

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL040521\
 Data File : VL036680.D
 Acq On : 5 Apr 2021 19:24
 Operator : SY/AP
 Sample : M1834-02 10X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV2

Manual Integrations
 APPROVED

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 4/6/2021 5:13:57 PM

Quant Time: Apr 06 14:30:25 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032521AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Mar 25 2021
 QLast Update : Thu Mar 25 09:42:40 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1407993	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	3513170	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.10	117	3251161	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.43	95	2596625	10.02	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.20%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
9) Propene	3.02	41	329323	3.927	ppbv	89
10) Heptane	8.13	43	266951	1.250	ppbv	99
13) Ethanol	3.61	45	184994m	18.524	ppbv	
15) Acetone	3.85	43	4465131	32.221	ppbv	97
17) tert-Butyl alcohol	4.32	59	55021m	0.456	ppbv	
19) Isopropyl Alcohol	3.99	45	157037m	2.060	ppbv	
20) Methylene Chloride	4.35	84	41215m	0.635	ppbv	
26) Hexane	5.69	57	152404m	0.997	ppbv	
27) Carbon Disulfide	4.56	76	22008m	0.146	ppbv	
30) Cyclohexane	7.14	84	48230m	0.389	ppbv	
32) 1,1,1-Trichloroethane	6.52	97	7532m	0.031	ppbv	
34) 2-Butanone	5.24	43	7446423	43.422	ppbv	97
36) Benzene	6.89	78	99461	0.307	ppbv #	87
38) Trichloroethene	7.84	130	7619m	0.060	ppbv	
44) 2,2,4-Trimethylpentane	7.88	57	1307701	2.293	ppbv	90
51) 2-Hexanone	10.15	43	805037	6.429	ppbv #	90
52) Tetrachloroethene	11.23	164	1904170	15.960	ppbv	97
53) Toluene	9.82	91	832702	2.413	ppbv	100
58) Ethyl Benzene	12.72	91	1315764	2.782	ppbv	93
59) m/p-Xylene	12.98	91	3276425	7.942	ppbv	95
60) o-Xylene	13.70	91	1045006	2.620	ppbv	98

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

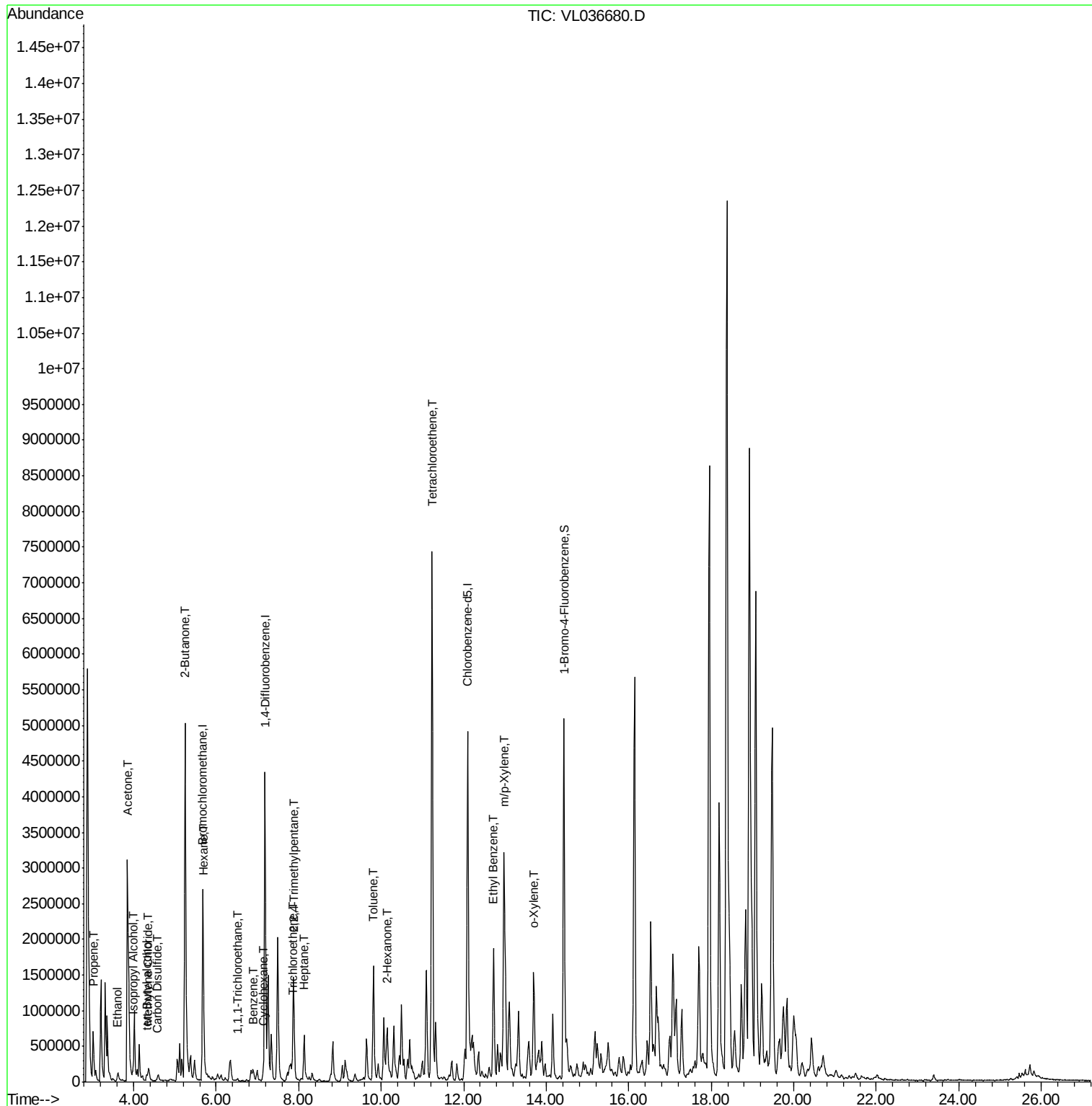
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL040521\
Data File : VL036680.D
Acq On : 5 Apr 2021 19:24
Operator : SY/AP
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Manual Integrations
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Quant Time: Apr 06 14:30:25 2021
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL032521AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Mar
QLast Update : Thu Mar 25 09:42:40 2021
Response via : Initial Calibration





#1

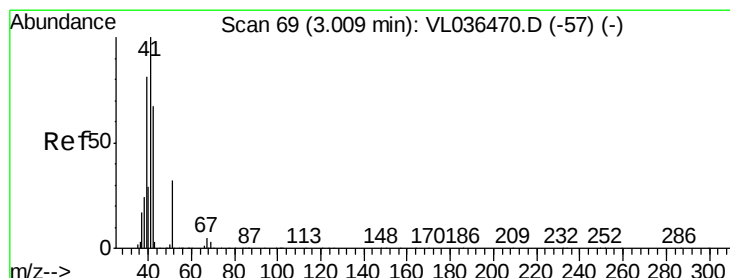
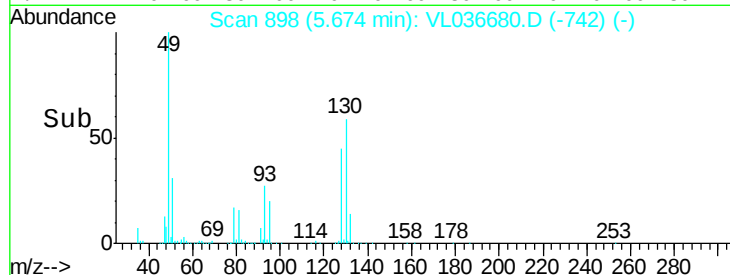
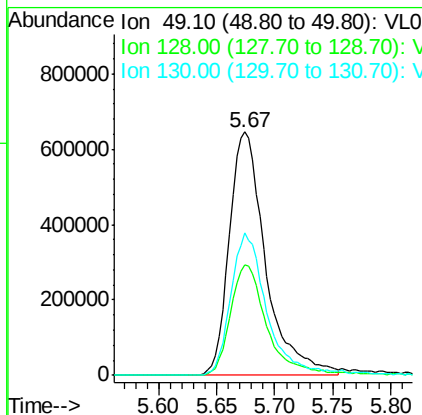
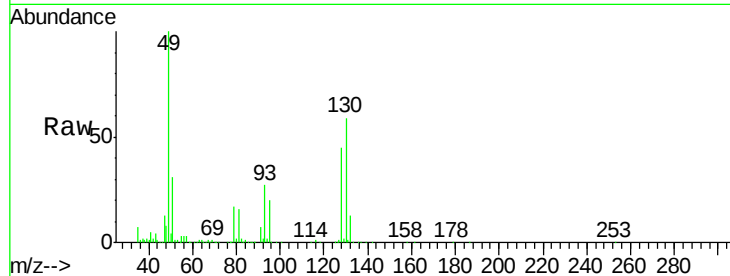
Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.67 min Scan# 898
 Delta R.T. 0.00 min
 Lab File: VL036680.D
 Acq: 5 Apr 2021 19:24

Instrument :
 MSVOA_L
 ClientSampled :
 SV2

Tot Ion: 49 Resp: 1407993
 Ion Ratio Lower Upper
 49 100
 128 46.9 23.5 70.6
 130 59.1 29.1 87.4

