

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL051220\
 Data File : VL035004.D
 Acq On : 13 May 2020 2:07
 Operator : SY/AP
 Sample : L2566-02DL 40X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SG-4DL

Manual Integrations
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MMDadoda
 5/18/2020 2:08:39 PM

Quant Time: May 18 11:12:50 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL050620AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed May 0
 QLast Update : Wed May 06 14:49:39 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1019854	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.19	114	2413586	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.20	117	2223924	10.00	ppbv	0.08

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1-Bromo-4-Fluorobenzene	14.49	95	1709769	9.50	ppbv	0.03	
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.00%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
9) Propene	2.97	41	56373m	1.116	ppbv	
13) Ethanol	3.57	45	53016	3.180	ppbv	97
15) Acetone	3.83	43	63063m	0.468	ppbv	
18) 1,1-Dichloroethene	4.25	96	138718	3.009	ppbv	97
19) Isopropyl Alcohol	3.94	45	85067m	0.946	ppbv	
22) trans-1,2-Dichloroethene	4.85	96	55011	1.205	ppbv	99
29) Chloroform	5.73	83	644120	4.009	ppbv	99
31) cis-1,2-Dichloroethene	5.53	61	2048161	21.380	ppbv	97
36) Benzene	6.90	78	156023m	0.784	ppbv	
38) Trichloroethene	7.90	130	31841684	413.044	ppbv #	86
47) 1,1,2-Trichloroethane	9.50	97	63797m	0.758	ppbv	
52) Tetrachloroethene	11.43	164	92978759m	1314.052	ppbv	
53) Toluene	9.83	91	273191m	1.295	ppbv	
59) m/p-Xylene	13.06	91	74645m	0.309	ppbv	
62) Isopropylbenzene	14.74	105	88978m	0.250	ppbv	

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

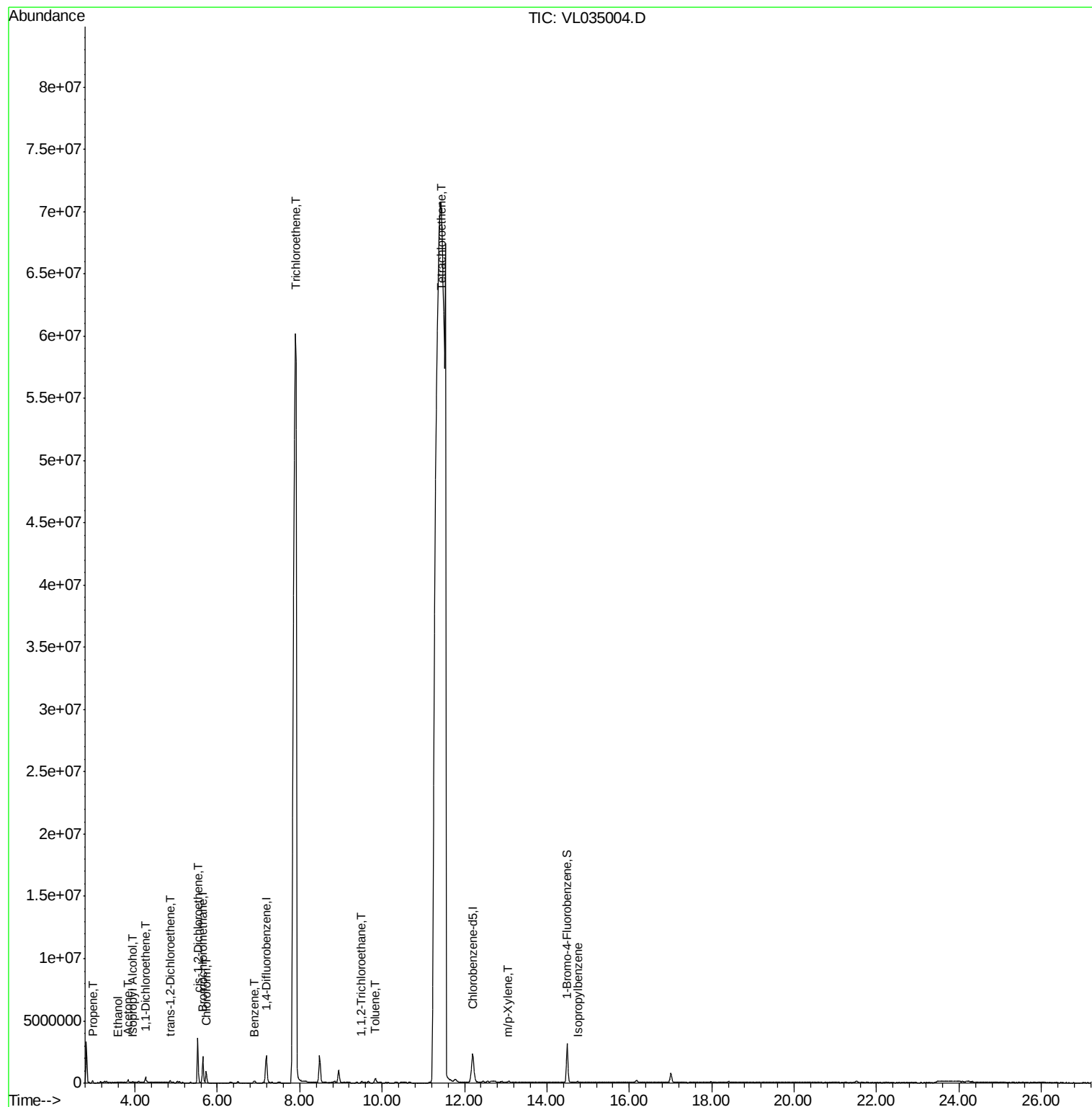
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL051220\
Data File : VL035004.D
Acq On : 13 May 2020 2:07
Operator : SY/AP
Sample : L2566-02DL 40X
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

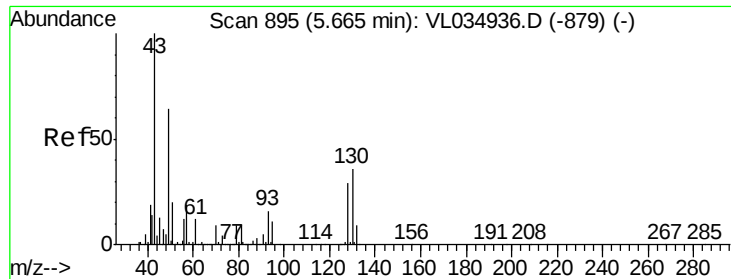
Instrument :
MSVOA_L
ClientSampleId :
SG-4DL

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5/18/2020 2:08:39 PM

Quant Time: May 18 11:12:50 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL050620AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed May
QLast Update : Wed May 06 14:49:39 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 889

Delta R.T. -0.02 min

Lab File: VL035004.D

Acq: 13 May 2020 2:07

Instrument :

MSVOA_L

ClientSampled :

SG-4DL

Tot Ion: 49 Resp: 1019854

Ion Ratio Lower Upper

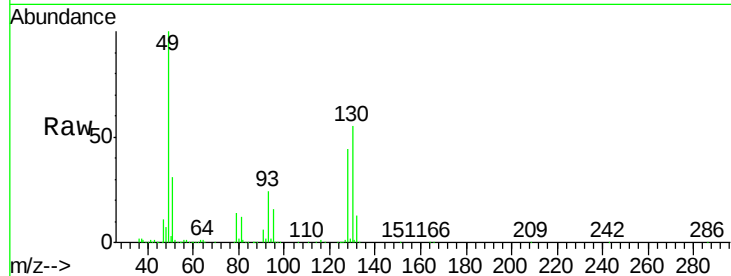
49 100

128 44.6 22.1 66.5

130 57.2 29.1 87.3

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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

