

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL030620\
 Data File : VL034836.D
 Acq On : 7 Mar 2020 4:49
 Operator : SY/AP
 Sample : L1698-08DL2 600X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SS-2-4DL2

Manual Integrations
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 3/9/2020 9:21:39 AM

Quant Time: Mar 07 07:01:08 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL030420AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Mar 0
 QLast Update : Wed Mar 04 06:36:39 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	888362	10.00	ppbv	-0.03
33) 1,4-Difluorobenzene	7.18	114	1993266	10.00	ppbv	-0.03
55) Chlorobenzene-d5	12.10	117	1964989	10.00	ppbv	-0.04

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.44	95	1549344	9.46	ppbv	-0.04
Spiked Amount	10.000	Range	65 - 135	Recovery	=	94.60%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl Chloride	3.22	62	119452	2.074	ppbv	97
9) Propene	2.97	41	21833m	0.548	ppbv	
10) Heptane	8.12	43	37791m	0.373	ppbv	
15) Acetone	3.83	43	6670m	0.063	ppbv	
20) Methylene Chloride	4.32	84	14558m	0.383	ppbv	
26) Hexane	5.67	57	59771	0.744	ppbv #	42
30) Cyclohexane	7.13	84	42997m	0.700	ppbv	
31) cis-1,2-Dichloroethene	5.54	61	604686	7.341	ppbv	96
36) Benzene	6.89	78	52533	0.308	ppbv	98
38) Trichloroethene	7.84	130	53865	0.811	ppbv	91
44) 2,2,4-Trimethylpentane	7.87	57	107953	0.363	ppbv #	75
52) Tetrachloroethene	11.24	164	17765m	0.282	ppbv	
53) Toluene	9.82	91	18480m	0.103	ppbv	
59) m/p-Xylene	12.99	91	22624m	0.108	ppbv	

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

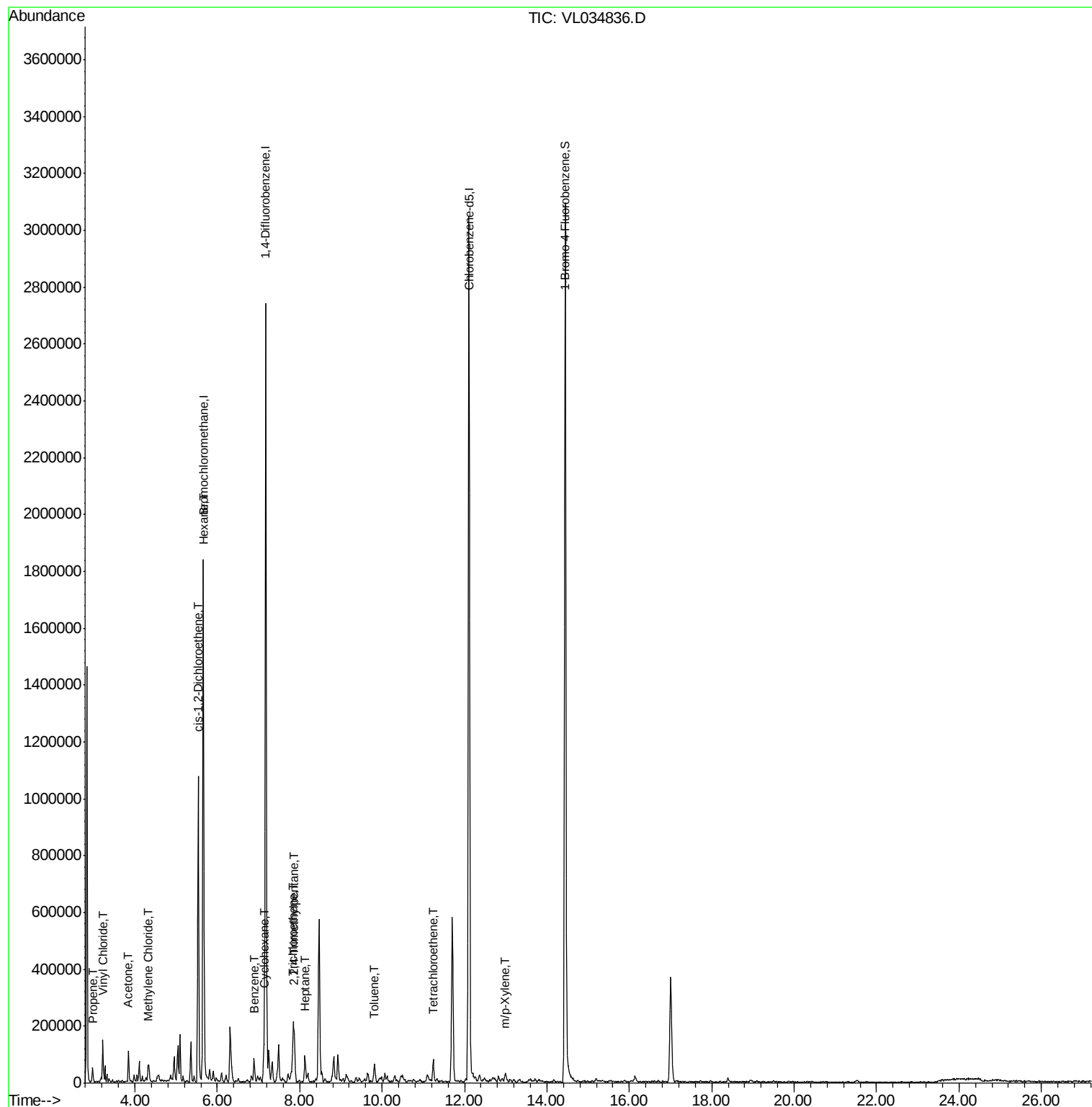
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL030620\
Data File : VL034836.D
Acq On : 7 Mar 2020 4:49
Operator : SY/AP
Sample : L1698-08DL2 600X
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

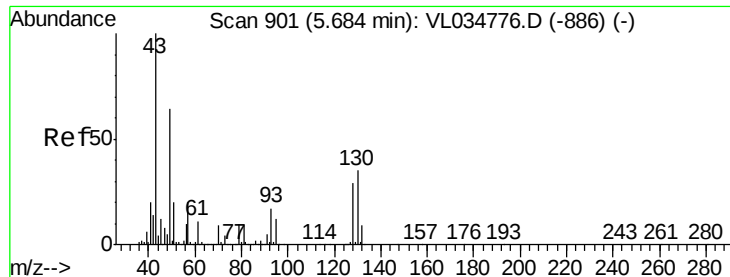
Instrument :
MSVOA_L
ClientSampleId :
SS-2-4DL2

Manual Integrations
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3/9/2020 9:21:39 AM

Quant Time: Mar 07 07:01:08 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL030420AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Mar
QLast Update : Wed Mar 04 06:36:39 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 892

Delta R.T. -0.03 min

Lab File: VL034836.D

Acq: 7 Mar 2020 4:49

Instrument :