Manual Integrations
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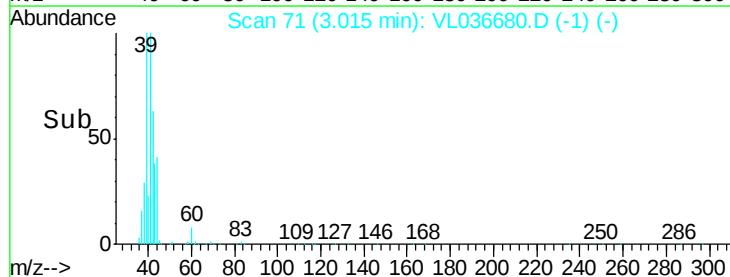
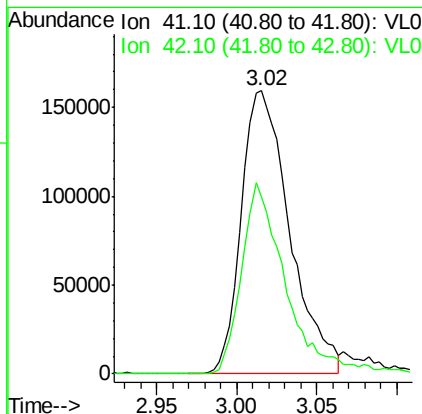
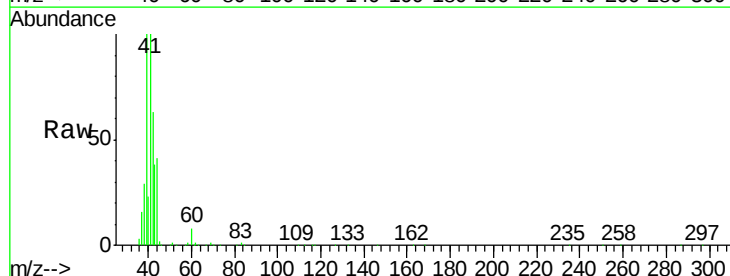
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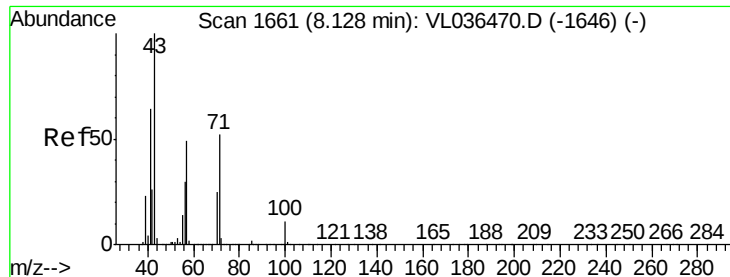


#9

Propene
 Concen: 3.927 ppbv
 RT: 3.02 min Scan# 71
 Delta R.T. 0.01 min
 Lab File: VL036680.D
 Acq: 5 Apr 2021 19:24

Tgt Ion: 41 Resp: 329323
 Ion Ratio Lower Upper
 41 100
 42 62.1 57.0 85.4





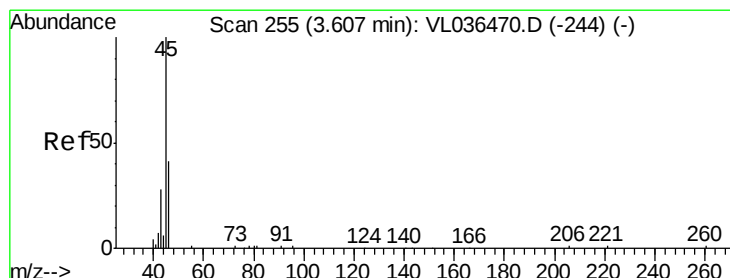
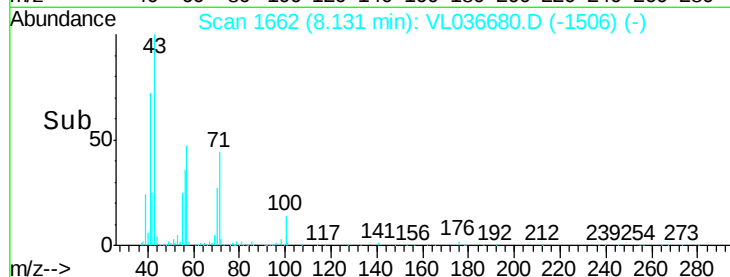
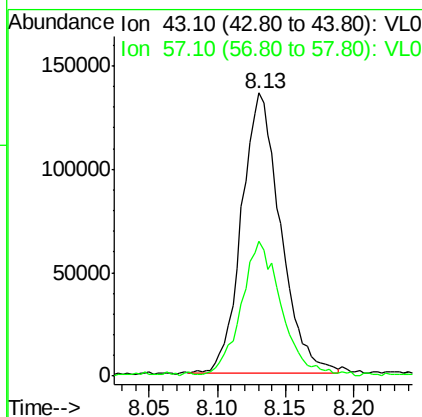
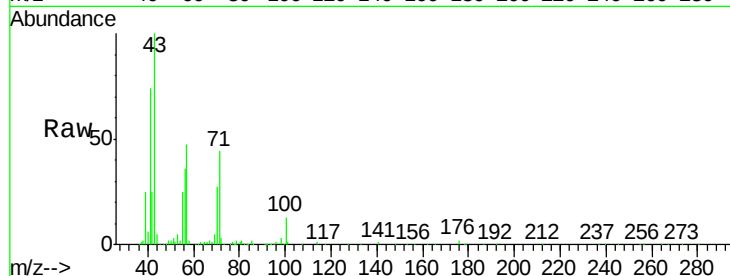
#10
Heptane
Concen: 1.250 ppbv
RT: 8.13 min Scan# 1662
Delta R.T. 0.00 min
Lab File: VL036680.D
Acq: 5 Apr 2021 19:24

Instrument :
MSVOA_L
ClientSampleId :
SV2

Tot Ion	Ratio	Lower	Upper
43	100		
57	49.4	39.0	58.6

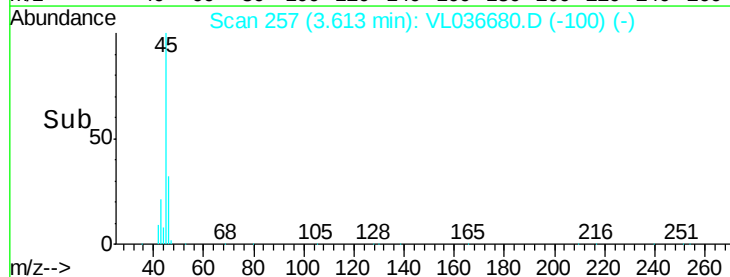
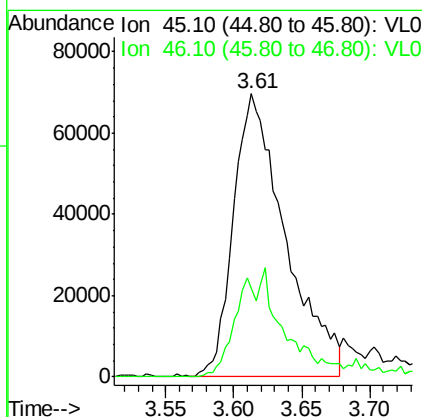
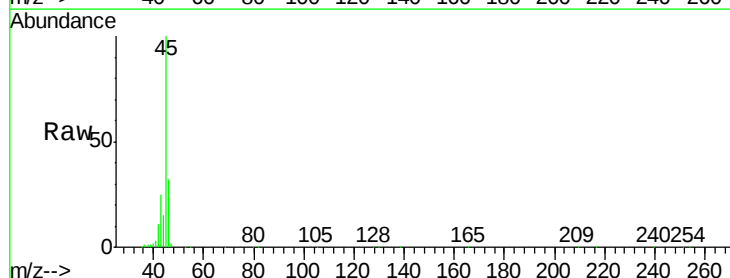
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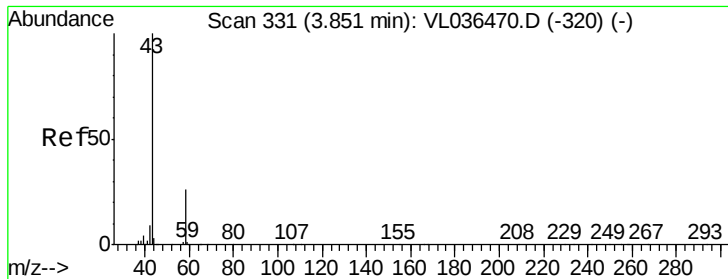
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#13
Ethanol
Concen: 18.524 ppbv m
RT: 3.61 min Scan# 257
Delta R.T. 0.01 min
Lab File: VL036680.D
Acq: 5 Apr 2021 19:24

Tgt Ion	Ratio	Lower	Upper
45	100		
46	38.6	16.6	66.2





#15

Acetone

Concen: 32.221 ppbv

RT: 3.85 min Scan# 330

Delta R.T. -0.00 min

Lab File: VL036680.D

Acq: 5 Apr 2021 19:24

Instrument :

MSVOA_L

ClientSampleId :

