

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL062221\
 Data File : VL037228.D
 Acq On : 22 Jun 2021 22:36
 Operator : SY/AP
 Sample : M2807-02
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV-02

Manual Integrations
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 6/24/2021 4:33:17 PM

Quant Time: Jun 24 09:25:01 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL061621AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Jun 1
 QLast Update : Wed Jun 16 14:06:32 2021
 Response via : Initial Calibration

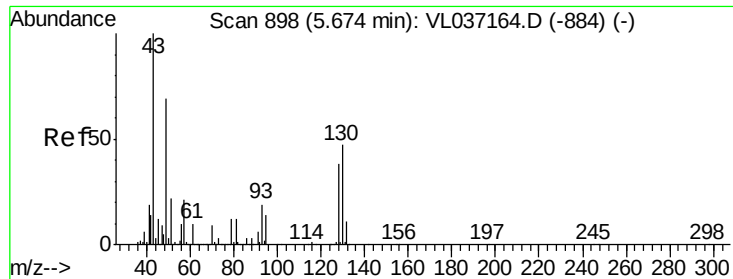
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1216188	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	3501252	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	3414306	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.42	95	3262164	12.61	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	126.10%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.05	85	41778	0.198	ppbv	95
7) Chloroethane	3.56	64	12267m	0.396	ppbv	
9) Propene	3.02	41	935438m	12.371	ppbv	
10) Heptane	8.12	43	90515	0.494	ppbv	97
11) Trichlorofluoromethane	3.95	101	108379	0.480	ppbv	96
13) Ethanol	3.61	45	2360672	201.820	ppbv	47
15) Acetone	3.85	43	1116632m	8.142	ppbv	
17) tert-Butyl alcohol	4.31	59	132057	1.042	ppbv #	93
19) Isopropyl Alcohol	3.98	45	240975	2.901	ppbv #	1
20) Methylene Chloride	4.35	84	287305	3.499	ppbv	95
26) Hexane	5.69	57	455945	3.038	ppbv #	49
27) Carbon Disulfide	4.55	76	1284153	8.734	ppbv	98
29) Chloroform	5.75	83	376996	1.626	ppbv	92
30) Cyclohexane	7.14	84	36370	0.291	ppbv	86
34) 2-Butanone	5.25	43	136706	1.004	ppbv #	84
35) Carbon Tetrachloride	7.02	117	15415m	0.066	ppbv	
36) Benzene	6.89	78	50684	0.179	ppbv #	92
38) Trichloroethene	7.83	130	4369m	0.032	ppbv	
41) Tetrahydrofuran	6.06	42	44541m	0.704	ppbv	
43) Methyl Methacrylate	8.01	69	153828	1.573	ppbv #	30
44) 2,2,4-Trimethylpentane	7.87	57	92598	0.194	ppbv #	36
50) 4-Methyl-2-Pentanone	8.75	43	78909m	0.422	ppbv	
52) Tetrachloroethene	11.24	164	17219m	0.131	ppbv	
53) Toluene	9.81	91	1290262	3.815	ppbv	100
58) Ethyl Benzene	12.71	91	190574m	0.405	ppbv	
59) m/p-Xylene	12.97	91	487934m	1.225	ppbv	
60) o-Xylene	13.69	91	148461	0.391	ppbv	96
62) Isopropylbenzene	14.67	105	80594m	0.149	ppbv	
69) p-Isopropyltoluene	17.65	119	419817	0.779	ppbv #	87
72) 4-Ethyltoluene	15.84	105	89423m	0.208	ppbv	
73) 1,3,5-Trimethylbenzene	16.01	105	91831m	0.220	ppbv	
74) 1,2,4-Trimethylbenzene	16.76	105	287300m	0.669	ppbv	

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 895

Delta R.T. -0.01 min

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Instrument :

MSVOA_L

ClientSampleId :

SV-02

Tot Ion: 49 Resp: 1216188

Ion Ratio Lower Upper

49 100

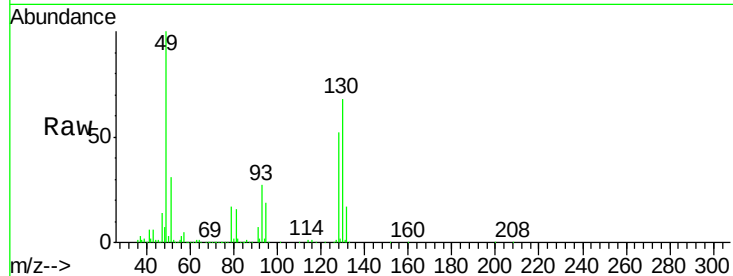
128 56.2 29.3 88.0

130 73.0 35.9 107.8

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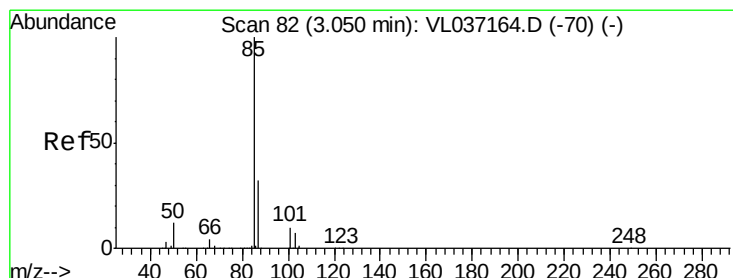
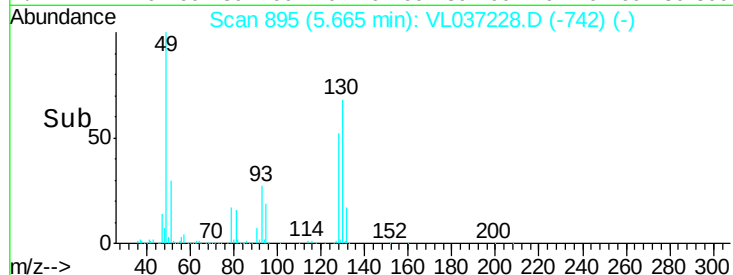
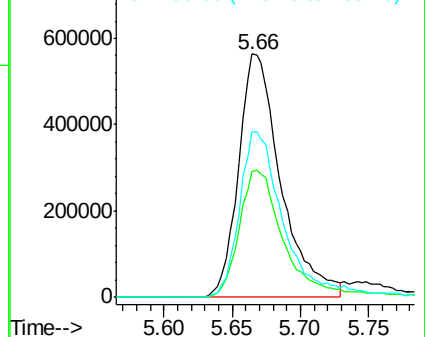
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 0.198 ppbv

RT: 3.05 min Scan# 82

Delta R.T. 0.00 min

Lab File: VL037228.D

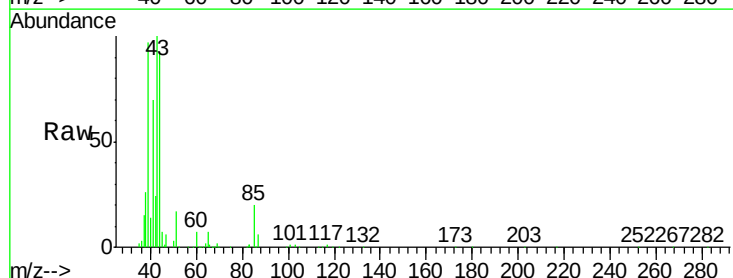
Acq: 22 Jun 2021 22:36

Tgt Ion: 85 Resp: 41778

Ion Ratio Lower Upper

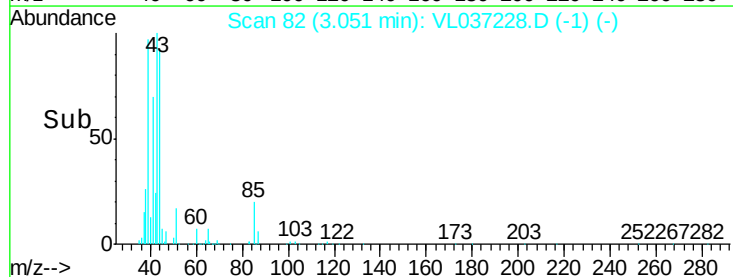
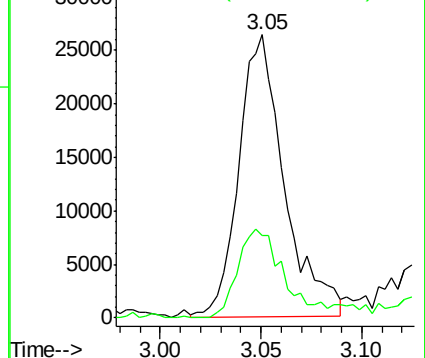
85 100

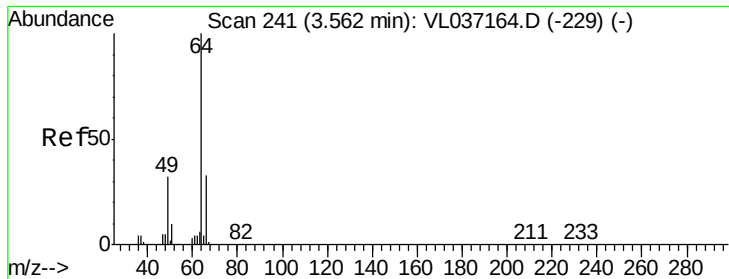
87 29.5 25.8 38.6



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#7

Chloroethane

Concen: 0.396 ppbv m

RT: 3.56 min Scan# 241

Delta R.T. 0.00 min

Lab File: VL037228.D

Acq: 22 Jun 2021 22:36

Instrument :

MSVOA_L

ClientSampleId :

SV-02

Tot Ion: 64 Resp: 12267

Ion Ratio Lower Upper

64 100

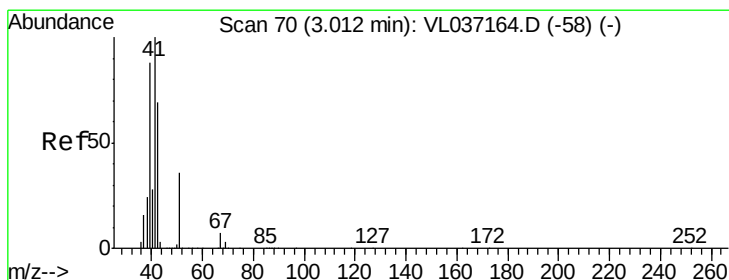
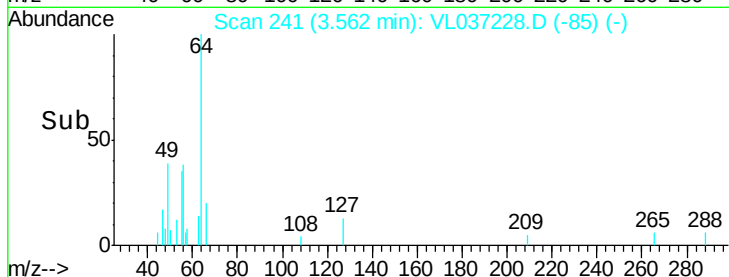
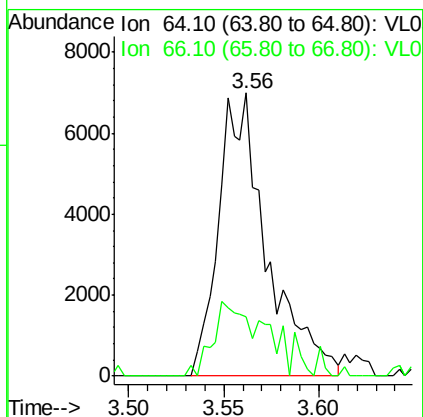
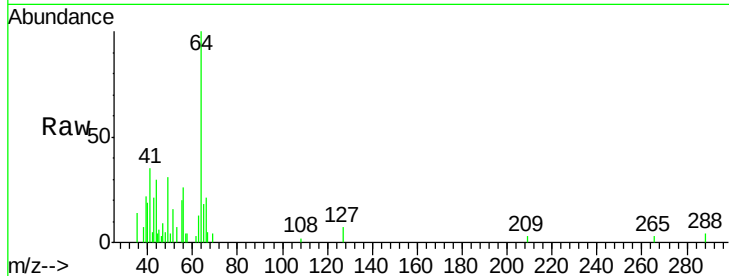
66 20.9 26.2 39.4#

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#9

Propene

Concen: 12.371 ppbv m

RT: 3.02 min Scan# 73

Delta R.T. 0.01 min

Lab File: VL037228.D

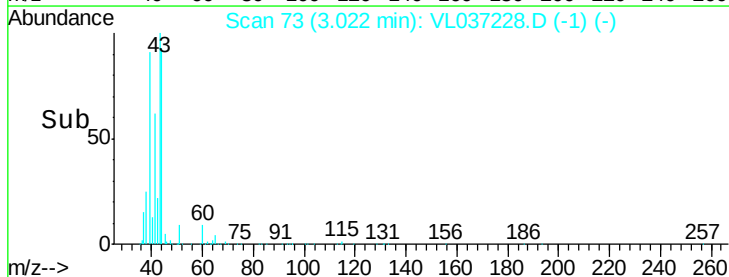
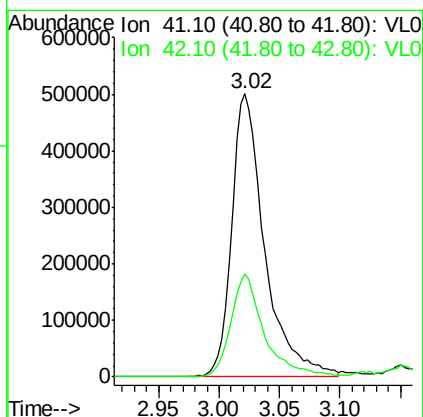
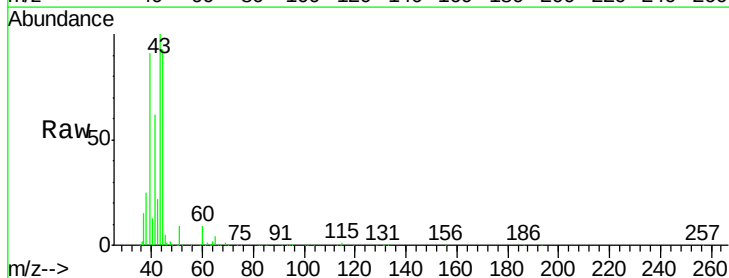
Acq: 22 Jun 2021 22:36