800000

600000

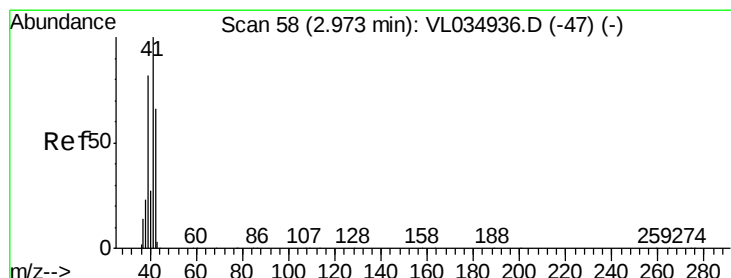
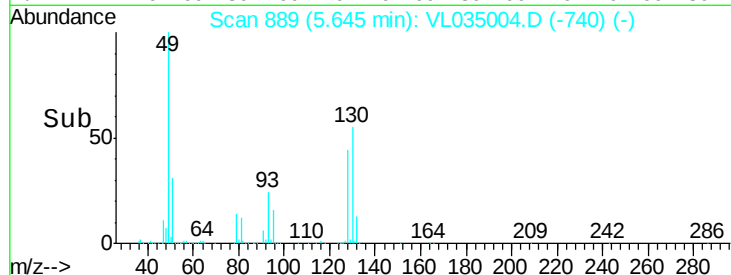
400000

200000

0

5.55 5.60 5.65 5.70

Time-->



#9

Propene

Concen: 1.116 ppbv m

RT: 2.97 min Scan# 58

Delta R.T. -0.00 min

Lab File: VL035004.D

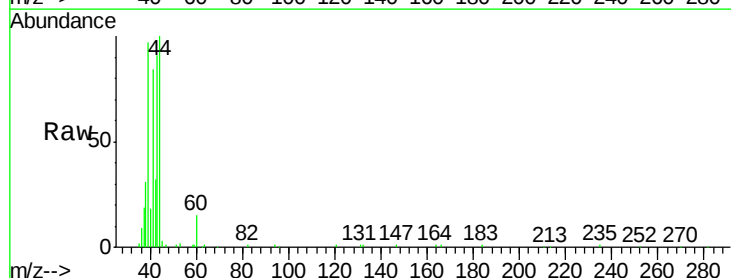
Acq: 13 May 2020 2:07

Tgt Ion: 41 Resp: 56373

Ion Ratio Lower Upper

41 100

42 28.4 54.5 81.7#



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

40000

30000

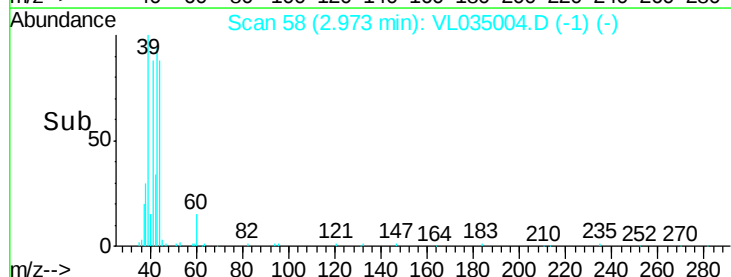
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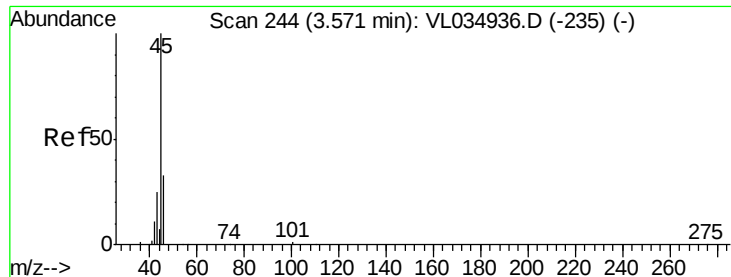
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0

2.95 2.97 3.00

Time-->





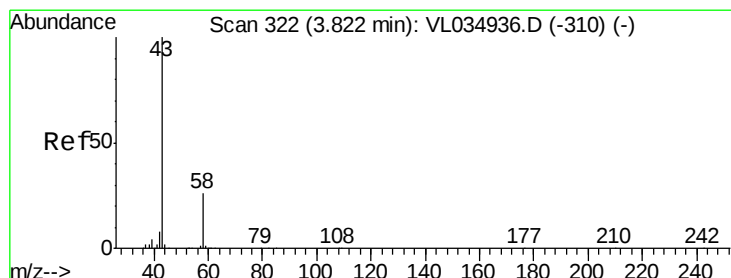
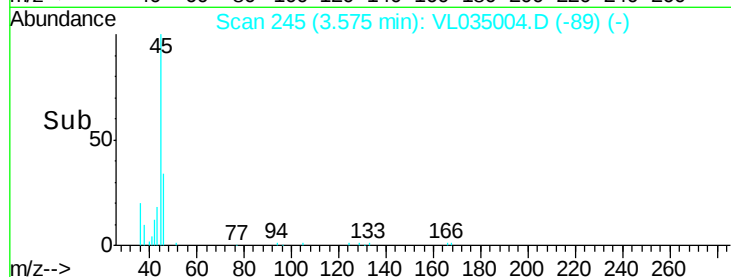
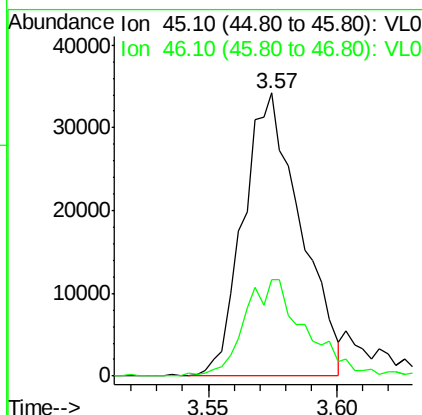
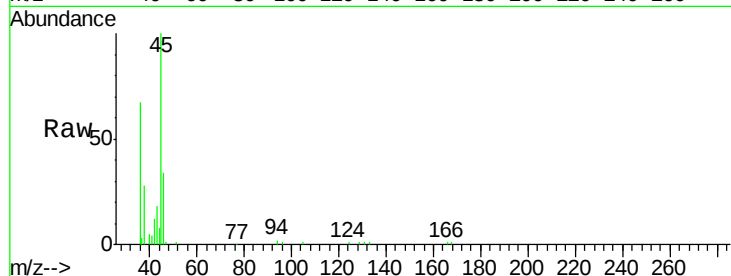
#13
Ethanol
Concen: 3.180 ppbv
RT: 3.57 min Scan# 245
Delta R.T. 0.00 min
Lab File: VL035004.D
Acq: 13 May 2020 2:07

