

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL051921\
 Data File : VL037001.D
 Acq On : 19 May 2021 21:09
 Operator : SY/AP
 Sample : M2424-04
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 KSV-01

Manual Integrations
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 5/24/2021 3:01:56 PM

Quant Time: May 22 22:16:21 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 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	5.66	49	1206293	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.16	114	3499493	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.06	117	3172952	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.39	95	2429839	10.19	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.90%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.03	85	35660	0.174	ppbv #	85
4) Chloromethane	3.12	50	23191m	0.308	ppbv	
9) Propene	2.99	41	947365	11.972	ppbv	99
10) Heptane	8.10	43	320318	1.624	ppbv	96
11) Trichlorofluoromethane	3.93	101	662401	3.497	ppbv	98
13) Ethanol	3.59	45	1332928	126.242	ppbv	92
15) Acetone	3.84	43	33512123	271.228	ppbv #	61
17) tert-Butyl alcohol	4.28	59	1524608	13.471	ppbv	97
19) Isopropyl Alcohol	3.96	45	1160844	17.478	ppbv #	30
20) Methylene Chloride	4.34	84	464799	7.018	ppbv	96
26) Hexane	5.66	57	956249	6.305	ppbv #	12
27) Carbon Disulfide	4.53	76	695177	4.548	ppbv	97
29) Chloroform	5.74	83	40284m	0.188	ppbv	
30) Cyclohexane	7.11	84	118867	0.922	ppbv #	76
34) 2-Butanone	5.23	43	4514038	35.425	ppbv	99
35) Carbon Tetrachloride	7.01	117	9801m	0.042	ppbv	
36) Benzene	6.88	78	8629234	28.628	ppbv	93
50) 4-Methyl-2-Pentanone	8.73	43	112422	0.535	ppbv #	87
51) 2-Hexanone	10.11	43	585149	5.264	ppbv #	97
52) Tetrachloroethene	11.20	164	13310m	0.111	ppbv	
53) Toluene	9.79	91	5099362	14.218	ppbv	100
58) Ethyl Benzene	12.69	91	384385	0.858	ppbv	99
59) m/p-Xylene	12.94	91	454989	1.229	ppbv	97
60) o-Xylene	13.67	91	145627	0.412	ppbv	96
61) Styrene	13.50	104	68908	0.346	ppbv #	88
72) 4-Ethyltoluene	15.82	105	77226	0.184	ppbv #	85
73) 1,3,5-Trimethylbenzene	15.98	105	82356	0.209	ppbv	90
74) 1,2,4-Trimethylbenzene	16.75	105	239662	0.589	ppbv #	72

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

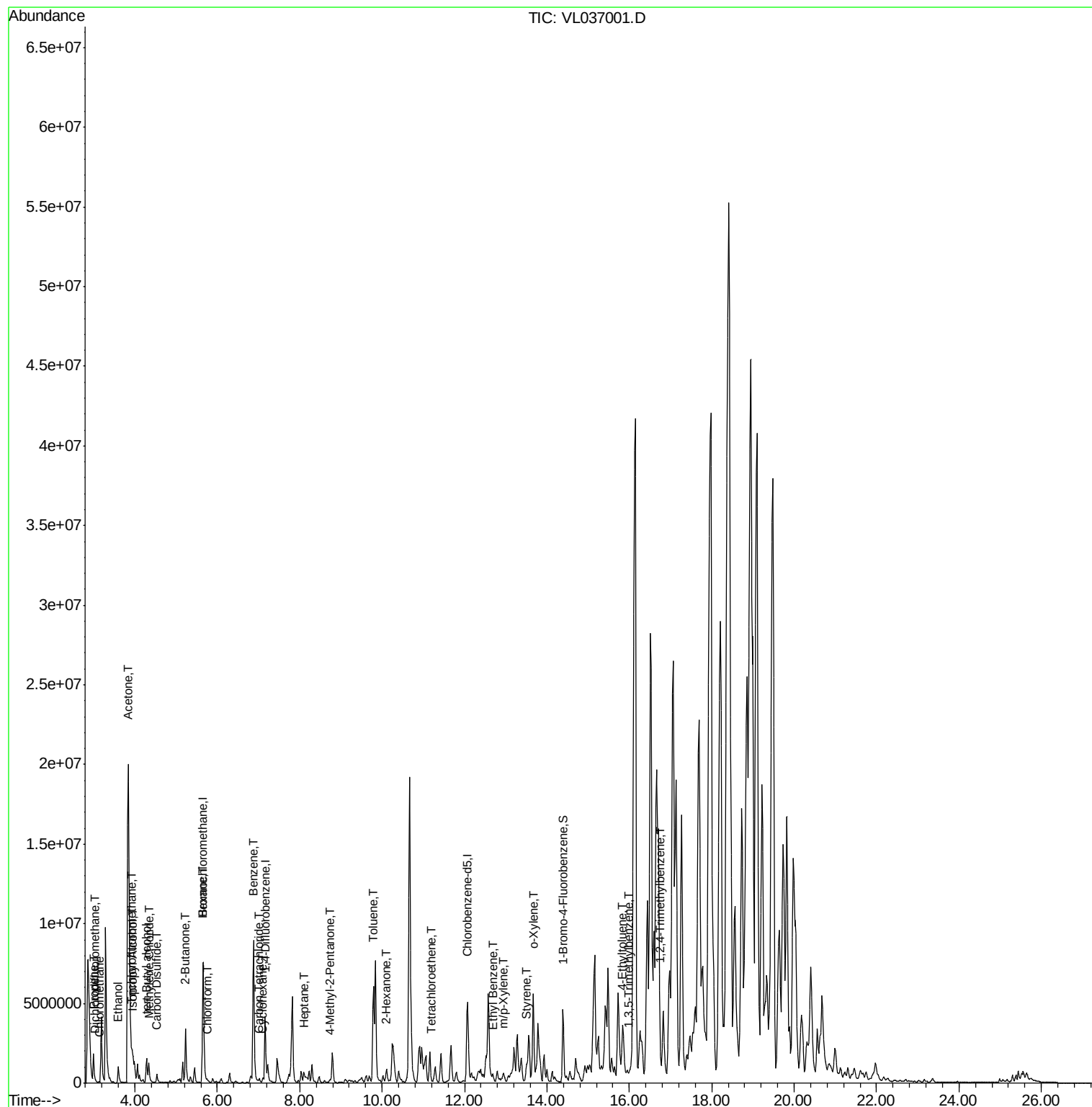
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL051921\
Data File : VL037001.D
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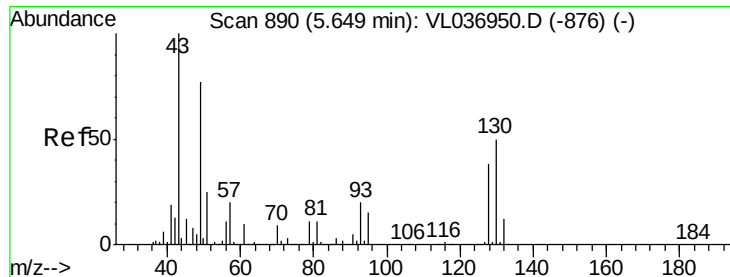
Instrument :
MSVOA_L
ClientSampleId :
KSV-01

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Quant Time: May 22 22:16:21 2021
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL051821AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LTue May
QLast Update : Tue May 18 12:00:15 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 893

Delta R.T. 0.01 min

Lab File: VL037001.D

Acq: 19 May 2021 21:09

Instrument :

MSVOA_L

ClientSampled :

KSV-01

Tot Ion: 49 Resp: 1206293

Ion Ratio Lower Upper

49 100

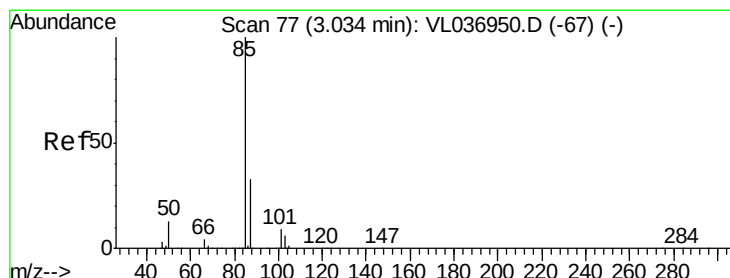
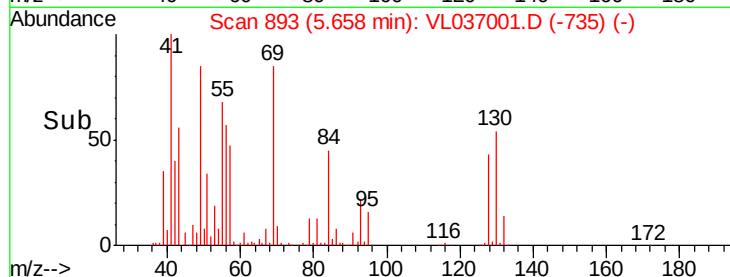
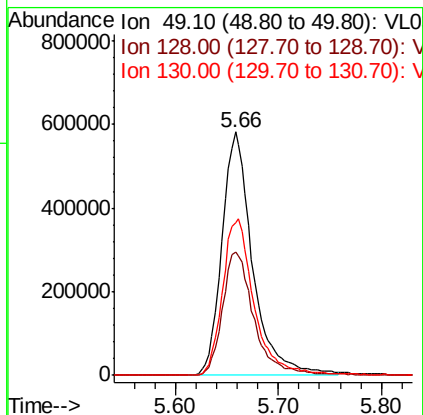
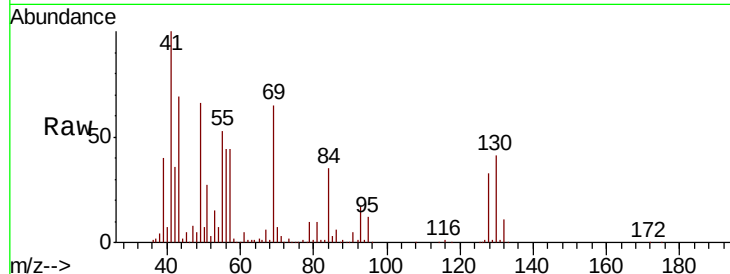
128 52.5 26.9 80.7

130 66.5 33.8 101.4

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#2

Dichlorodifluoromethane

Concen: 0.174 ppbv

RT: 3.03 min Scan# 77

Delta R.T. -0.00 min

Lab File: VL037001.D

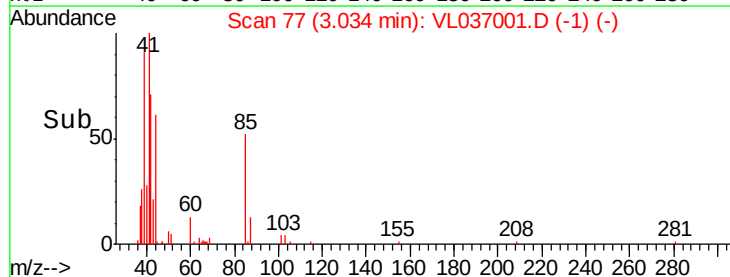
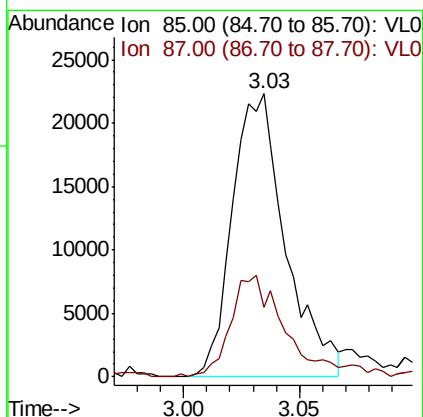
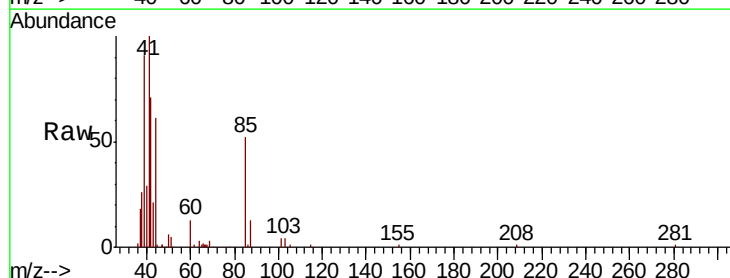
Acq: 19 May 2021 21:09

