

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL030520\
 Data File : VL034804.D
 Acq On : 5 Mar 2020 20:28
 Operator : SY/AP
 Sample : L1698-05
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SS-5-4

Manual Integrations
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 3/9/2020 9:19:11 AM

Quant Time: Mar 06 12:22:12 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	5.68	49	523437m	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.34	114	252074m	10.00	ppbv	0.13
55) Chlorobenzene-d5	12.42	117	143580m	10.00	ppbv	0.28

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.62	95	2700778	225.58	ppbv	0.14
Spiked Amount	10.000	Range	65 - 135	Recovery	= 2255.80%#	

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl Chloride	3.20	62	1041737	30.700	ppbv	98
7) Chloroethane	3.52	64	268581	22.891	ppbv #	84
9) Propene	2.95	41	3737895	159.243	ppbv	91
11) Trichlorofluoromethane	3.91	101	1719719m	22.498	ppbv	
15) Acetone	3.81	43	5755384m	91.820	ppbv	
17) tert-Butyl alcohol	4.27	59	3625477	73.353	ppbv #	52
19) Isopropyl Alcohol	3.93	45	619363m	16.492	ppbv	
20) Methylene Chloride	4.32	84	2428541	108.557	ppbv #	10
26) Hexane	5.60	57	40032443m	846.000	ppbv	
27) Carbon Disulfide	4.56	76	1349598	24.414	ppbv #	70
30) Cyclohexane	7.35	84	32600720	900.538	ppbv #	9
36) Benzene	7.04	78	1350825m	62.713	ppbv	
44) 2,2,4-Trimethylpentane	8.21	57	14672807m	389.803	ppbv	
47) 1,1,2-Trichloroethane	9.82	97	11421198m	1244.484	ppbv	
52) Tetrachloroethene	11.54	164	85597m	10.756	ppbv	
62) Isopropylbenzene	14.85	105	122992	5.392	ppbv	97
64) n-propylbenzene	15.72	120	15319m	2.679	ppbv	
65) tert-Butylbenzene	16.88	119	40470m	2.100	ppbv	
72) 4-Ethyltoluene	15.98	105	72305m	4.190	ppbv	
73) 1,3,5-Trimethylbenzene	16.14	105	67053m	4.051	ppbv	
74) 1,2,4-Trimethylbenzene	16.88	105	164817	9.160	ppbv #	69

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

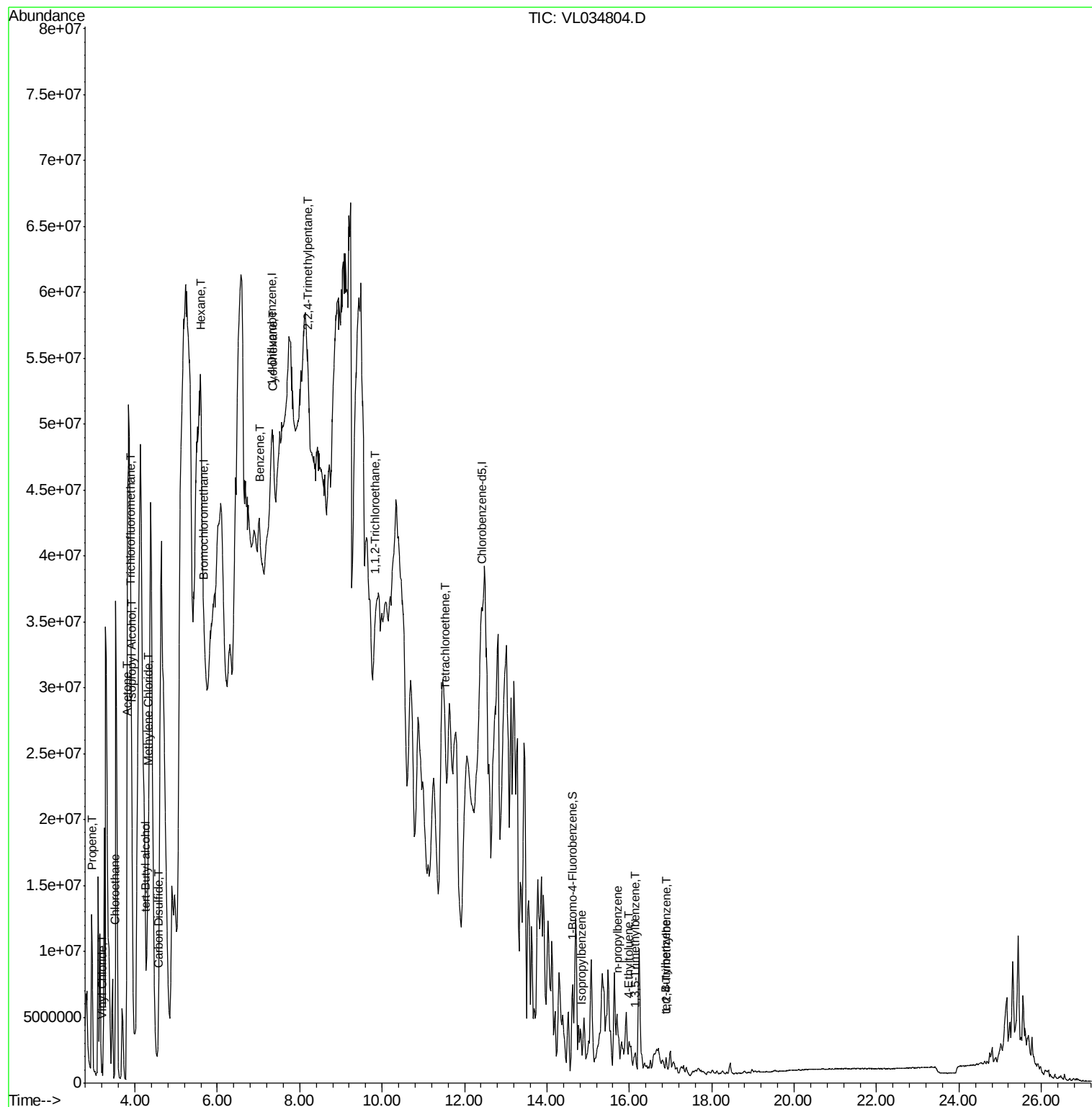
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL030520\
Data File : VL034804.D
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Misc : 400ml/MSVOA L
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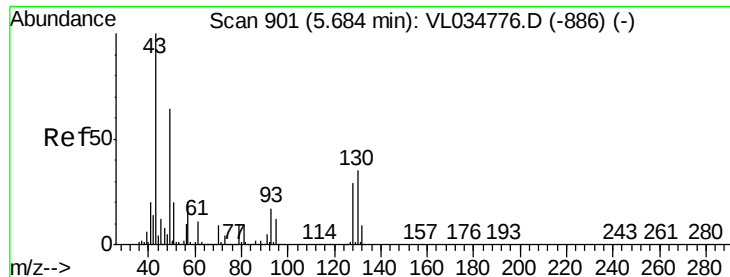
Instrument :
MSVOA_L
ClientSampleId :
SS-5-4