Instrument :
MSVOA_L
ClientSampleId :
SG-4DL

Tot Ion	45	Resp	53016
Ion Ratio	100	Lower	Upper
46	37.7	14.3	57.3

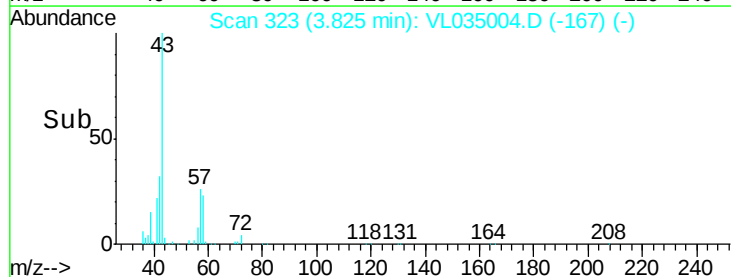
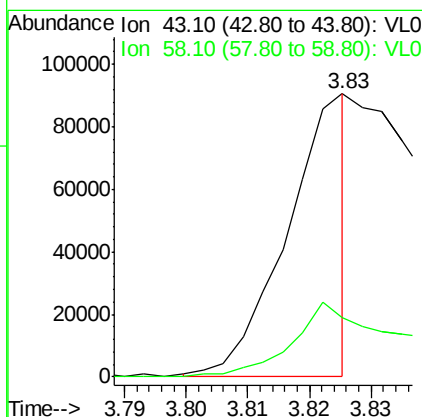
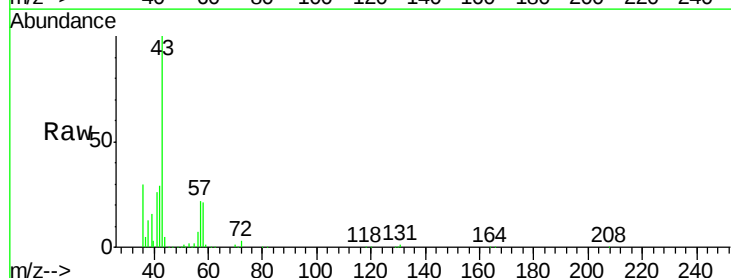
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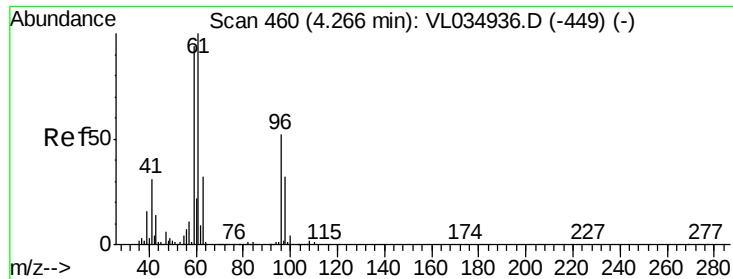
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#15
Acetone
Concen: 0.468 ppbv m
RT: 3.83 min Scan# 323
Delta R.T. 0.00 min
Lab File: VL035004.D
Acq: 13 May 2020 2:07

Tgt Ion	43	Resp	63063
Ion Ratio	100	Lower	Upper
58	51.1	21.7	32.5#





#18

1,1-Dichloroethene

Concen: 3.009 ppbv

RT: 4.25 min Scan# 456

Delta R.T. -0.01 min

Lab File: VL035004.D

Acq: 13 May 2020 2:07

Instrument :

MSVOA_L

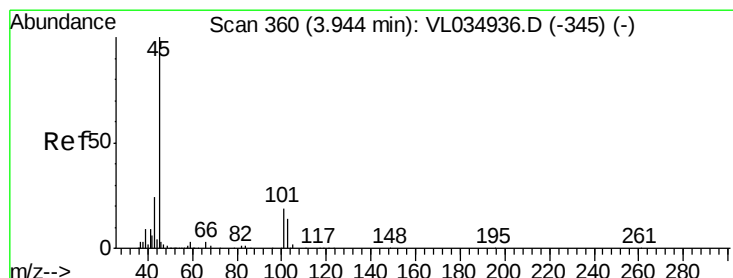
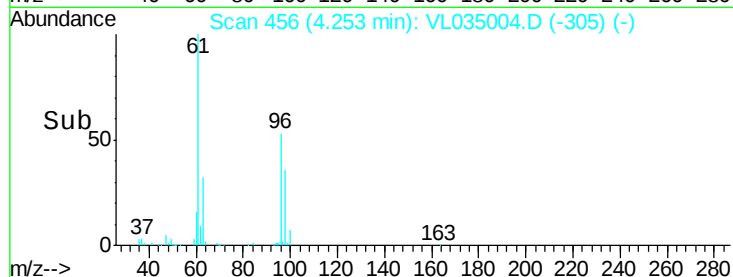
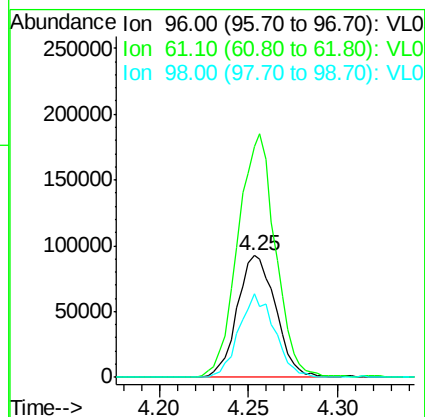
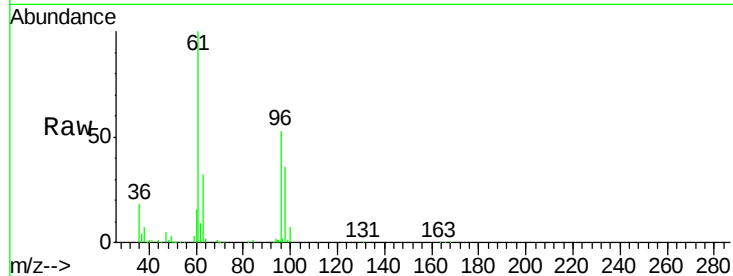
ClientSampled :

SG-4DL

Tot Ion:	96	Resp:	138718
Ion Ratio	Lower	Upper	
96	100		
61	189.3	152.4	228.6
98	68.2	48.8	73.2

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#19

Isopropyl Alcohol

Concen: 0.946 ppbv m

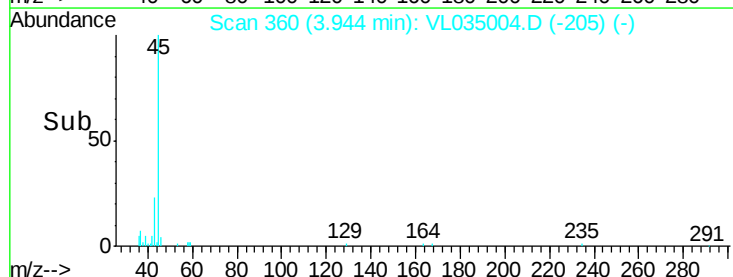
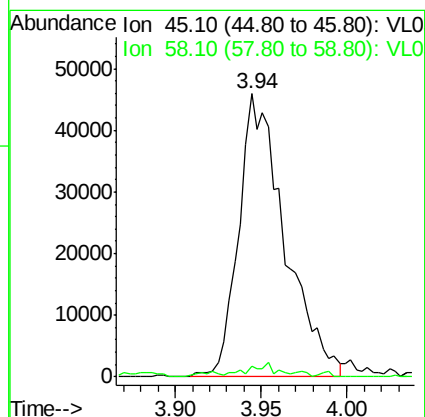
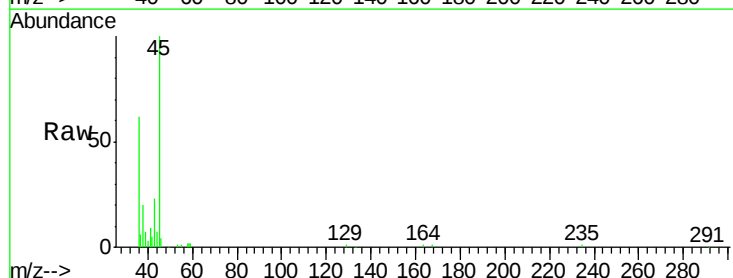
RT: 3.94 min Scan# 360