MSVOA_L

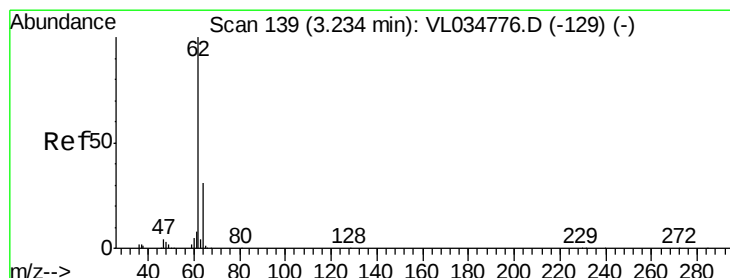
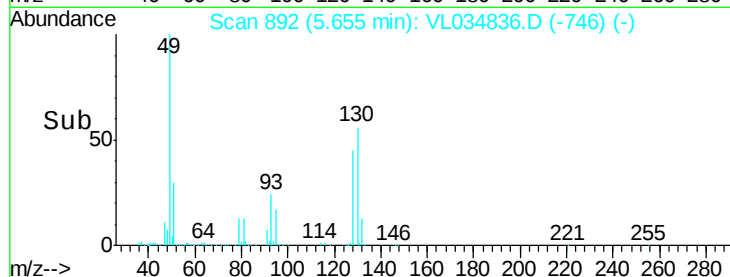
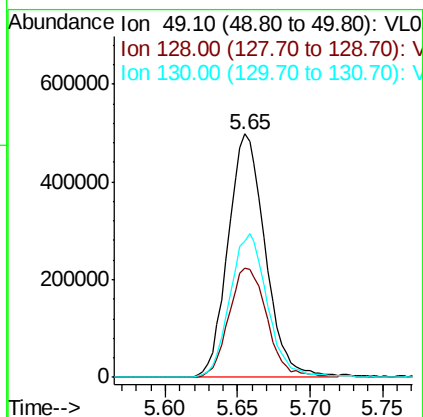
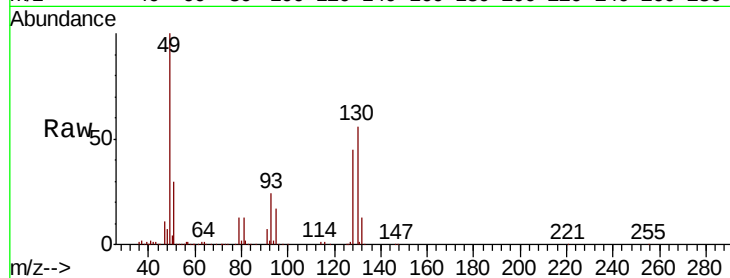
ClientSampleId :

SS-2-4DL2

Tot Ion:	49	Resp:	888362
Ion Ratio	Lower	Upper	
49	100		
128	46.7	21.6	64.6
130	60.0	27.4	82.2

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#5

Vinyl Chloride

Concen: 2.074 ppbv

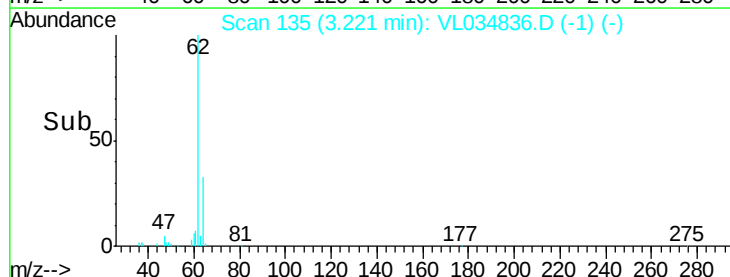
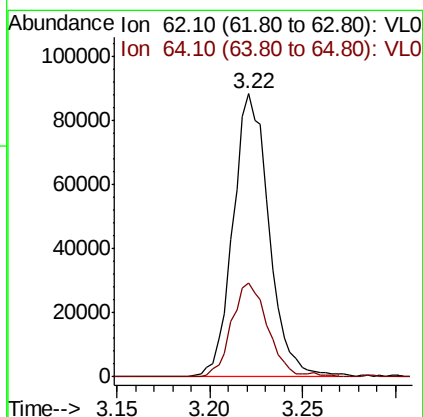
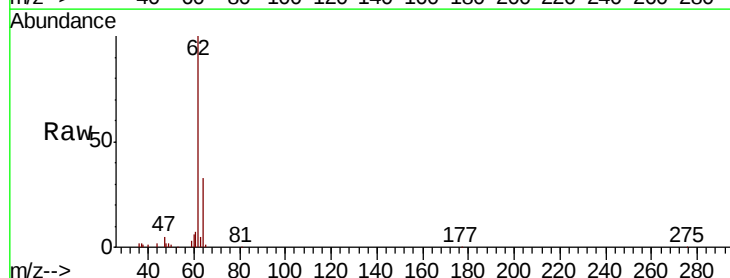
RT: 3.22 min Scan# 135

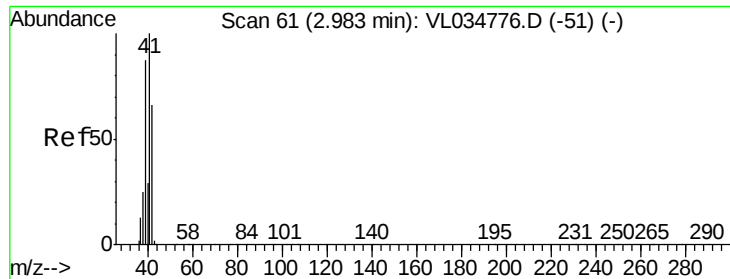
Delta R.T. -0.01 min

Lab File: VL034836.D

Acq: 7 Mar 2020 4:49

Tgt Ion:	62	Resp:	119452
Ion Ratio	Lower	Upper	
62	100		
64	33.2	25.1	37.7





#9

Propene

Concen: 0.548 ppbv m

RT: 2.97 min Scan# 56

Delta R.T. -0.02 min

Lab File: VL034836.D

Acq: 7 Mar 2020 4:49

Instrument :

MSVOA_L

ClientSampleId :

SS-2-4DL2

Tot Ion: 41 Resp: 21833

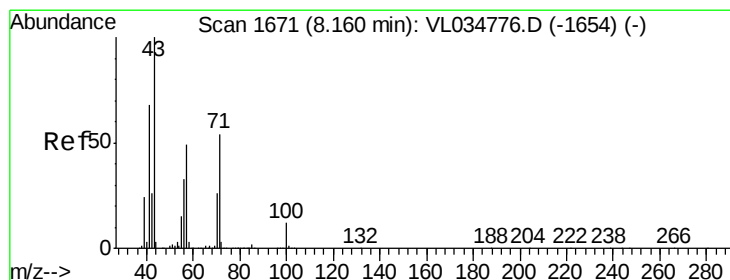
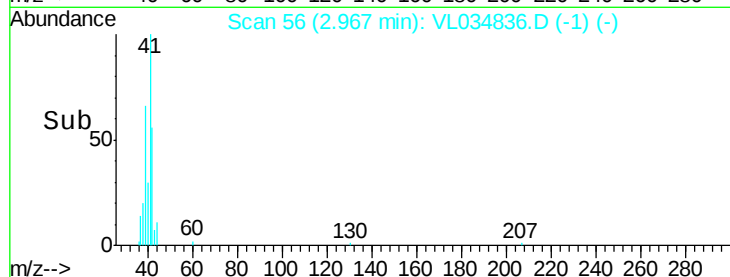
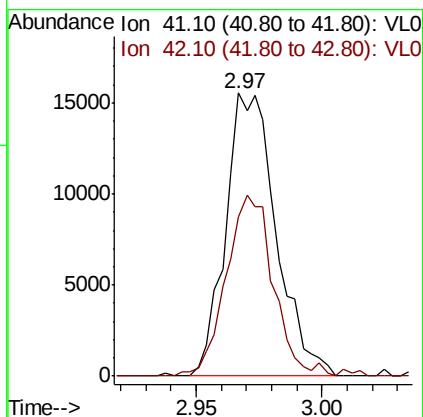
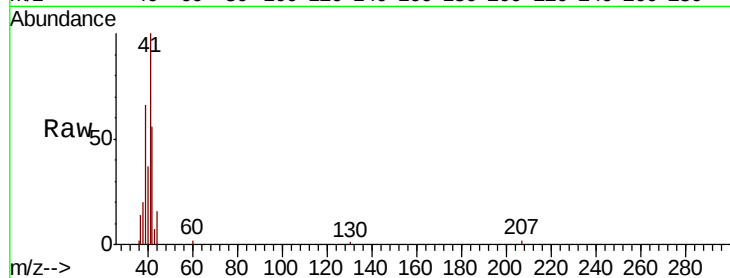
Ion Ratio Lower Upper