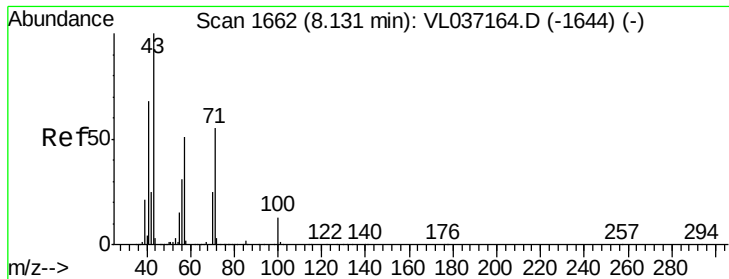
Tgt Ion: 41 Resp: 935438

Ion Ratio Lower Upper

41 100

42 301.8 54.5 81.7#





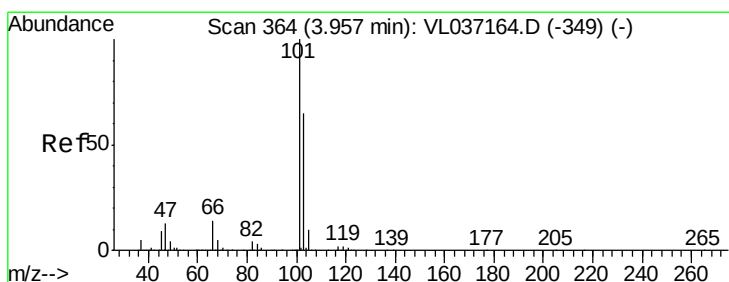
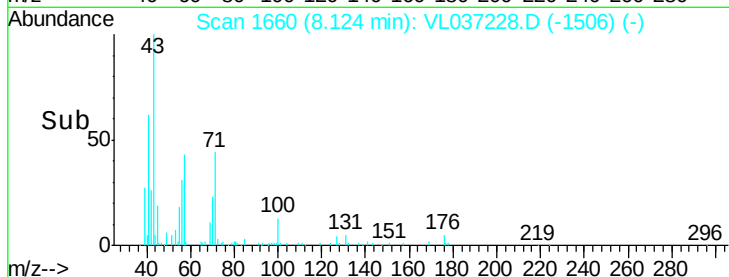
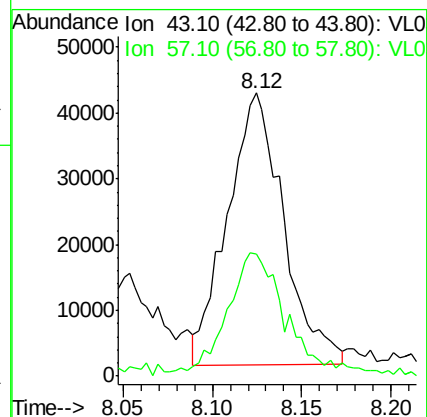
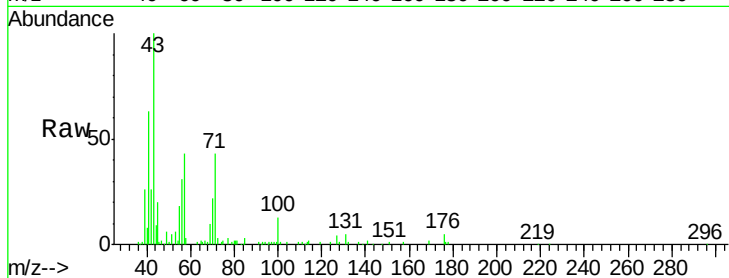
#10
Heptane
Concen: 0.494 ppbv
RT: 8.12 min Scan# 1660
Delta R.T. -0.01 min
Lab File: VL037228.D
Acq: 22 Jun 2021 22:36

Instrument :
MSVOA_L
ClientSampleId :
SV-02

Tot Ion	Ratio	Lower	Upper
43	100		
57	48.4	40.6	61.0

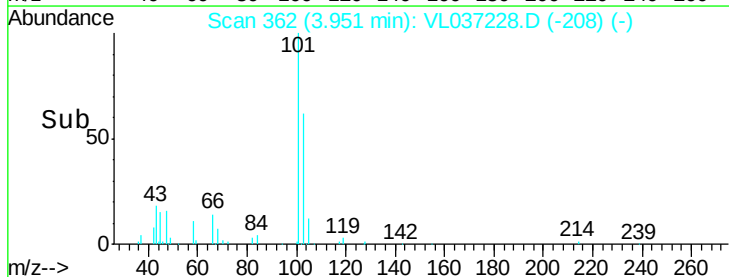
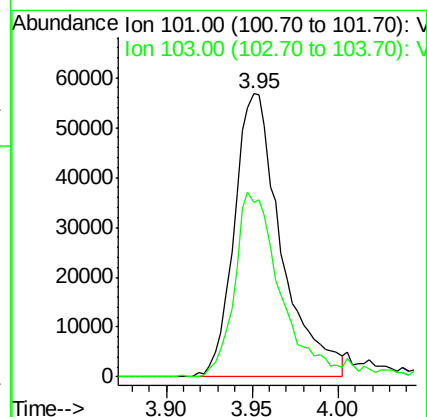
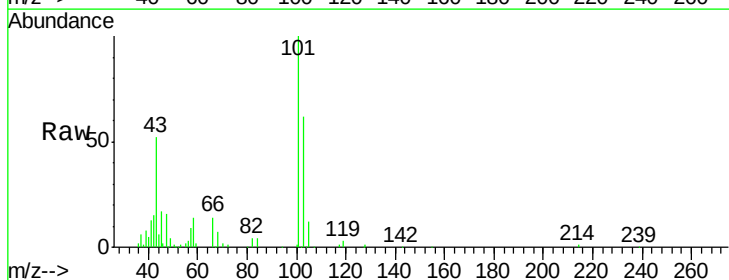
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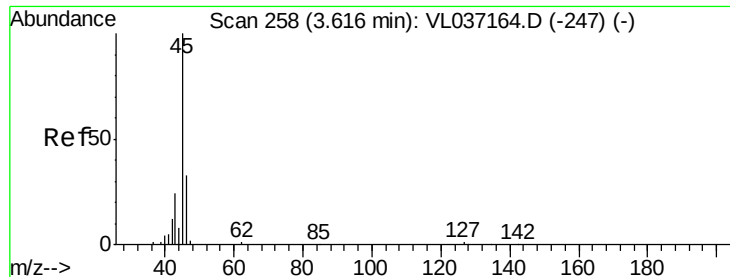
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#11
Trichlorofluoromethane
Concen: 0.480 ppbv
RT: 3.95 min Scan# 362
Delta R.T. -0.01 min
Lab File: VL037228.D
Acq: 22 Jun 2021 22:36

Tgt Ion	Ratio	Lower	Upper
101	100		
103	61.8	52.2	78.4





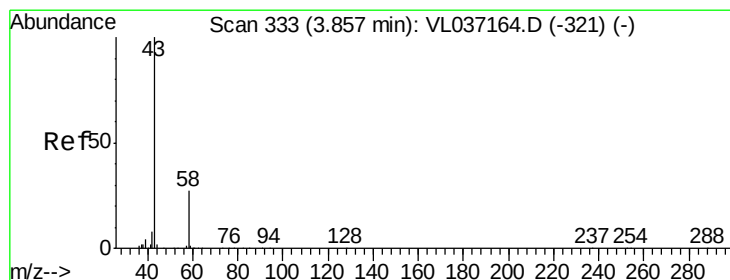
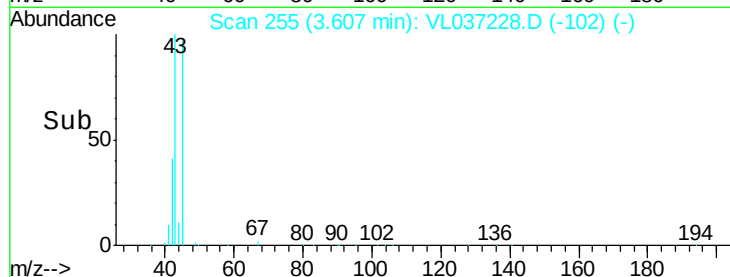
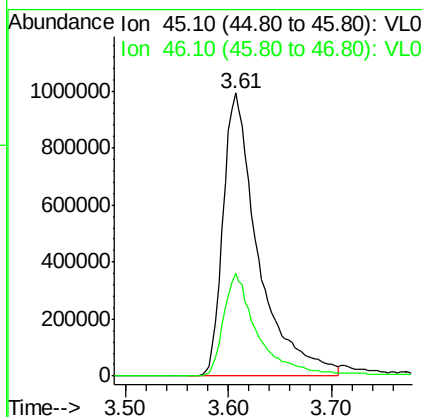
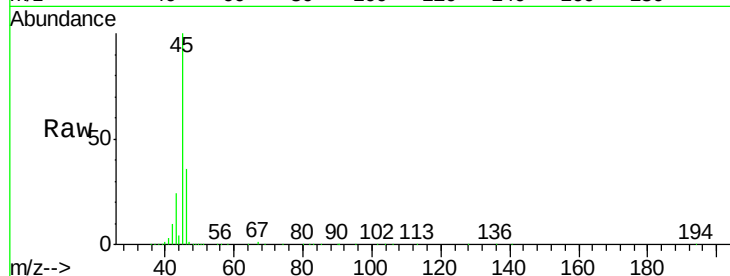
#13
Ethanol
Concen: 201.820 ppbv
RT: 3.61 min Scan# 255
Delta R.T. -0.01 min
Lab File: VL037228.D
Acq: 22 Jun 2021 22:36

Instrument :
MSVOA_L
ClientSampled :
SV-02

Tot Ion: 45 Resp: 2360672
Ion Ratio Lower Upper
45 100
46 36.8 34.2 137.0

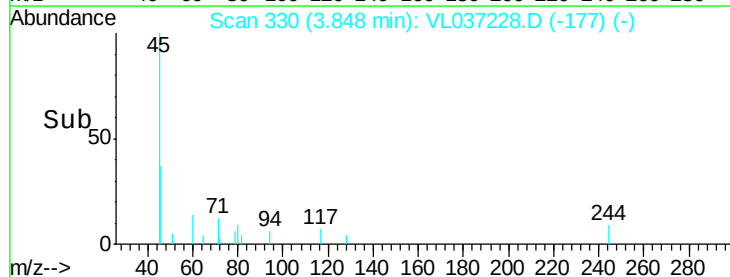
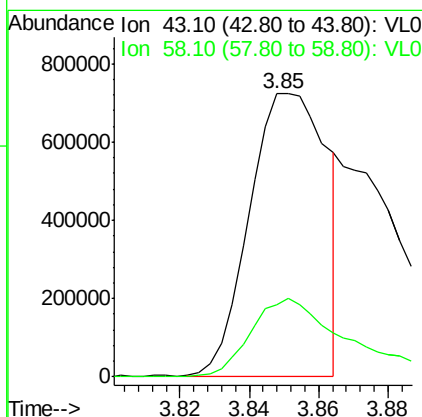
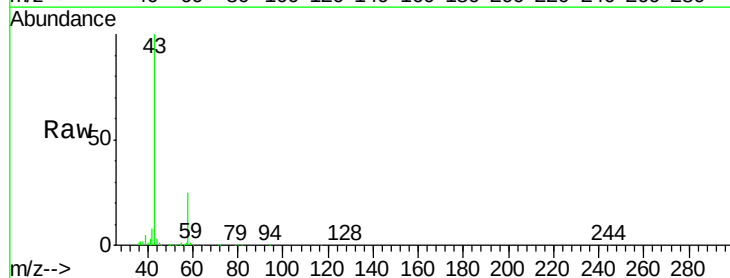
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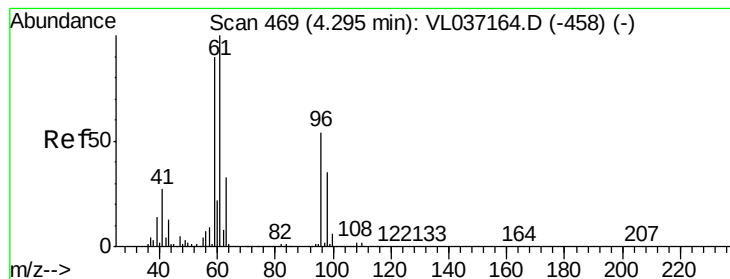
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#15
Acetone
Concen: 8.142 ppbv m
RT: 3.85 min Scan# 330
Delta R.T. -0.01 min
Lab File: VL037228.D
Acq: 22 Jun 2021 22:36