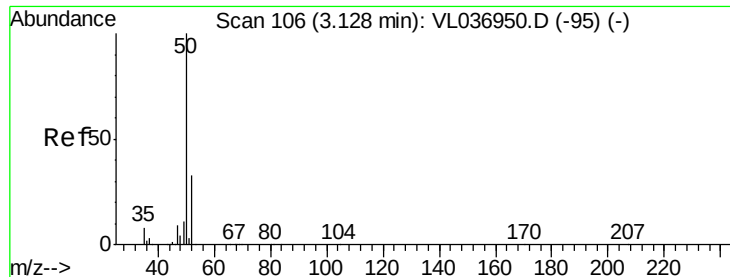
Tgt Ion: 85 Resp: 35660

Ion Ratio Lower Upper

85 100

87 24.4 26.6 39.8#





#4

Chloromethane

Concen: 0.308 ppbv m

RT: 3.12 min Scan# 105

Delta R.T. -0.00 min

Lab File: VL037001.D

Acq: 19 May 2021 21:09

Instrument :

MSVOA_L

ClientSampleId :

KSV-01

Tot Ion: 50 Resp: 23191

Ion Ratio Lower Upper

50 100

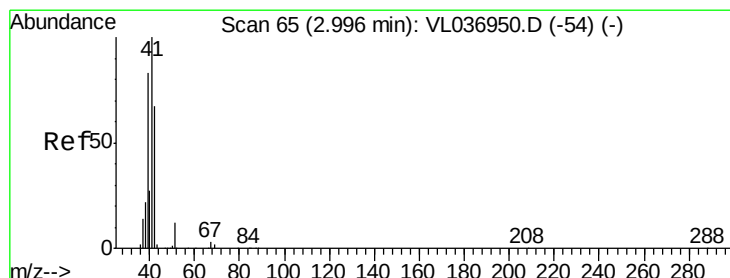
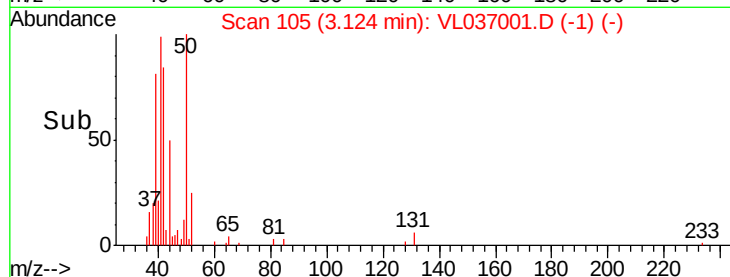
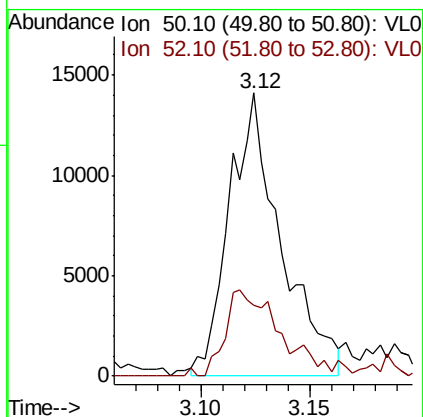
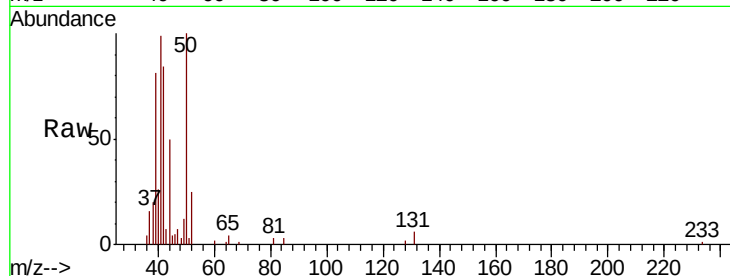
52 25.2 26.1 39.1#

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#9

Propene

Concen: 11.972 ppbv

RT: 2.99 min Scan# 64

Delta R.T. -0.00 min

Lab File: VL037001.D

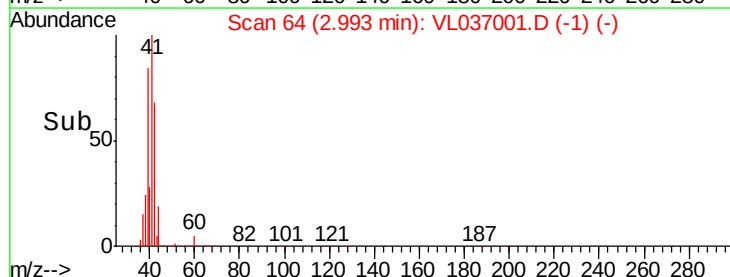
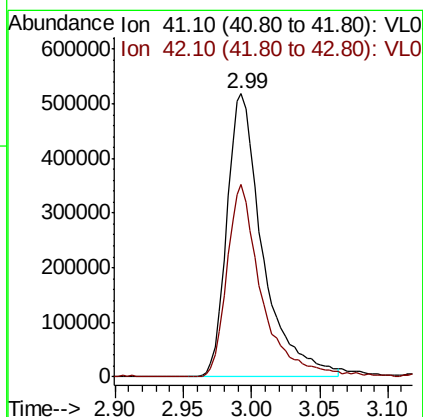
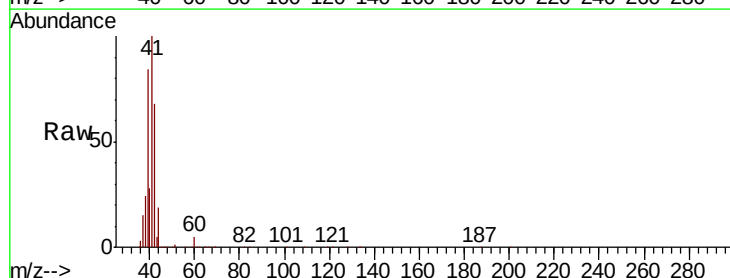
Acq: 19 May 2021 21:09

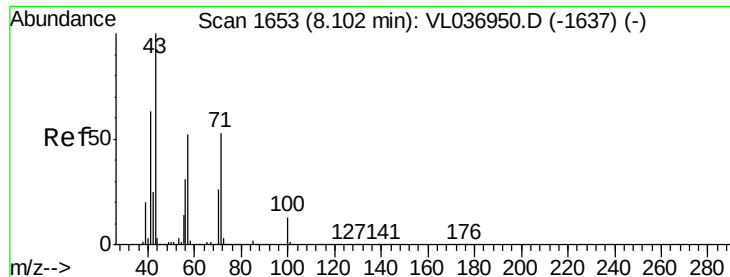
Tgt Ion: 41 Resp: 947365

Ion Ratio Lower Upper

41 100

42 66.3 53.9 80.9





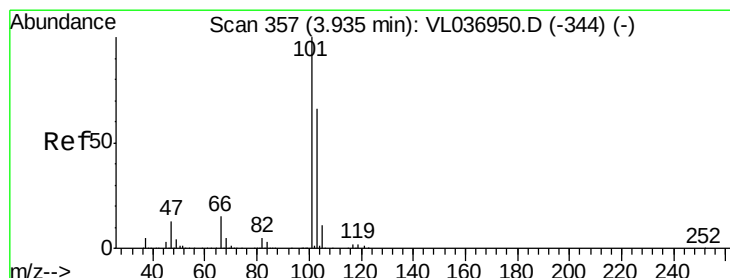
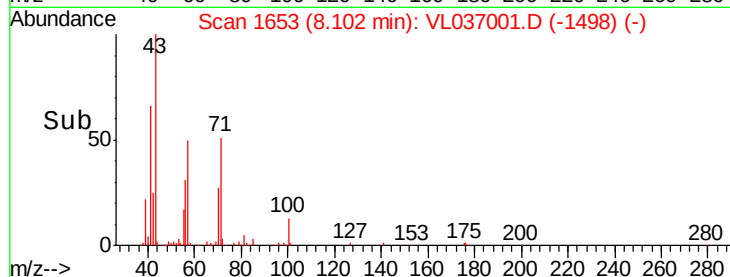
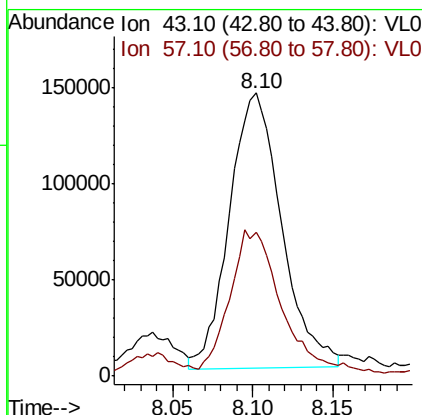
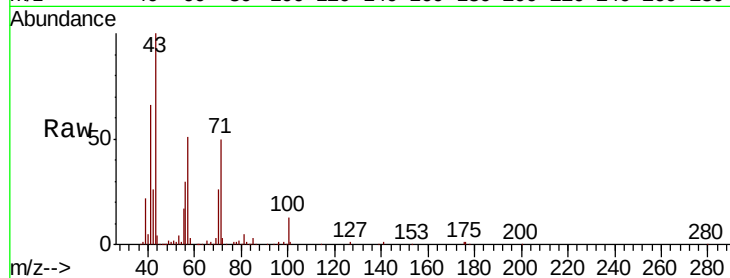
#10
 Heptane
 Concen: 1.624 ppbv
 RT: 8.10 min Scan# 1653
 Delta R.T. -0.00 min
 Lab File: VL037001.D
 Acq: 19 May 2021 21:09

Instrument :
 MSVOA_L
 ClientSampleId :
 KSV-01

Tot Ion: 43 Resp: 320318
 Ion Ratio Lower Upper
 43 100
 57 54.0 41.0 61.6

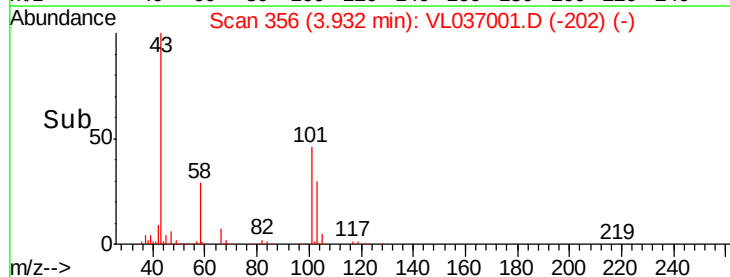
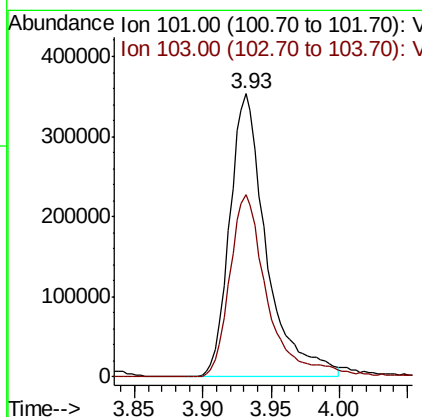
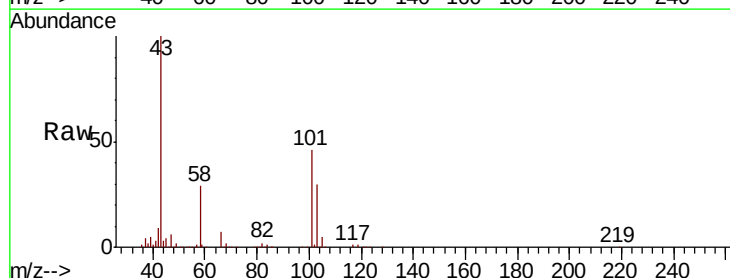
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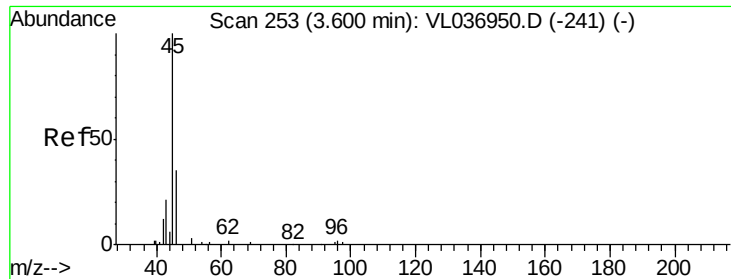
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#11
 Trichlorofluoromethane
 Concen: 3.497 ppbv
 RT: 3.93 min Scan# 356
 Delta R.T. -0.00 min
 Lab File: VL037001.D
 Acq: 19 May 2021 21:09