SV2

Tot Ion: 43 Resp: 4465131

Ion Ratio Lower Upper

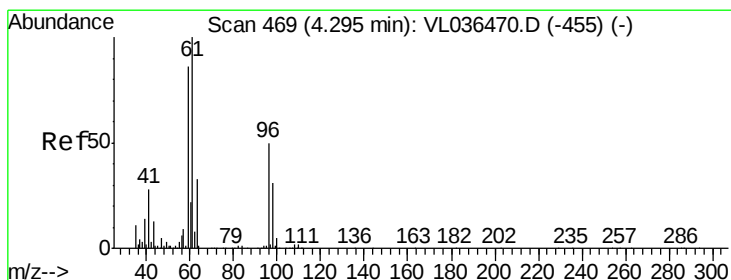
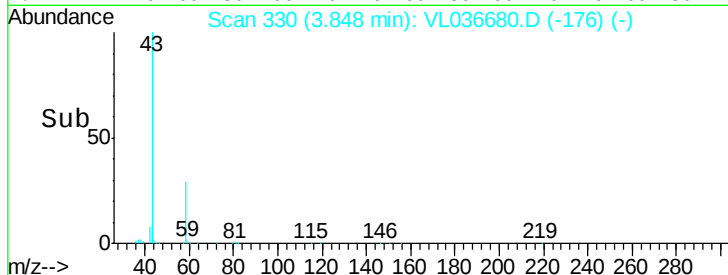
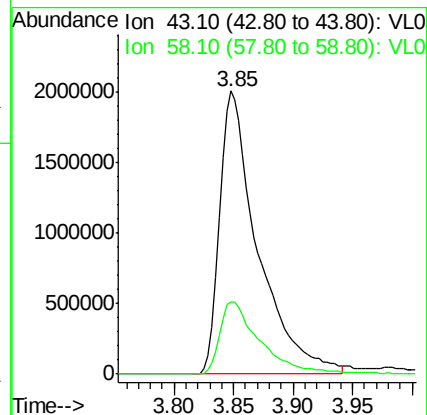
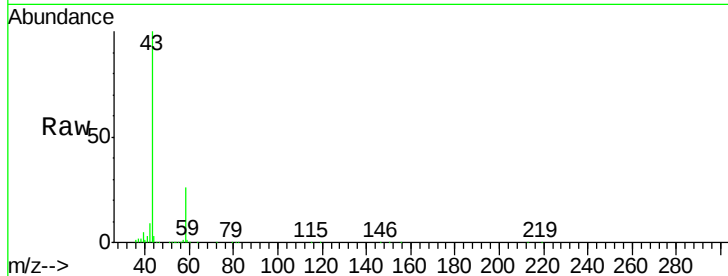
43 100

58 27.8 21.2 31.8

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#17

tert-Butyl alcohol

Concen: 0.456 ppbv m

RT: 4.32 min Scan# 476

Delta R.T. 0.02 min

Lab File: VL036680.D

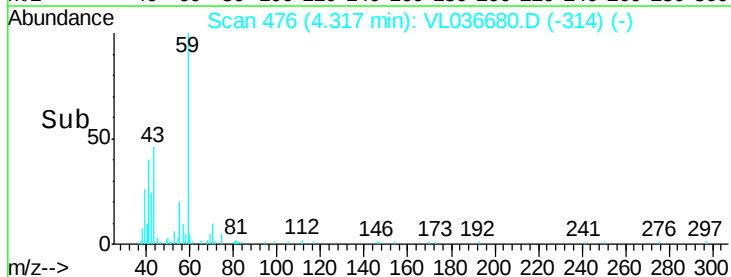
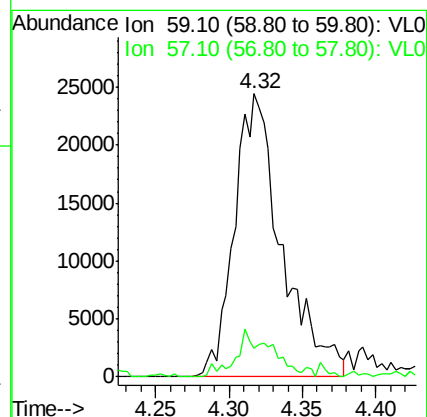
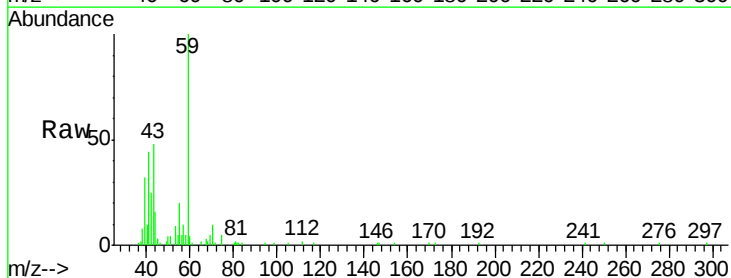
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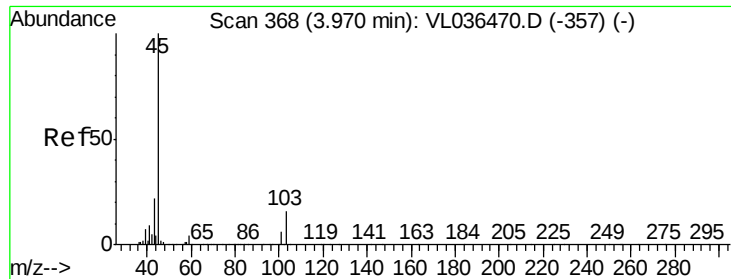
Tgt Ion: 59 Resp: 55021

Ion Ratio Lower Upper

59 100

57 0.0 8.6 12.8#





#19

Isopropyl Alcohol

Concen: 2.060 ppbv m

RT: 3.99 min Scan# 373

Delta R.T. 0.02 min

Lab File: VL036680.D

Acq: 5 Apr 2021 19:24

Instrument :

MSVOA_L

ClientSampled :

SV2

Tot Ion: 45 Resp: 157037

Ion Ratio Lower Upper

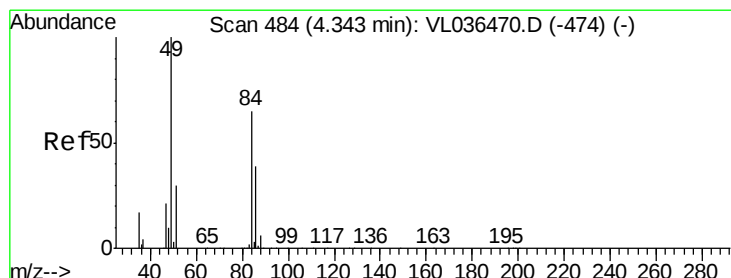
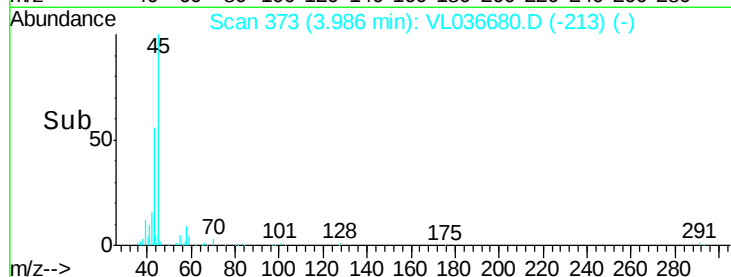
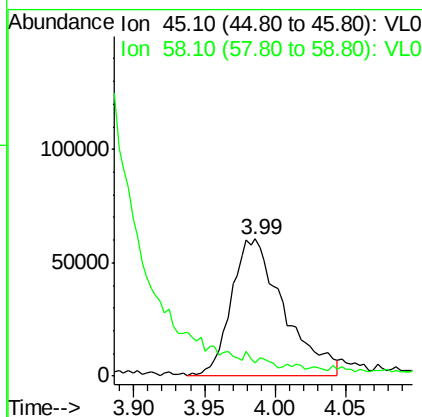
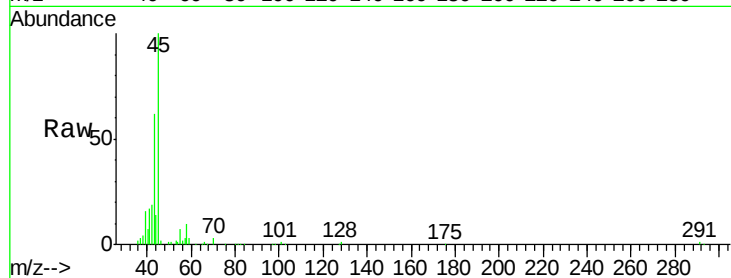
45 100

58 0.0 2.9 4.3#

Manual Integrations
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#20

Methylene Chloride

Concen: 0.635 ppbv m

RT: 4.35 min Scan# 485

Delta R.T. 0.00 min

Lab File: VL036680.D

Acq: 5 Apr 2021 19:24

Tgt Ion: 84 Resp: 41215

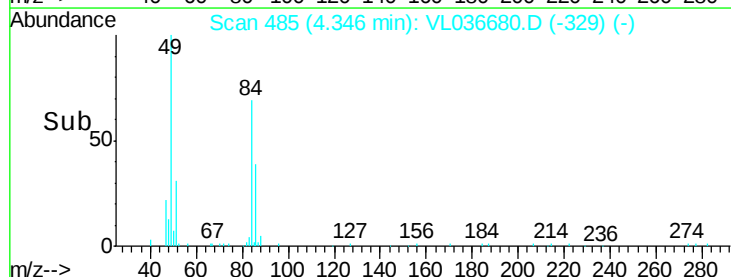
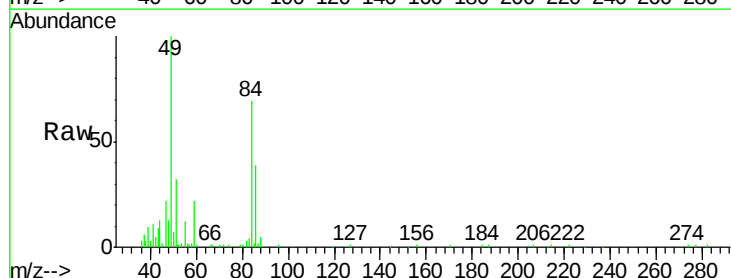
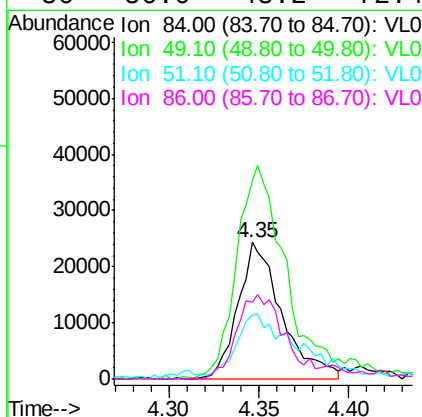
Ion Ratio Lower Upper