Tgt Ion: 43 Resp: 1116632
Ion Ratio Lower Upper
43 100
58 40.6 23.7 35.5#





#17

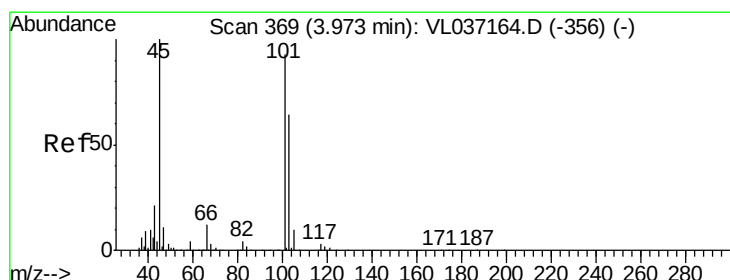
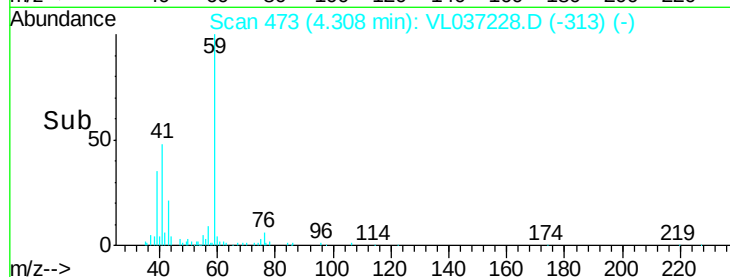
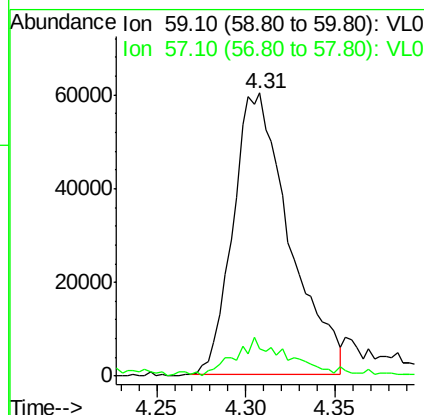
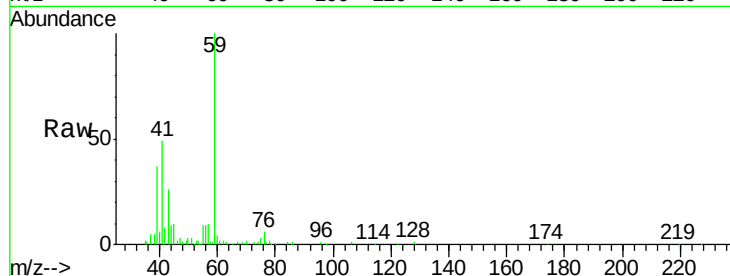
tert-Butyl alcohol
Concen: 1.042 ppbv
RT: 4.31 min Scan# 473
Delta R.T. 0.01 min
Lab File: VL037228.D
Acq: 22 Jun 2021 22:36

Instrument :
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ClientSampleId :
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Tot Ion	59	Resp	132057
Ion	Ratio	Lower	Upper
59	100		
57	13.6	8.8	13.2#

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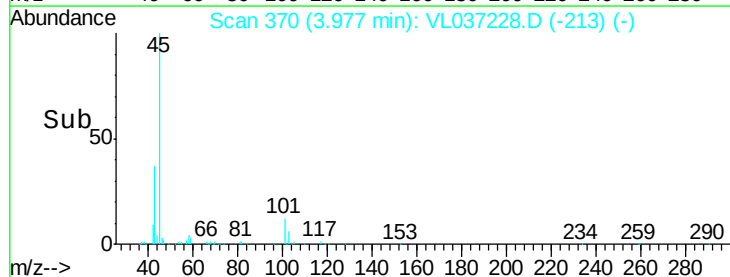
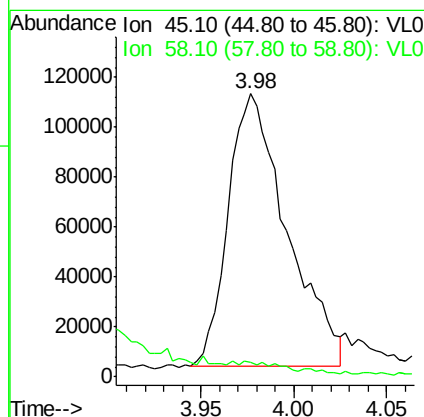
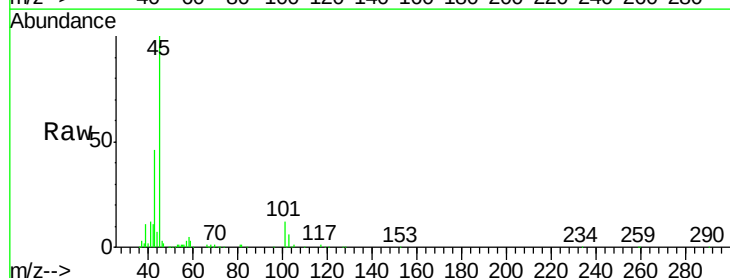
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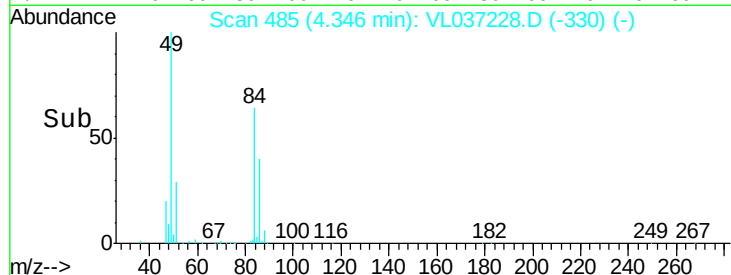
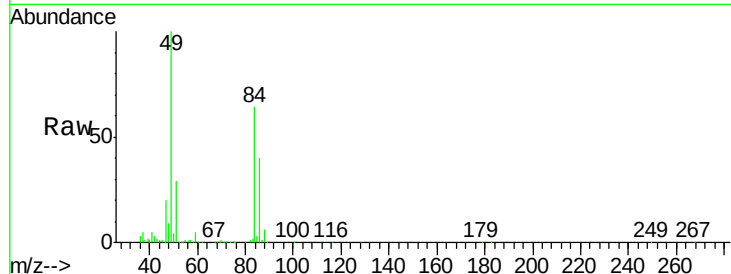
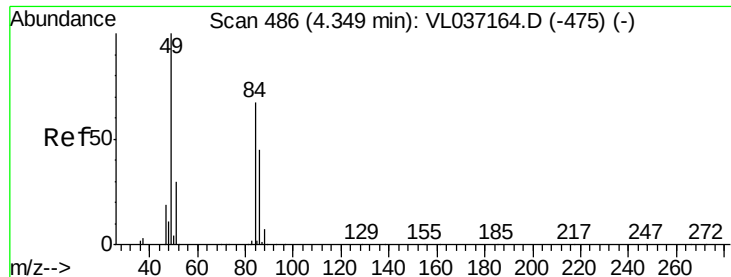


#19

Isopropyl Alcohol
Concen: 2.901 ppbv
RT: 3.98 min Scan# 370
Delta R.T. 0.00 min
Lab File: VL037228.D
Acq: 22 Jun 2021 22:36

Tgt Ion	45	Resp	240975
Ion	Ratio	Lower	Upper
45	100		
58	188.3	2.4	3.6#





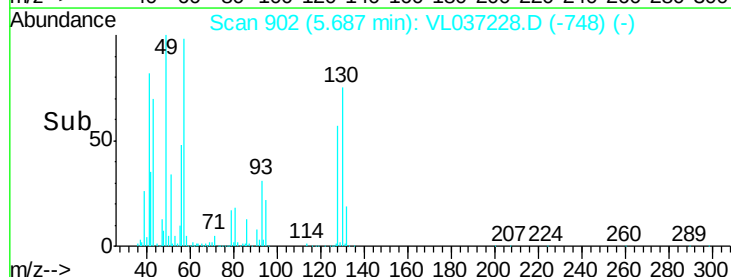
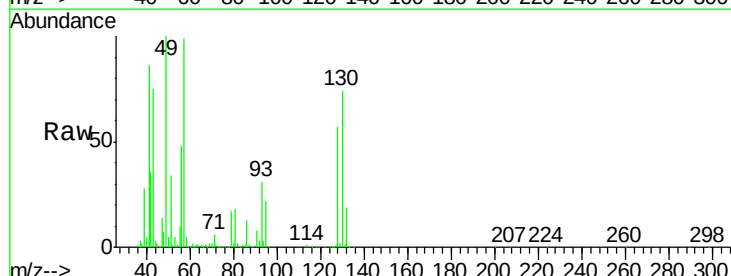
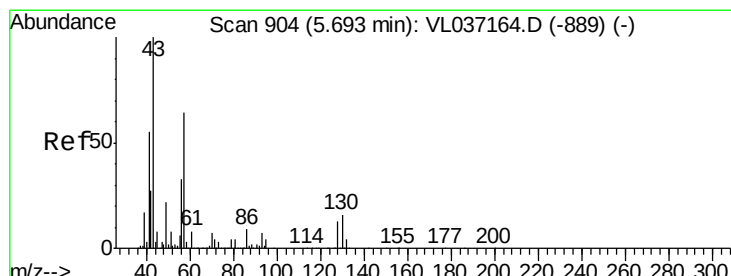
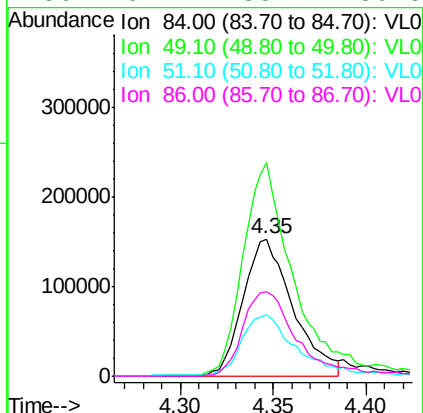
#20
Methvlene Chloride
Concen: 3.499 ppbv
RT: 4.35 min Scan# 485
Delta R.T. -0.00 min
Lab File: VL037228.D
Acq: 22 Jun 2021 22:36

Tot Ion	Ion	Ratio	Lower	Upper
84	100			
49	154.8	119.7	179.5	
51	43.8	36.1	54.1	
86	61.4	53.7	80.5	

Instrument :
MSVOA_L
ClientSampled :
SV-02

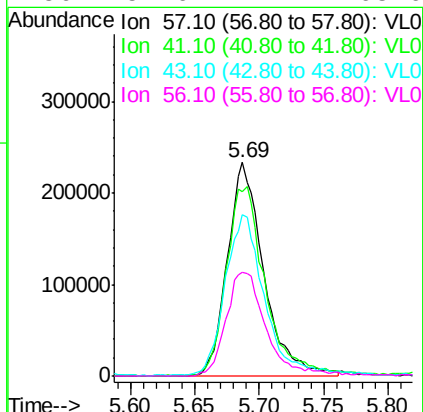
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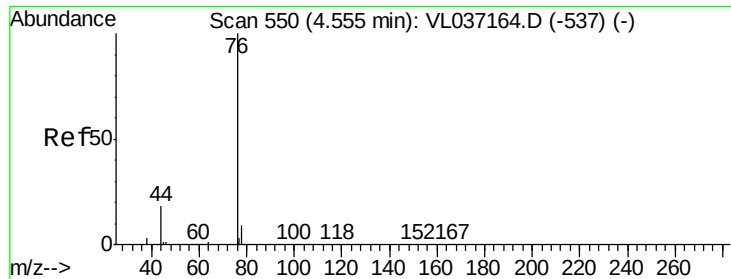
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#26
Hexane
Concen: 3.038 ppbv
RT: 5.69 min Scan# 902
Delta R.T. -0.01 min
Lab File: VL037228.D
Acq: 22 Jun 2021 22:36

Tgt Ion	Ion	Ratio	Lower	Upper
57	100			
41	96.4	73.5	110.3	
43	82.5	170.7	256.1#	
56	54.6	42.4	63.6	





#27

Carbon Disulfide

Concen: 8.734 ppbv

RT: 4.55 min Scan# 549

Delta R.T. -0.00 min

Lab File: VL037228.D

Acq: 22 Jun 2021 22:36

Instrument :

MSVOA_L

ClientSampleId :