Tgt Ion: 101 Resp: 662401
 Ion Ratio Lower Upper
 101 100
 103 64.5 52.6 79.0





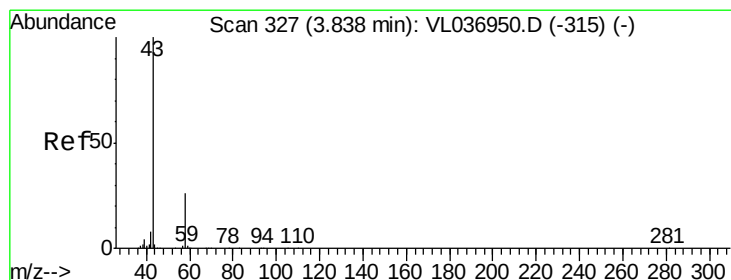
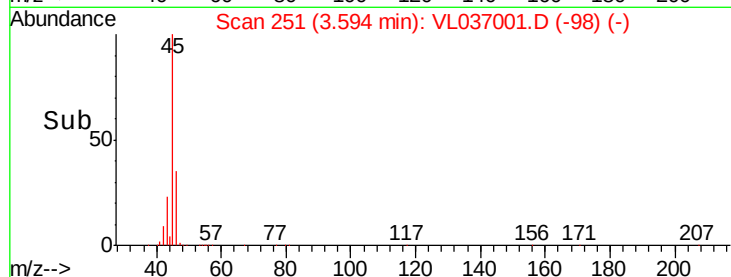
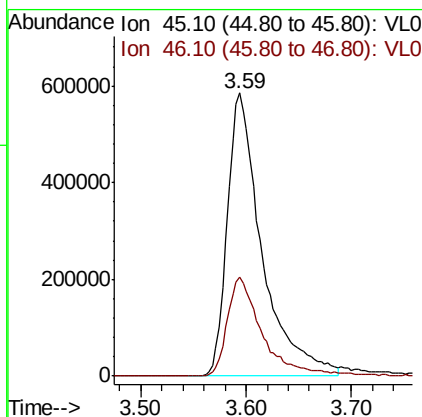
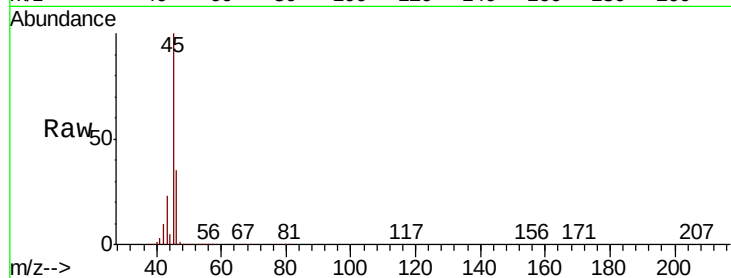
#13
Ethanol
Concen: 126.242 ppbv
RT: 3.59 min Scan# 251
Delta R.T. -0.01 min
Lab File: VL037001.D
Acq: 19 May 2021 21:09

Instrument :
MSVOA_L
ClientSampleId :
KSV-01

Tot Ion: 45 Resp: 1332928
Ion Ratio Lower Upper
45 100
46 35.8 16.3 65.3

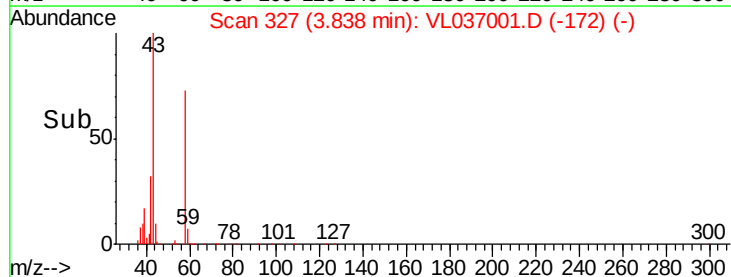
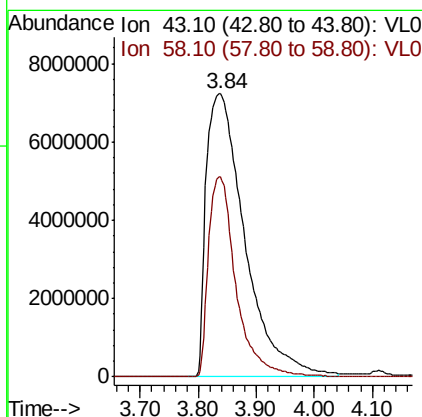
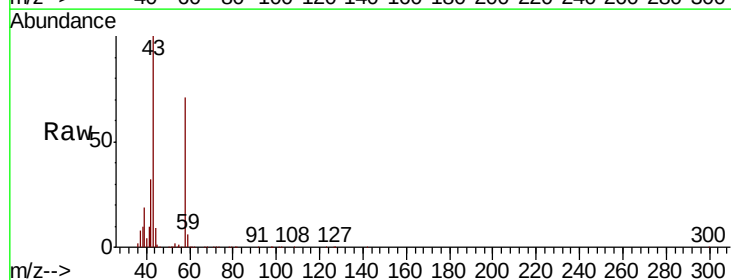
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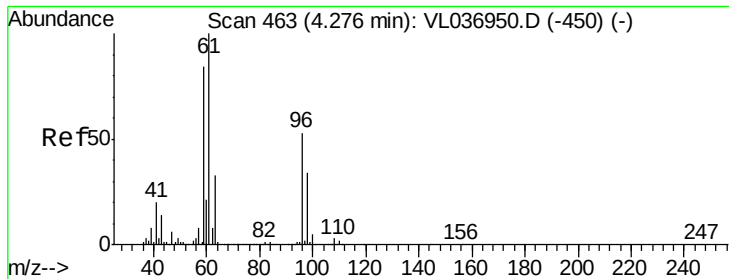
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#15
Acetone
Concen: 271.228 ppbv
RT: 3.84 min Scan# 327
Delta R.T. -0.00 min
Lab File: VL037001.D
Acq: 19 May 2021 21:09

Tgt Ion: 43 Resp: 33512123
Ion Ratio Lower Upper
43 100
58 50.9 24.0 36.0#





#17

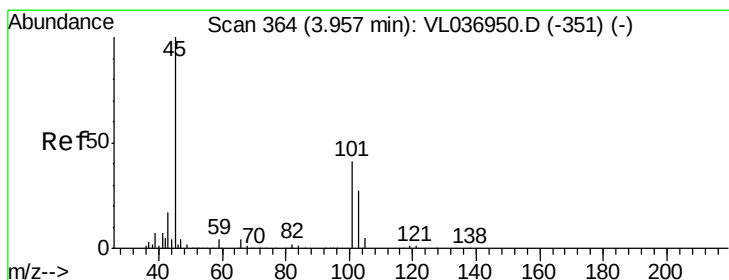
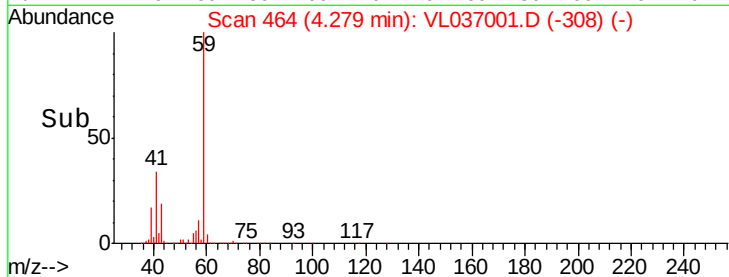
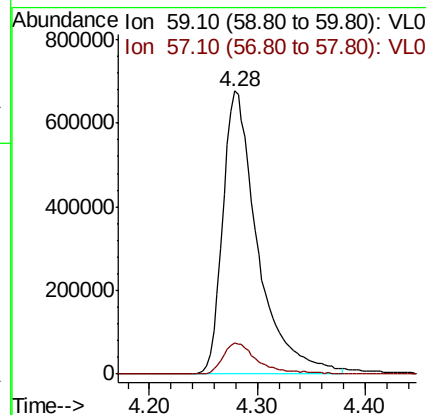
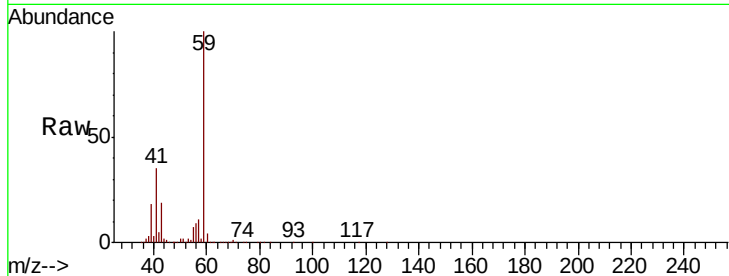
tert-Butyl alcohol
 Concen: 13.471 ppbv
 RT: 4.28 min Scan# 464
 Delta R.T. 0.00 min
 Lab File: VL037001.D
 Acq: 19 May 2021 21:09

Instrument :
 MSVOA_L
 ClientSampled :
 KSV-01

Tot Ion: 59 Resp: 1524608
 Ion Ratio Lower Upper
 59 100
 57 11.6 8.3 12.5

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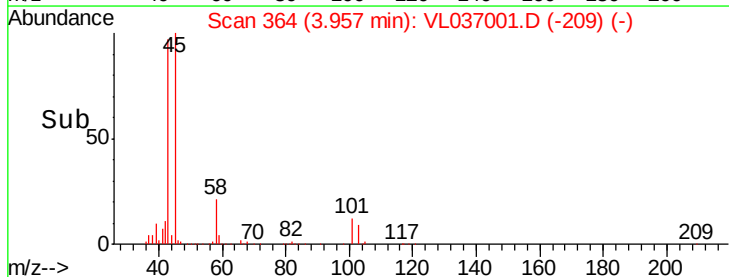
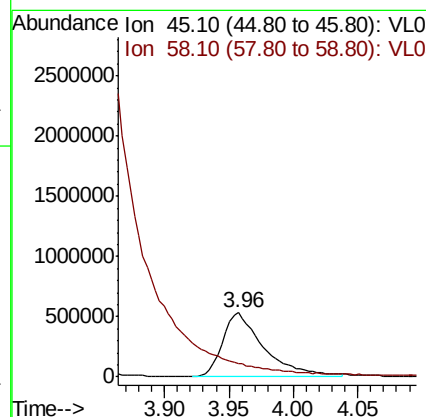
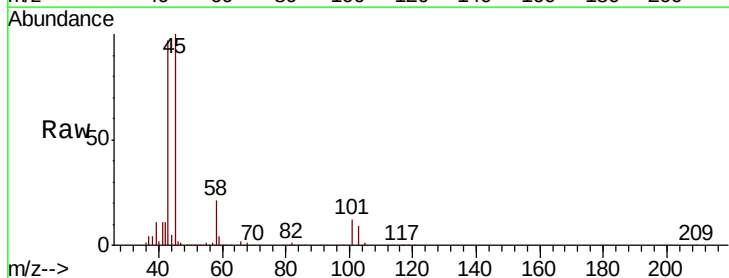
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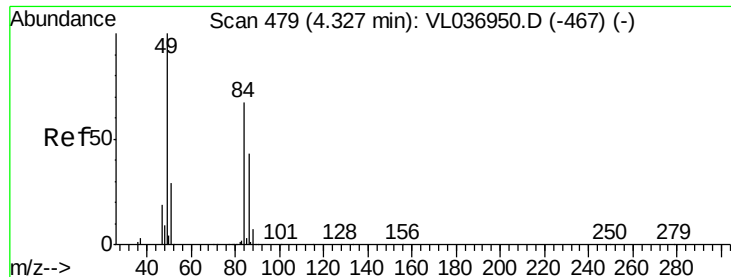


#19

Isopropyl Alcohol
 Concen: 17.478 ppbv
 RT: 3.96 min Scan# 364
 Delta R.T. -0.00 min
 Lab File: VL037001.D
 Acq: 19 May 2021 21:09