Manual Integrations
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Quant Time: Mar 06 12:22:12 2020
Quant Method : Z:\VOASRV\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: 5.68 min Scan# 901

Delta R.T. -0.00 min

Lab File: VL034804.D

Acq: 5 Mar 2020 20:28

Instrument :

MSVOA_L

ClientSampleId :

SS-5-4

Tot Ion: 49 Resp: 523437

Ion Ratio Lower Upper

49 100

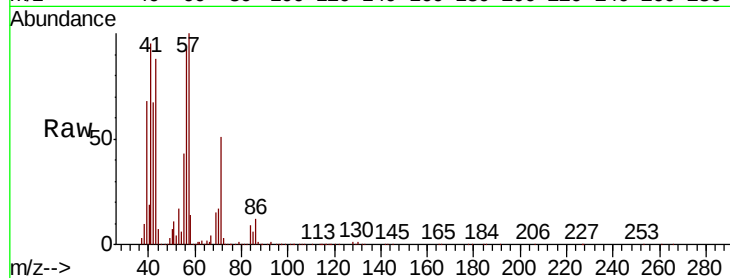
128 26.2 21.6 64.6

130 35.0 27.4 82.2

Manual Integrations
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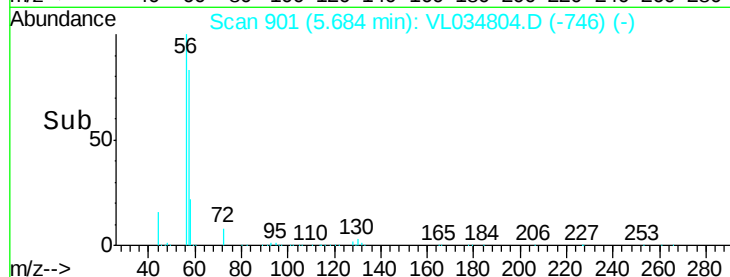


Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0

Time-->

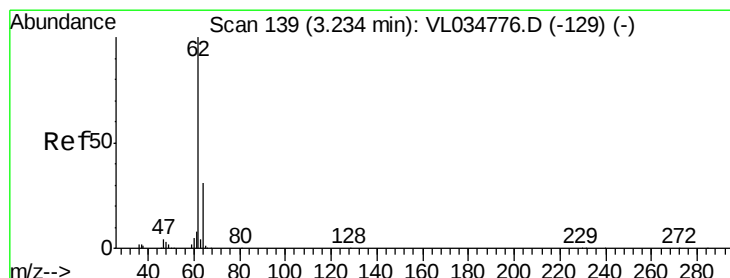


Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0

Time-->



#5

Vinyl Chloride

Concen: 30.700 ppbv

RT: 3.20 min Scan# 130

Delta R.T. -0.03 min

Lab File: VL034804.D

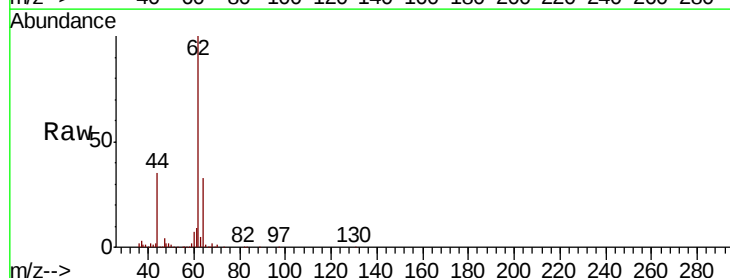
Acq: 5 Mar 2020 20:28

Tgt Ion: 62 Resp: 1041737

Ion Ratio Lower Upper

62 100

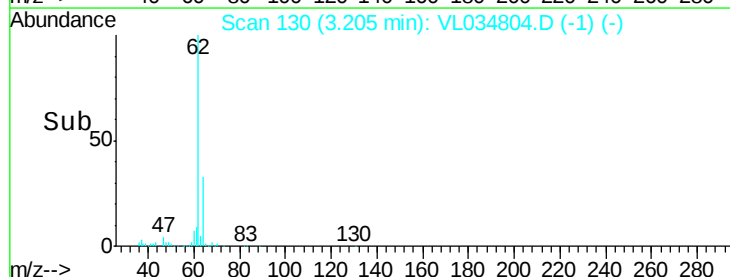
64 32.7 25.1 37.7



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0

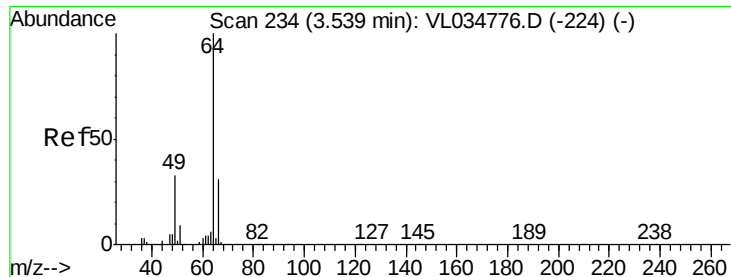
Time-->



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0

Time-->



#7

Chloroethane

Concen: 22.891 ppbv

RT: 3.52 min Scan# 227

Delta R.T. -0.02 min

Lab File: VL034804.D

Acq: 5 Mar 2020 20:28

Instrument :

MSVOA_L

ClientSampled :

SS-5-4

Tot Ion: 64 Resp: 268581

Ion Ratio Lower Upper

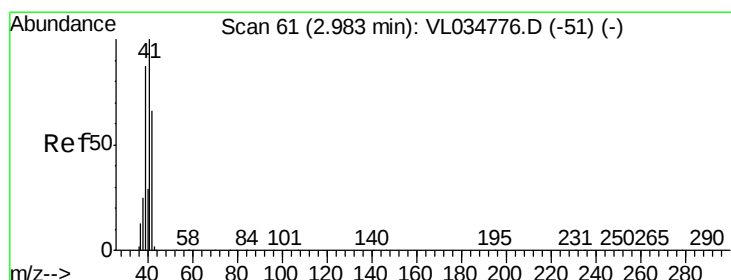
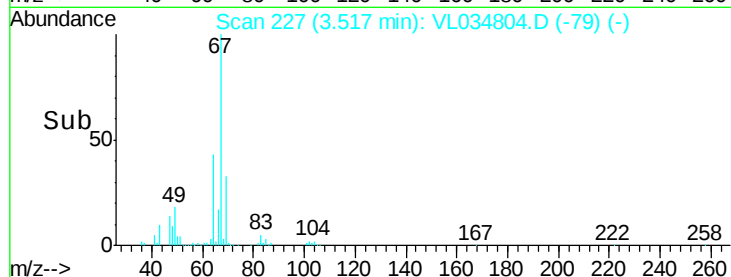
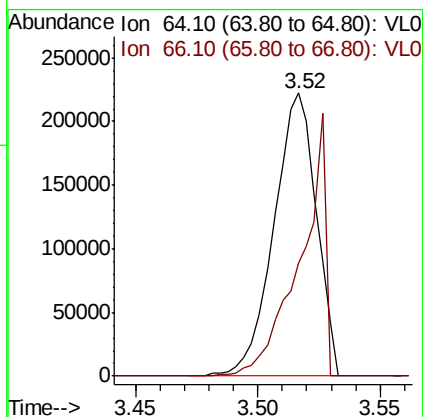
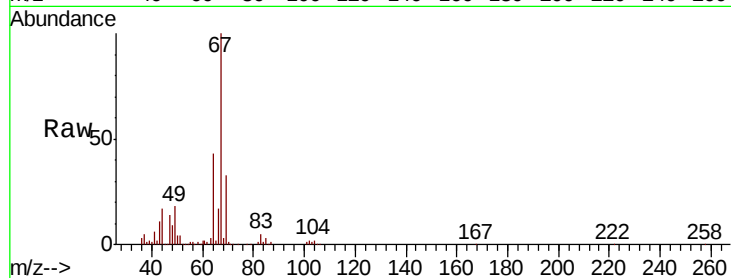
64 100