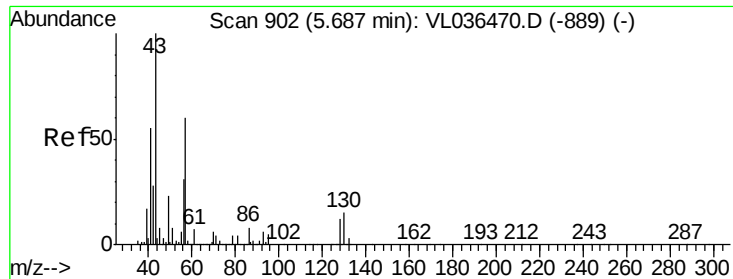
84 100

49 144.6 122.9 184.3

51 46.8 36.9 55.3

86 56.0 48.2 72.4





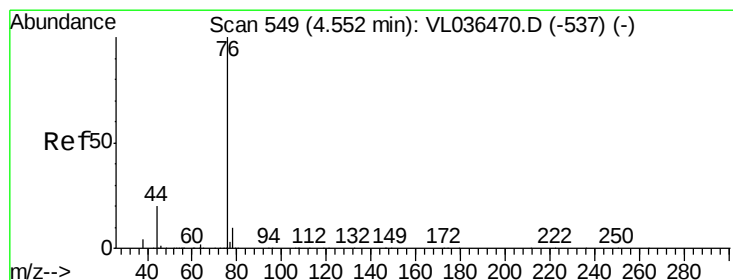
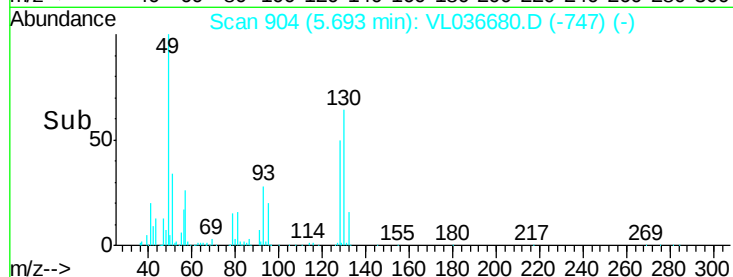
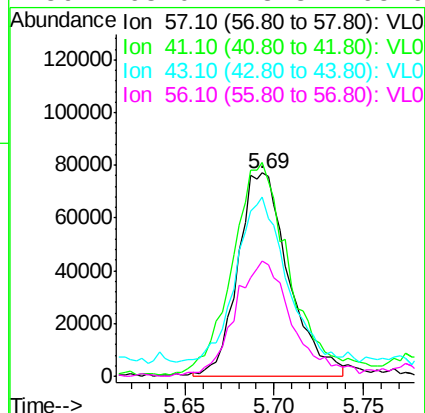
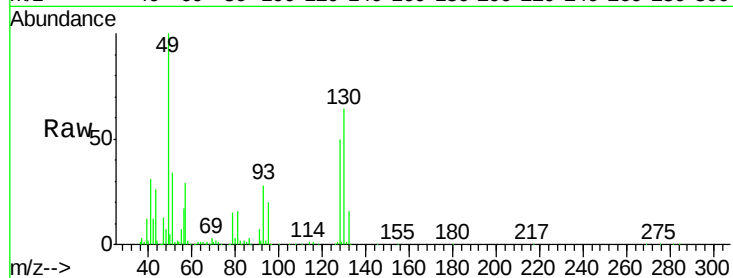
#26
Hexane
Concen: 0.997 ppbv m
RT: 5.69 min Scan# 904
Delta R.T. 0.01 min
Lab File: VL036680.D
Acq: 5 Apr 2021 19:24

Instrument :
MSVOA_L
ClientSampled :
SV2

Tot Ion	Ratio	Lower	Upper
57	100		
41	118.8	77.2	115.8#
43	0.0	173.8	260.6#
56	63.0	43.8	65.6

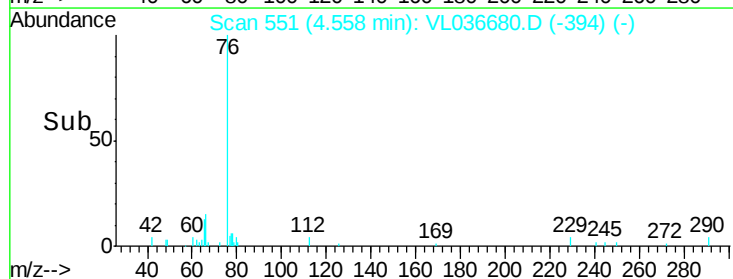
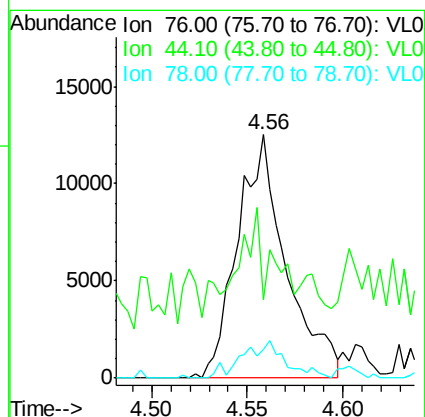
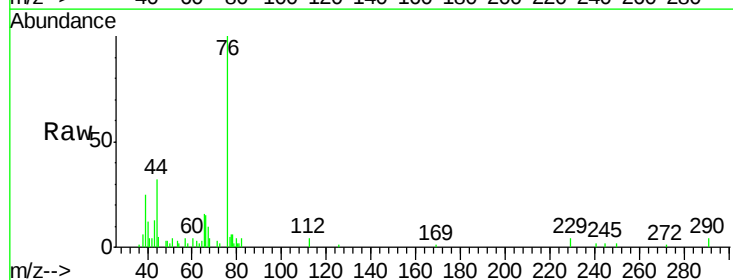
Manual Integrations
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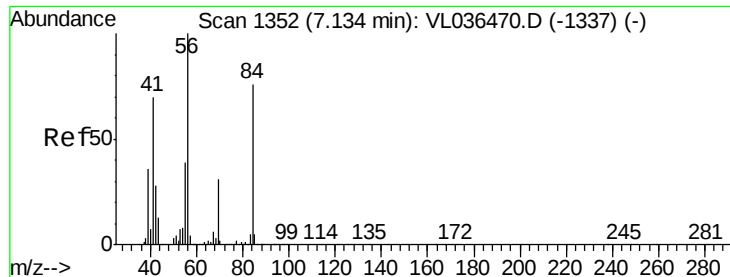
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#27
Carbon Disulfide
Concen: 0.146 ppbv m
RT: 4.56 min Scan# 551
Delta R.T. 0.01 min
Lab File: VL036680.D
Acq: 5 Apr 2021 19:24

Tgt Ion	Ratio	Lower	Upper
76	100		
44	40.6	17.5	26.3#
78	13.8	8.6	13.0#





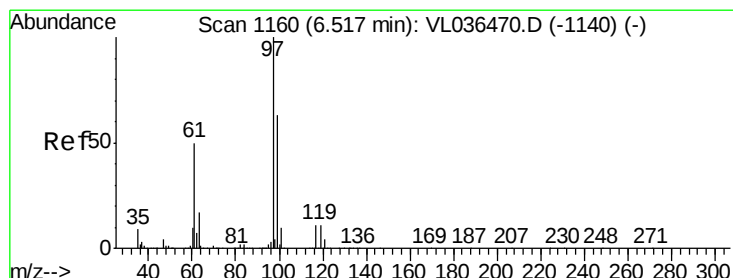
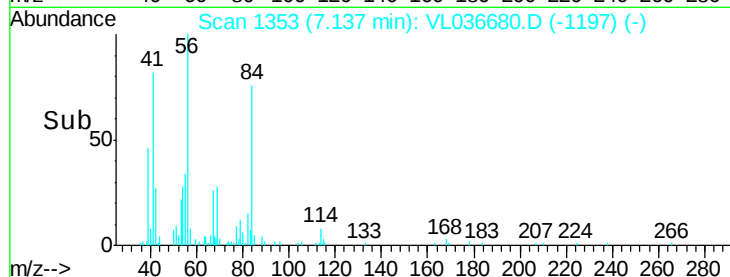
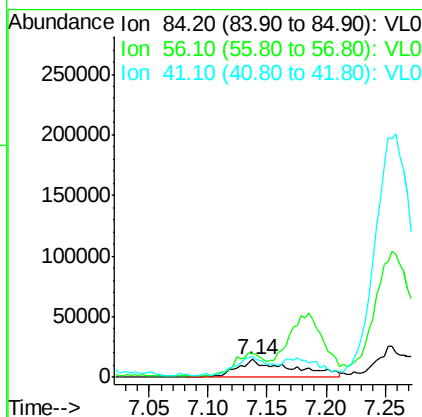
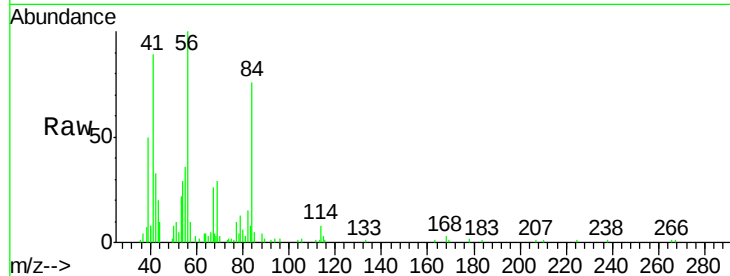
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Cvclohexane
Concen: 0.389 ppbv m
RT: 7.14 min Scan# 1353
Delta R.T. 0.00 min
Lab File: VL036680.D
Acq: 5 Apr 2021 19:24