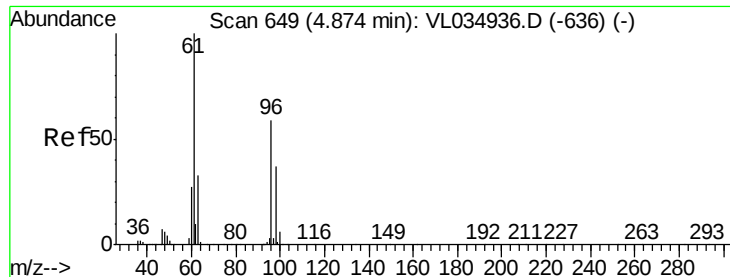
Delta R.T. -0.00 min

Lab File: VL035004.D

Acq: 13 May 2020 2:07

Tgt Ion:	45	Resp:	85067
Ion Ratio	Lower	Upper	
45	100		
58	4.7	1.7	2.5#





#22

trans-1,2-Dichloroethene

Concen: 1.205 ppbv

RT: 4.85 min Scan# 643

Delta R.T. -0.02 min

Lab File: VL035004.D

Acq: 13 May 2020 2:07

Instrument :

MSVOA_L

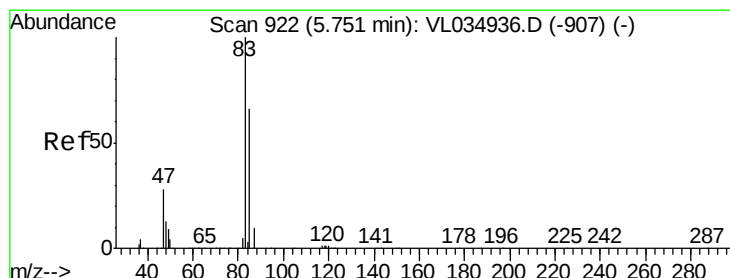
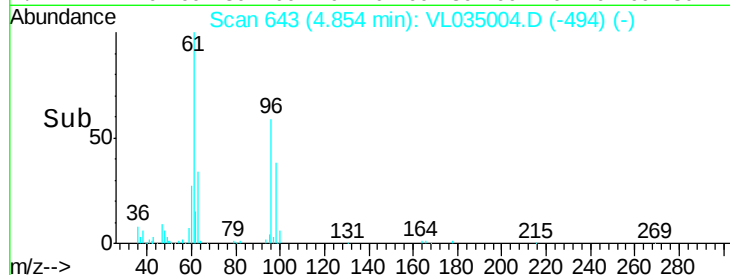
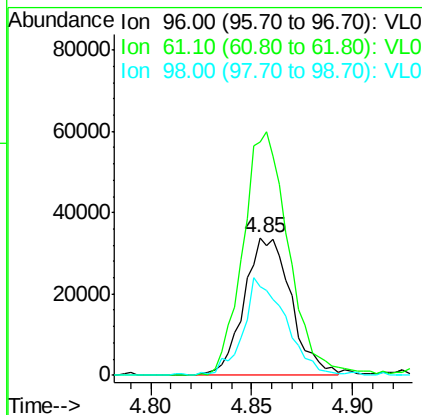
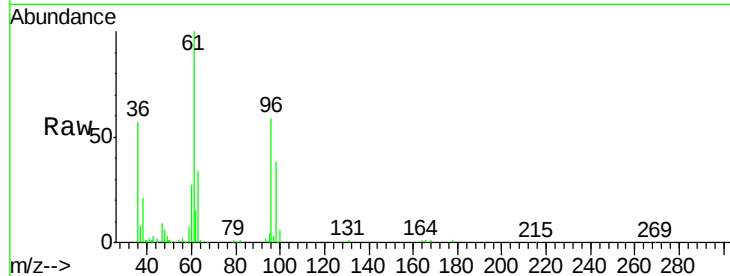
ClientSampleId :

SG-4DL

Tot Ion:	96	Resp:	55011
Ion Ratio	Lower	Upper	
96	100		
61	169.8	135.3	202.9
98	64.7	50.4	75.6

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#29

Chloroform

Concen: 4.009 ppbv

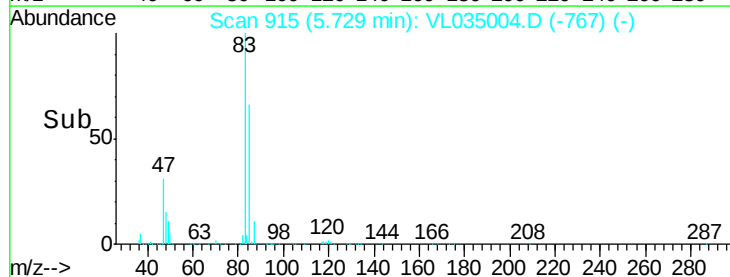
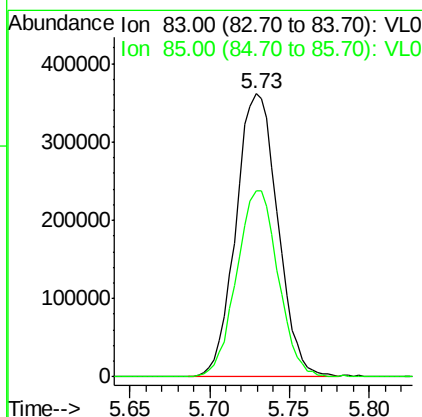
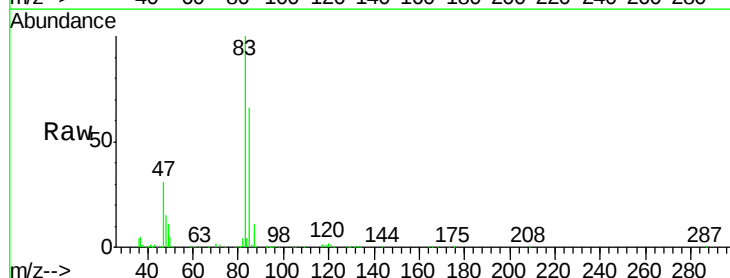
RT: 5.73 min Scan# 915