SV-02

Tot Ion: 76 Resp: 1284153

Ion Ratio Lower Upper

76 100

44 20.5 15.4 23.2

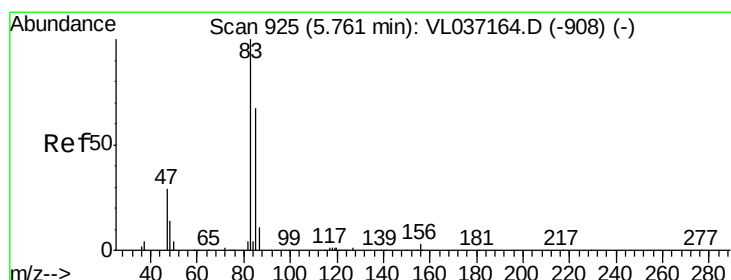
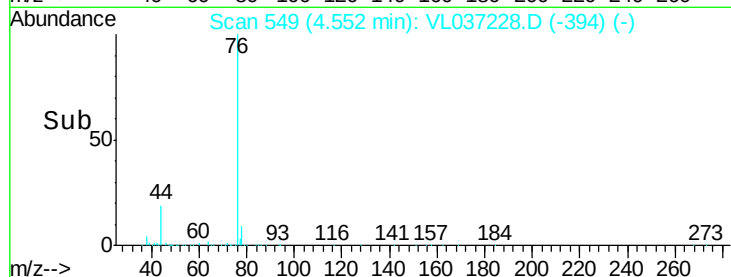
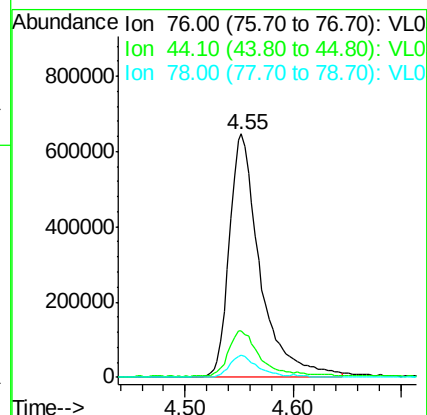
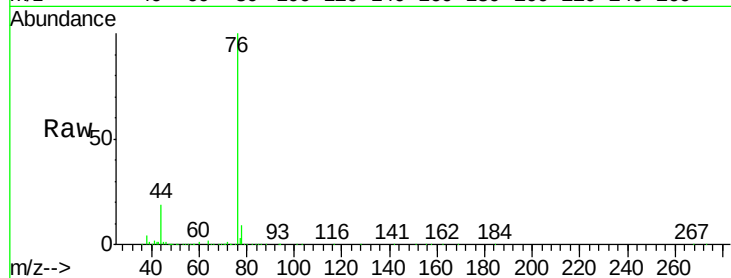
78 9.3 8.0 12.0

Manual Integrations

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#29

Chloroform

Concen: 1.626 ppbv

RT: 5.75 min Scan# 923

Delta R.T. -0.01 min

Lab File: VL037228.D

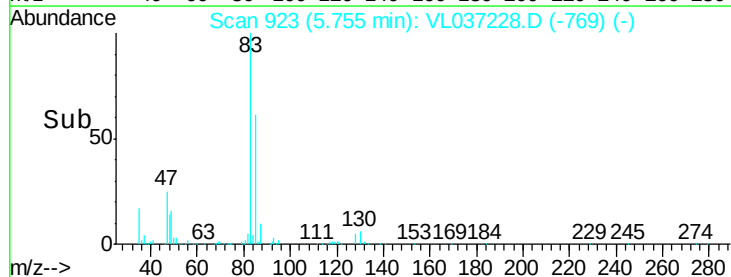
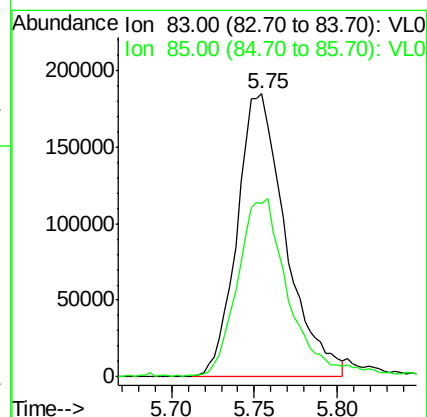
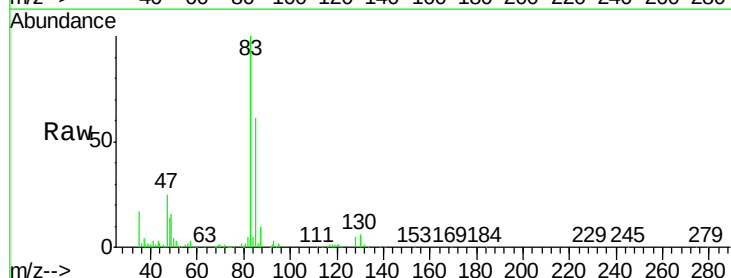
Acq: 22 Jun 2021 22:36

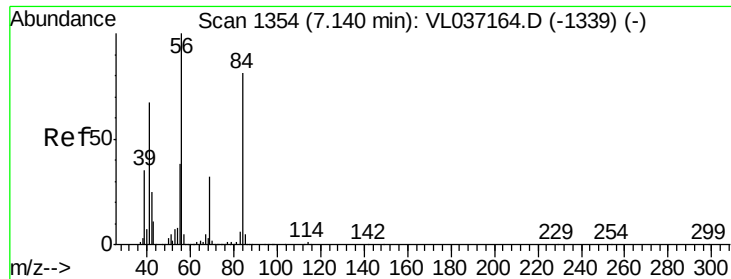
Tgt Ion: 83 Resp: 376996

Ion Ratio Lower Upper

83 100

85 60.6 53.6 80.4





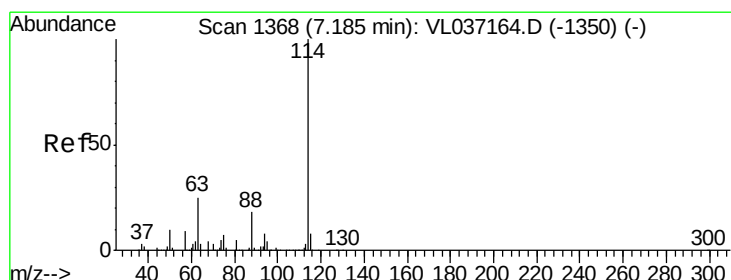
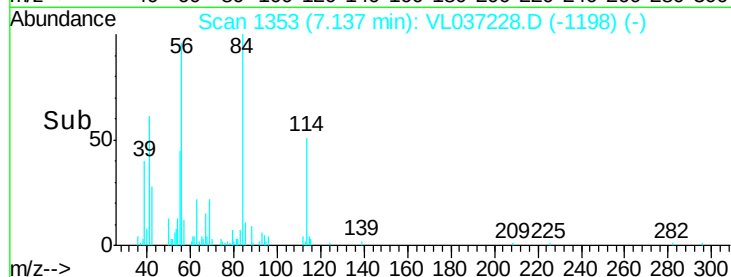
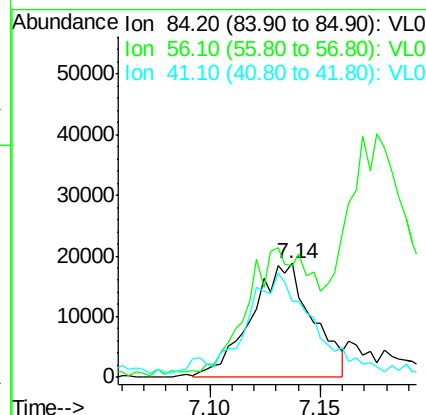
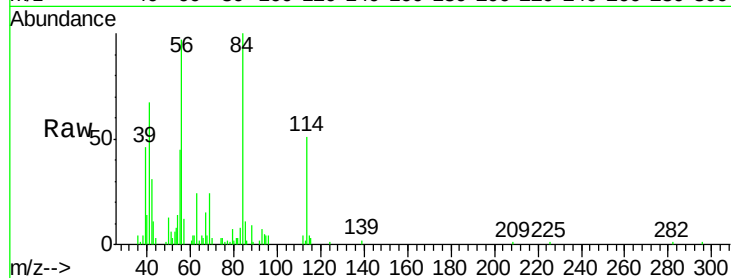
#30
Cyclohexane
Concen: 0.291 ppbv
RT: 7.14 min Scan# 1353
Delta R.T. -0.00 min
Lab File: VL037228.D
Acq: 22 Jun 2021 22:36

Instrument :
MSVOA_L
ClientSampleId :
SV-02

Tot Ion	Ratio	Lower	Upper
84	100		
56	119.9	107.7	161.5
41	101.2	69.0	103.6

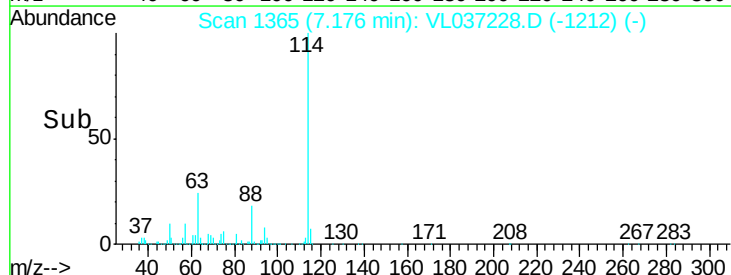
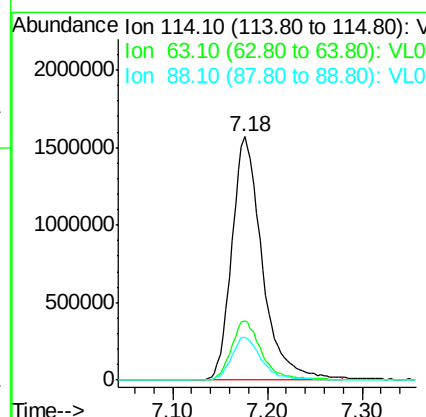
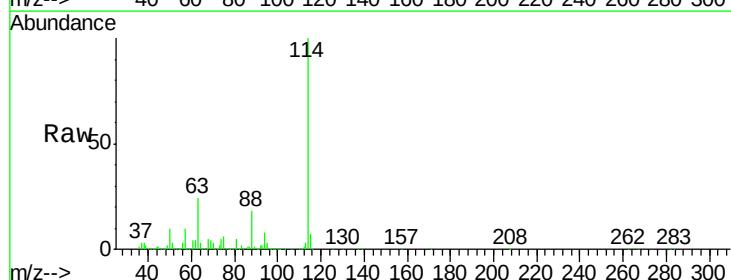
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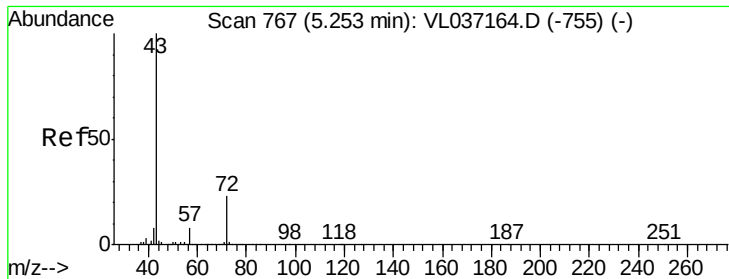
MMDadoda
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#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.18 min Scan# 1365
Delta R.T. -0.01 min
Lab File: VL037228.D
Acq: 22 Jun 2021 22:36

Tgt Ion	Ratio	Lower	Upper
114	100		
63	24.4	19.6	29.4
88	17.6	14.2	21.2





#34

2-Butanone

Concen: 1.004 ppbv

RT: 5.25 min Scan# 766

Delta R.T. -0.00 min

Lab File: VL037228.D

Acq: 22 Jun 2021 22:36

Instrument :

MSVOA_L

ClientSampleId :

SV-02

Tot Ion: 43 Resp: 136706

Ion Ratio Lower Upper

43 100

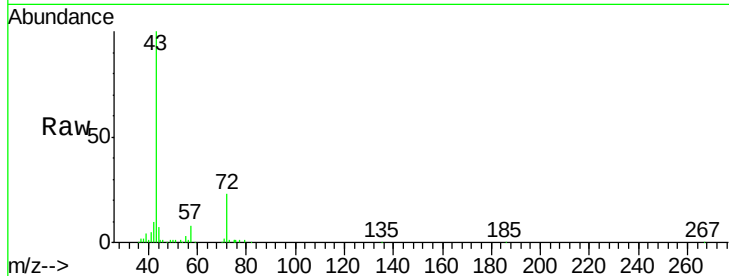
72 31.6 18.9 28.3#

Manual Integrations

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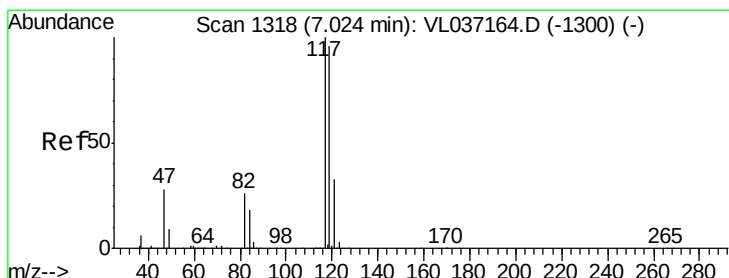
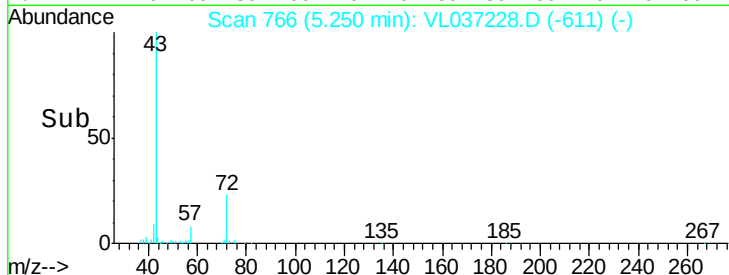
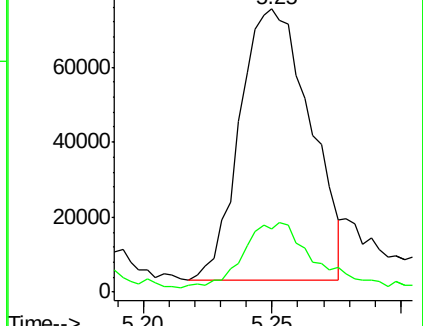
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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0