Tgt Ion: 45 Resp: 1160844
 Ion Ratio Lower Upper
 45 100
 58 0.0 37.2 55.8#





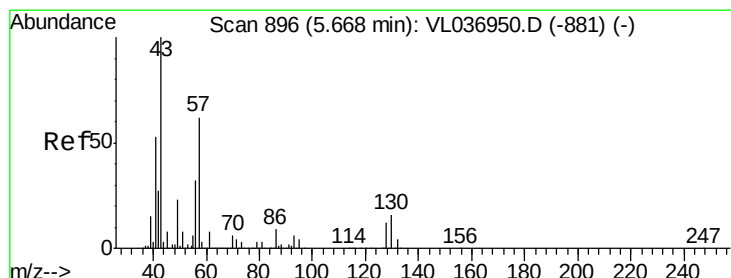
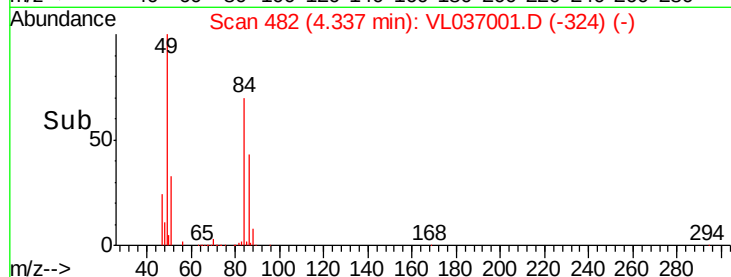
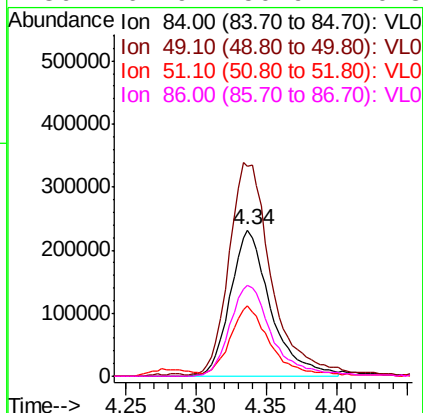
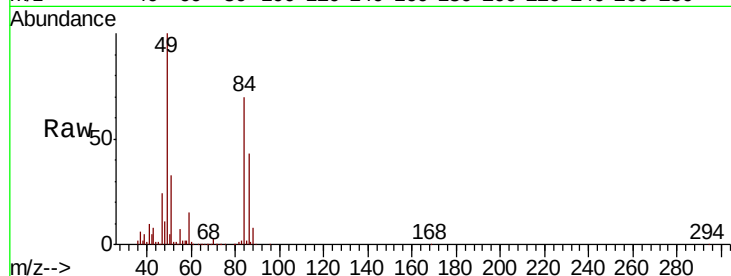
#20
Methvlene Chloride
Concen: 7.018 ppbv
RT: 4.34 min Scan# 482
Delta R.T. 0.01 min
Lab File: VL037001.D
Acq: 19 May 2021 21:09

Instrument :
MSVOA_L
ClientSampleId :
KSV-01

Tot Ion:	84	Resp:	464799
Ion	Ratio	Lower	Upper
84	100		
49	142.2	119.8	179.6
51	45.5	35.1	52.7
86	61.9	50.9	76.3

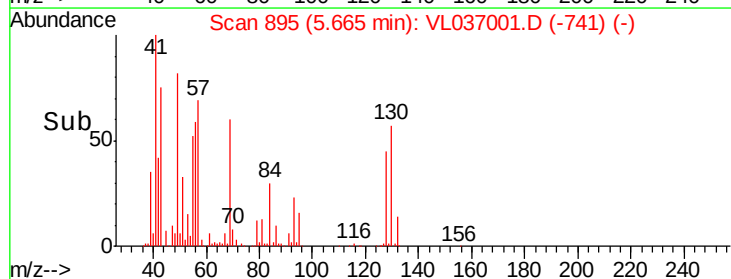
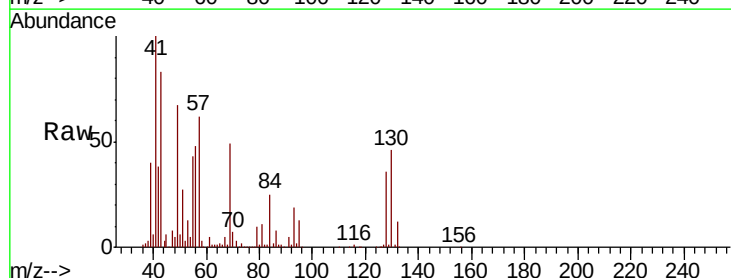
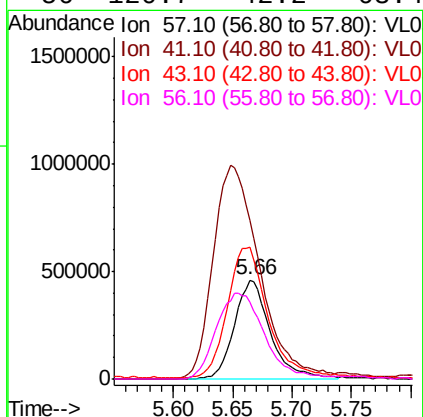
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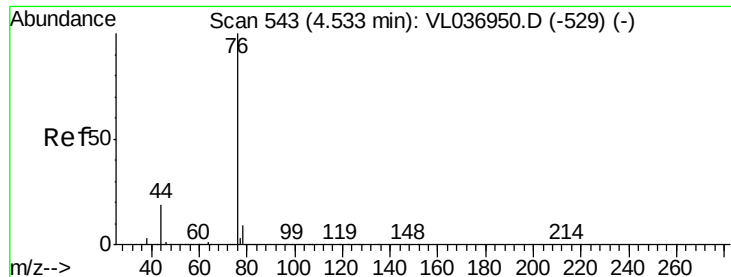
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#26
Hexane
Concen: 6.305 ppbv
RT: 5.66 min Scan# 895
Delta R.T. -0.00 min
Lab File: VL037001.D
Acq: 19 May 2021 21:09

Tgt Ion:	57	Resp:	956249
Ion	Ratio	Lower	Upper
57	100		
41	284.8	70.5	105.7#
43	155.2	165.8	248.8#
56	120.7	42.2	63.4#





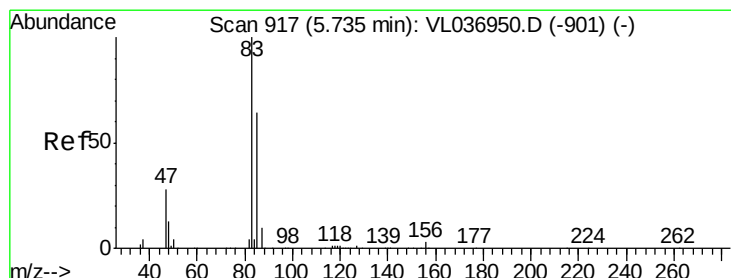
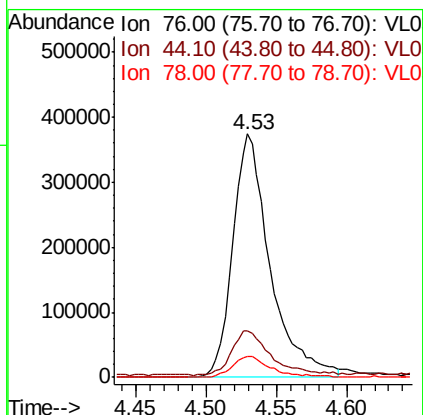
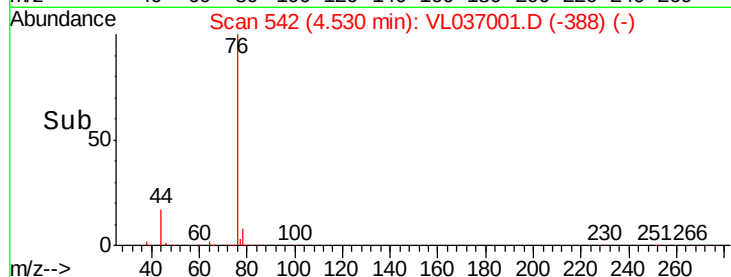
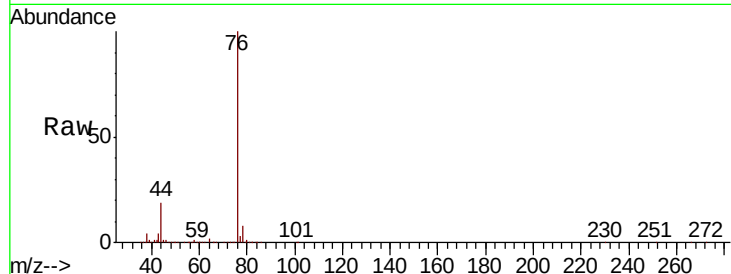
#27
Carbon Disulfide
Concen: 4.548 ppbv
RT: 4.53 min Scan# 542
Delta R.T. -0.00 min
Lab File: VL037001.D
Acq: 19 May 2021 21:09

Instrument :
MSVOA_L
ClientSampled :
KSV-01

Tot Ion:	76	Resp:	695177
Ion	Ratio	Lower	Upper
76	100		
44	21.1	15.5	23.3
78	9.2	7.8	11.6

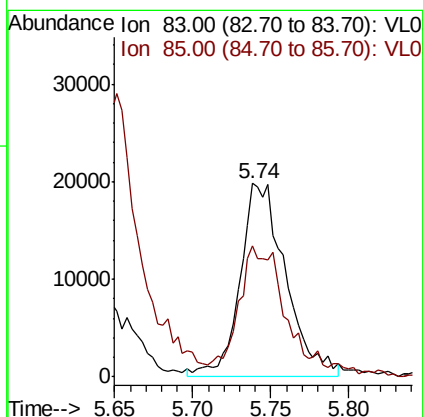
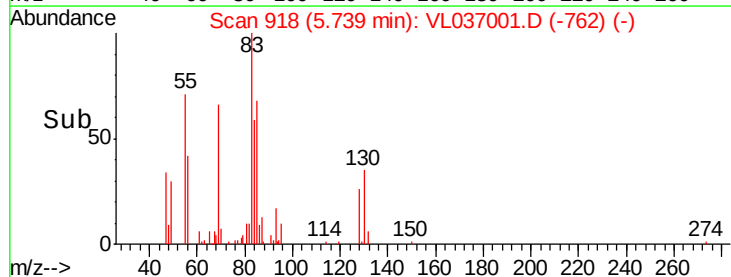
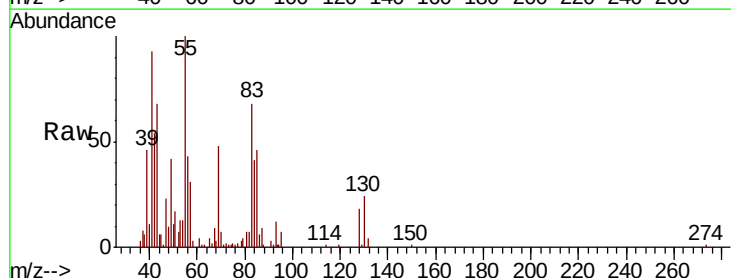
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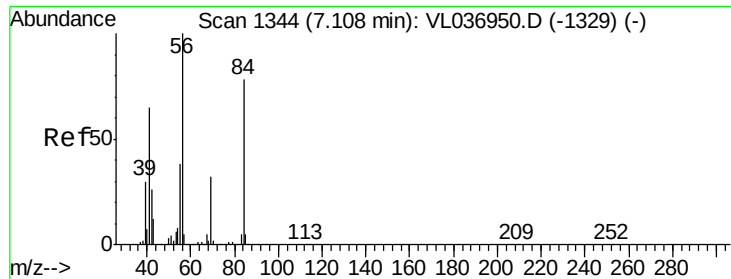
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#29
Chloroform
Concen: 0.188 ppbv m
RT: 5.74 min Scan# 918
Delta R.T. 0.00 min
Lab File: VL037001.D
Acq: 19 May 2021 21:09