41 100

42 0.0 55.6 83.4#

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#10

Heptane

Concen: 0.373 ppbv m

RT: 8.12 min Scan# 1660

Delta R.T. -0.04 min

Lab File: VL034836.D

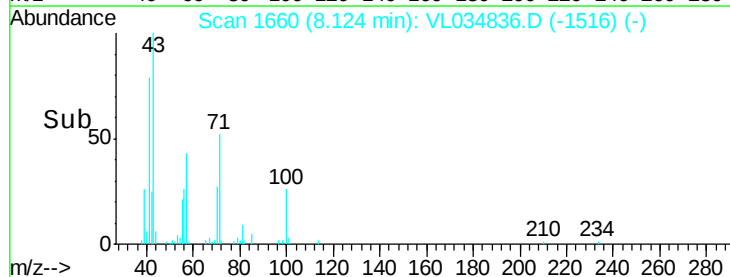
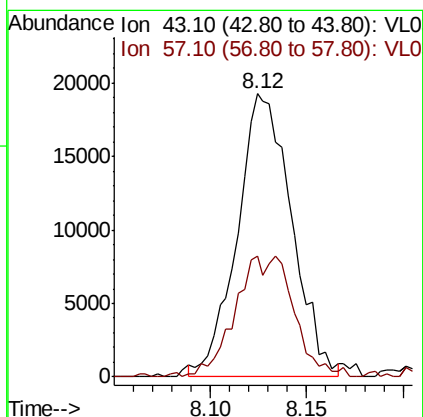
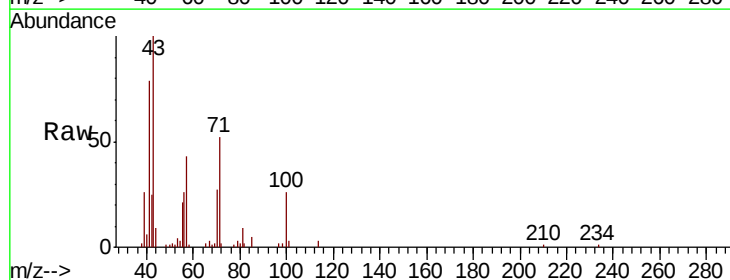
Acq: 7 Mar 2020 4:49

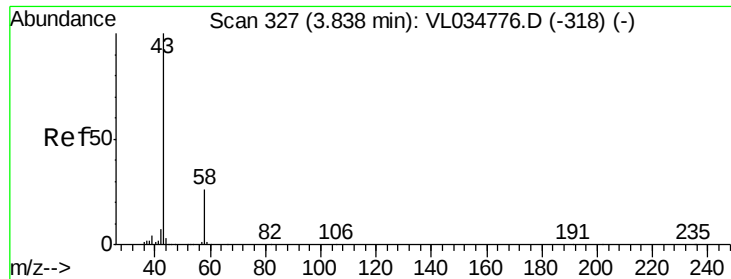
Tgt Ion: 43 Resp: 37791

Ion Ratio Lower Upper

43 100

57 0.0 40.5 60.7#





#15

Acetone

Concen: 0.063 ppbv m

RT: 3.83 min Scan# 325

Delta R.T. -0.01 min

Lab File: VL034836.D

Acq: 7 Mar 2020 4:49

Instrument :

MSVOA_L

ClientSampleId :

SS-2-4DL2

Tot Ion: 43 Resp: 6670

Ion Ratio Lower Upper

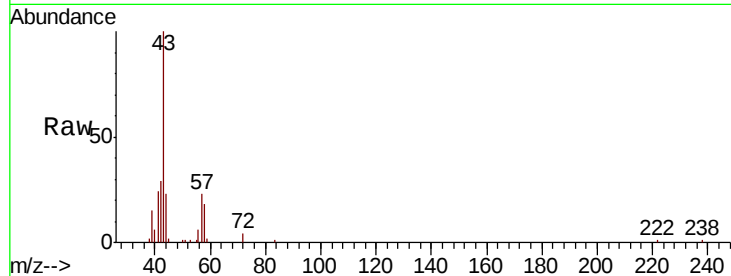
43 100

58 227.6 21.0 31.6#

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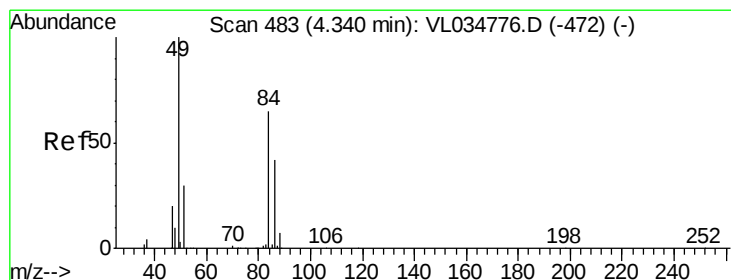
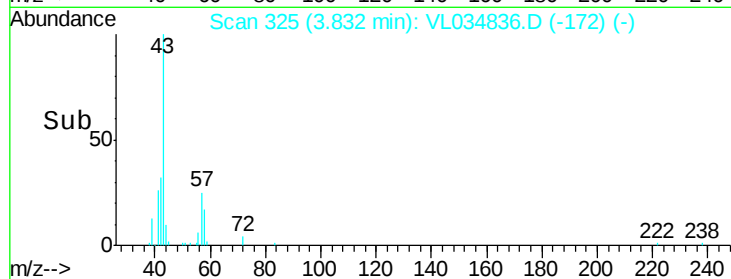
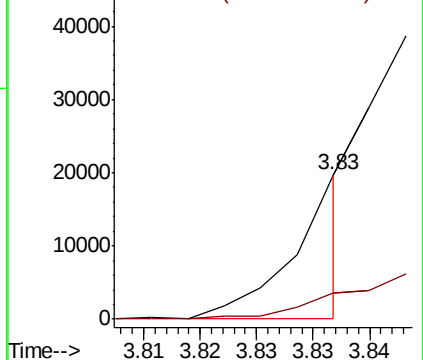
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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#20