#35

Carbon Tetrachloride

Concen: 0.066 ppbv m

RT: 7.02 min Scan# 1315

Delta R.T. -0.01 min

Lab File: VL037228.D

Acq: 22 Jun 2021 22:36

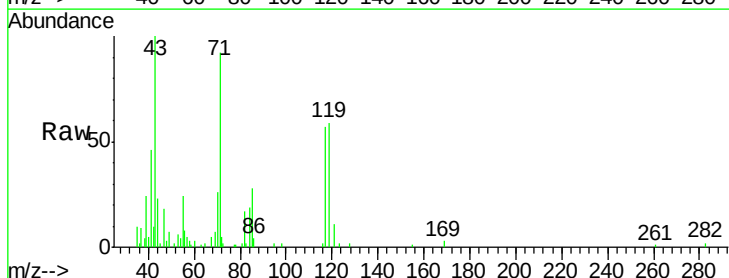
Tgt Ion: 117 Resp: 15415

Ion Ratio Lower Upper

117 100

119 103.6 76.6 114.8

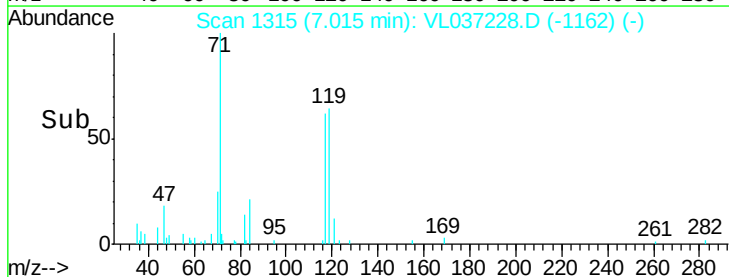
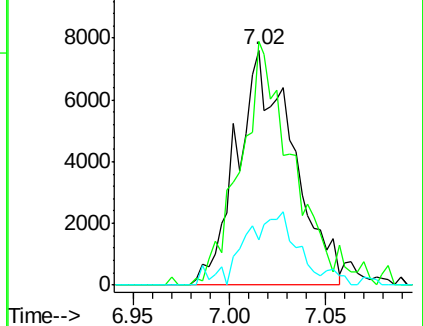
121 19.3 26.4 39.6#

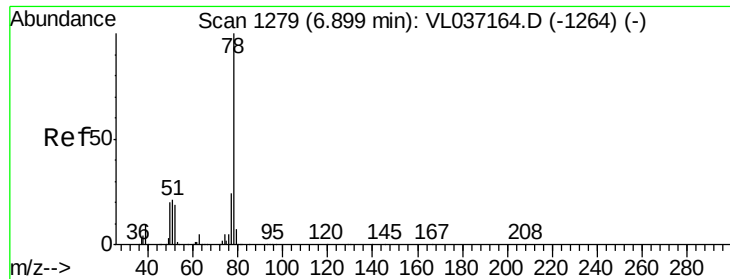


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V





#36

Benzene

Concen: 0.179 ppbv

RT: 6.89 min Scan# 1276

Delta R.T. -0.01 min

Lab File: VL037228.D

Acq: 22 Jun 2021 22:36

Instrument :

MSVOA_L

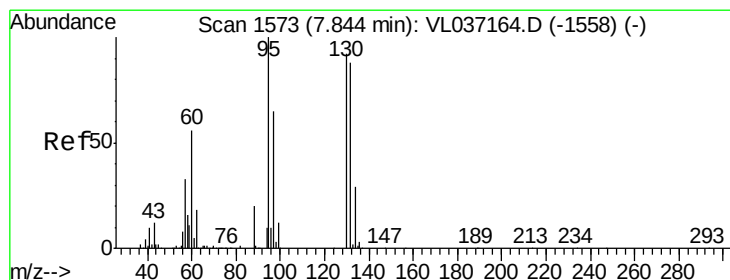
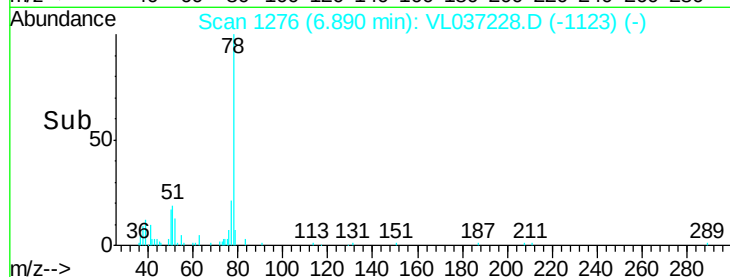
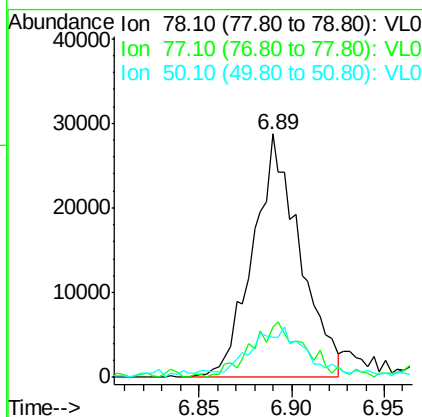
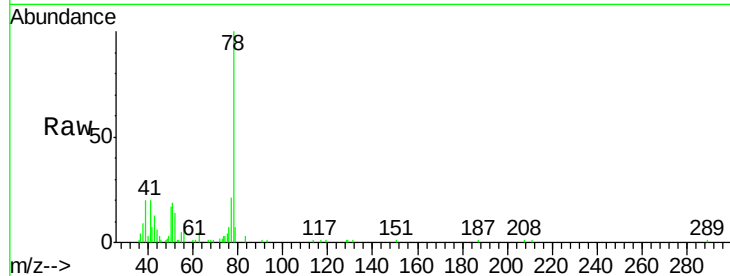
ClientSampleId :

SV-02

Tot Ion:	78	Resp:	50684
Ion	Ratio	Lower	Upper
78	100		
77	20.8	19.0	28.6
50	14.6	15.7	23.5#

Manual Integrations
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#38

Trichloroethene

Concen: 0.032 ppbv m

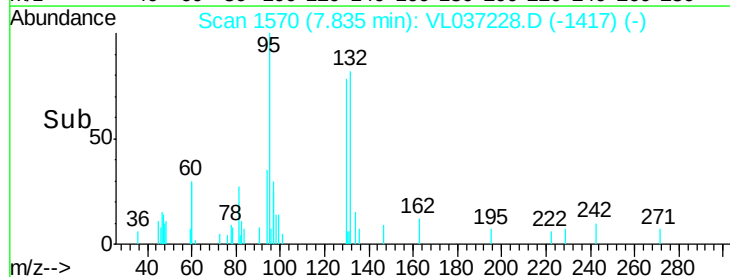
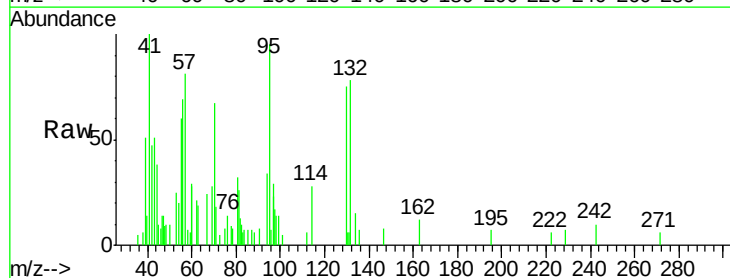
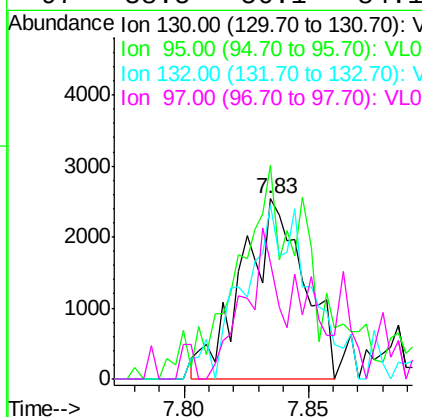
RT: 7.83 min Scan# 1570

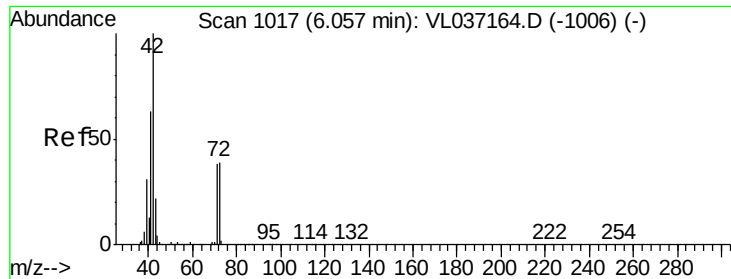
Delta R.T. -0.01 min

Lab File: VL037228.D

Acq: 22 Jun 2021 22:36

Tgt Ion:	130	Resp:	4369
Ion	Ratio	Lower	Upper
130	100		
95	127.5	86.6	129.8
132	104.1	76.6	114.8
97	38.5	56.1	84.1#





#41

Tetrahydrofuran

Concen: 0.704 ppbv m

RT: 6.06 min Scan# 1018

Delta R.T. 0.00 min

Lab File: VL037228.D

Acq: 22 Jun 2021 22:36

Instrument :

MSVOA_L

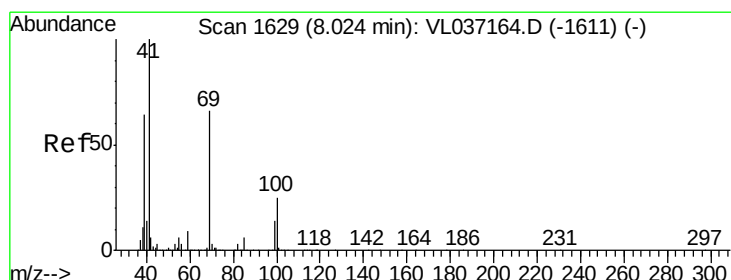
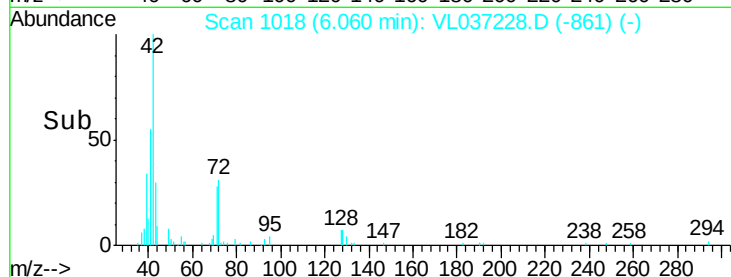
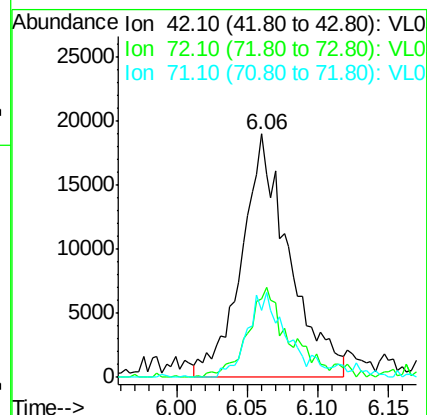
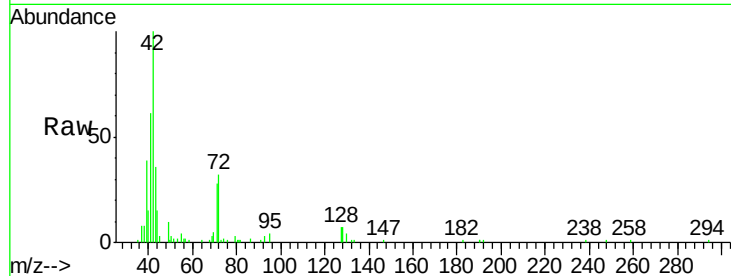
ClientSampleId :

SV-02

Tot Ion	Ratio	Lower	Upper
42	100		
72	34.0	33.0	49.4
71	32.3	31.0	46.6

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#43

Methyl Methacrylate

Concen: 1.573 ppbv

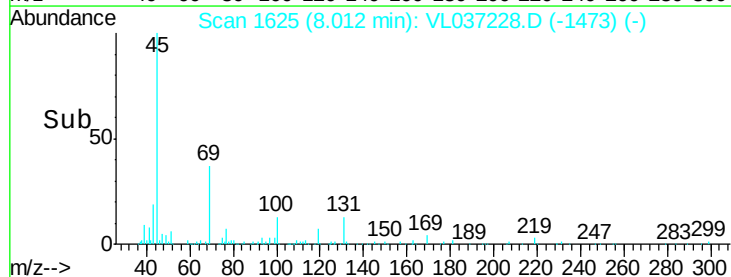
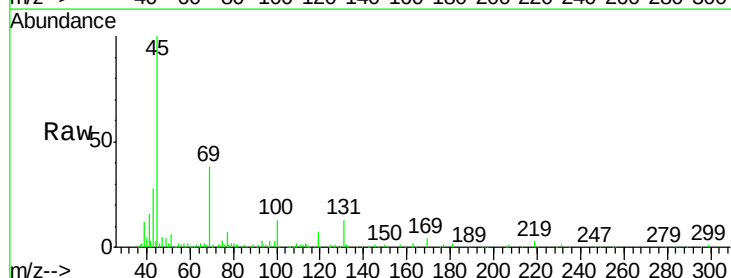
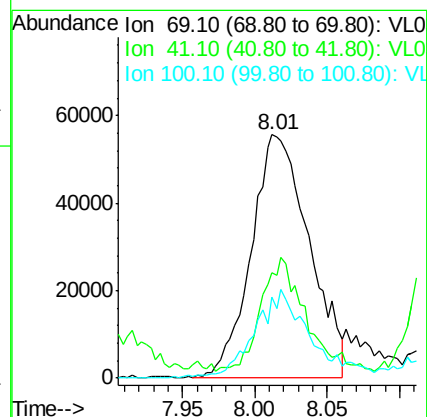
RT: 8.01 min Scan# 1625