66 40.0 24.8 37.2#

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#9

Propene

Concen: 159.243 ppbv

RT: 2.95 min Scan# 50

Delta R.T. -0.04 min

Lab File: VL034804.D

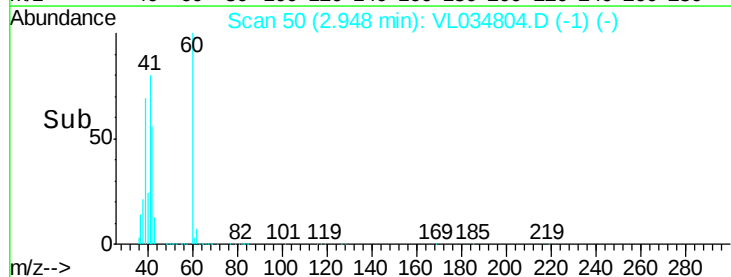
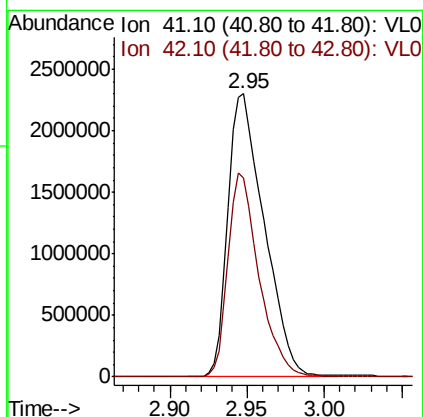
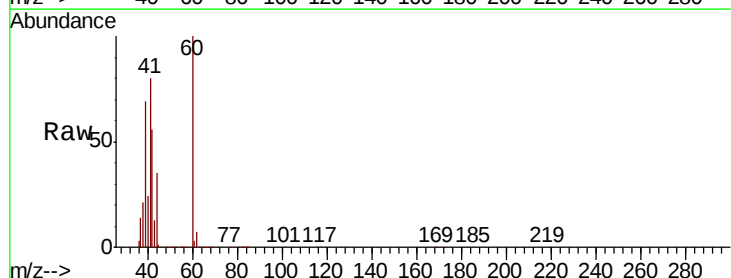
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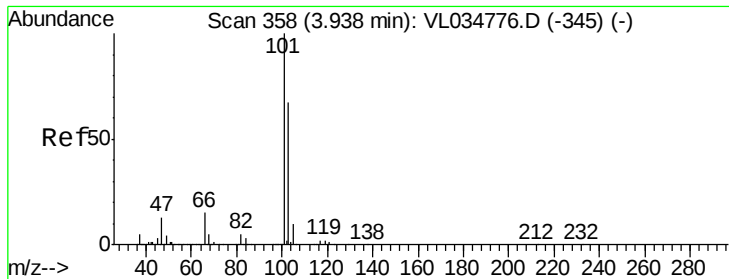
Tgt Ion: 41 Resp: 3737895