Instrument :
MSVOA_L
ClientSampled :
SV2

Tot Ion	Ratio	Lower	Upper
84	100		
56	0.0	114.6	171.8#
41	66.9	75.3	112.9#

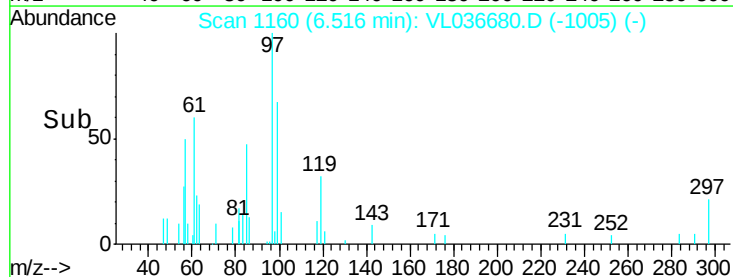
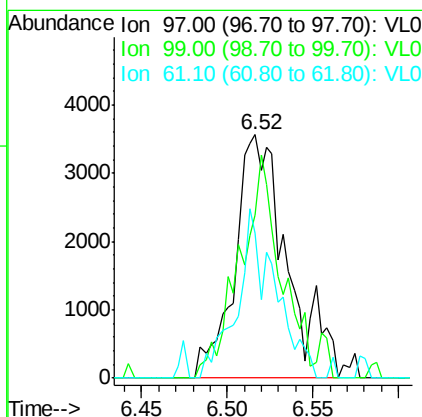
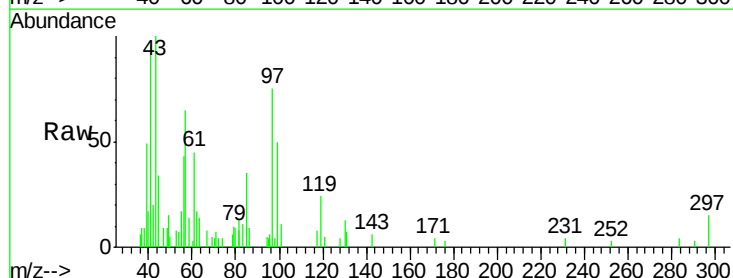
Manual Integrations
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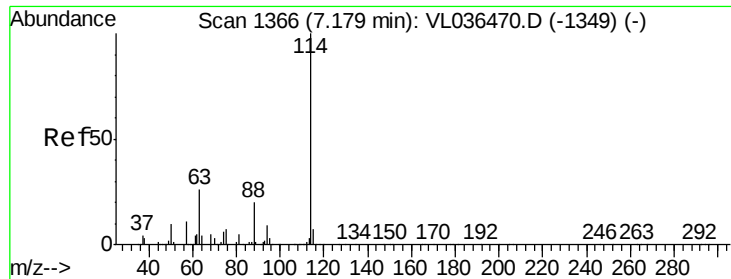
MMDadoda
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#32
1,1,1-Trichloroethane
Concen: 0.031 ppbv m
RT: 6.52 min Scan# 1160
Delta R.T. -0.00 min
Lab File: VL036680.D
Acq: 5 Apr 2021 19:24

Tgt Ion	Ratio	Lower	Upper
97	100		
99	75.9	51.4	77.0
61	0.0	40.6	60.8#





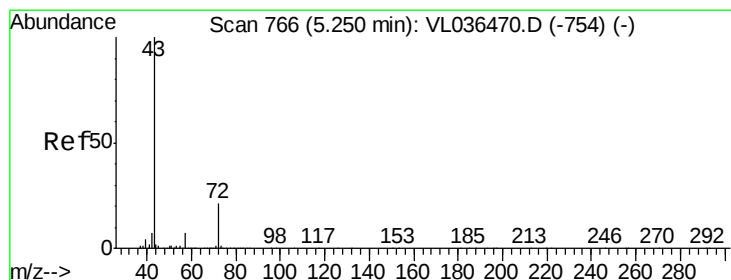
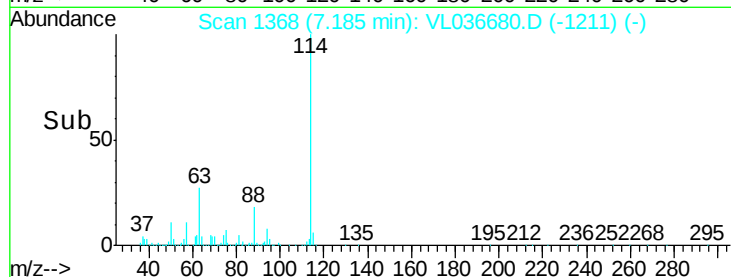
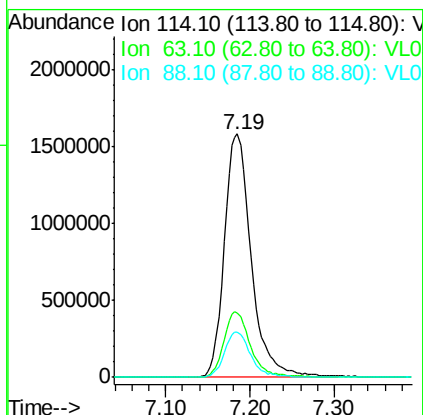
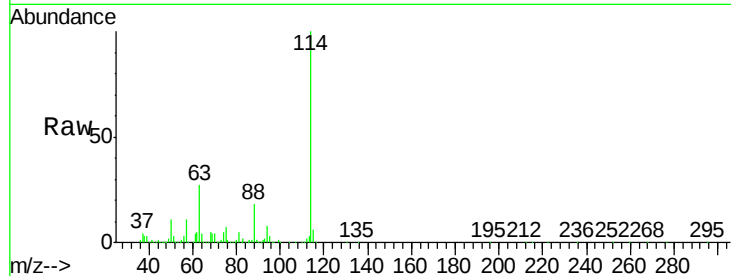
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 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.19 min Scan# 1368
 Delta R.T. 0.01 min
 Lab File: VL036680.D
 Acq: 5 Apr 2021 19:24

Instrument :
 MSVOA_L
 ClientSampleId :
 SV2

Tot Ion	Ratio	Lower	Upper
114	100		
63	26.7	22.4	33.6
88	18.5	15.4	23.0

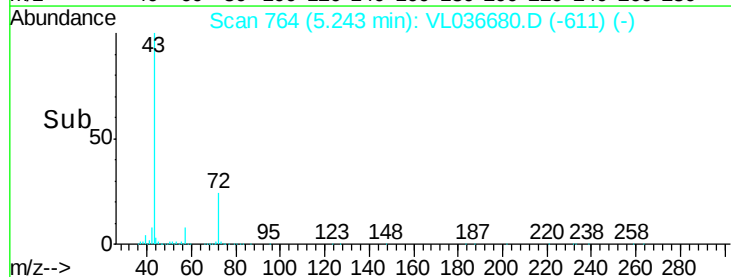
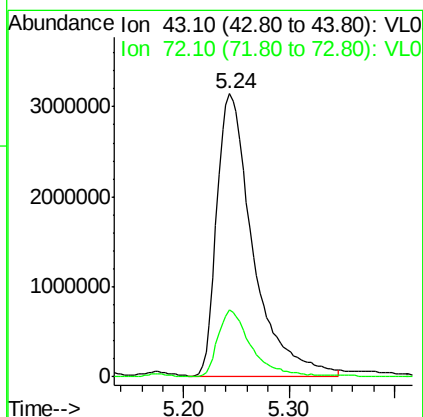
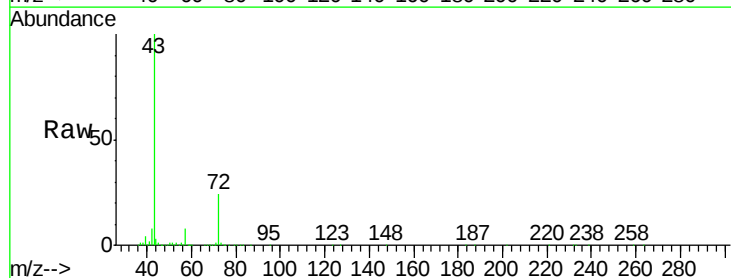
Manual Integrations
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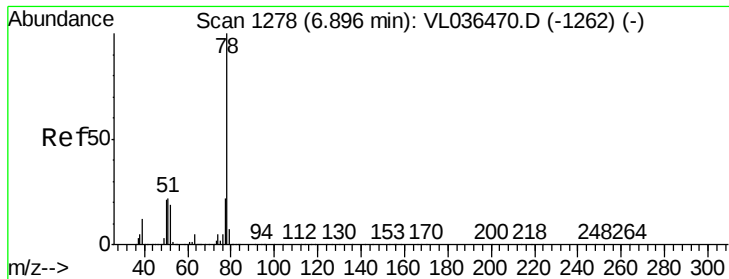
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 4/6/2021 5:13:57 PM



#34
 2-Butanone
 Concen: 43.422 ppbv
 RT: 5.24 min Scan# 764
 Delta R.T. -0.01 min
 Lab File: VL036680.D
 Acq: 5 Apr 2021 19:24