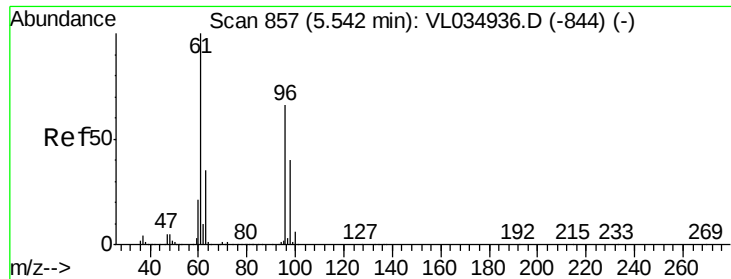
Delta R.T. -0.02 min

Lab File: VL035004.D

Acq: 13 May 2020 2:07

Tgt Ion:	83	Resp:	644120
Ion Ratio	Lower	Upper	
83	100		
85	65.6	53.0	79.6





#31

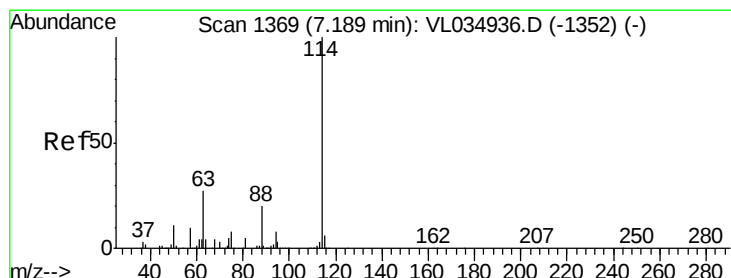
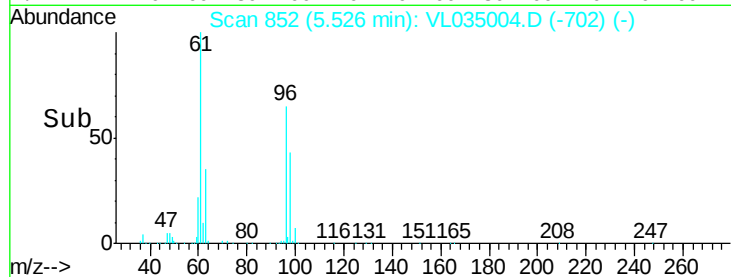
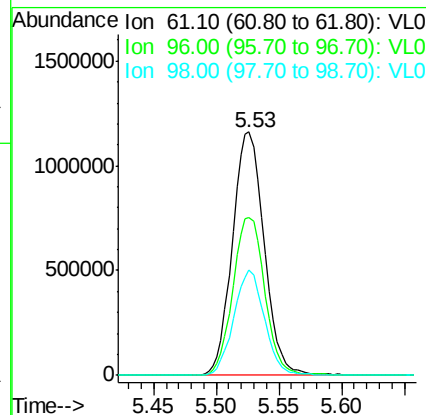
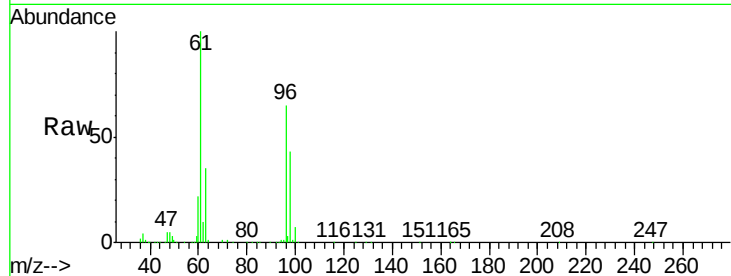
cis-1,2-Dichloroethene
Concen: 21.380 ppbv
RT: 5.53 min Scan# 852
Delta R.T. -0.02 min
Lab File: VL035004.D
Acq: 13 May 2020 2:07

Instrument :
MSVOA_L
ClientSampleId :
SG-4DL

Tot Ion	Ratio	Lower	Upper
61	100		
96	64.9	53.0	79.6
98	43.4	32.2	48.2

Manual Integrations
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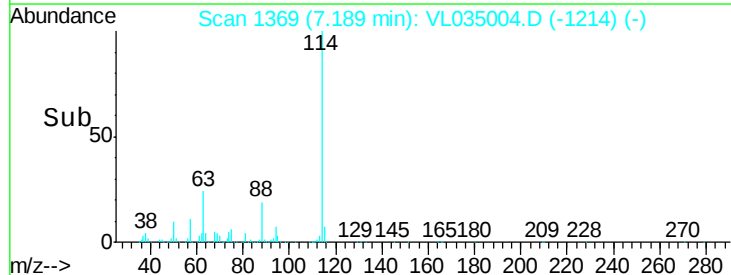
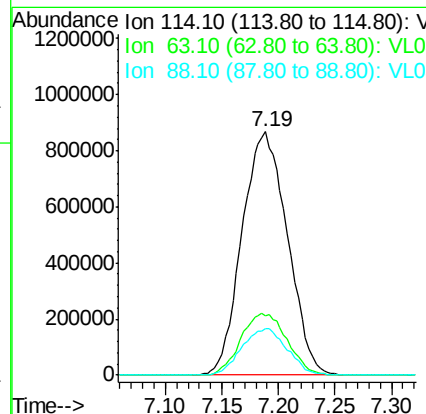
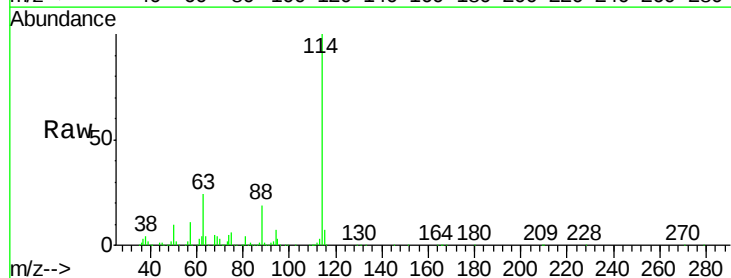
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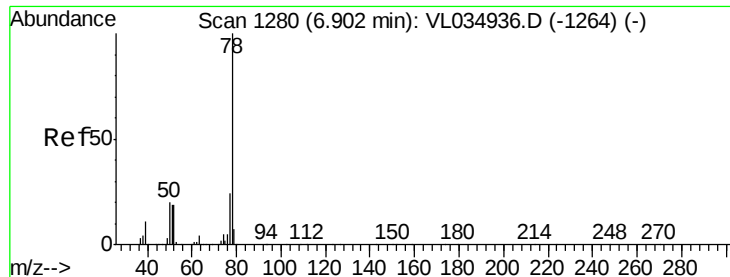


#33

1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.19 min Scan# 1369
Delta R.T. -0.00 min
Lab File: VL035004.D
Acq: 13 May 2020 2:07

Tgt Ion	Ratio	Lower	Upper
114	100		
63	25.9	22.2	33.4
88	19.1	15.5	23.3





#36

Benzene

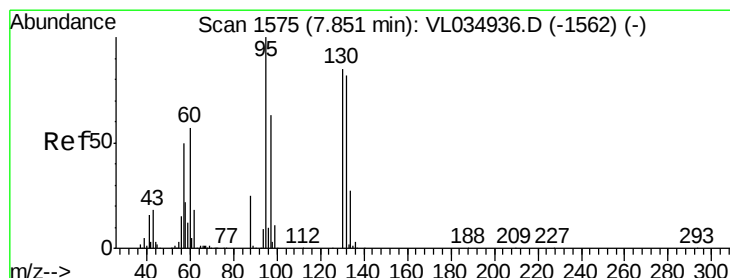
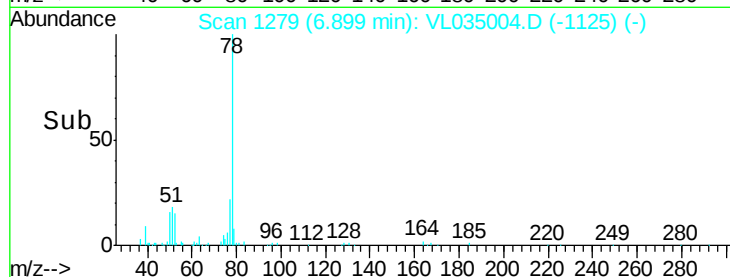
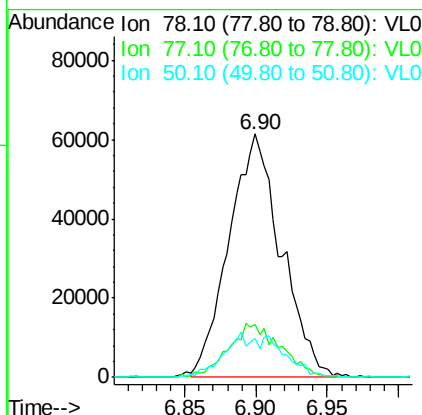
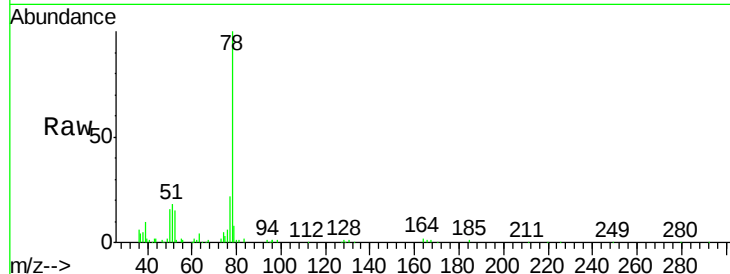
Concen: 0.784 ppbv m
RT: 6.90 min Scan# 1279
Delta R.T. -0.00 min
Lab File: VL035004.D
Acq: 13 May 2020 2:07