Ion Ratio Lower Upper

41 100

42 61.9 55.6 83.4





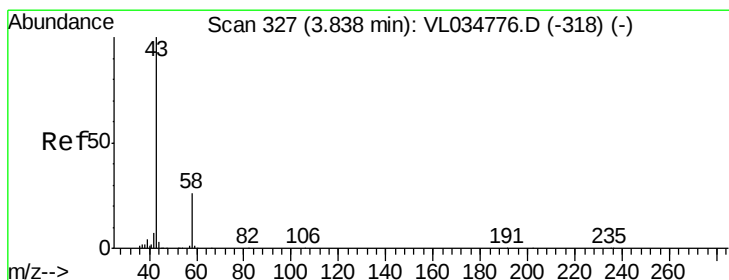
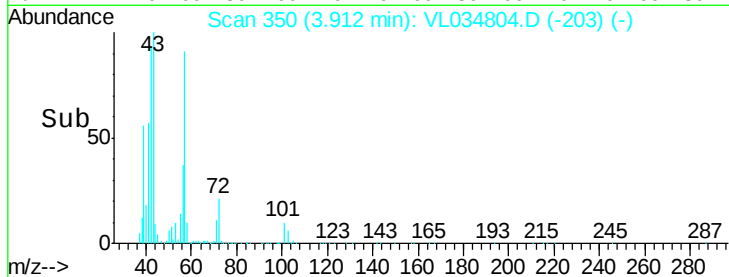
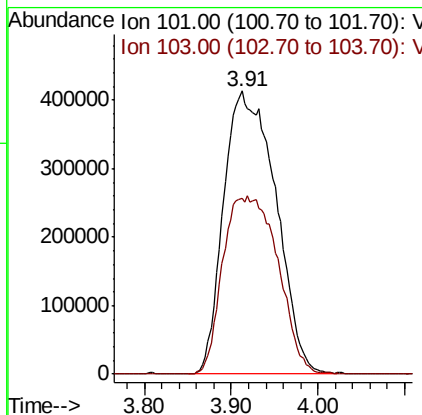
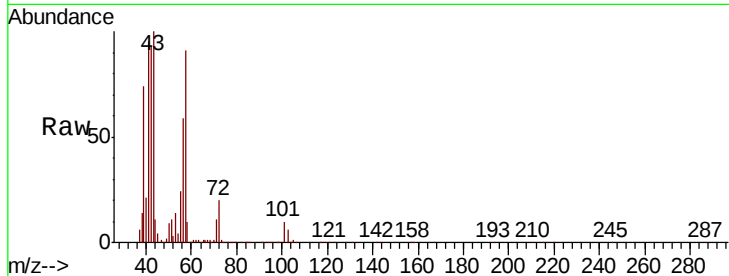
#11
 Trichlorofluoromethane
 Concen: 22.498 ppbv m
 RT: 3.91 min Scan# 350
 Delta R.T. -0.03 min
 Lab File: VL034804.D
 Acq: 5 Mar 2020 20:28

Instrument :
 MSVOA_L
 ClientSampleId :
 SS-5-4

Tot Ion:101 Resp: 1719719
 Ion Ratio Lower Upper
 101 100
 103 62.1 53.6 80.4

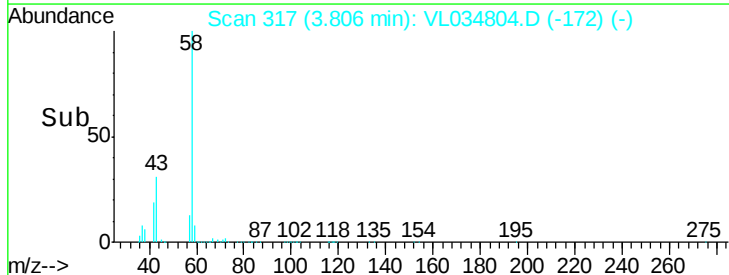
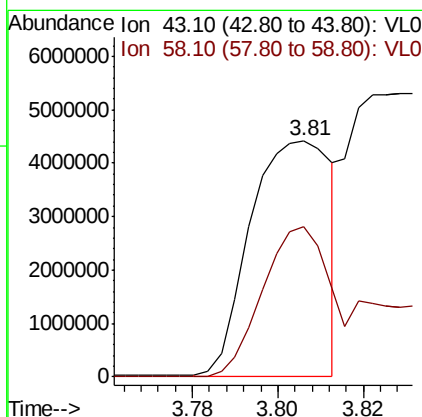
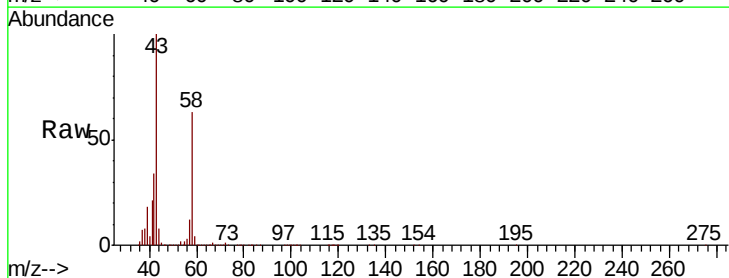
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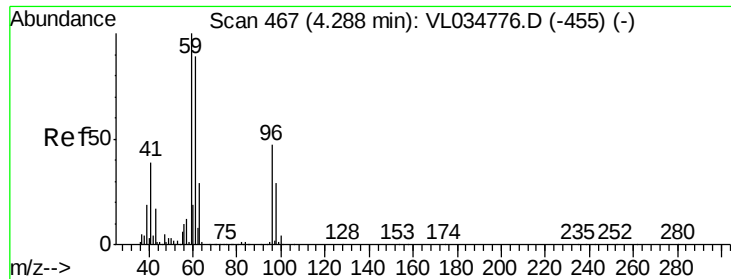
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#15
 Acetone
 Concen: 91.820 ppbv m
 RT: 3.81 min Scan# 317
 Delta R.T. -0.03 min
 Lab File: VL034804.D
 Acq: 5 Mar 2020 20:28