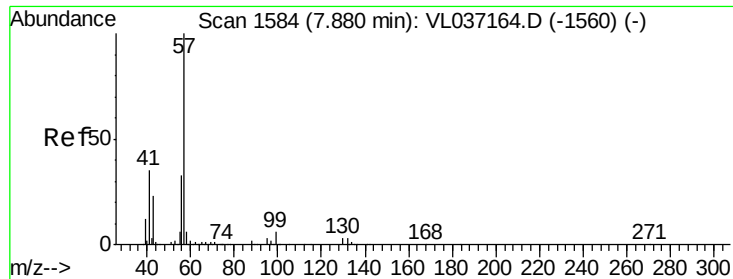
Delta R.T. -0.01 min

Lab File: VL037228.D

Acq: 22 Jun 2021 22:36

Tgt Ion	Ratio	Lower	Upper
69	100		
41	40.0	119.4	179.0#
100	35.3	28.6	43.0





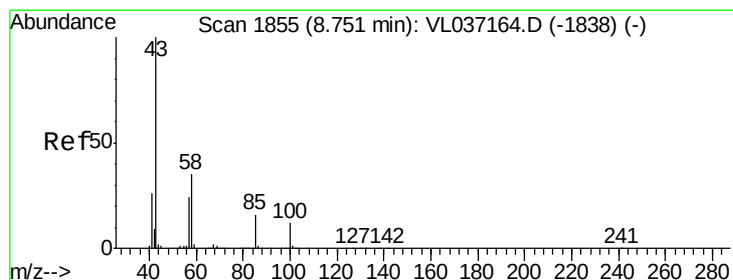
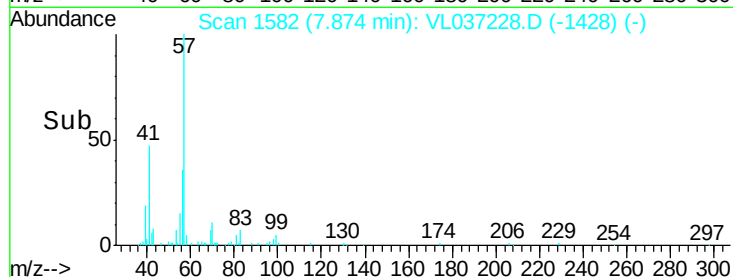
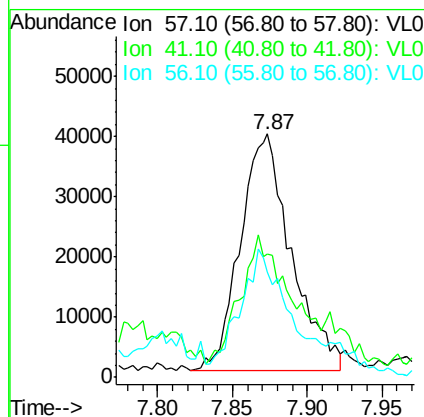
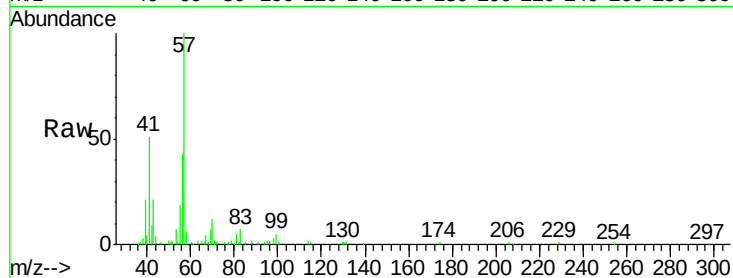
#44
 2,2,4-Trimethylpentane
 Concen: 0.194 ppbv
 RT: 7.87 min Scan# 1582
 Delta R.T. -0.01 min
 Lab File: VL037228.D
 Acq: 22 Jun 2021 22:36

Instrument :
 MSVOA_L
 ClientSampled :
 SV-02

Tot Ion	Ratio	Lower	Upper
57	100		
41	76.1	27.6	41.4#
56	62.6	25.3	37.9#

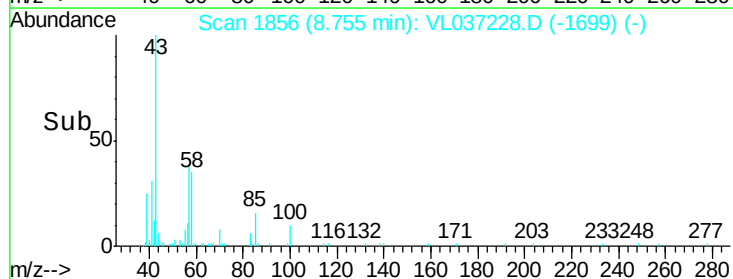
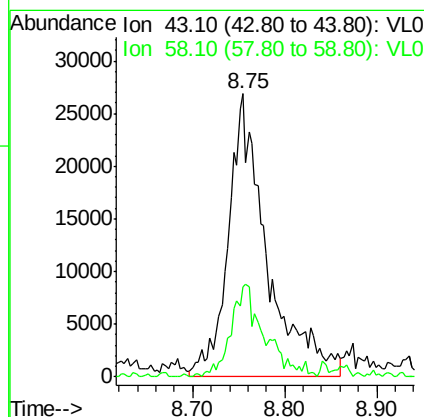
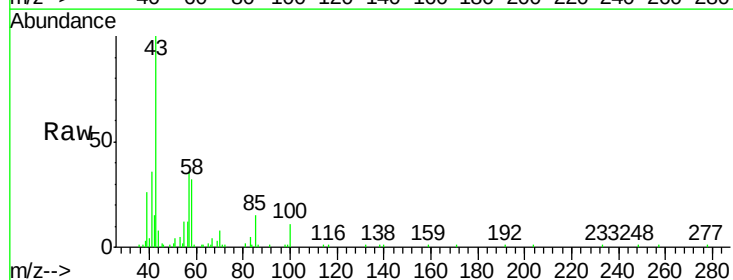
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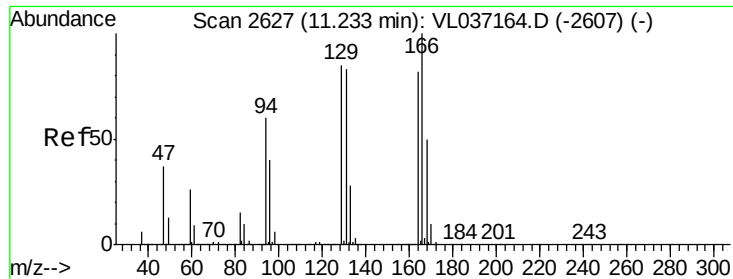
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#50
 4-Methyl-2-Pentanone
 Concen: 0.422 ppbv m
 RT: 8.75 min Scan# 1856
 Delta R.T. 0.00 min
 Lab File: VL037228.D
 Acq: 22 Jun 2021 22:36

Tgt Ion	Ratio	Lower	Upper
43	100		
58	0.0	28.4	42.6#





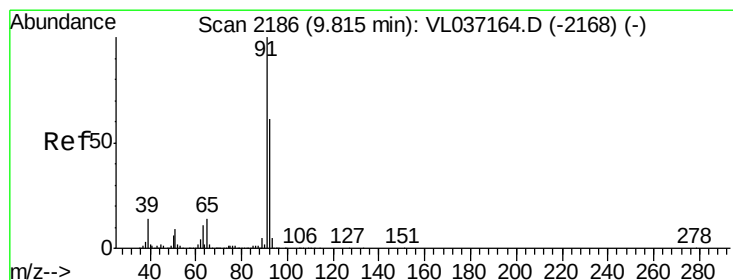
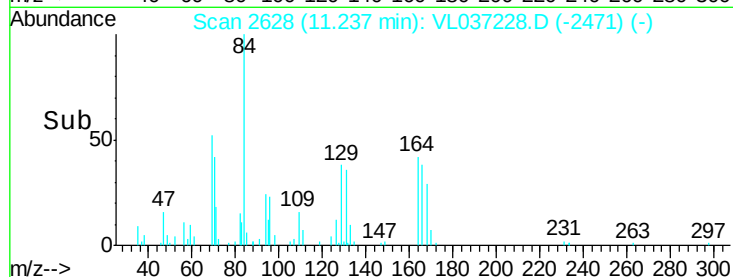
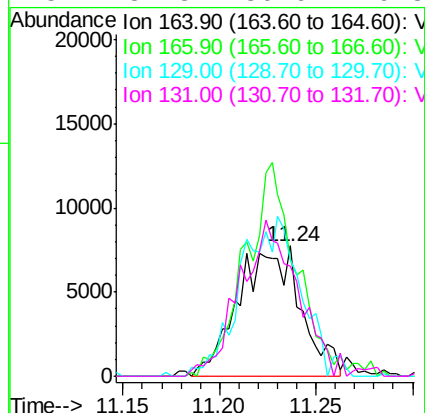
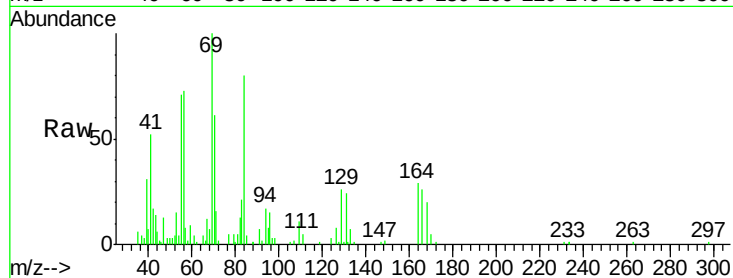
#52
Tetrachloroethene
Concen: 0.131 ppbv m
RT: 11.24 min Scan# 2628
Delta R.T. 0.00 min
Lab File: VL037228.D
Acq: 22 Jun 2021 22:36

Instrument :
MSVOA_L
ClientSampleId :
SV-02

Tot Ion	Ratio	Lower	Upper
164	100		
166	89.8	97.6	146.4#
129	89.5	82.9	124.3
131	84.3	80.6	120.8

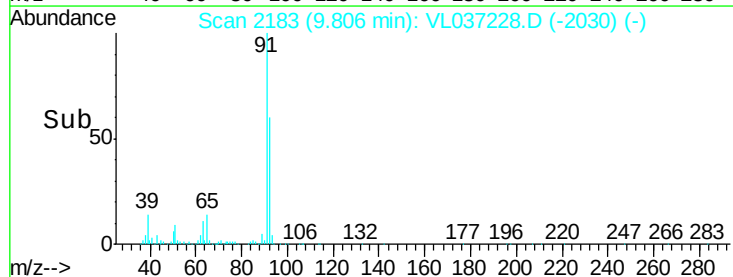
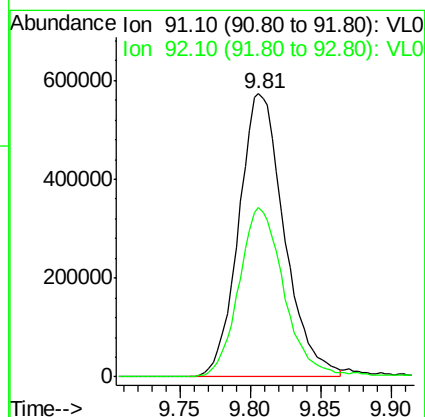
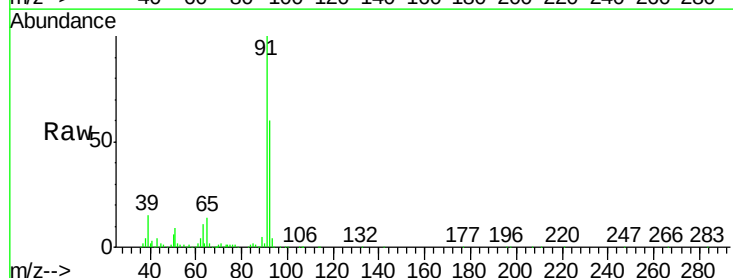
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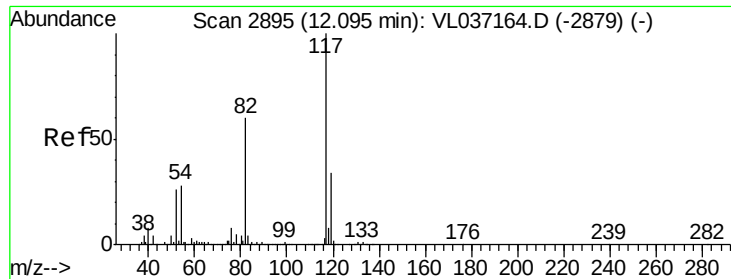
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#53
Toluene
Concen: 3.815 ppbv
RT: 9.81 min Scan# 2183
Delta R.T. -0.01 min
Lab File: VL037228.D
Acq: 22 Jun 2021 22:36

Tgt Ion	Ratio	Lower	Upper
91	100		
92	60.5	48.3	72.5





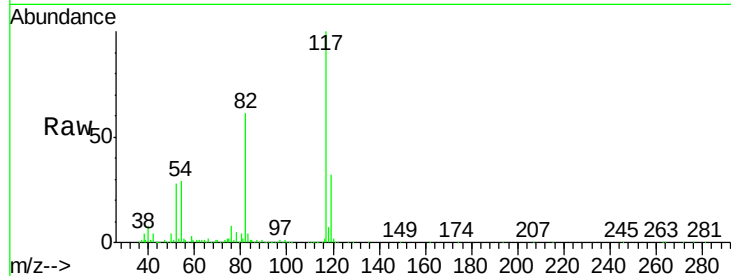
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.09 min Scan# 2892
Delta R.T. -0.01 min
Lab File: VL037228.D
Acq: 22 Jun 2021 22:36