Instrument :
MSVOA_L
ClientSampleId :
SG-4DL

Tot Ion	Ratio	Lower	Upper
78	100		
77	21.8	19.0	28.6
50	16.0	15.8	23.8

Manual Integrations
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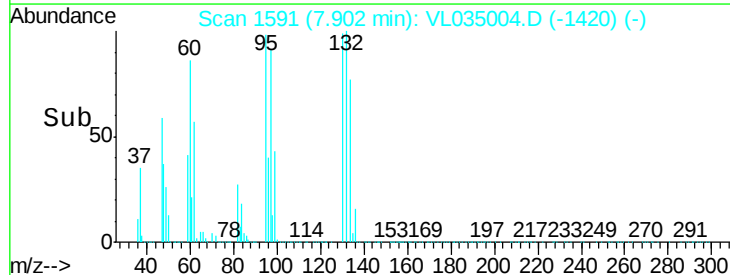
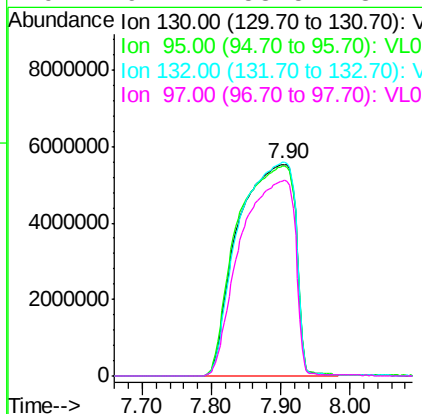
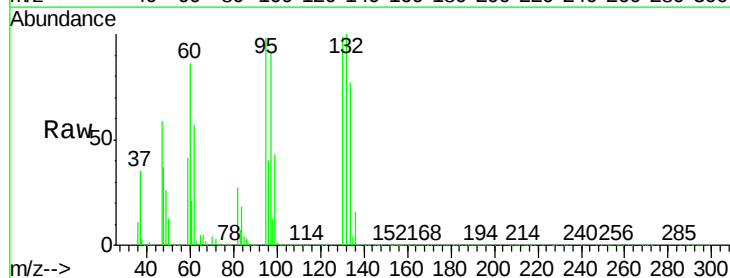


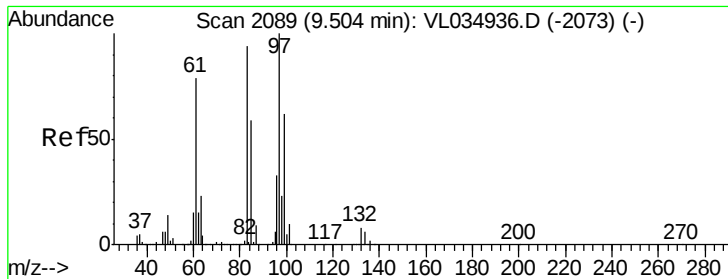
#38

Trichloroethene

Concen: 413.044 ppbv
RT: 7.90 min Scan# 1591
Delta R.T. 0.05 min
Lab File: VL035004.D
Acq: 13 May 2020 2:07

Tgt Ion	Ratio	Lower	Upper
130	100		
95	99.1	93.4	140.0
132	100.9	76.4	114.6
97	92.1	58.5	87.7#





#47

1,1,2-Trichloroethane

Concen: 0.758 ppbv m

RT: 9.50 min Scan# 2089

Delta R.T. -0.00 min

Lab File: VL035004.D

Acq: 13 May 2020 2:07

Instrument :

MSVOA_L

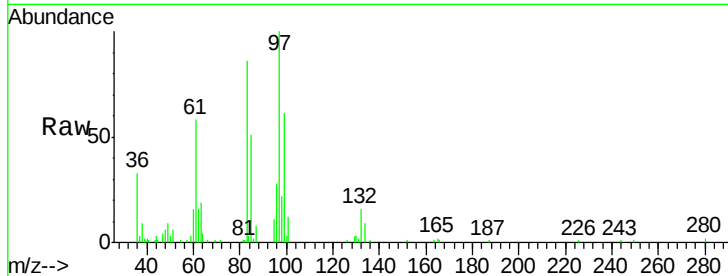
ClientSampled :

SG-4DL

Tot Ion:	97	Resp:	63797
Ion	Ratio	Lower	Upper
97	100		
83	85.6	75.6	113.4
85	50.9	47.0	70.6
99	60.5	49.4	74.2

Manual Integrations
APPROVED

MMDadoda
5/18/2020 2:08:39 PM

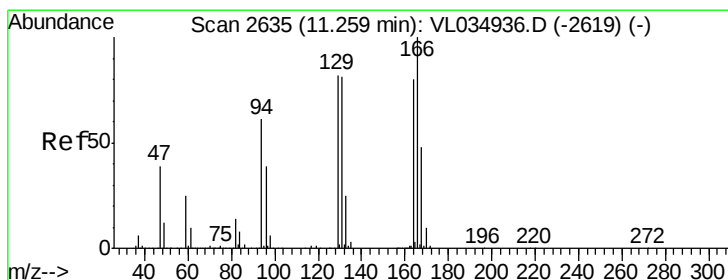
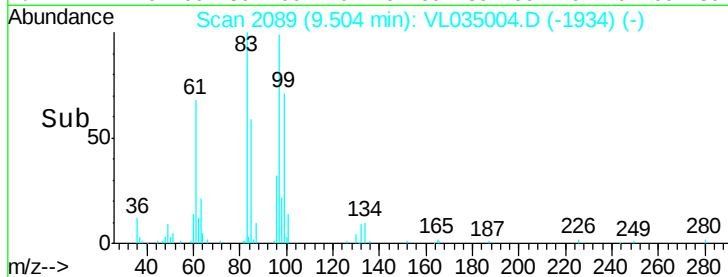
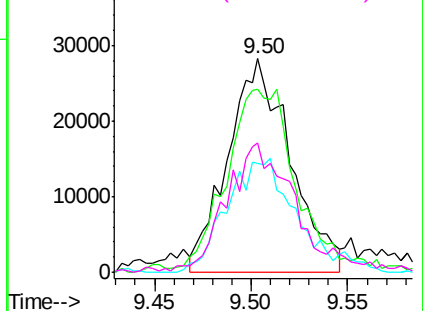


Abundance Ion 97.00 (96.70 to 97.70): VL0

Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 99.00 (98.70 to 99.70): VL0