Tgt Ion: 43 Resp: 5755384
 Ion Ratio Lower Upper
 43 100
 58 0.0 21.0 31.6#





#17

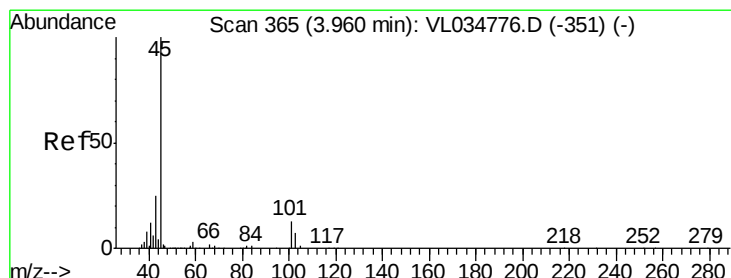
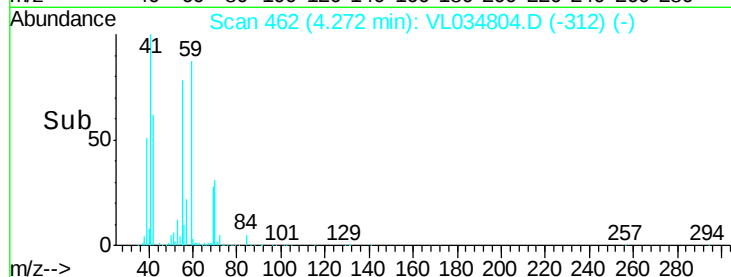
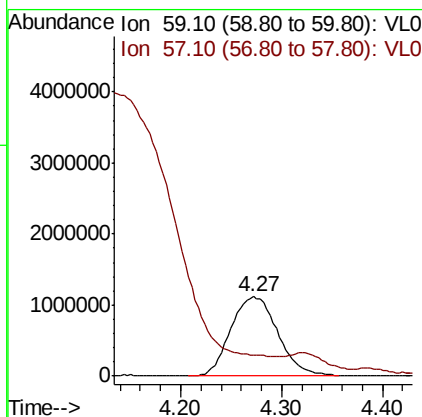
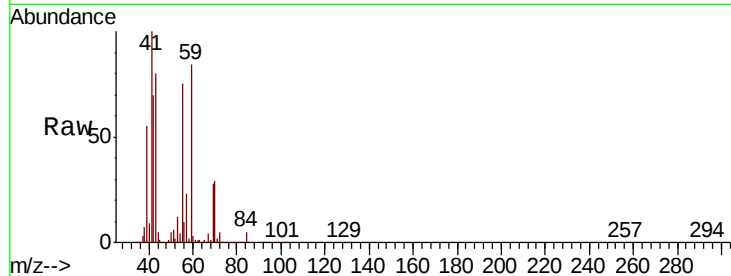
tert-Butyl alcohol
 Concen: 73.353 ppbv
 RT: 4.27 min Scan# 462
 Delta R.T. -0.02 min
 Lab File: VL034804.D
 Acq: 5 Mar 2020 20:28