Instrument :
MSVOA_L
ClientSampleId :
SV-02

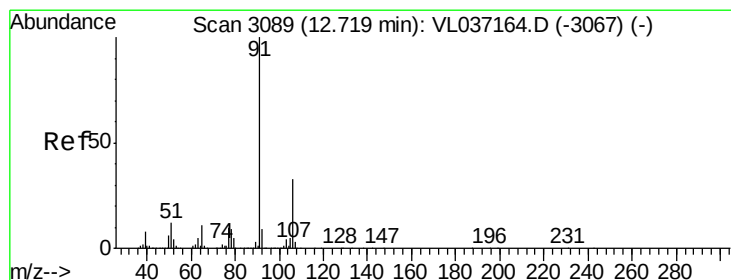
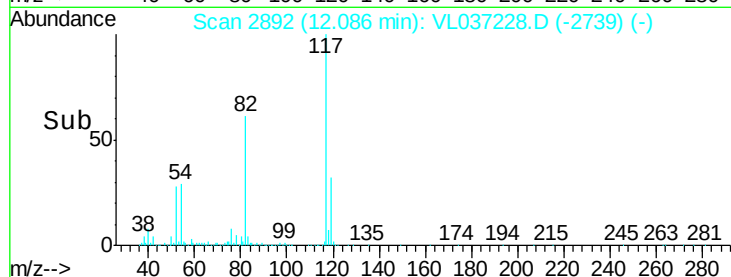
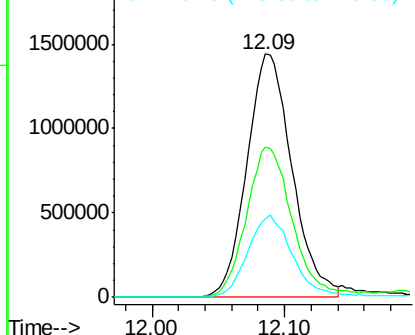
Tot Ion:117 Resp: 3414306
Ion Ratio Lower Upper
117 100
82 63.7 51.7 77.5
119 35.2 47.6 71.4#

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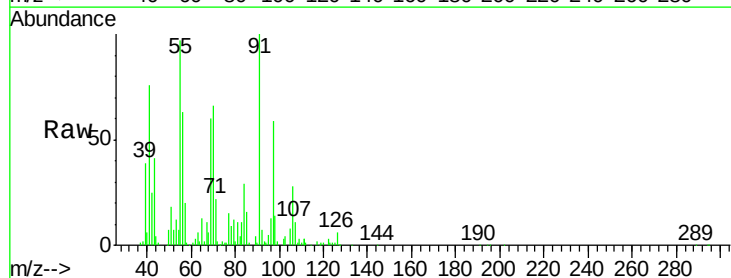


Abundance Ion 117.10 (116.80 to 117.80): V
Ion 82.10 (81.80 to 82.80): VL0
Ion 119.10 (118.80 to 119.80): V

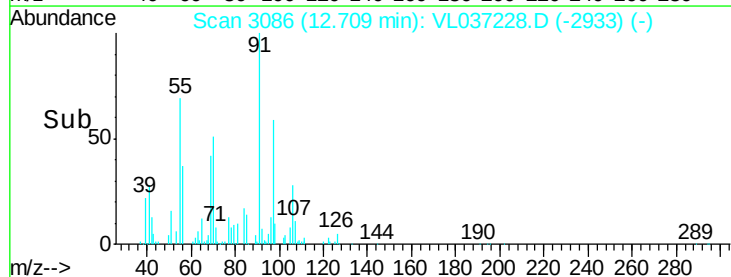
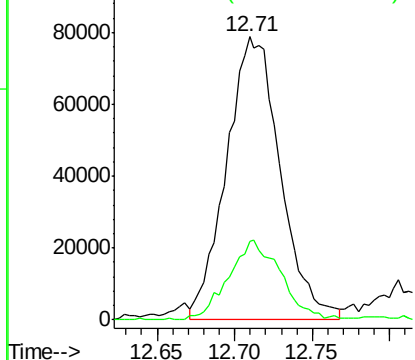


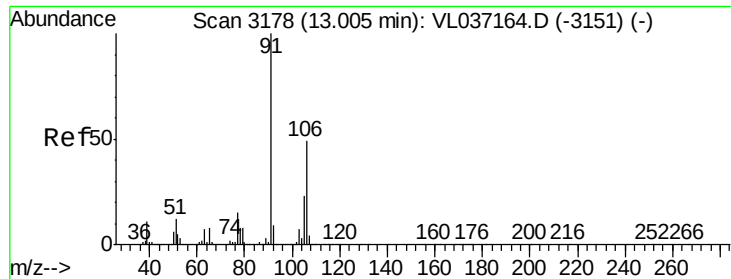
#58
Ethyl Benzene
Concen: 0.405 ppbv m
RT: 12.71 min Scan# 3086
Delta R.T. -0.01 min
Lab File: VL037228.D
Acq: 22 Jun 2021 22:36

Tgt Ion: 91 Resp: 190574
Ion Ratio Lower Upper
91 100
106 27.7 26.3 39.5



Abundance Ion 91.10 (90.80 to 91.80): VL0
Ion 106.10 (105.80 to 106.80): V





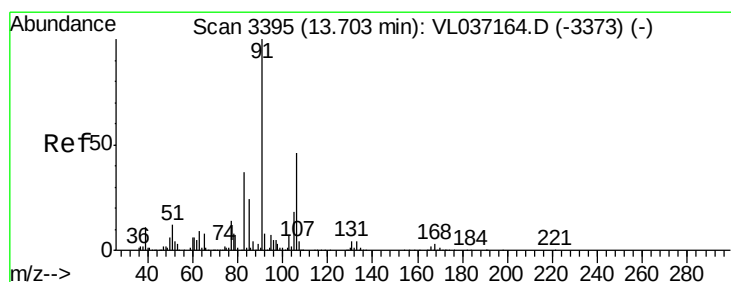
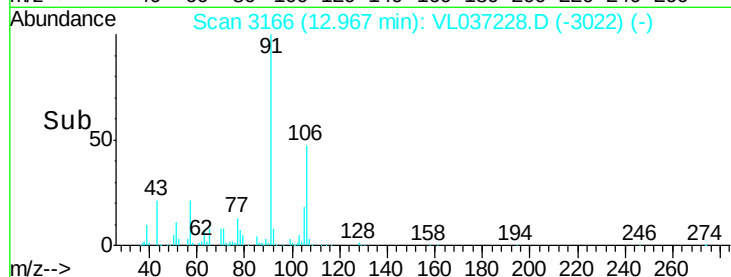
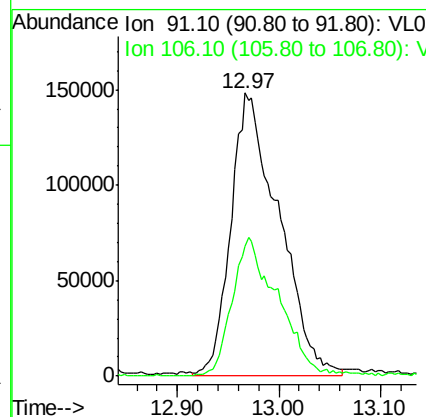
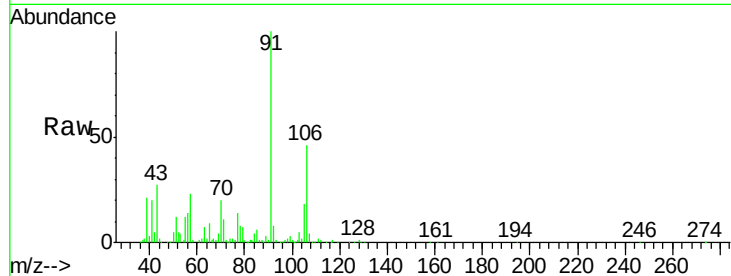
#59
m/p-Xylene
Concen: 1.225 ppbv m
RT: 12.97 min Scan# 3166
Delta R.T. -0.04 min
Lab File: VL037228.D
Acq: 22 Jun 2021 22:36

Instrument :
MSVOA_L
ClientSampled :
SV-02

Tot Ion: 91 Resp: 487934
Ion Ratio Lower Upper
91 100
106 0.0 37.0 55.4#

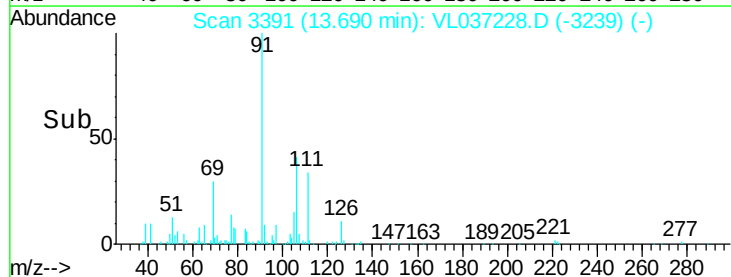
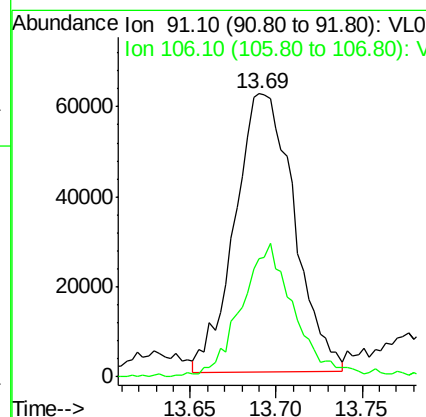
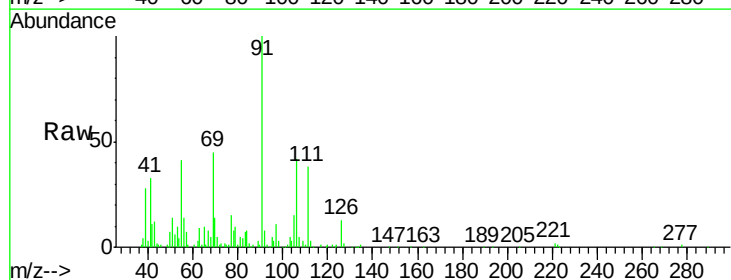
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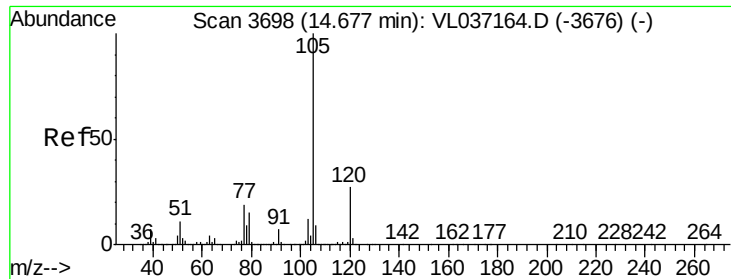
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#60
o-Xylene
Concen: 0.391 ppbv
RT: 13.69 min Scan# 3391
Delta R.T. -0.01 min
Lab File: VL037228.D
Acq: 22 Jun 2021 22:36

Tgt Ion: 91 Resp: 148461
Ion Ratio Lower Upper
91 100
106 43.4 23.0 69.0





#62

Isopropylbenzene

Concen: 0.149 ppbv m

RT: 14.67 min Scan# 3696

Delta R.T. -0.01 min

Lab File: VL037228.D

Acq: 22 Jun 2021 22:36

Instrument :

MSVOA_L

ClientSampled :

SV-02

Tot Ion: 105 Resp: 80594

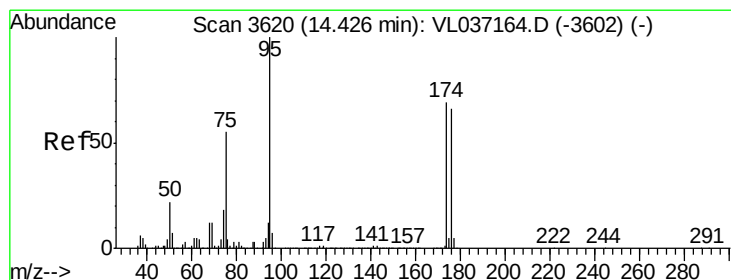
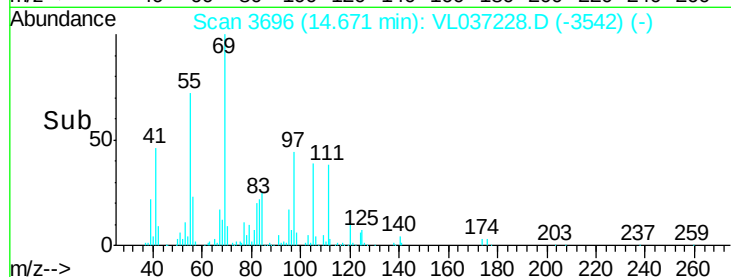
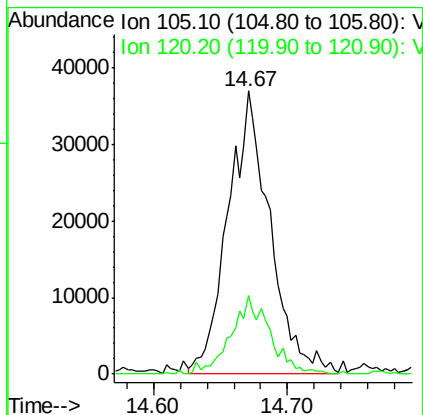
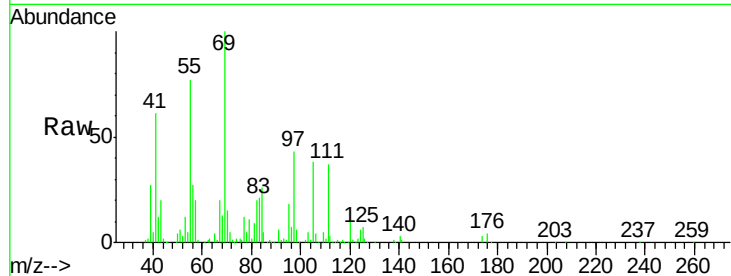
Ion Ratio Lower Upper

