128 Resp: 19579
Ion Ratio Lower Upper
128 100
127 14.4 10.4 15.6
129 10.6 9.0 13.6



#80
Naphthalene, 2-methyl-
Concen: 0.152 ppbv
RT: 24.94 min Scan# 6889
Delta R.T. -0.02 min
Lab File: VL037023.D
Acq: 20 May 2021 14:41

Tgt Ion:142 Resp: 11213
Ion Ratio Lower Upper
142 100
141 104.5 69.3 103.9#
115 47.9 29.1 43.7#