Methylene Chloride

Concen: 0.383 ppbv m

RT: 4.32 min Scan# 477

Delta R.T. -0.02 min

Lab File: VL034836.D

Acq: 7 Mar 2020 4:49

Tgt Ion: 84 Resp: 14558

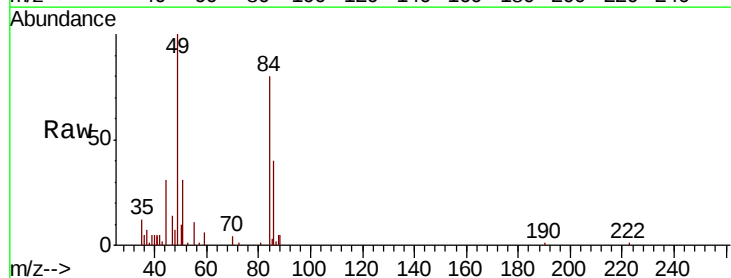
Ion Ratio Lower Upper

84 100

49 125.8 123.2 184.8

51 39.1 37.4 56.2

86 49.7 51.6 77.4#

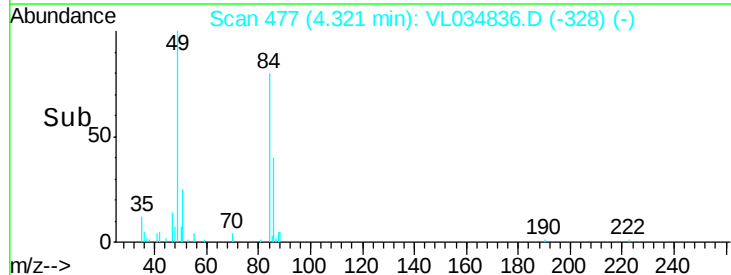
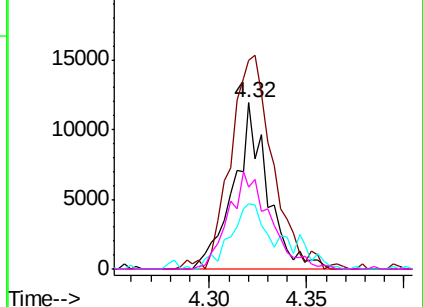


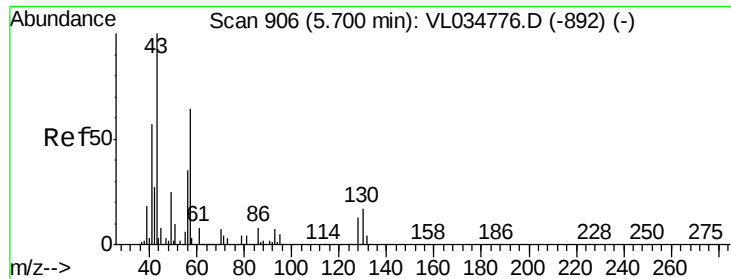
Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0





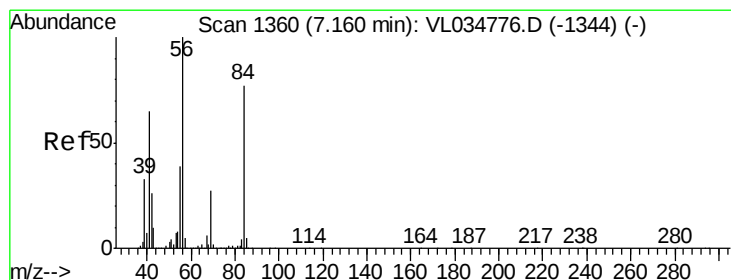
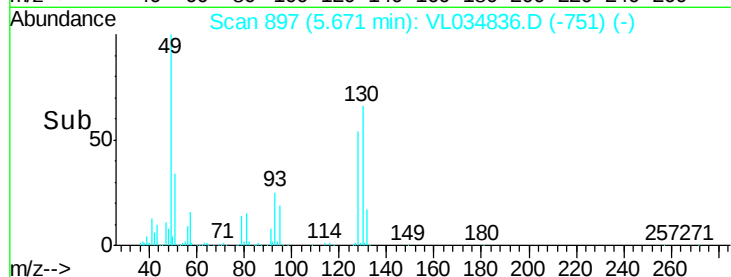
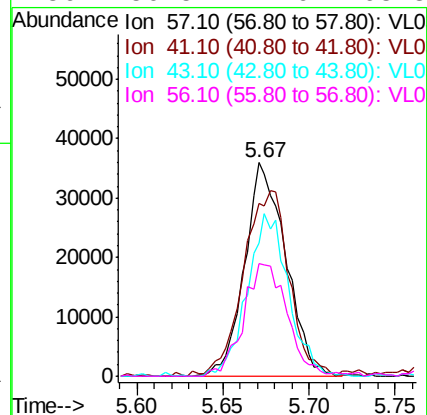
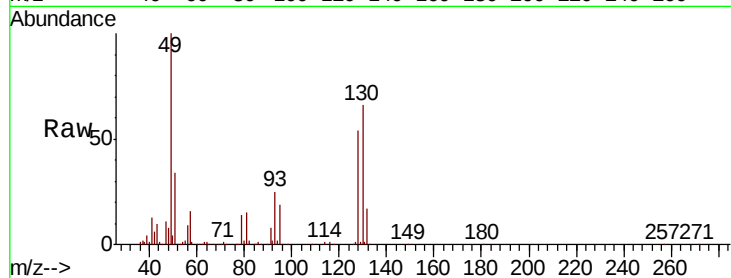
#26
Hexane
Concen: 0.744 ppbv
RT: 5.67 min Scan# 897
Delta R.T. -0.03 min
Lab File: VL034836.D
Acq: 7 Mar 2020 4:49

Instrument :
MSVOA_L
ClientSampled :
SS-2-4DL2

Tot Ion	57	Resp	59771
Ion	Ratio	Lower	Upper
57	100		
41	98.8	72.0	108.0
43	76.0	179.1	268.7#
56	56.5	42.6	63.8

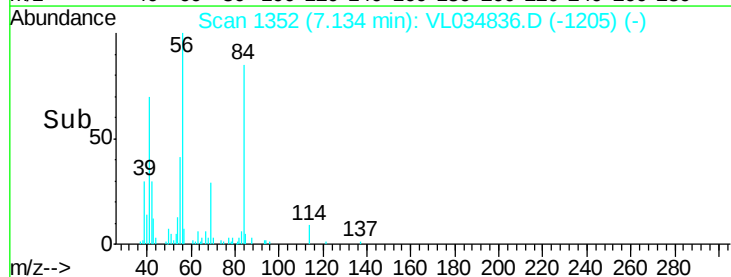
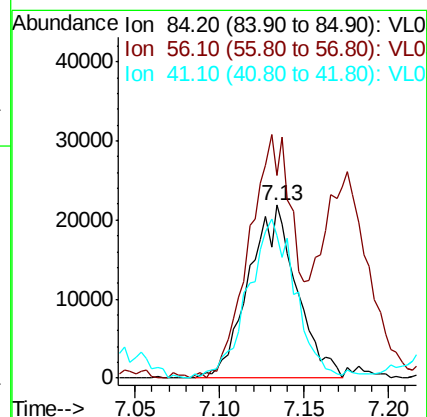
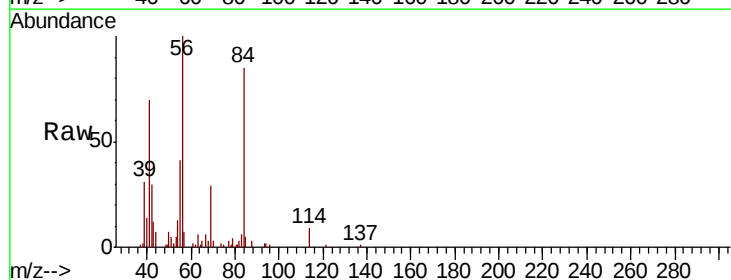
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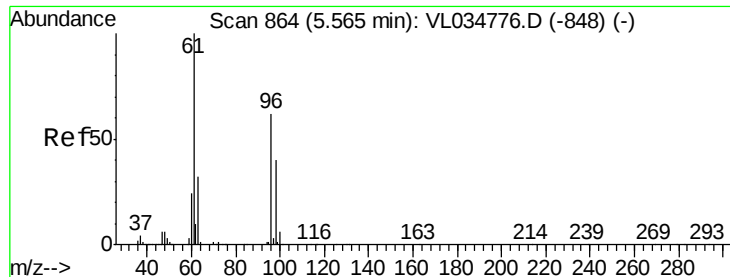
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#30
Cyclohexane
Concen: 0.700 ppbv m
RT: 7.13 min Scan# 1352
Delta R.T. -0.03 min
Lab File: VL034836.D
Acq: 7 Mar 2020 4:49