Instrument :
 MSVOA_L
 ClientSampleId :
 SS-5-4

Tot Ion: 59 Resp: 3625477
 Ion Ratio Lower Upper
 59 100
 57 29.0 8.6 13.0#

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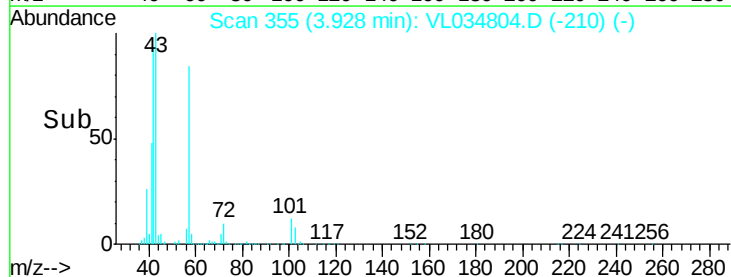
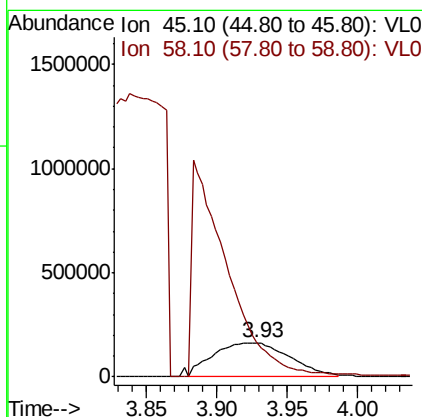
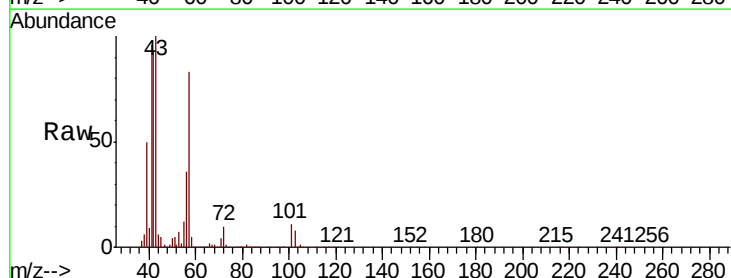
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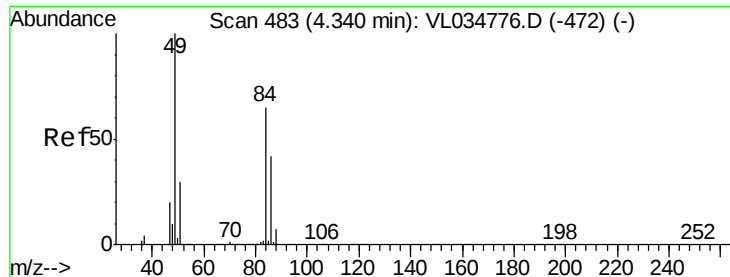


#19

Isopropyl Alcohol
 Concen: 16.492 ppbv m
 RT: 3.93 min Scan# 355
 Delta R.T. -0.03 min
 Lab File: VL034804.D
 Acq: 5 Mar 2020 20:28

Tgt Ion: 45 Resp: 619363
 Ion Ratio Lower Upper
 45 100
 58 0.0 1.8 2.8#





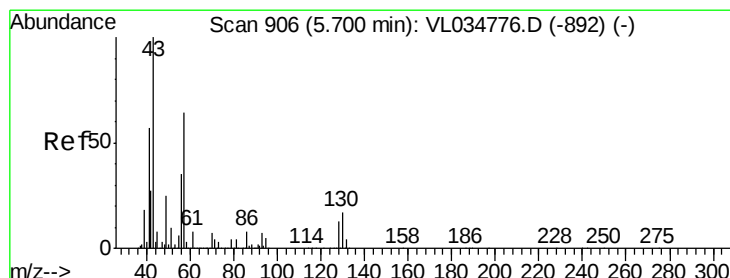
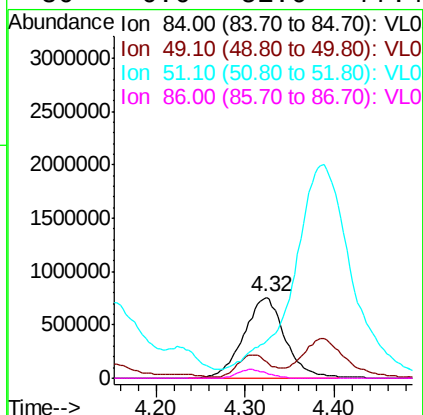
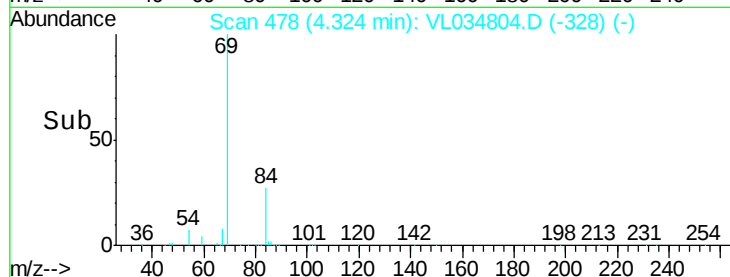
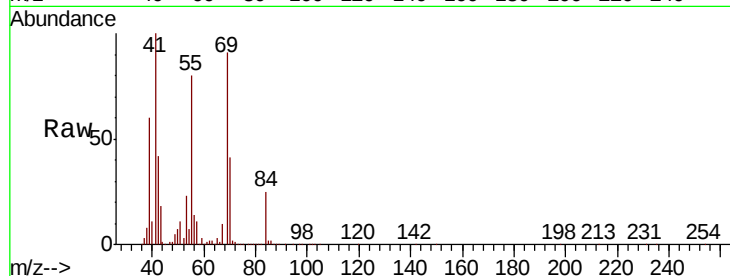
#20
Methvlene Chloride
Concen: 108.557 ppbv
RT: 4.32 min Scan# 478
Delta R.T. -0.02 min
Lab File: VL034804.D
Acq: 5 Mar 2020 20:28