Tgt Ion:	83	Resp:	40284
Ion	Ratio	Lower	Upper
83	100		
85	67.6	51.1	76.7





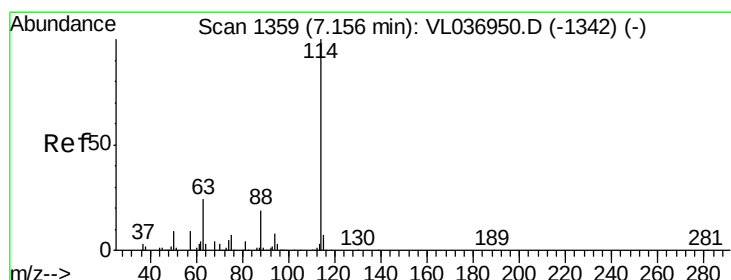
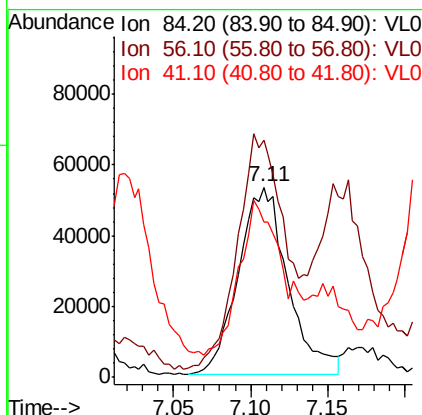
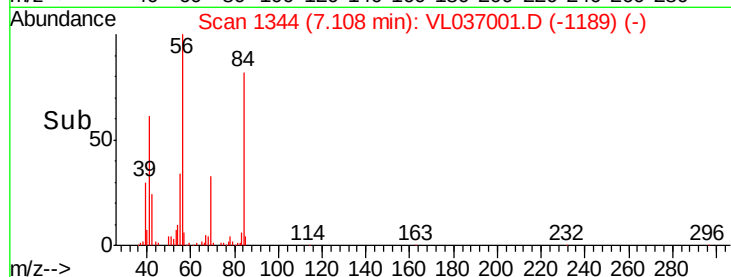
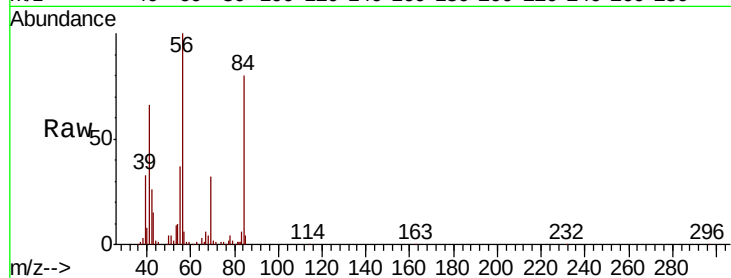
#30
Cyclohexane
Concen: 0.922 ppbv
RT: 7.11 min Scan# 1344
Delta R.T. -0.00 min
Lab File: VL037001.D
Acq: 19 May 2021 21:09

Instrument :
MSVOA_L
ClientSampled :
KSV-01

Tot Ion	Ratio	Lower	Upper
84	100		
56	121.5	107.9	161.9
41	121.3	65.5	98.3#

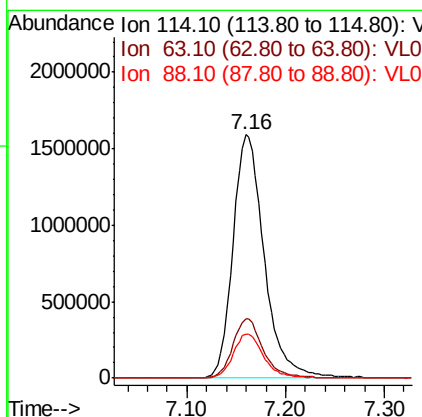
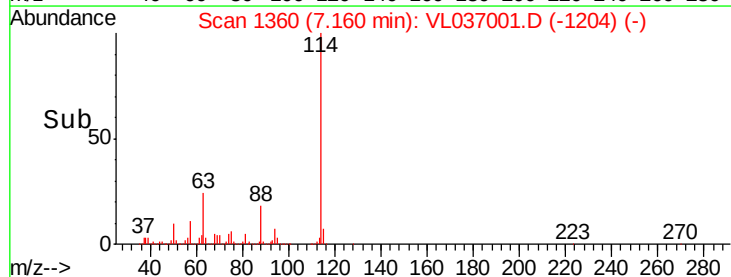
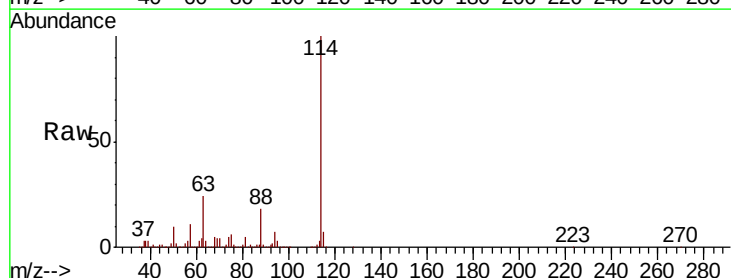
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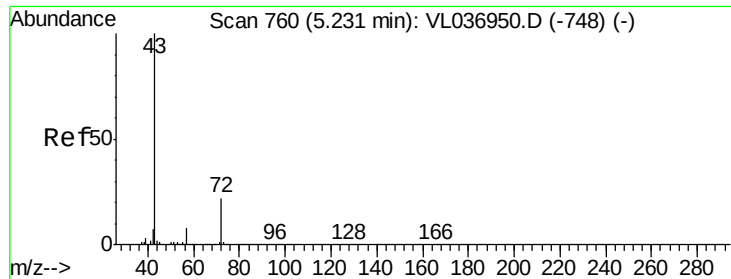
MMDadoda
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#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.16 min Scan# 1360
Delta R.T. 0.00 min
Lab File: VL037001.D
Acq: 19 May 2021 21:09

Tgt Ion	Ratio	Lower	Upper
114	100		
63	23.9	19.6	29.4
88	17.9	14.6	21.8





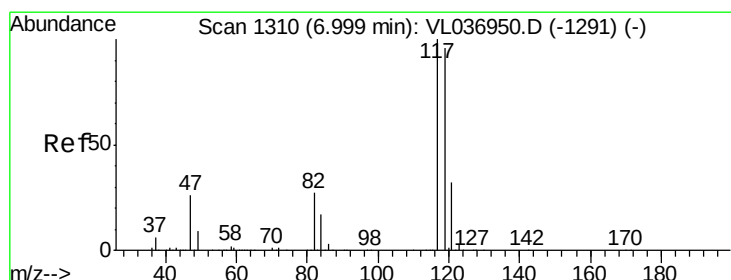
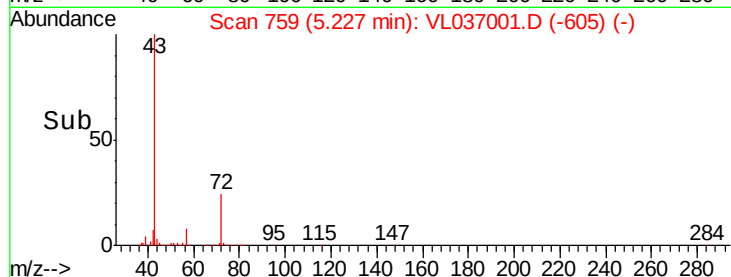
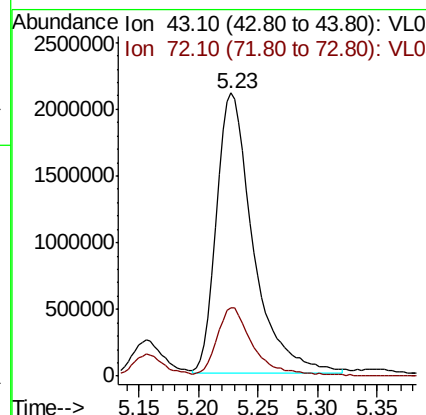
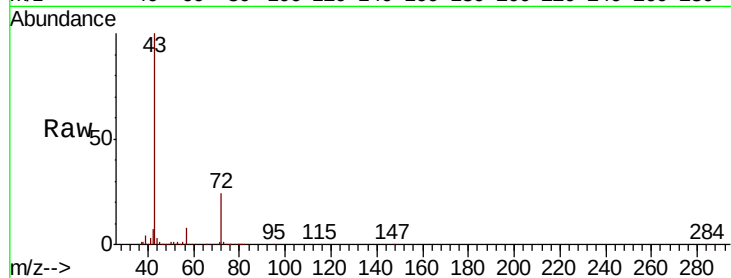
#34
2-Butanone
Concen: 35.425 ppbv
RT: 5.23 min Scan# 759
Delta R.T. -0.00 min
Lab File: VL037001.D
Acq: 19 May 2021 21:09

Instrument :
MSVOA_L
ClientSampleId :
KSV-01

Tot Ion: 43 Resp: 4514038
Ion Ratio Lower Upper
43 100
72 24.3 19.0 28.4

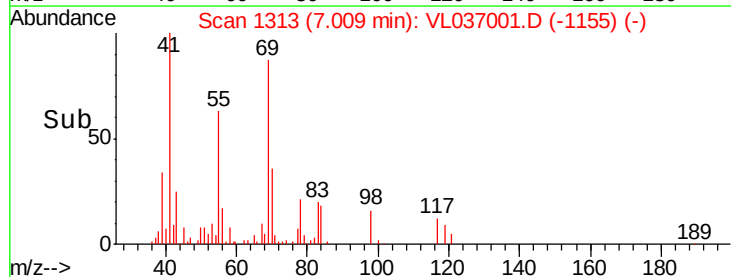
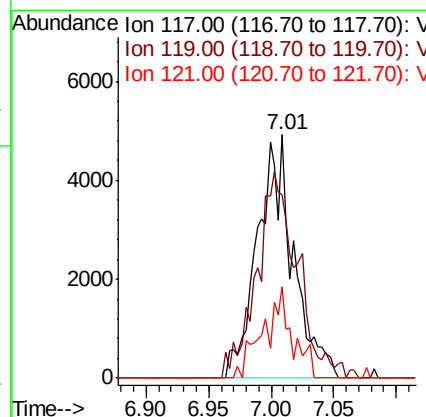
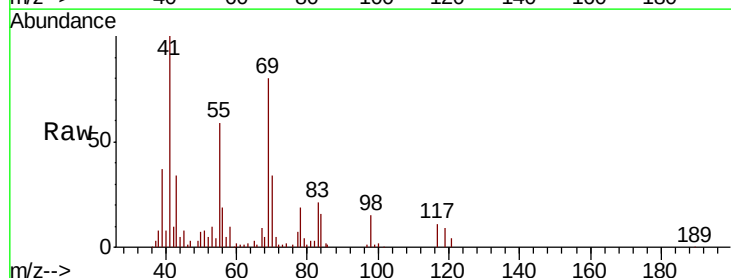
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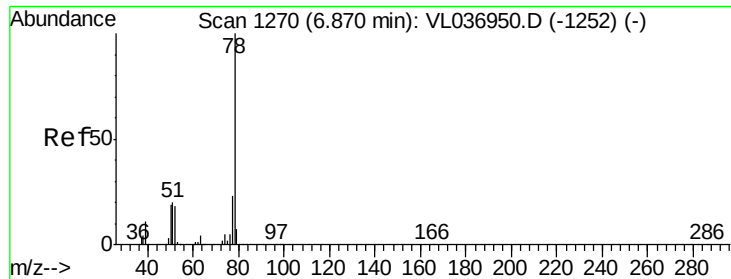
MMDadoda
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#35
Carbon Tetrachloride
Concen: 0.042 ppbv m
RT: 7.01 min Scan# 1313
Delta R.T. 0.01 min
Lab File: VL037001.D
Acq: 19 May 2021 21:09

Tgt Ion: 117 Resp: 9801
Ion Ratio Lower Upper
117 100
119 75.4 76.6 114.8#
121 37.5 25.8 38.6





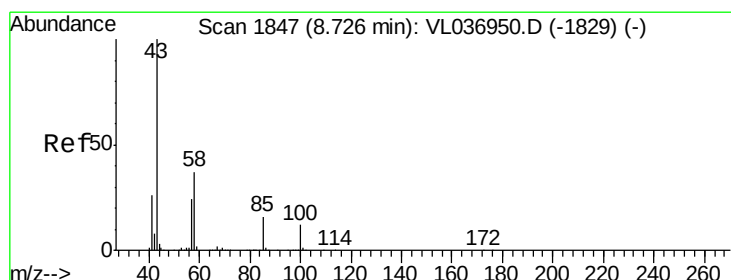
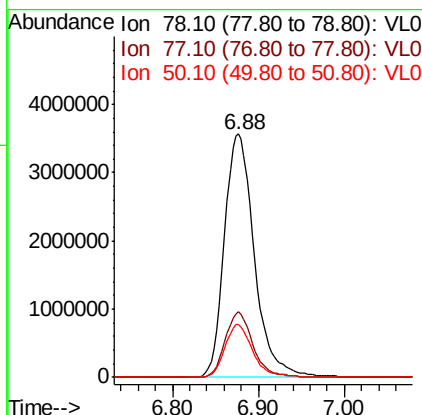
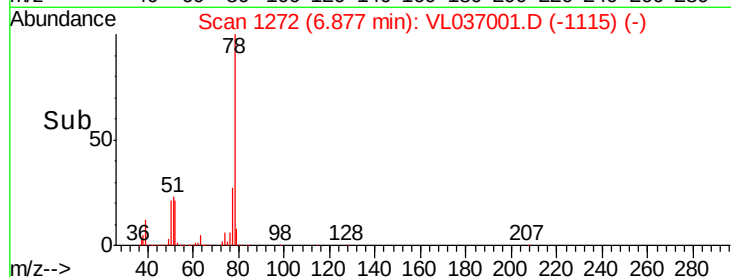
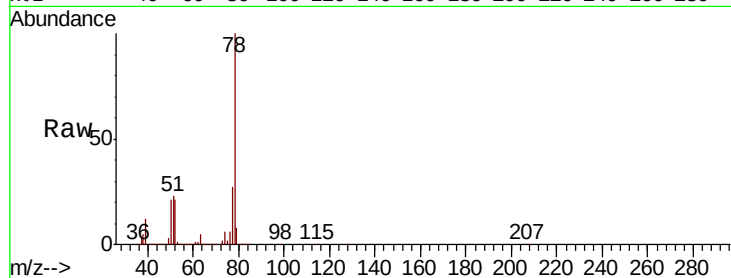
#36
Benzene
Concen: 28.628 ppbv
RT: 6.88 min Scan# 1272
Delta R.T. 0.01 min
Lab File: VL037001.D
Acq: 19 May 2021 21:09