Tgt Ion	84	Resp	42997
Ion	Ratio	Lower	Upper
84	100		
56	124.5	113.2	169.8
41	91.6	70.2	105.4





#31

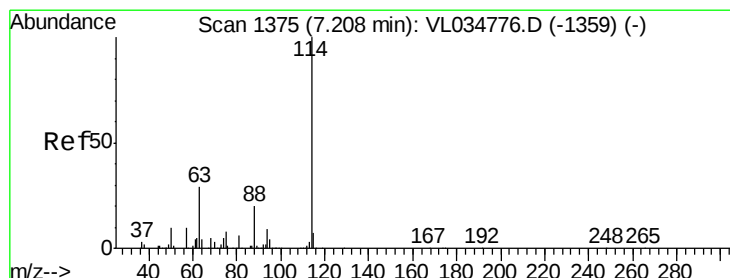
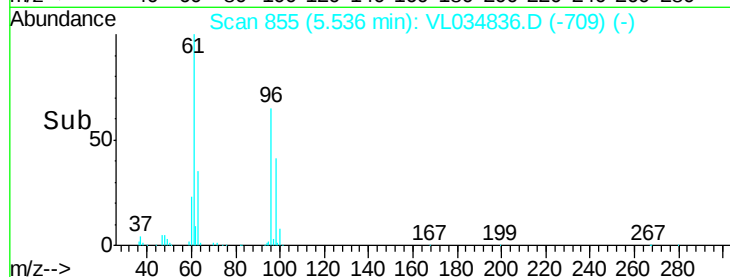
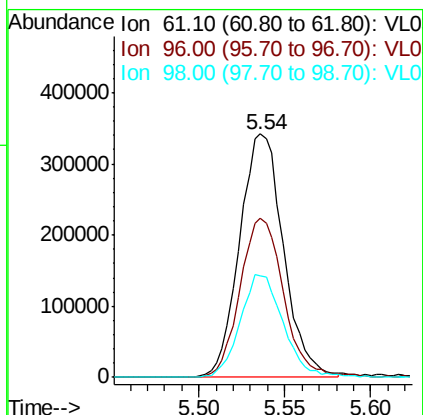
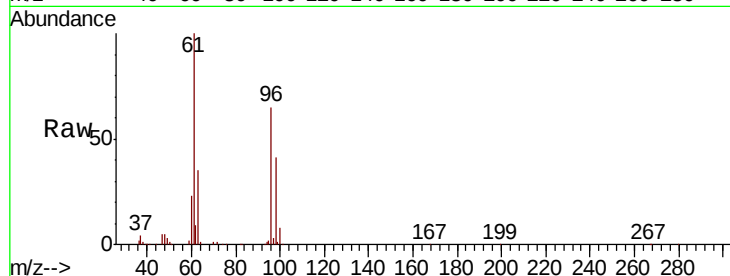
cis-1,2-Dichloroethene
Concen: 7.341 ppbv
RT: 5.54 min Scan# 855
Delta R.T. -0.03 min
Lab File: VL034836.D
Acq: 7 Mar 2020 4:49

Instrument :
MSVOA_L
ClientSampleId :
SS-2-4DL2

Tot Ion	Ratio	Lower	Upper
61	100		
96	65.4	49.7	74.5
98	41.5	31.9	47.9

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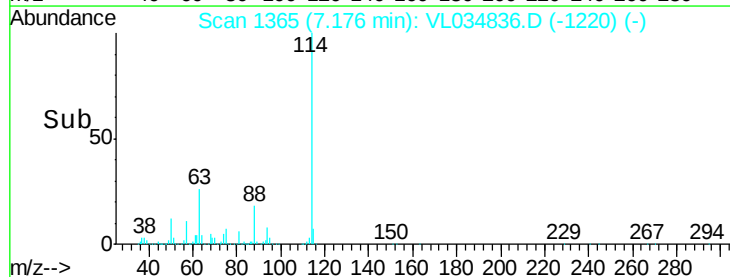
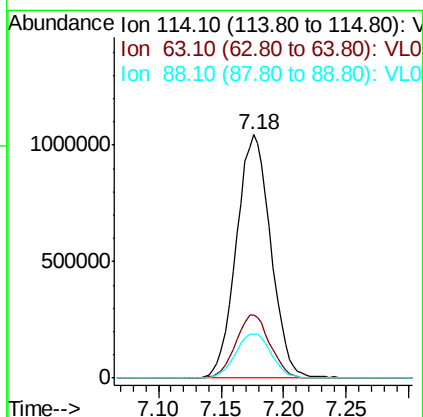
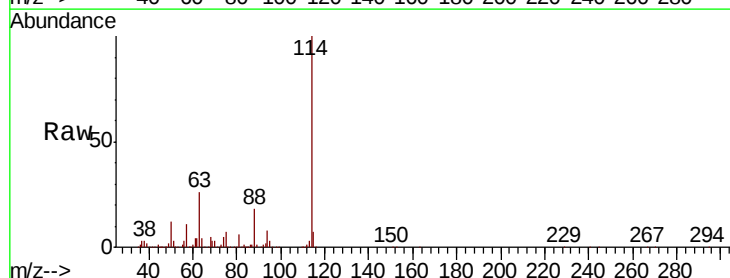
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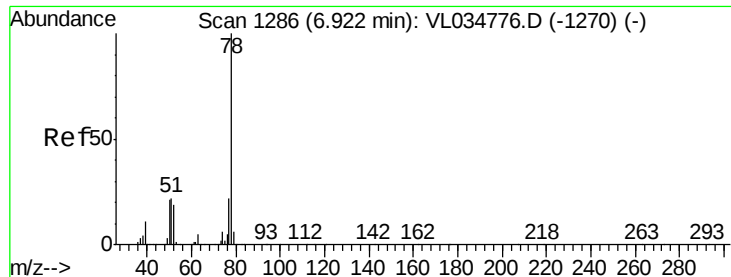


#33

1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.18 min Scan# 1365
Delta R.T. -0.03 min
Lab File: VL034836.D
Acq: 7 Mar 2020 4:49