#52

Tetrachloroethene

Concen: 1314.052 ppbv m

RT: 11.43 min Scan# 2687

Delta R.T. 0.17 min

Lab File: VL035004.D

Acq: 13 May 2020 2:07

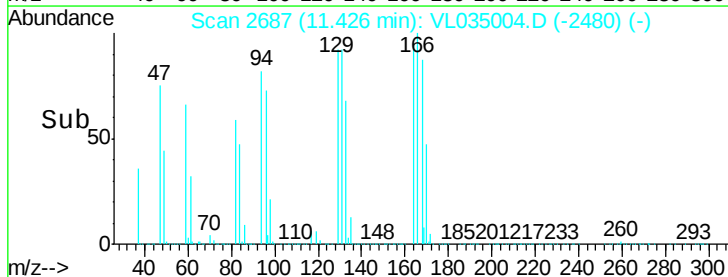
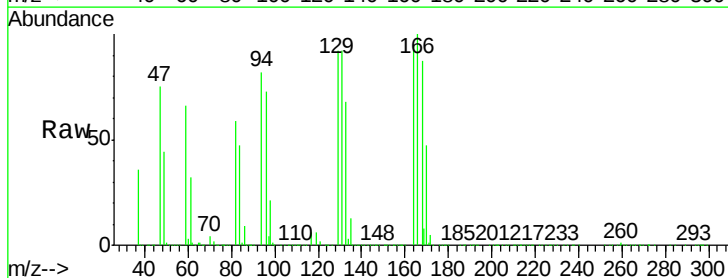
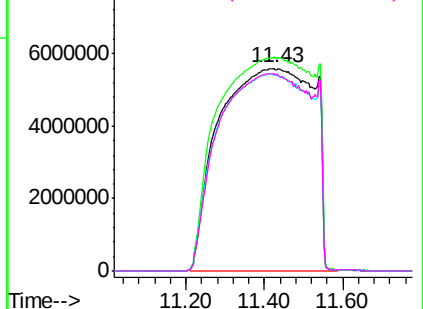
Tgt Ion:	164	Resp:	92978759
Ion	Ratio	Lower	Upper
164	100		
166	105.2	100.7	151.1
129	97.0	83.0	124.4
131	97.1	81.0	121.4

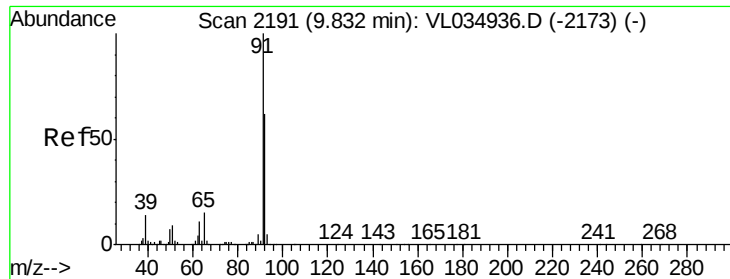
Abundance Ion 163.90 (163.60 to 164.60): V

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

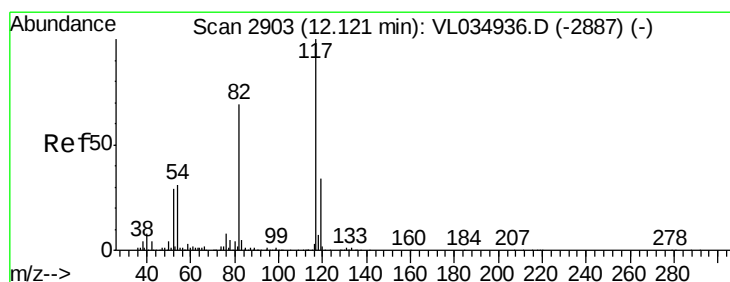
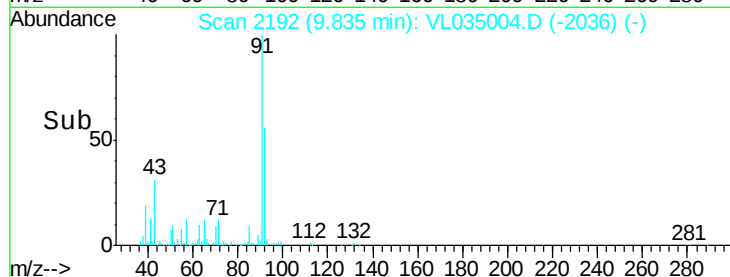
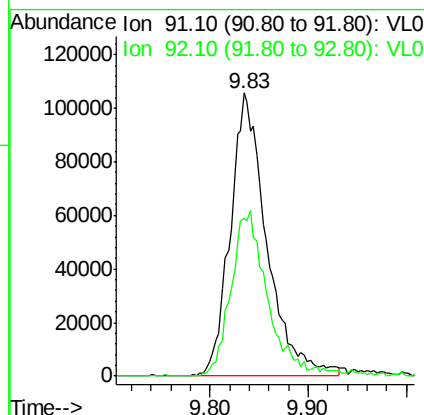
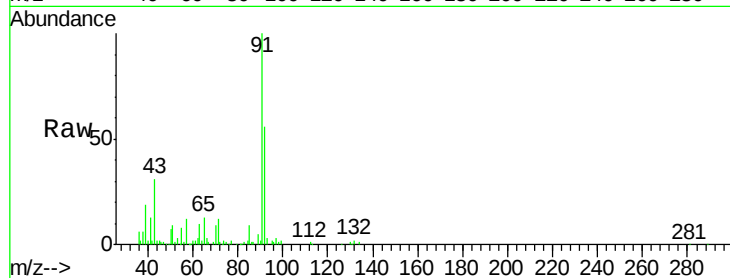
Concen: 1.295 ppbv m
 RT: 9.83 min Scan# 2192
 Delta R.T. 0.00 min
 Lab File: VL035004.D
 Acq: 13 May 2020 2:07

Instrument :
 MSVOA_L
 ClientSampleId :
 SG-4DL

Tot Ion	Ratio	Lower	Upper
91	100		
92	59.6	48.6	73.0

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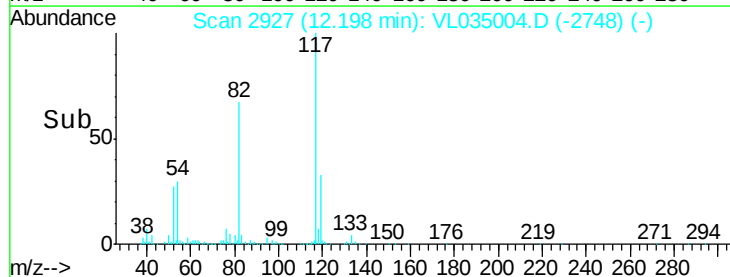
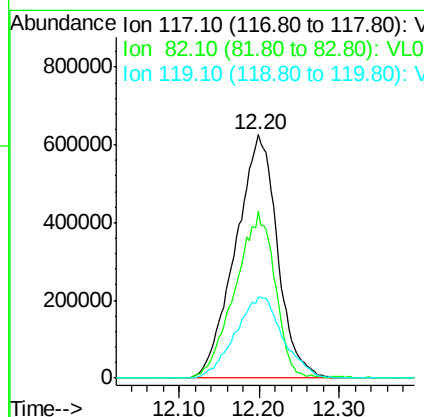
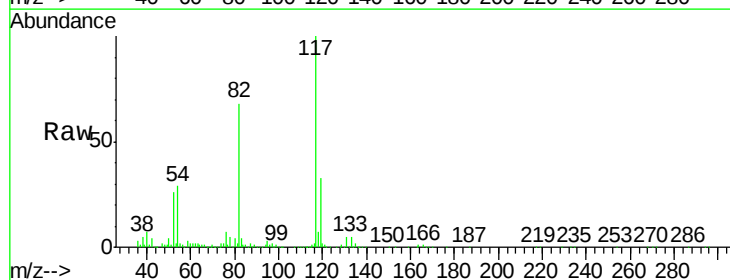