Instrument :
MSVOA_L
ClientSampleId :
KSV-01

Tot Ion	Ratio	Lower	Upper
78	100		
77	26.8	18.6	28.0
50	21.4	15.0	22.4

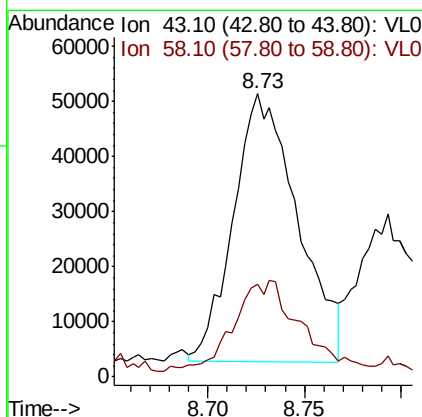
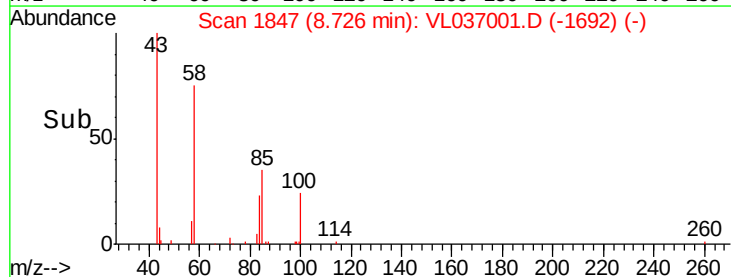
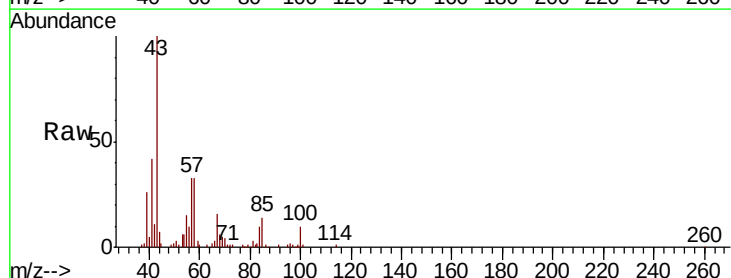
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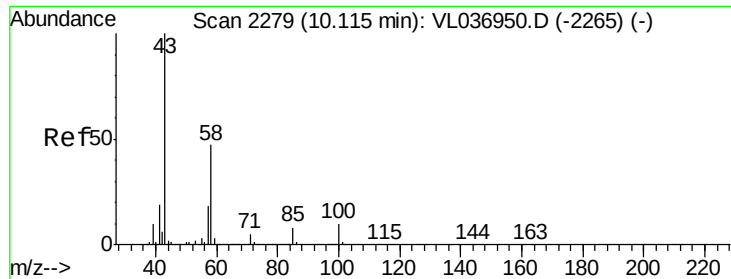
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#50
4-Methyl-2-Pentanone
Concen: 0.535 ppbv
RT: 8.73 min Scan# 1847
Delta R.T. -0.00 min
Lab File: VL037001.D
Acq: 19 May 2021 21:09

Tgt Ion	Ratio	Lower	Upper
43	100		
58	44.5	29.4	44.2





#51

2-Hexanone

Concen: 5.264 ppbv

RT: 10.11 min Scan# 2277

Delta R.T. -0.01 min

Lab File: VL037001.D

Acq: 19 May 2021 21:09

Instrument :

MSVOA_L

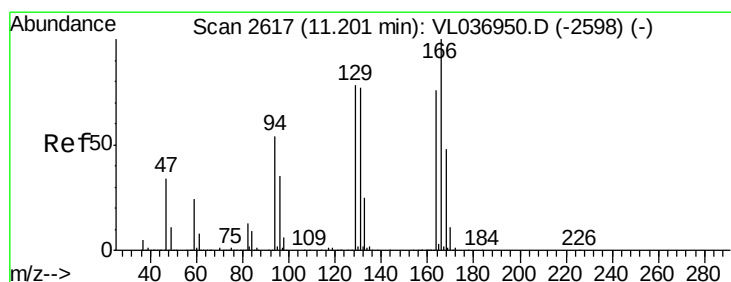
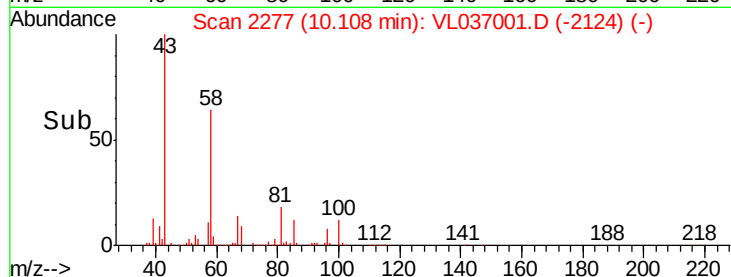
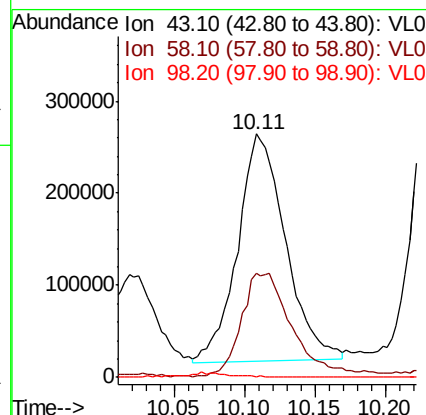
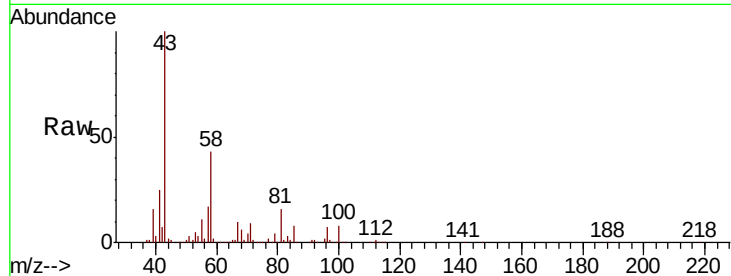
ClientSampleId :

KSV-01

Tot Ion:	43	Resp:	585149
Ion Ratio	Lower	Upper	
43	100		
58	49.0	41.1	61.7
98	2.2	0.1	0.1#

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#52

Tetrachloroethene

Concen: 0.111 ppbv m

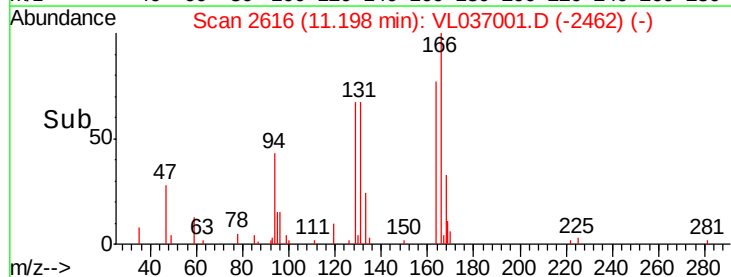
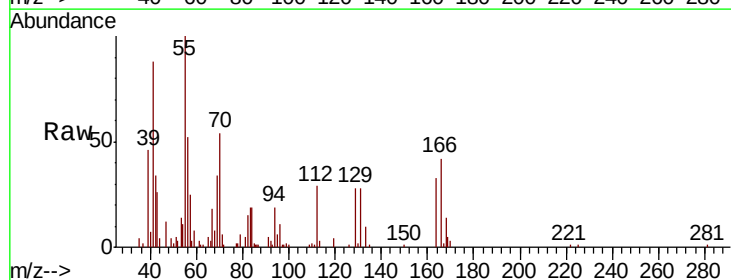
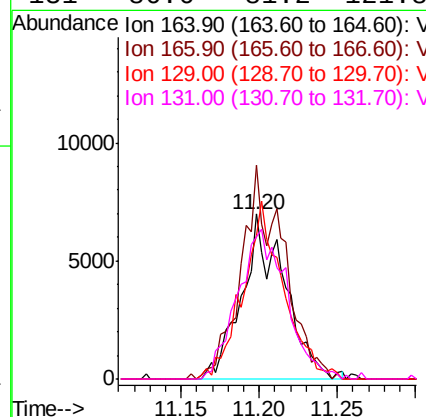
RT: 11.20 min Scan# 2616

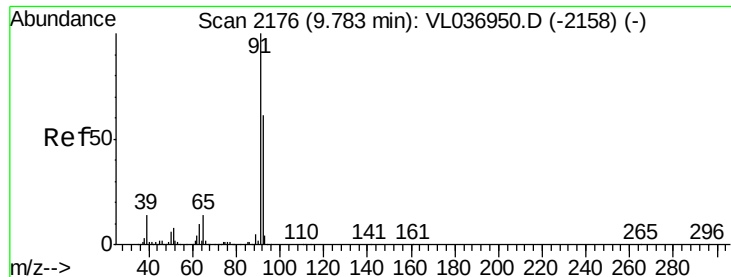
Delta R.T. -0.00 min

Lab File: VL037001.D

Acq: 19 May 2021 21:09

Tgt Ion:	164	Resp:	13310
Ion Ratio	Lower	Upper	
164	100		
166	129.6	105.5	158.3
129	87.1	81.8	122.8
131	86.6	81.2	121.8





#53

Toluene

Concen: 14.218 ppbv

RT: 9.79 min Scan# 2177

Delta R.T. 0.00 min

Lab File: VL037001.D

Acq: 19 May 2021 21:09

Instrument :

MSVOA_L

ClientSampleId :

KSV-01

Tot Ion: 91 Resp: 5099362

Ion Ratio Lower Upper

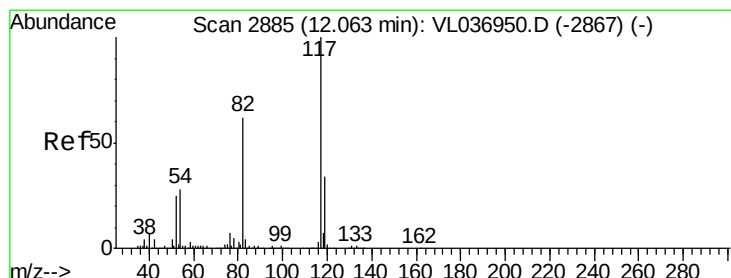
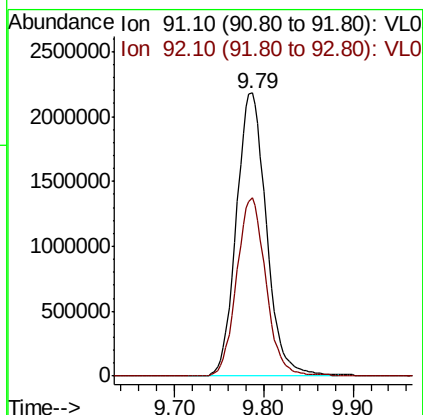
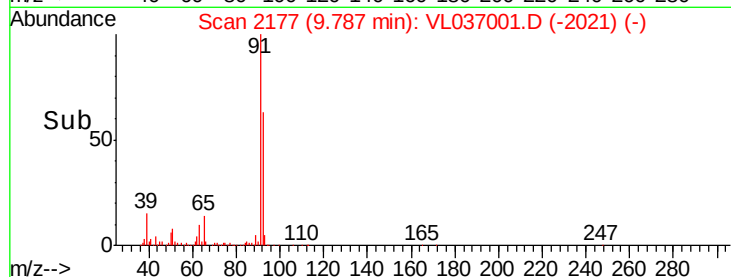
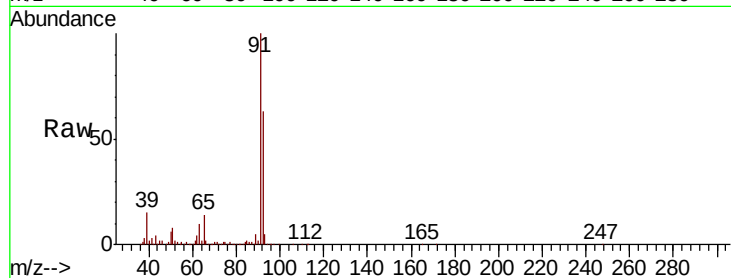
91 100