Tgt Ion	Ratio	Lower	Upper
43	100		
72	22.5	17.0	25.6





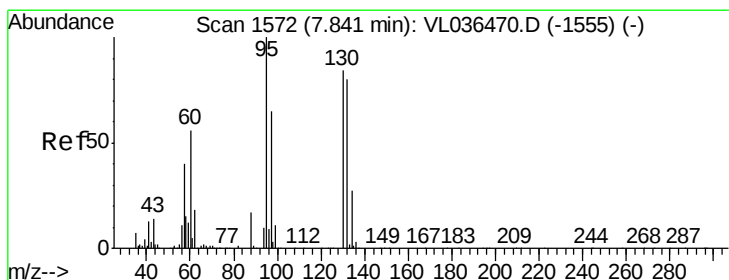
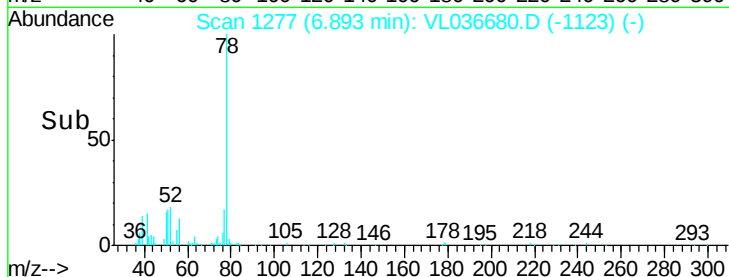
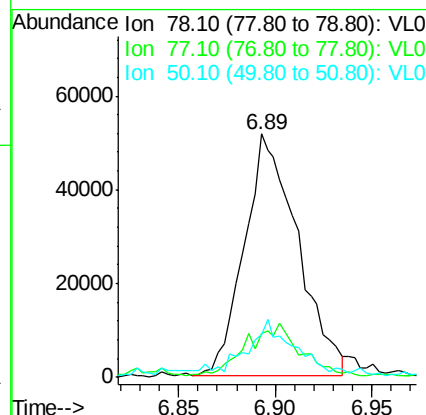
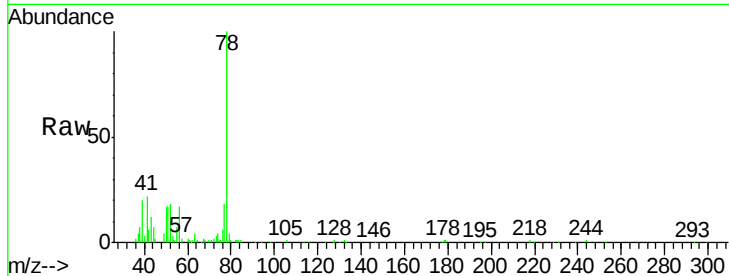
#36
Benzene
Concen: 0.307 ppbv
RT: 6.89 min Scan# 1277
Delta R.T. -0.00 min
Lab File: VL036680.D
Acq: 5 Apr 2021 19:24

Instrument :
MSVOA_L
ClientSampleId :
SV2

Tot Ion	78	Resp	99461
Ion Ratio	Lower	Upper	
78	100		
77	16.7	18.0	27.0#
50	14.6	16.5	24.7#

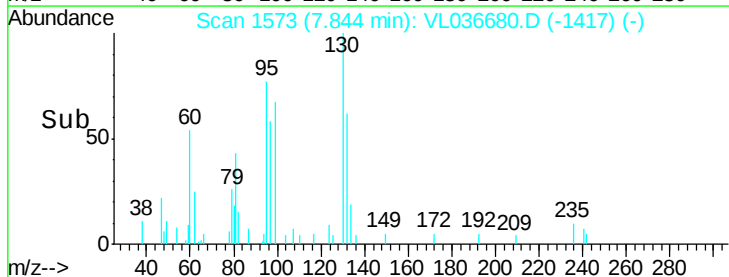
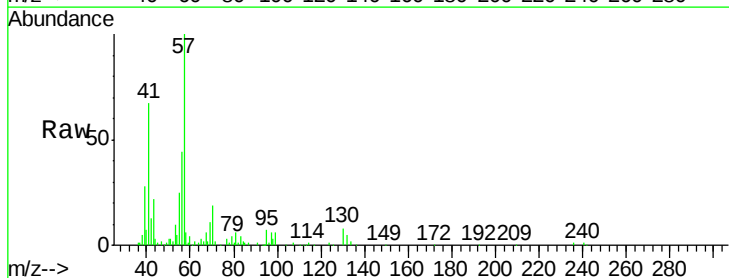
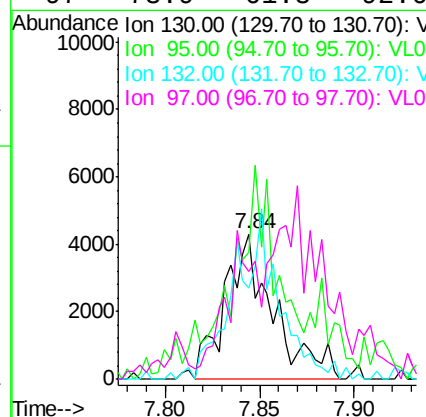
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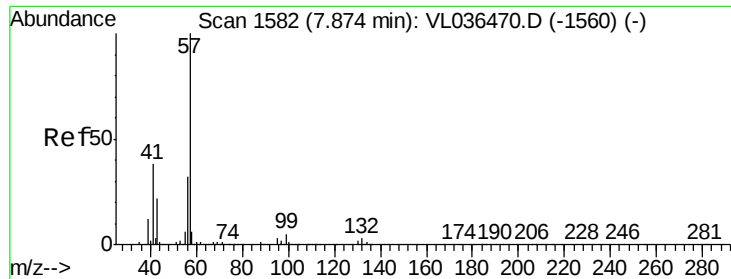
MMDadoda
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#38
Trichloroethene
Concen: 0.060 ppbv m
RT: 7.84 min Scan# 1573
Delta R.T. 0.00 min
Lab File: VL036680.D
Acq: 5 Apr 2021 19:24

Tgt Ion	130	Resp	7619
Ion Ratio	Lower	Upper	
130	100		
95	87.6	95.7	143.5#
132	62.2	76.2	114.4#
97	73.9	61.8	92.6





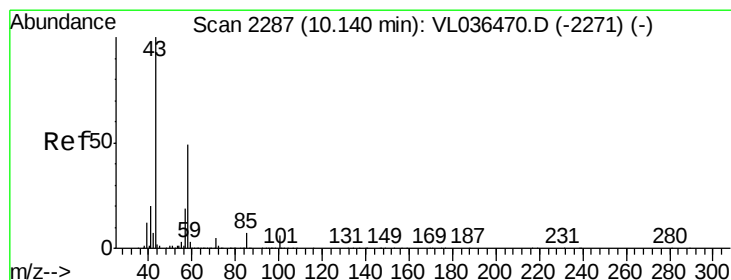
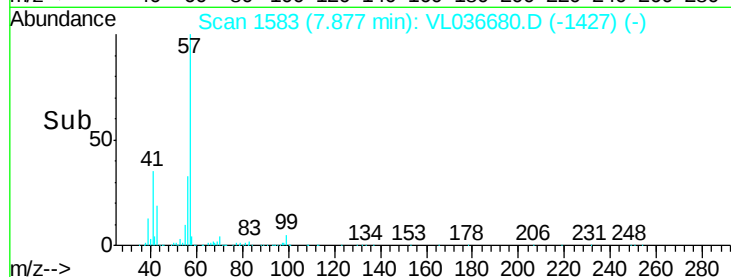
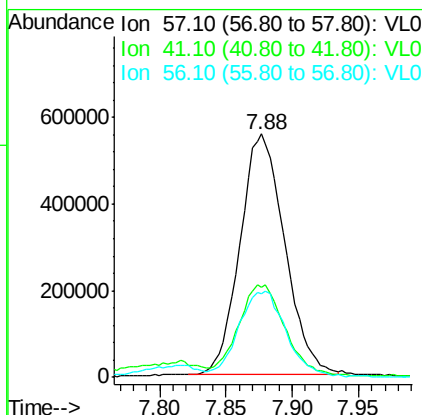
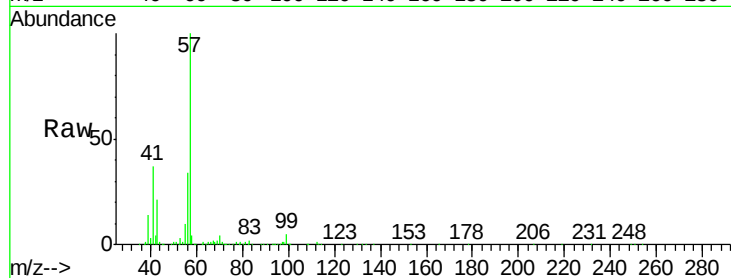
#44
 2,2,4-Trimethylpentane
 Concen: 2.293 ppbv
 RT: 7.88 min Scan# 1583
 Delta R.T. 0.00 min
 Lab File: VL036680.D
 Acq: 5 Apr 2021 19:24

Instrument :
 MSVOA_L
 ClientSampleId :
 SV2

Tot Ion	Ratio	Lower	Upper
57	100		
41	41.8	28.8	43.2
56	37.8	26.1	39.1

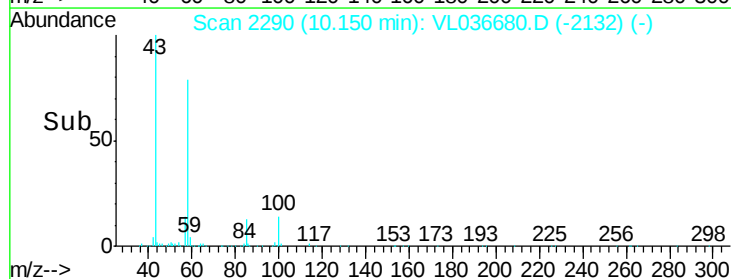
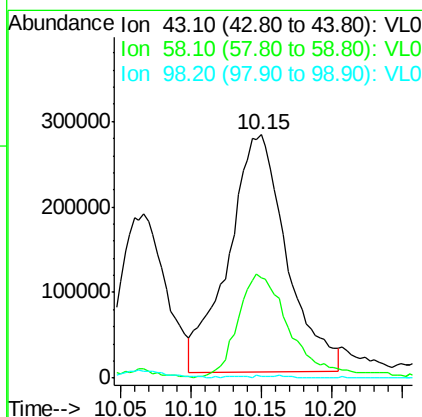
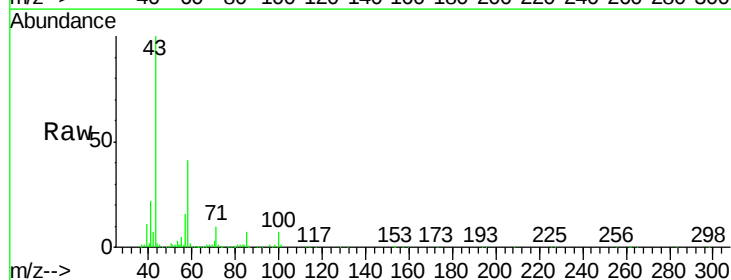
Manual Integrations
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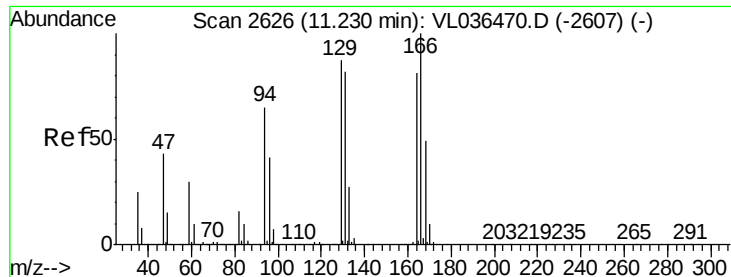
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#51
 2-Hexanone
 Concen: 6.429 ppbv
 RT: 10.15 min Scan# 2290
 Delta R.T. 0.01 min
 Lab File: VL036680.D
 Acq: 5 Apr 2021 19:24