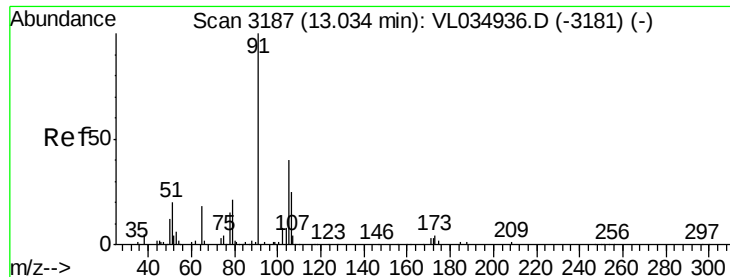
#55

Chlorobenzene-d5

Concen: 10.000 ppbv
 RT: 12.20 min Scan# 2927
 Delta R.T. 0.08 min
 Lab File: VL035004.D
 Acq: 13 May 2020 2:07

Tgt Ion	Ratio	Lower	Upper
117	100		
82	65.0	53.1	79.7
119	38.1	26.7	40.1





#59

m/p-Xylene

Concen: 0.309 ppbv m

RT: 13.06 min Scan# 3196

Delta R.T. 0.03 min

Lab File: VL035004.D

Acq: 13 May 2020 2:07

Instrument :

MSVOA_L

ClientSampleId :

SG-4DL

Tot Ion: 91 Resp: 74645

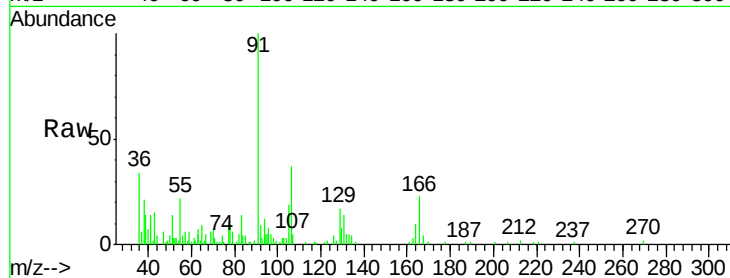
Ion Ratio Lower Upper

91 100

106 0.0 66.0 99.0#

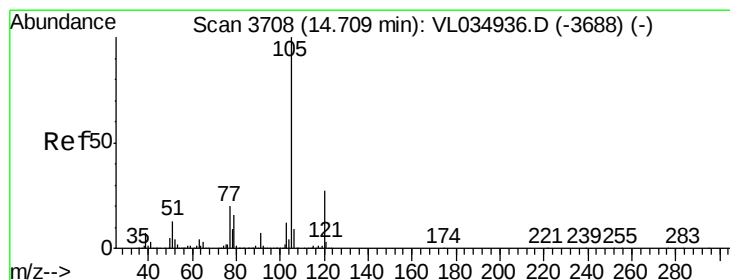
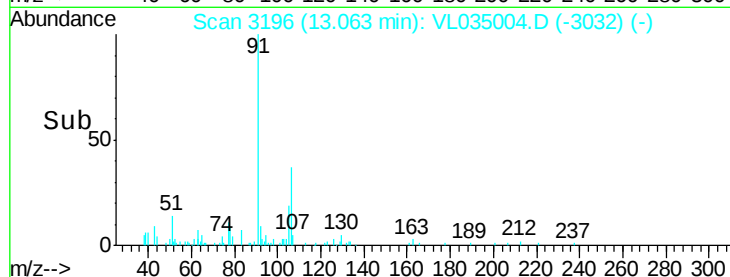
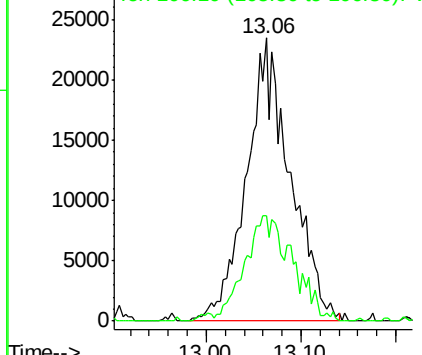
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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#62

Isopropylbenzene

Concen: 0.250 ppbv m

RT: 14.74 min Scan# 3718

Delta R.T. 0.03 min

Lab File: VL035004.D

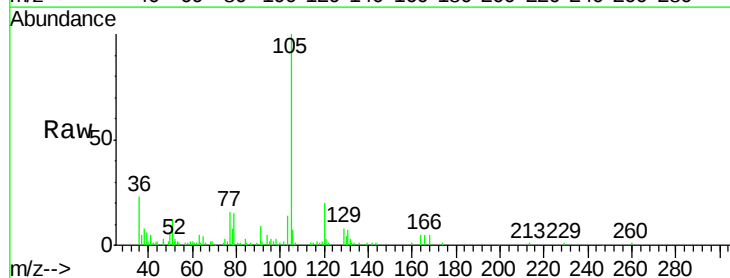
Acq: 13 May 2020 2:07

Tgt Ion: 105 Resp: 88978

Ion Ratio Lower Upper

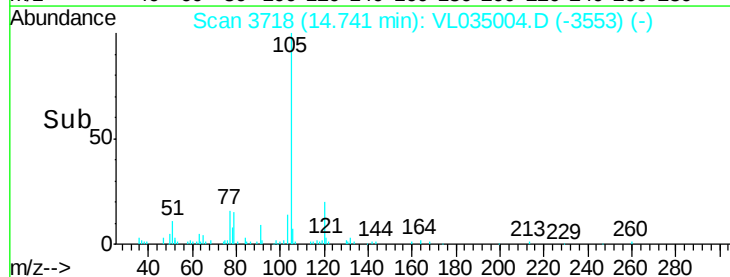
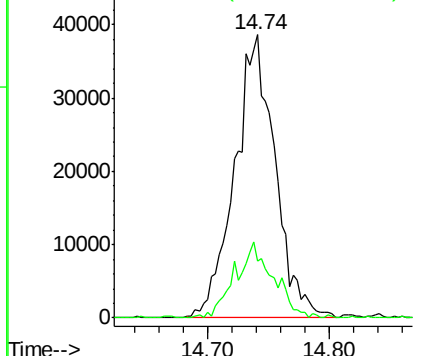
105 100

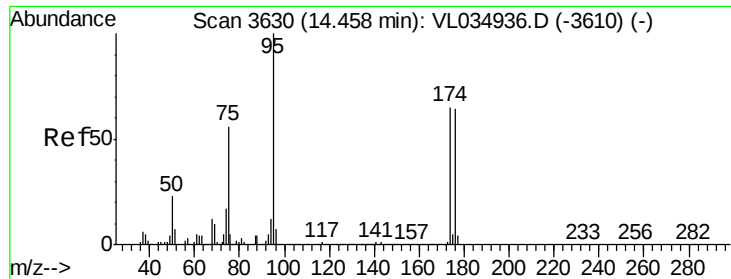
120 0.0 20.6 31.0#



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V





#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.498 ppbv
 RT: 14.49 min Scan# 3640
 Delta R.T. 0.03 min
 Lab File: VL035004.D
 Acq: 13 May 2020 2:07

Instrument :
 MSVOA_L
 ClientSampleId :
 SG-4DL

Tot Ion	Ratio	Lower	Upper
95	100		
174	63.8	51.5	77.3
175	4.8	3.8	5.8

Manual Integrations
 APPROVED

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