Tgt Ion	Ratio	Lower	Upper
114	100		
63	26.1	23.6	35.4
88	18.8	15.8	23.8





#36

Benzene

Concen: 0.308 ppbv

RT: 6.89 min Scan# 1275

Delta R.T. -0.04 min

Lab File: VL034836.D

Acq: 7 Mar 2020 4:49

Instrument :

MSVOA_L

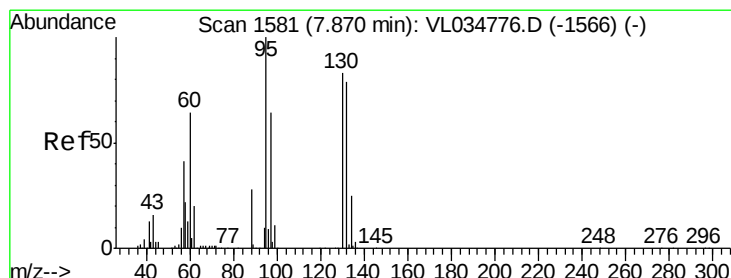
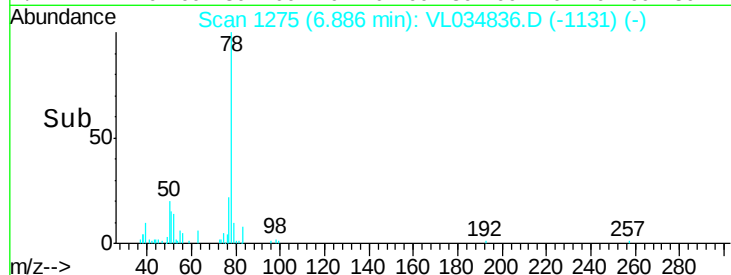
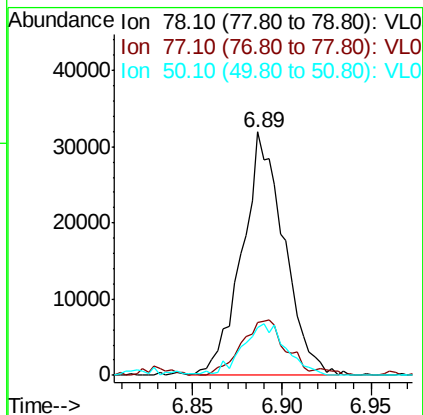
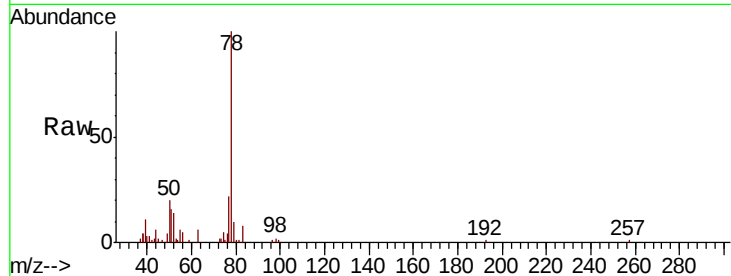
ClientSampleId :

SS-2-4DL2

Tot Ion:	78	Resp:	52533
Ion Ratio	Lower	Upper	
78	100		
77	21.9	18.0	27.0
50	19.7	16.9	25.3

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#38

Trichloroethene

Concen: 0.811 ppbv

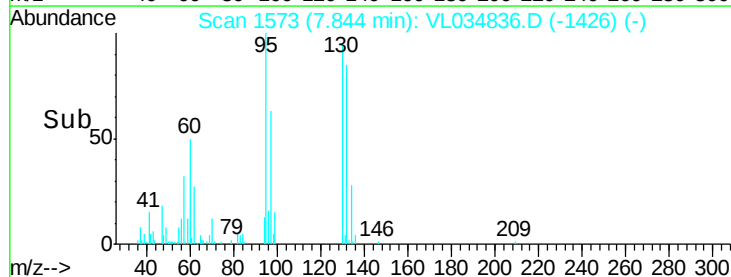
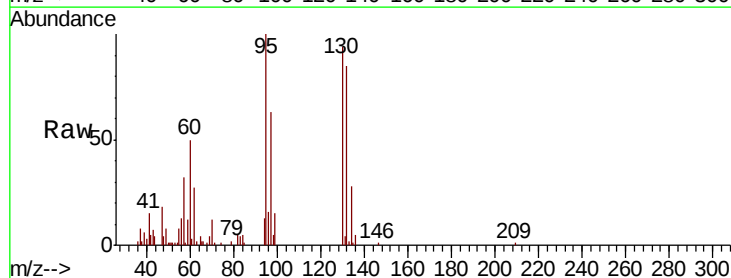
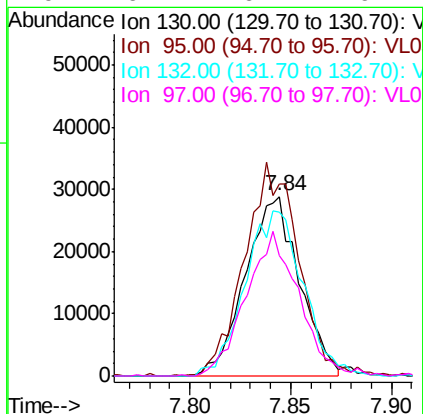
RT: 7.84 min Scan# 1573

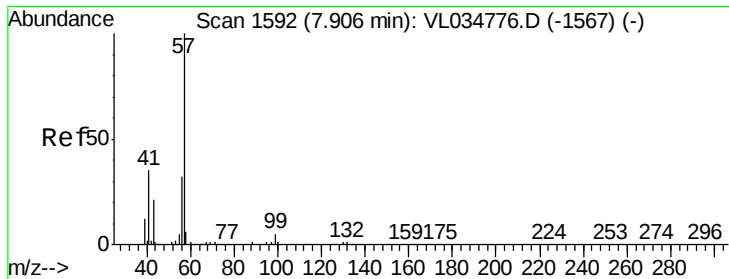
Delta R.T. -0.03 min

Lab File: VL034836.D

Acq: 7 Mar 2020 4:49

Tgt Ion:	130	Resp:	53865
Ion Ratio	Lower	Upper	
130	100		
95	106.2	95.8	143.8
132	91.1	76.1	114.1
97	67.2	61.1	91.7