92 61.7 49.5 74.3

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#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.06 min Scan# 2884

Delta R.T. -0.00 min

Lab File: VL037001.D

Acq: 19 May 2021 21:09

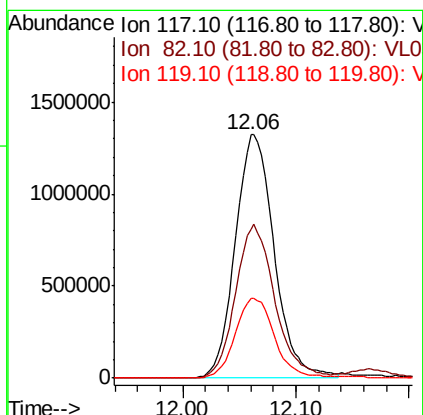
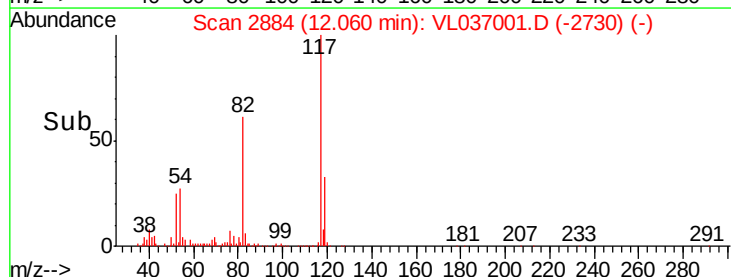
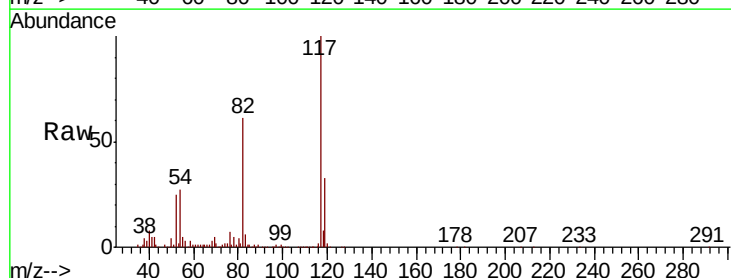
Tgt Ion: 117 Resp: 3172952

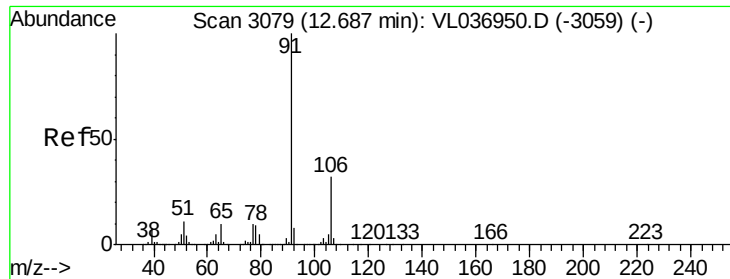
Ion Ratio Lower Upper

117 100

82 63.9 52.6 79.0

119 33.9 46.6 70.0#





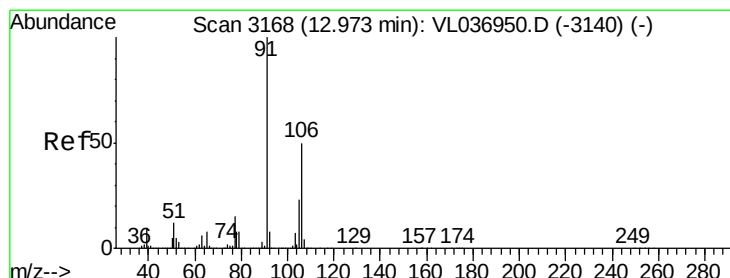
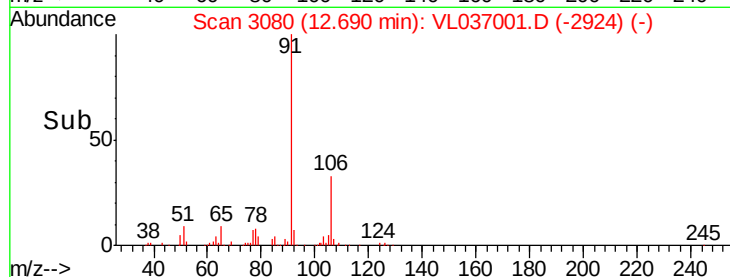
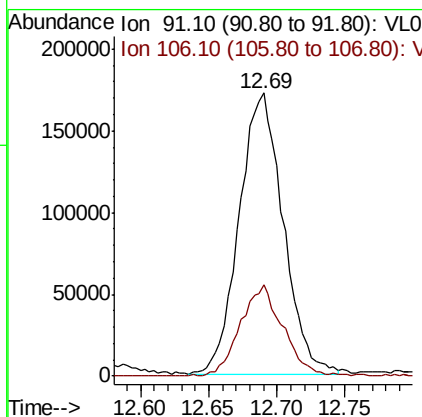
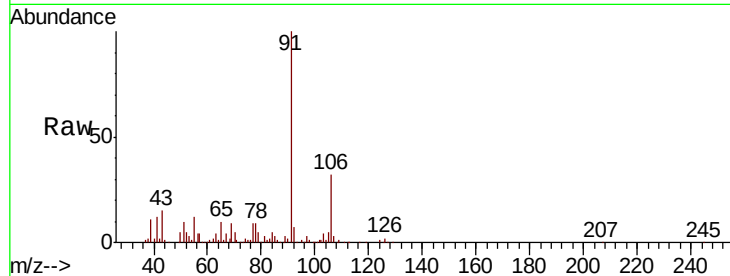
#58
Ethyl Benzene
Concen: 0.858 ppbv
RT: 12.69 min Scan# 3080
Delta R.T. 0.00 min
Lab File: VL037001.D
Acq: 19 May 2021 21:09

Instrument :
MSVOA_L
ClientSampled :
KSV-01

Tot Ion: 91 Resp: 384385
Ion Ratio Lower Upper
91 100
106 32.6 25.6 38.4

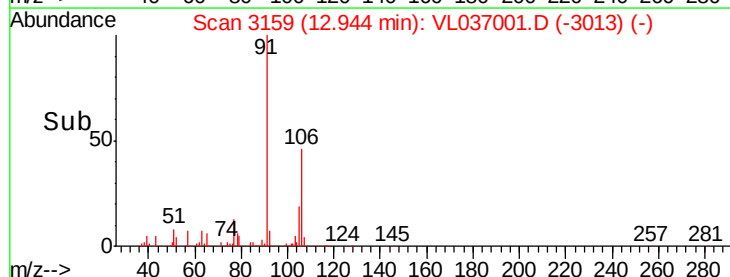
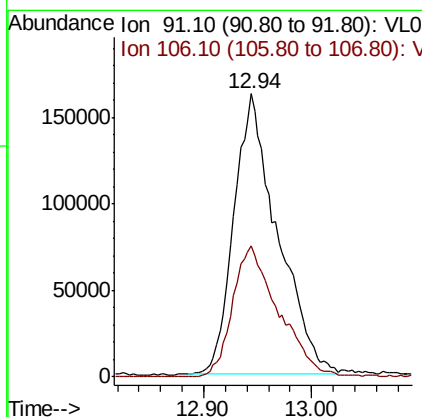
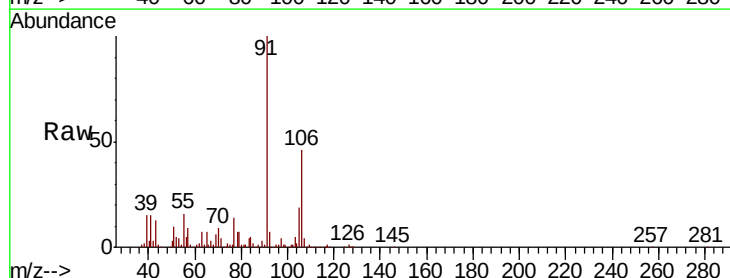
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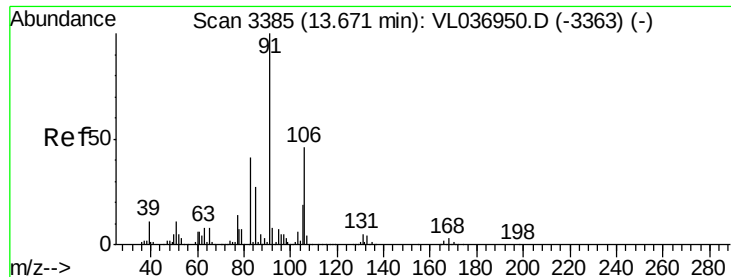
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#59
m/p-Xylene
Concen: 1.229 ppbv
RT: 12.94 min Scan# 3159
Delta R.T. -0.03 min
Lab File: VL037001.D
Acq: 19 May 2021 21:09

Tgt Ion: 91 Resp: 454989
Ion Ratio Lower Upper
91 100
106 49.1 37.4 56.2





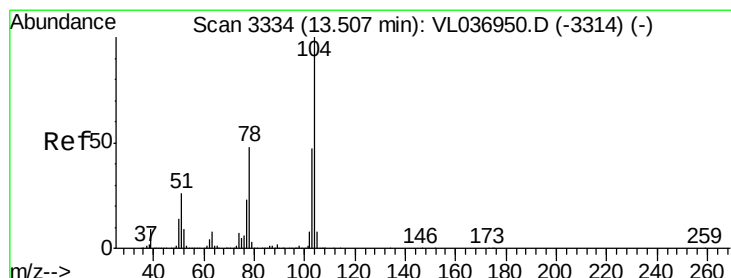
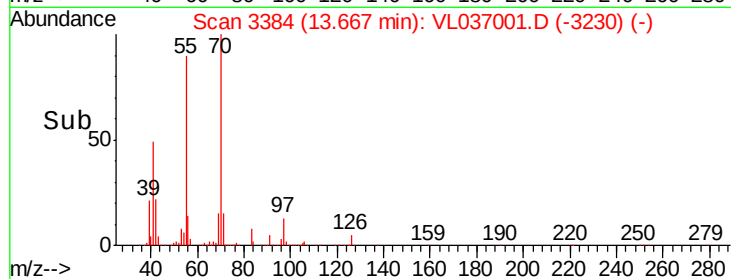
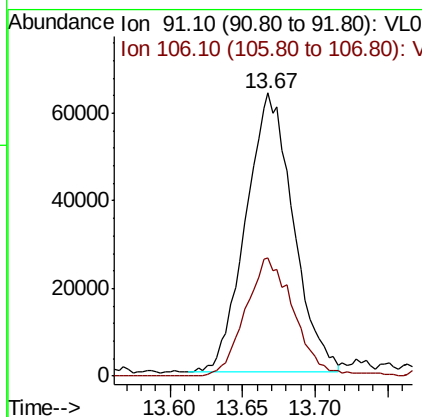
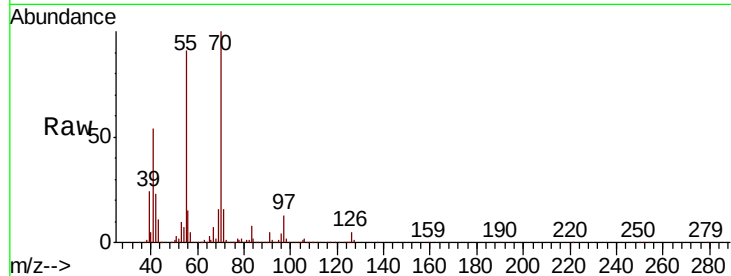
#60
o-Xylene
Concen: 0.412 ppbv
RT: 13.67 min Scan# 3384
Delta R.T. -0.00 min
Lab File: VL037001.D
Acq: 19 May 2021 21:09