Tgt Ion	Ratio	Lower	Upper
43	100		
58	40.3	37.7	56.5
98	0.7	0.2	0.2#





#52

Tetrachloroethene

Concen: 15.960 ppbv

RT: 11.23 min Scan# 2627

Delta R.T. 0.00 min

Lab File: VL036680.D

Acq: 5 Apr 2021 19:24

Instrument :

MSVOA_L

ClientSampled :

SV2

Tot Ion:164 Resp: 1904170

Ion Ratio Lower Upper

164 100

166 129.7 98.3 147.5

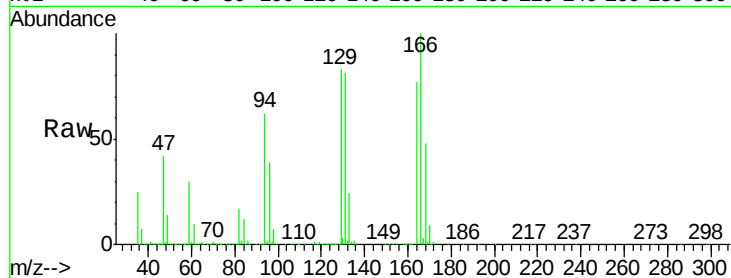
129 108.2 85.8 128.8

131 104.3 80.9 121.3

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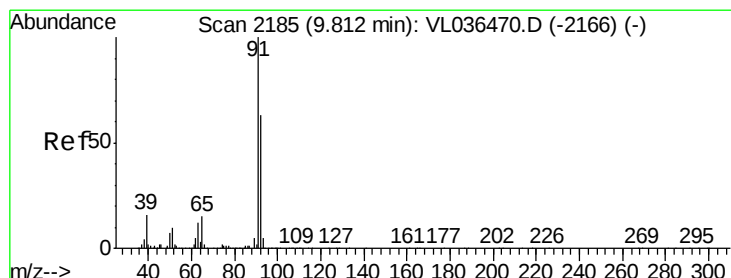
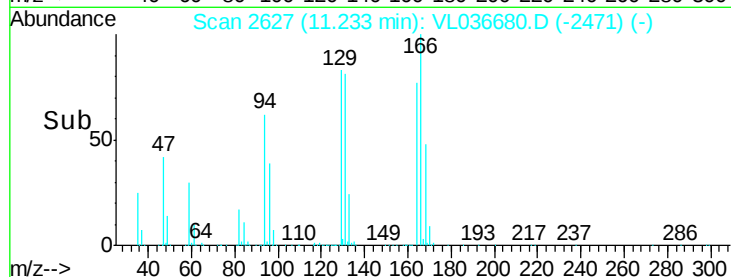
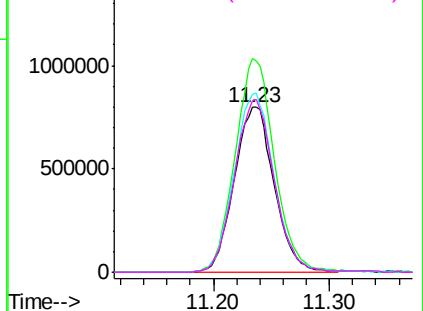


Abundance Ion 163.90 (163.60 to 164.60): V

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: 2.413 ppbv

RT: 9.82 min Scan# 2186

Delta R.T. 0.00 min

Lab File: VL036680.D

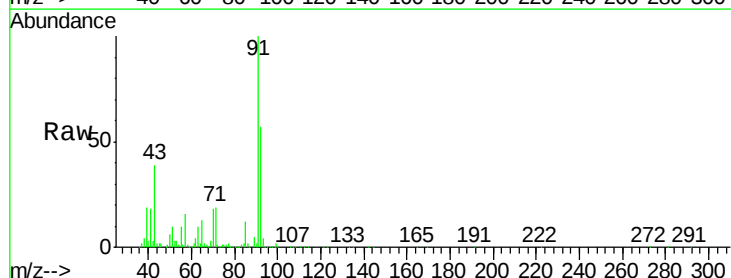
Acq: 5 Apr 2021 19:24

Tgt Ion: 91 Resp: 832702

Ion Ratio Lower Upper

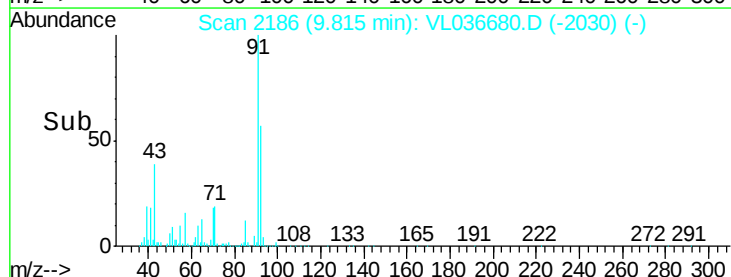
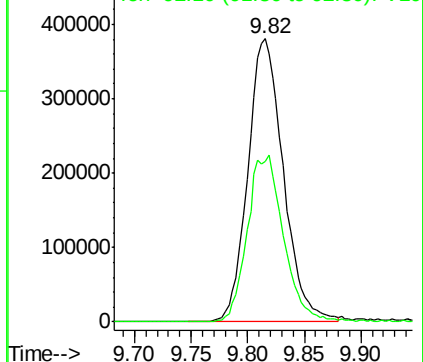
91 100

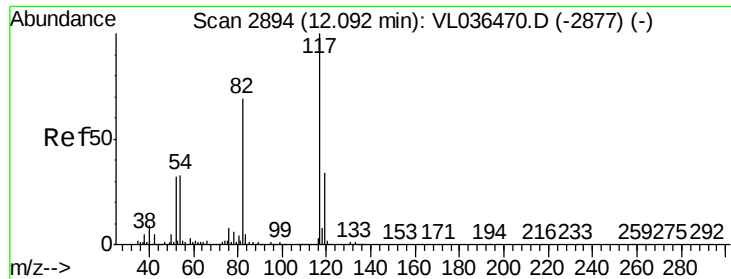
92 60.7 48.8 73.2



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0





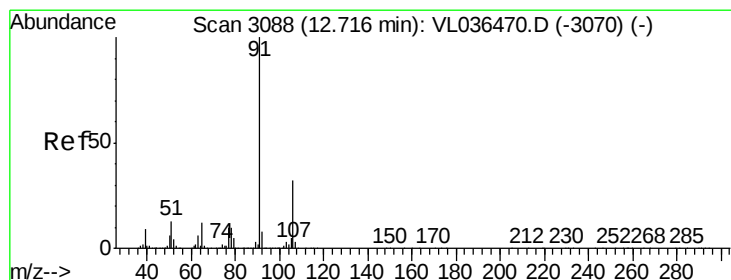
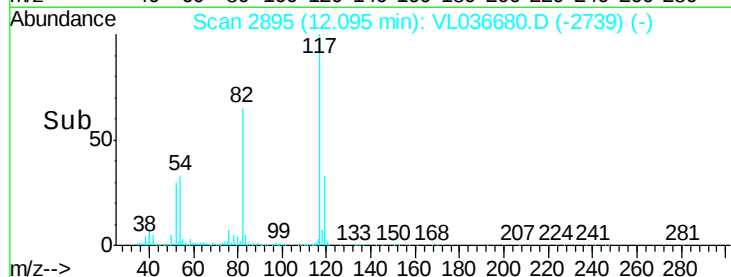
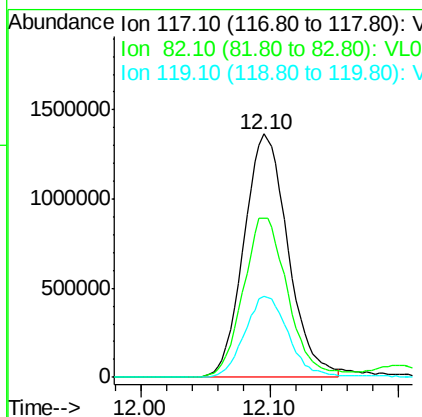
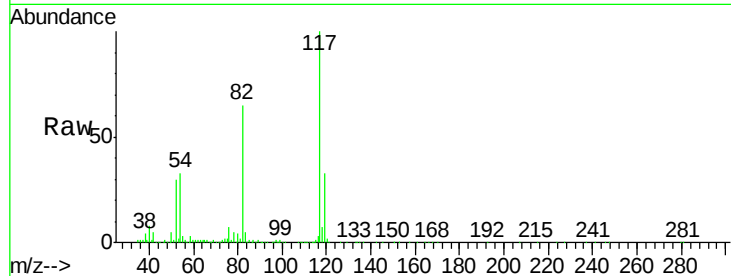
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.10 min Scan# 2895
Delta R.T. 0.00 min
Lab File: VL036680.D
Acq: 5 Apr 2021 19:24