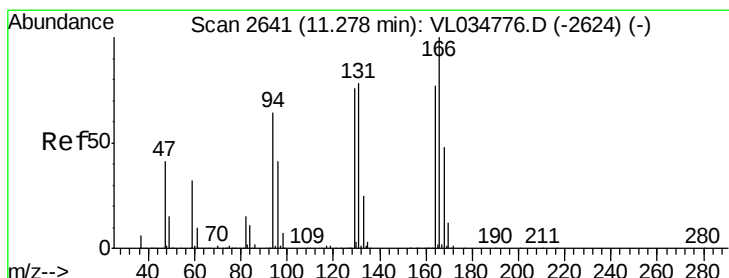
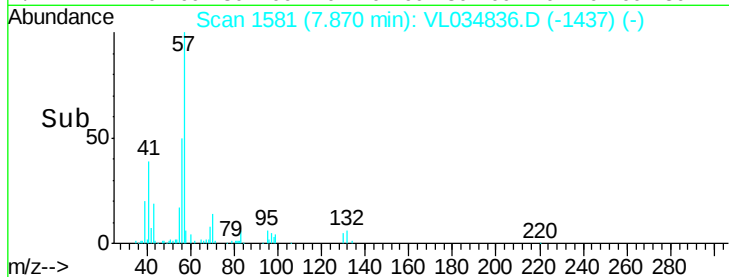
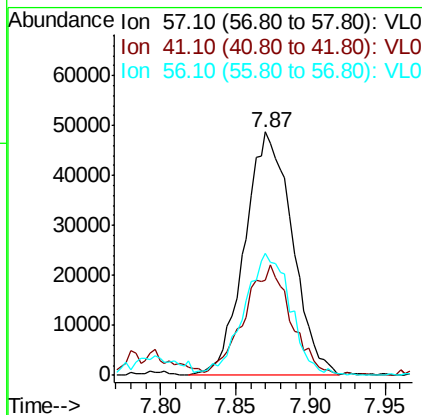
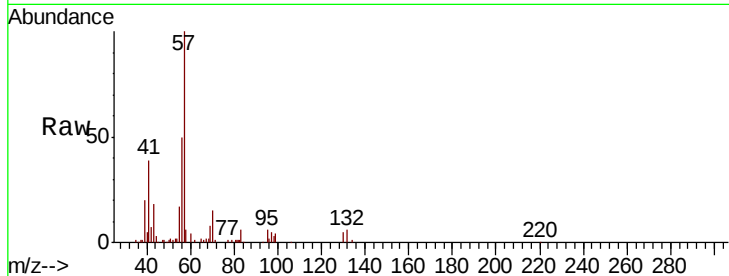
#44
2,2,4-Trimethylpentane
Concen: 0.363 ppbv
RT: 7.87 min Scan# 1581
Delta R.T. -0.04 min
Lab File: VL034836.D
Acq: 7 Mar 2020 4:49

Instrument :
MSVOA_L
ClientSampleId :
SS-2-4DL2

Tot Ion	Ratio	Lower	Upper
57	100		
41	44.8	27.4	41.0#
56	49.0	25.0	37.6#

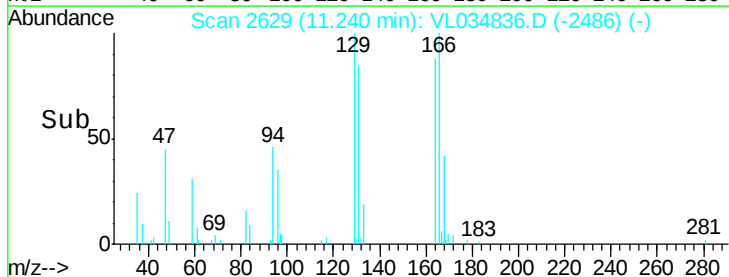
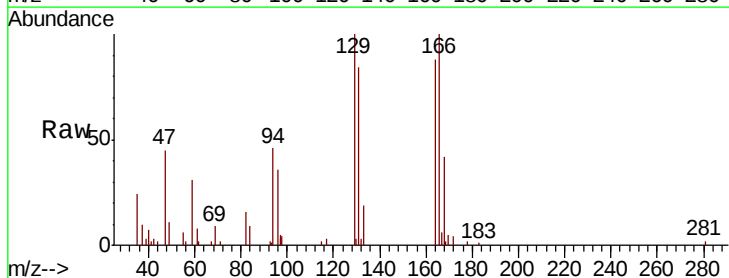
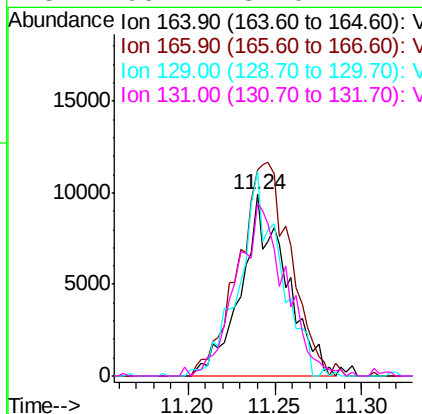
Manual Integrations
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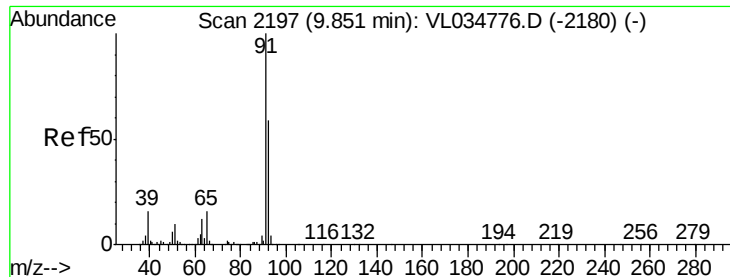
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#52
Tetrachloroethene
Concen: 0.282 ppbv m
RT: 11.24 min Scan# 2629
Delta R.T. -0.04 min
Lab File: VL034836.D
Acq: 7 Mar 2020 4:49

Tgt Ion	Ratio	Lower	Upper
164	100		
166	113.3	103.3	154.9
129	113.1	79.0	118.4
131	95.1	81.0	121.4





#53

Toluene

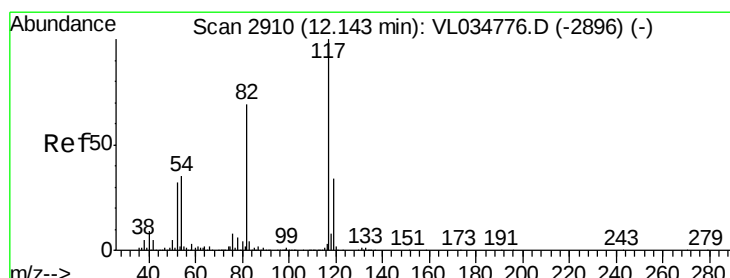
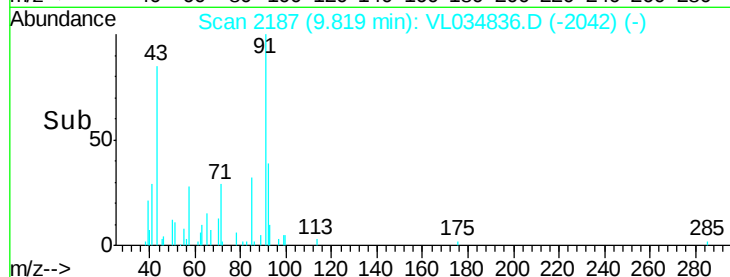
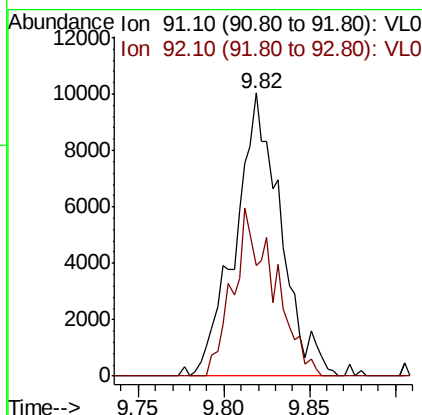
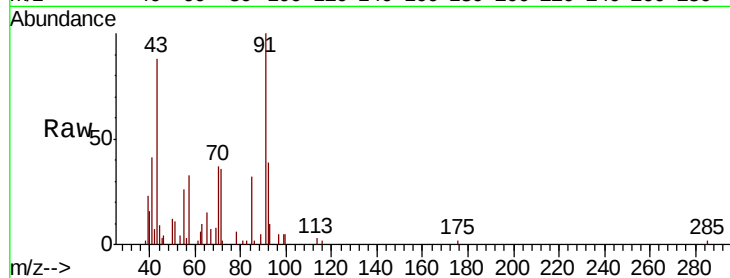
Concen: 0.103 ppbv m
RT: 9.82 min Scan# 2187
Delta R.T. -0.03 min
Lab File: VL034836.D
Acq: 7 Mar 2020 4:49