Instrument :
MSVOA_L
ClientSampled :
KSV-01

Tot Ion: 91 Resp: 145627
Ion Ratio Lower Upper
91 100
106 43.9 23.4 70.3

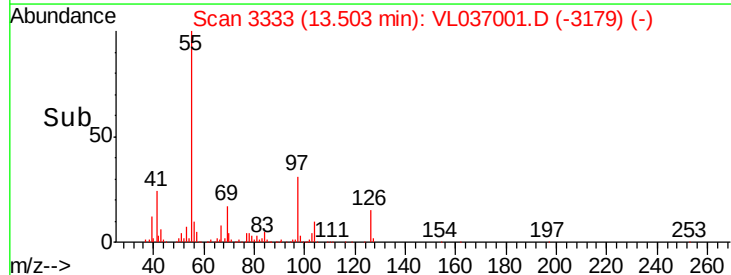
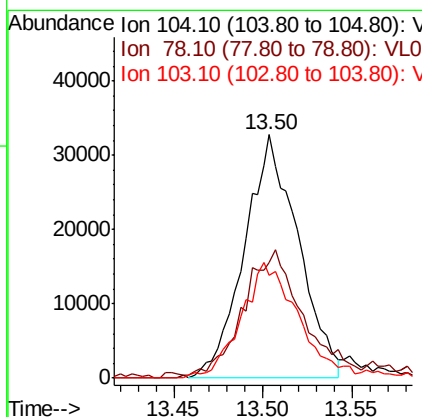
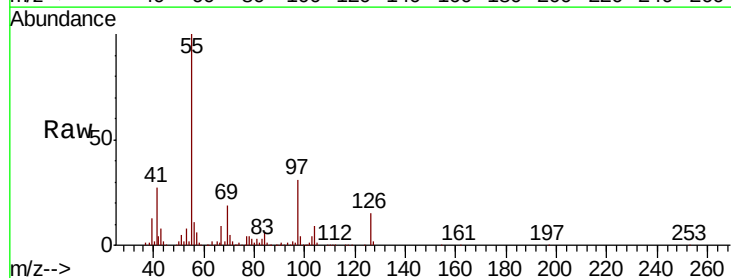
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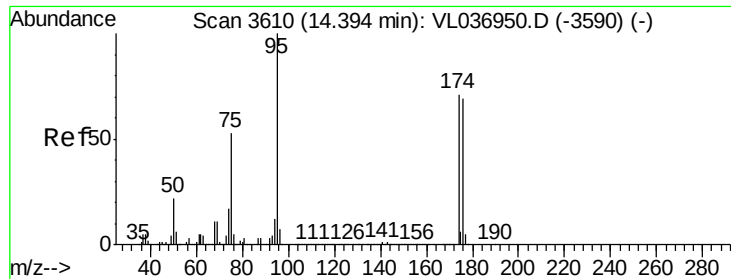
MMDadoda
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#61
Styrene
Concen: 0.346 ppbv
RT: 13.50 min Scan# 3333
Delta R.T. -0.00 min
Lab File: VL037001.D
Acq: 19 May 2021 21:09

Tgt Ion: 104 Resp: 68908
Ion Ratio Lower Upper
104 100
78 60.5 39.0 58.6#
103 52.4 38.0 57.0





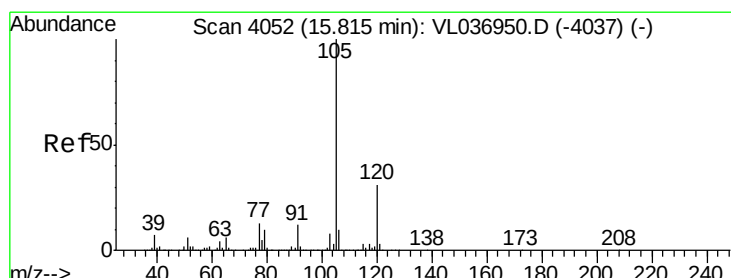
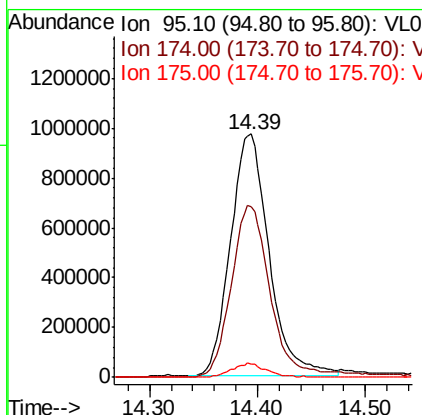
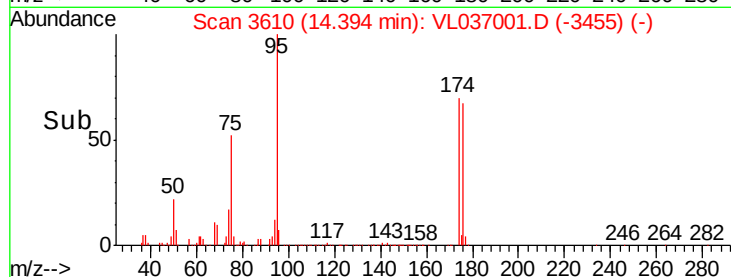
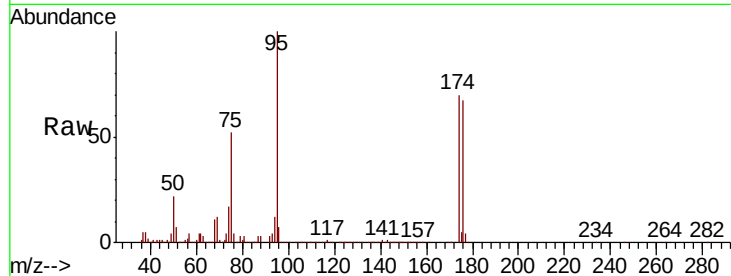
#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.194 ppbv
 RT: 14.39 min Scan# 3610
 Delta R.T. -0.00 min
 Lab File: VL037001.D
 Acq: 19 May 2021 21:09

Instrument :
 MSVOA_L
 ClientSampled :
 KSV-01

Tot Ion: 95 Resp: 2429839
 Ion Ratio Lower Upper
 95 100
 174 74.5 58.4 87.6
 175 5.4 4.4 6.6

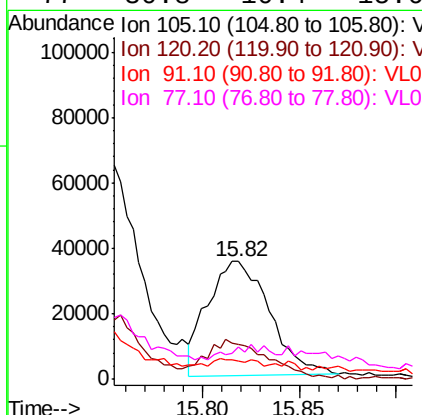
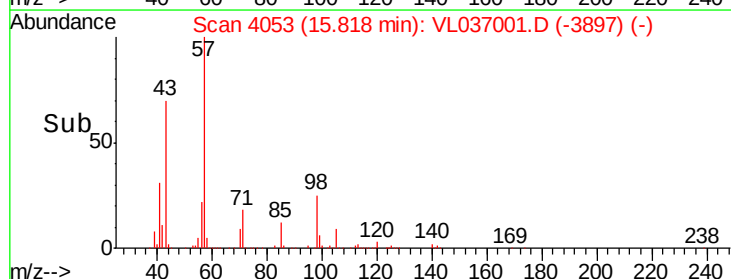
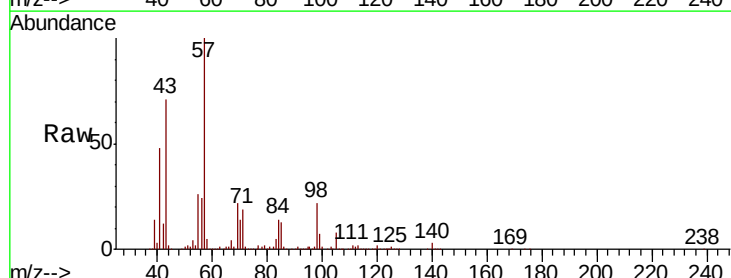
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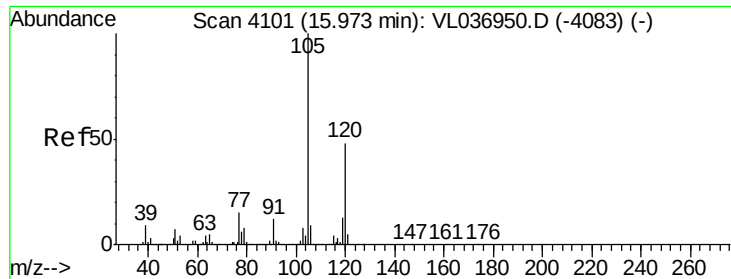
MMDadoda
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#72
 4-Ethyltoluene
 Concen: 0.184 ppbv
 RT: 15.82 min Scan# 4053
 Delta R.T. 0.00 min
 Lab File: VL037001.D
 Acq: 19 May 2021 21:09

Tgt Ion: 105 Resp: 77226
 Ion Ratio Lower Upper
 105 100
 120 34.1 24.6 37.0
 91 13.7 9.8 14.6
 77 30.8 10.4 15.6#





#73

1,3,5-Trimethylbenzene

Concen: 0.209 ppbv

RT: 15.98 min Scan# 4103

Delta R.T. 0.01 min

Lab File: VL037001.D

Acq: 19 May 2021 21:09

Instrument :

MSVOA_L

ClientSampled :

KSV-01

Tot Ion:105 Resp: 82356

Ion Ratio Lower Upper

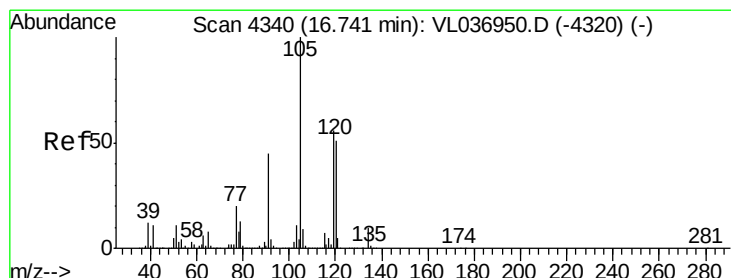
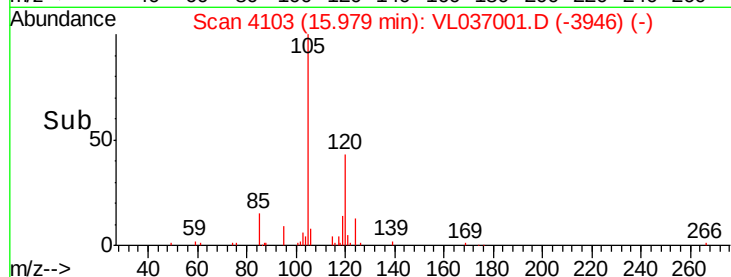
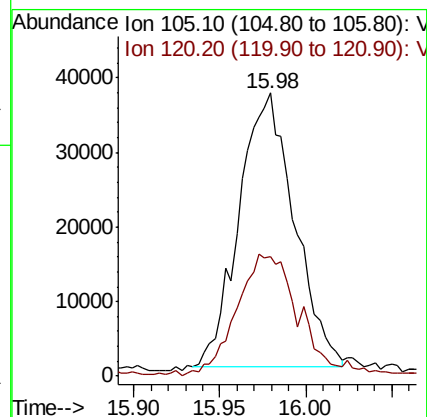
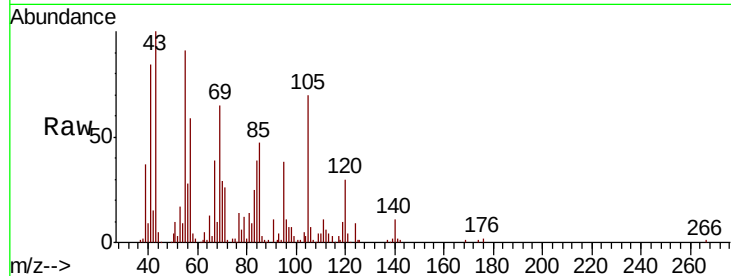
105 100

120 41.5 38.6 58.0

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#74

1,2,4-Trimethylbenzene

Concen: 0.589 ppbv

RT: 16.75 min Scan# 4342

Delta R.T. 0.01 min

Lab File: VL037001.D

Acq: 19 May 2021 21:09

Tgt Ion:105 Resp: 239662

Ion Ratio Lower Upper

105 100

120 43.3 40.6 61.0

91 9.9 37.4 56.0#

77 15.4 16.2 24.4#