Instrument :
MSVOA_L
ClientSampled :
SV2

Tot Ion	Ratio	Lower	Upper
117	100		
82	67.1	57.4	86.0
119	34.1	47.4	71.0

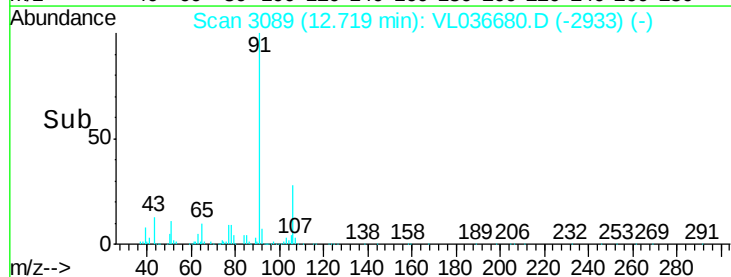
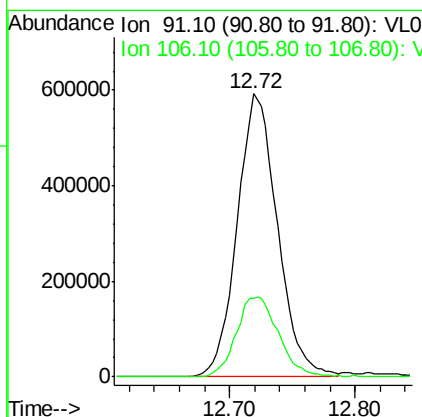
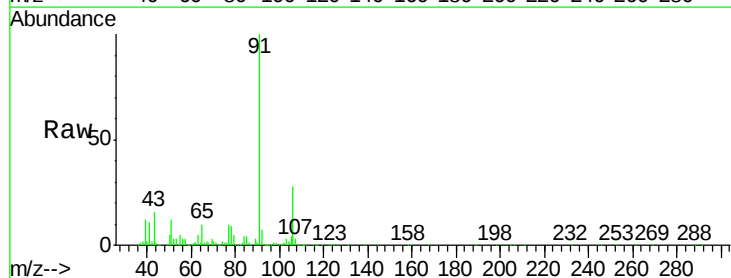
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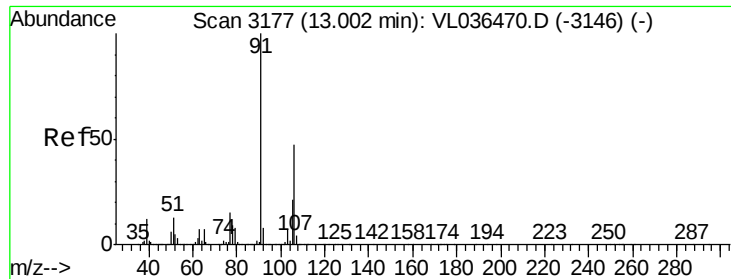
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#58
Ethyl Benzene
Concen: 2.782 ppbv
RT: 12.72 min Scan# 3089
Delta R.T. 0.00 min
Lab File: VL036680.D
Acq: 5 Apr 2021 19:24

Tgt Ion	Ratio	Lower	Upper
91	100		
106	27.7	25.3	37.9





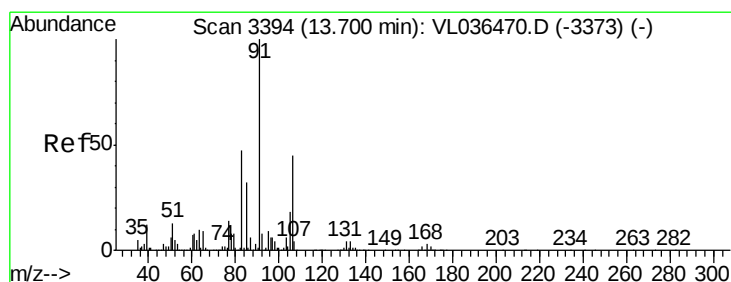
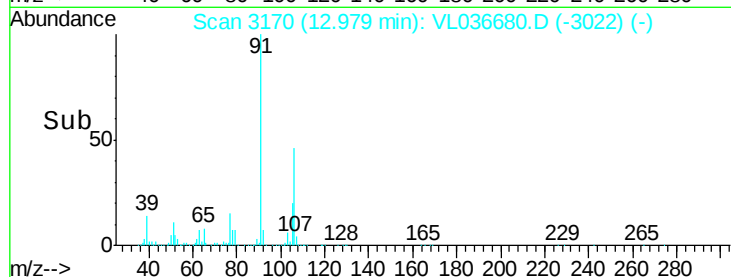
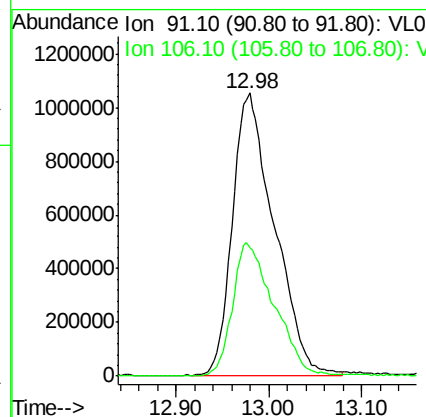
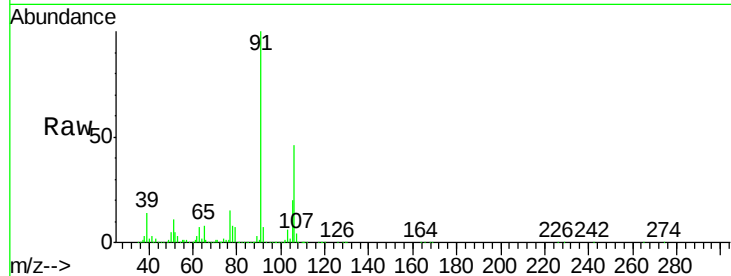
#59
m/p-Xylene
Concen: 7.942 ppbv
RT: 12.98 min Scan# 3170
Delta R.T. -0.02 min
Lab File: VL036680.D
Acq: 5 Apr 2021 19:24

Instrument :
MSVOA_L
ClientSampleId :
SV2

Tot Ion: 91 Resp: 3276425
Ion Ratio Lower Upper
91 100
106 47.3 35.3 52.9

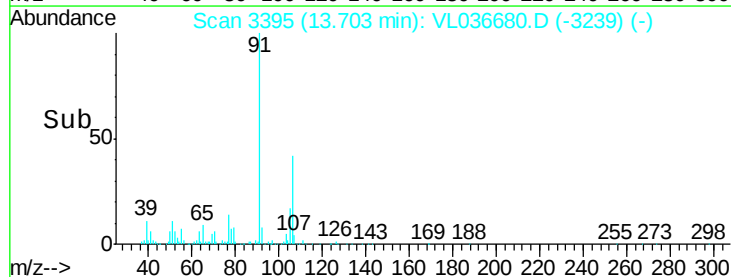
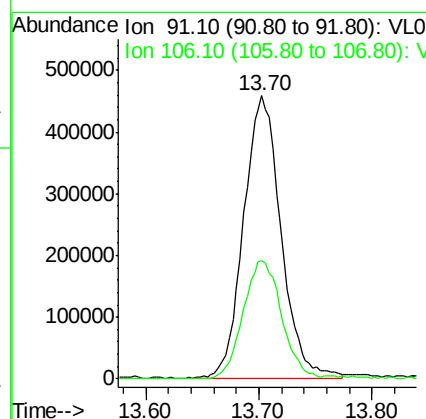
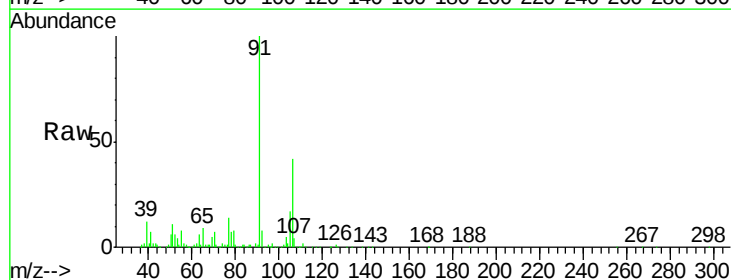
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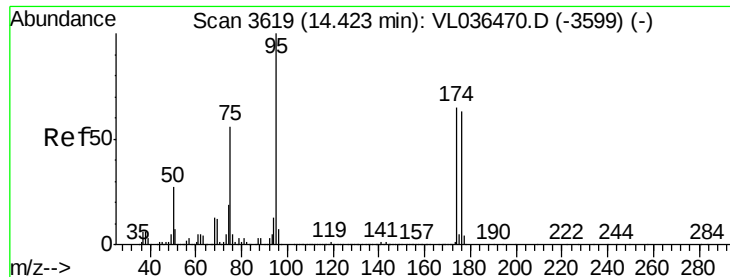
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#60
o-Xylene
Concen: 2.620 ppbv
RT: 13.70 min Scan# 3395
Delta R.T. 0.00 min
Lab File: VL036680.D
Acq: 5 Apr 2021 19:24

Tgt Ion: 91 Resp: 1045006
Ion Ratio Lower Upper
91 100
106 43.1 22.3 66.9





#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.021 ppbv
 RT: 14.43 min Scan# 3620
 Delta R.T. 0.00 min
 Lab File: VL036680.D
 Acq: 5 Apr 2021 19:24

Instrument :
 MSVOA_L
 ClientSampleId :
 SV2

Tot Ion	Ratio	Lower	Upper
95	100		
174	66.3	51.0	76.6
175	4.9	3.9	5.9

Manual Integrations
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