Instrument :
MSVOA_L
ClientSampleId :
SS-2-4DL2

Tot Ion: 91 Resp: 18480
Ion Ratio Lower Upper
91 100
92 54.1 48.2 72.2

Manual Integrations
APPROVED

MMDadoda
3/9/2020 9:21:39 AM

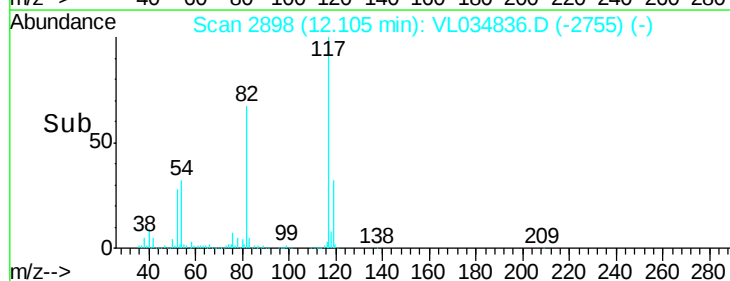
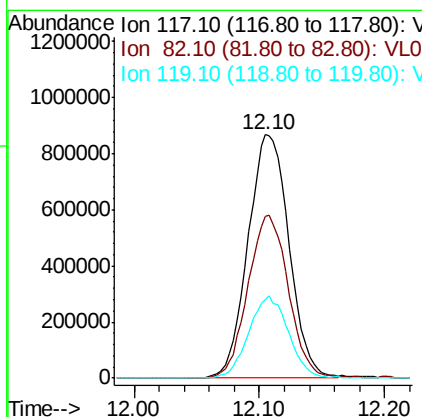
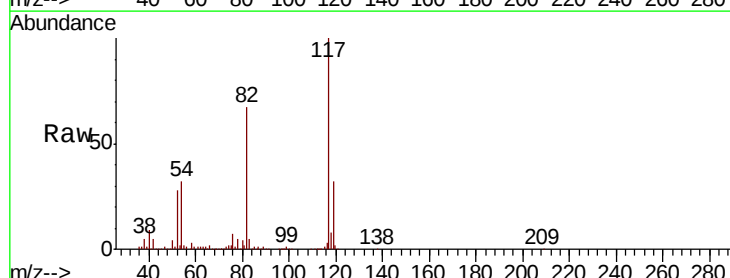


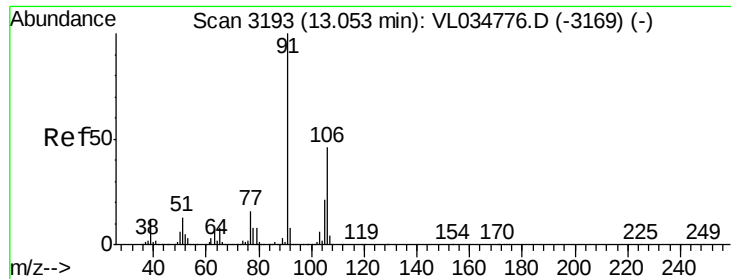
#55

Chlorobenzene-d5

Concen: 10.000 ppbv
RT: 12.10 min Scan# 2898
Delta R.T. -0.04 min
Lab File: VL034836.D
Acq: 7 Mar 2020 4:49

Tgt Ion: 117 Resp: 1964989
Ion Ratio Lower Upper
117 100
82 66.7 53.9 80.9
119 32.8 25.0 37.4





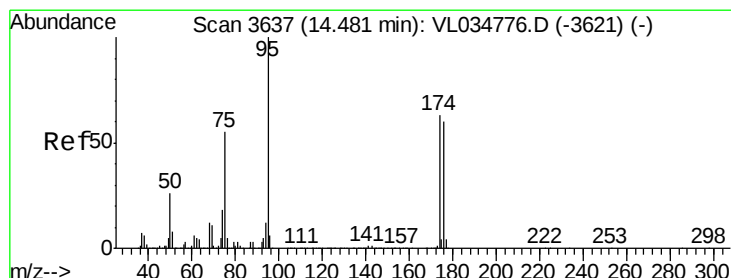
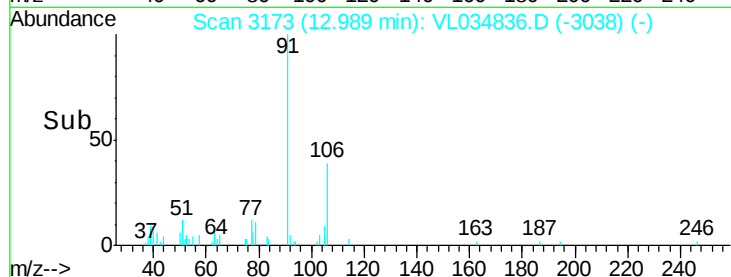
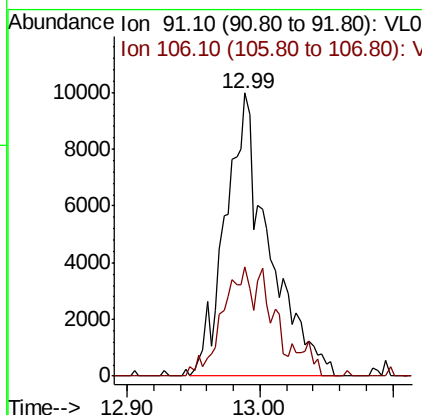
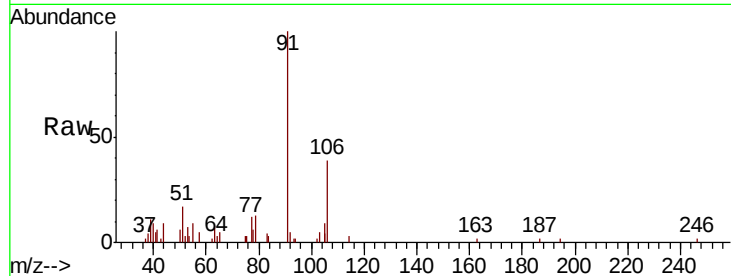
#59
m/p-Xylene
Concen: 0.108 ppbv m
RT: 12.99 min Scan# 3173
Delta R.T. -0.06 min
Lab File: VL034836.D
Acq: 7 Mar 2020 4:49

Instrument :
MSVOA_L
ClientSampled :
SS-2-4DL2

Tot Ion: 91 Resp: 22624
Ion Ratio Lower Upper
91 100
106 0.0 35.8 53.8#

Manual Integrations
APPROVED

MMDadoda
3/9/2020 9:21:39 AM



#68
1-Bromo-4-Fluorobenzene
Concen: 9.456 ppbv
RT: 14.44 min Scan# 3625
Delta R.T. -0.04 min
Lab File: VL034836.D
Acq: 7 Mar 2020 4:49

Tgt Ion: 95 Resp: 1549344
Ion Ratio Lower Upper
95 100
174 69.9 50.6 76.0
175 5.3 3.8 5.6