105 100

120 0.0 21.6 32.4#

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#68

1-Bromo-4-Fluorobenzene

Concen: 12.609 ppbv

RT: 14.42 min Scan# 3618

Delta R.T. -0.01 min

Lab File: VL037228.D

Acq: 22 Jun 2021 22:36

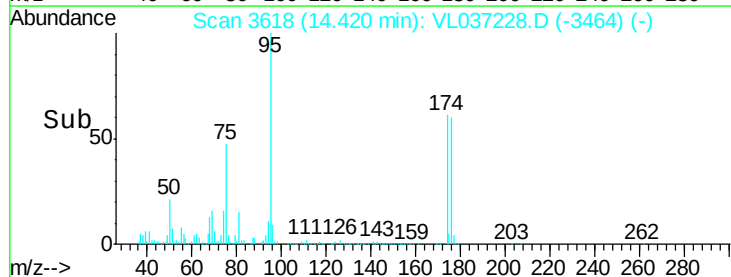
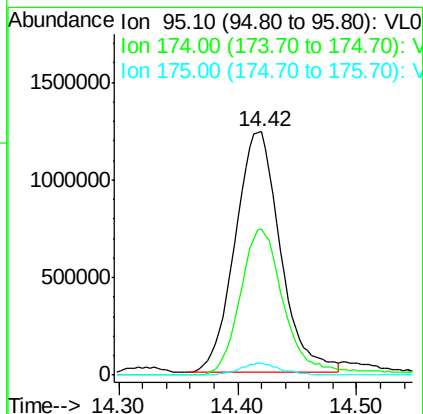
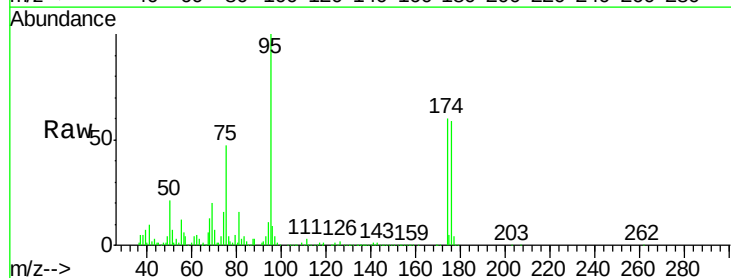
Tgt Ion: 95 Resp: 3262164

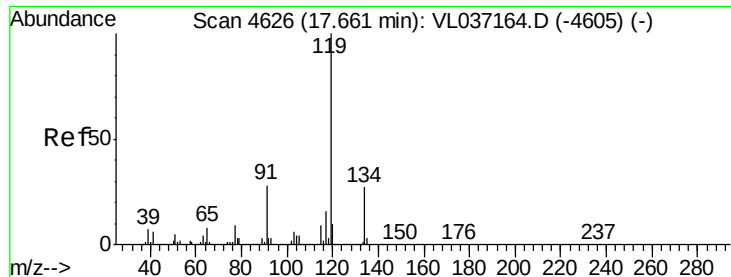
Ion Ratio Lower Upper

95 100

174 61.4 57.0 85.4

175 4.6 4.4 6.6





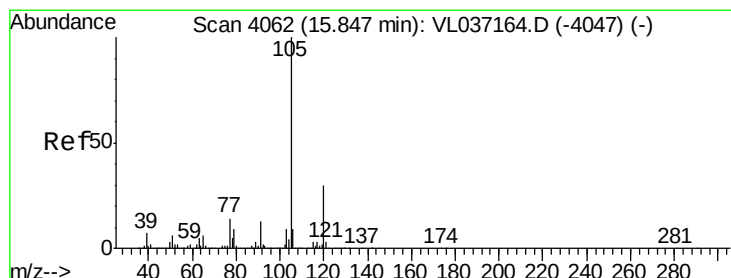
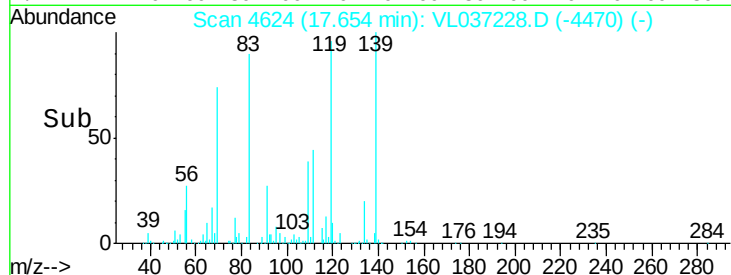
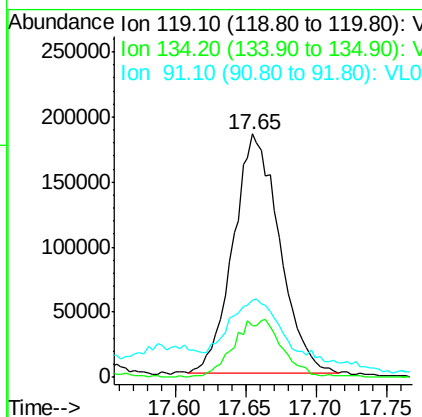
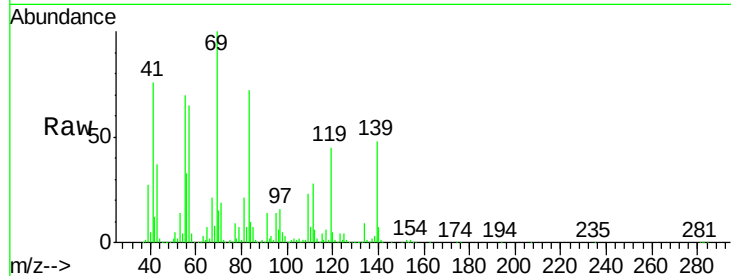
#69
p-Isopropyltoluene
Concen: 0.779 ppbv
RT: 17.65 min Scan# 4624
Delta R.T. -0.01 min
Lab File: VL037228.D
Acq: 22 Jun 2021 22:36

Instrument :
MSVOA_L
ClientSampled :
SV-02

Tot Ion	Ratio	Resp	Lower	Upper
119	100	419817		
134	26.0	20.9	31.3	
91	41.9	22.6	34.0#	

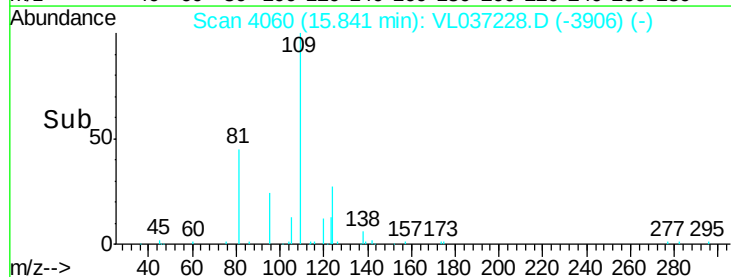
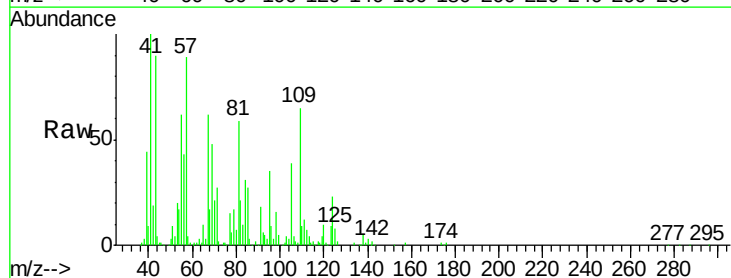
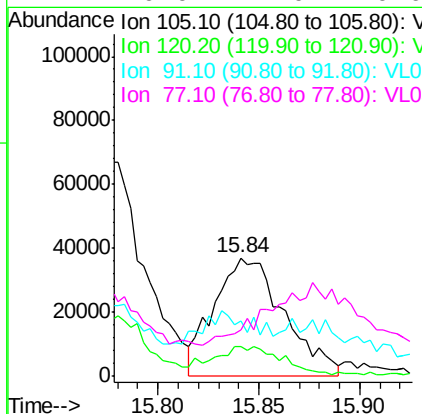
Manual Integrations
APPROVED

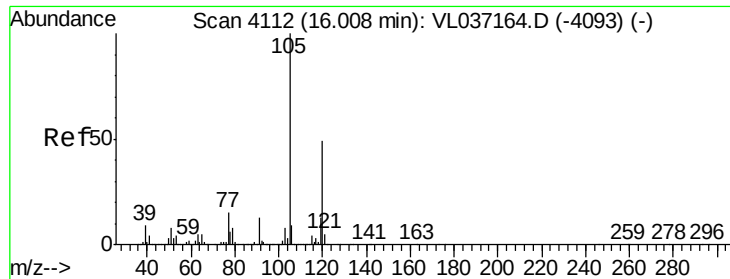
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#72
4-Ethyltoluene
Concen: 0.208 ppbv m
RT: 15.84 min Scan# 4060
Delta R.T. -0.01 min
Lab File: VL037228.D
Acq: 22 Jun 2021 22:36

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	89423		
120	0.0	24.7	37.1#	
91	38.5	10.2	15.4#	
77	0.0	11.0	16.6#	





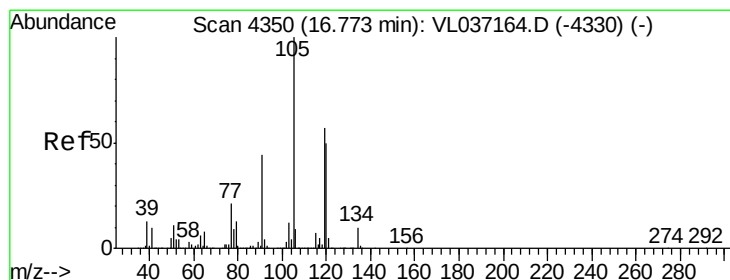
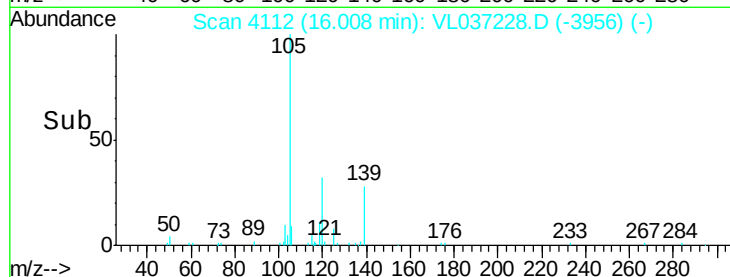
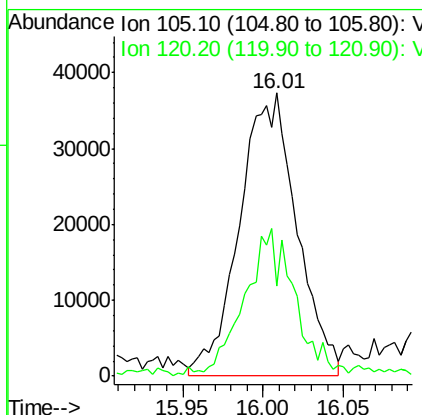
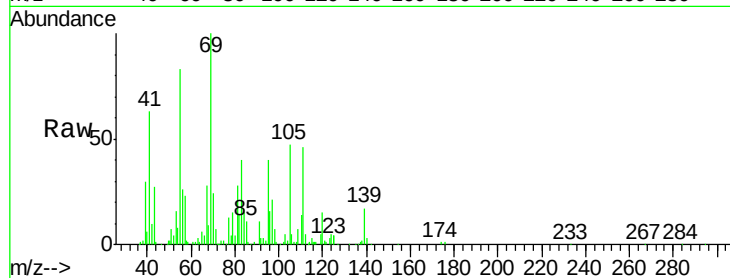
#73
 1,3,5-Trimethylbenzene
 Concen: 0.220 ppbv m
 RT: 16.01 min Scan# 4112
 Delta R.T. 0.00 min
 Lab File: VL037228.D
 Acq: 22 Jun 2021 22:36

Instrument :
 MSVOA_L
 ClientSampled :
 SV-02

Tot Ion:105 Resp: 91831
 Ion Ratio Lower Upper
 105 100
 120 31.7 39.4 59.2#

Manual Integrations
 APPROVED

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#74
 1,2,4-Trimethylbenzene
 Concen: 0.669 ppbv m
 RT: 16.76 min Scan# 4347
 Delta R.T. -0.01 min
 Lab File: VL037228.D
 Acq: 22 Jun 2021 22:36

Tgt Ion:105 Resp: 287300
 Ion Ratio Lower Upper
 105 100
 120 42.1 39.8 59.8
 91 16.1 37.0 55.4#
 77 21.0 17.0 25.4