Instrument :
MSVOA_L
ClientSampled :
SS-5-4

Tot Ion	Ratio	Lower	Upper
84	100		
49	15.7	123.2	184.8#
51	11.4	37.4	56.2#
86	6.6	51.6	77.4#

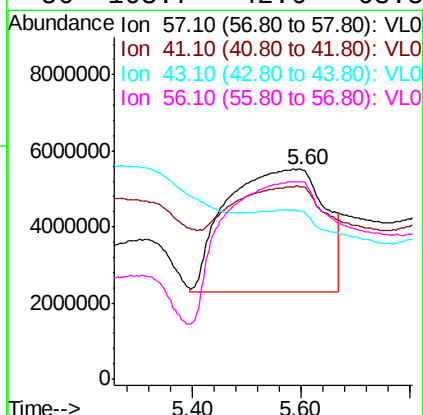
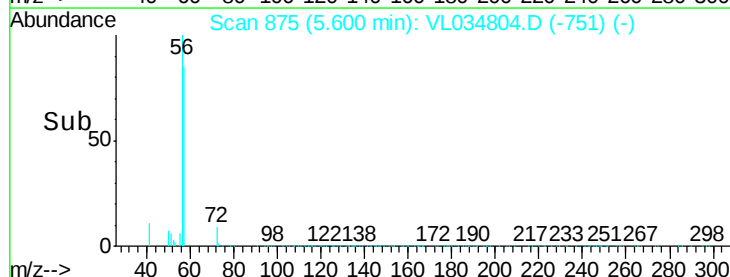
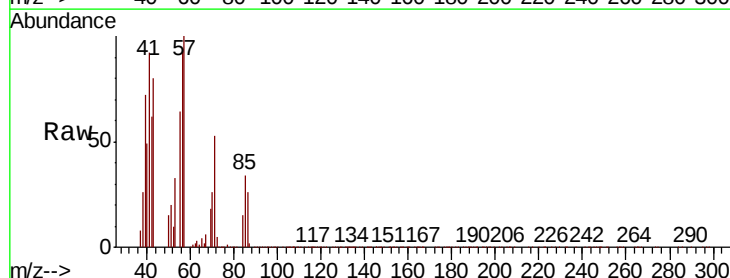
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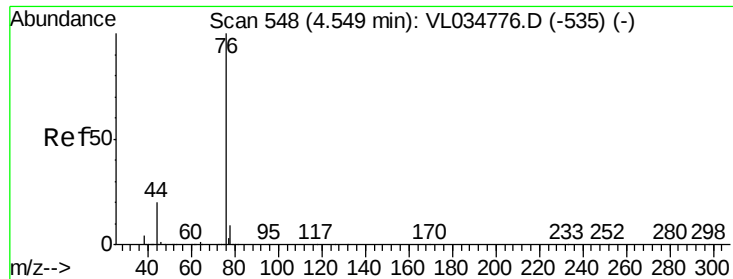
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#26
Hexane
Concen: 846.000 ppbv m
RT: 5.60 min Scan# 875
Delta R.T. -0.10 min
Lab File: VL034804.D
Acq: 5 Mar 2020 20:28

Tgt Ion	Ratio	Lower	Upper
57	100		
41	0.0	72.0	108.0#
43	0.0	179.1	268.7#
56	163.7	42.6	63.8#





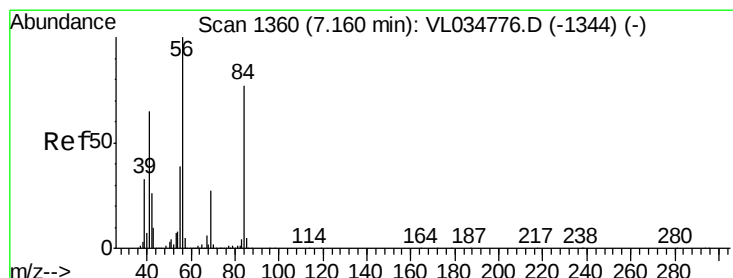
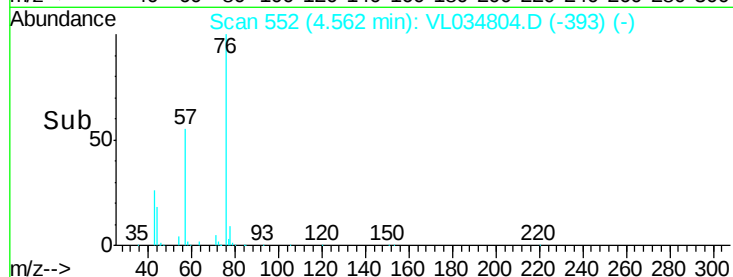
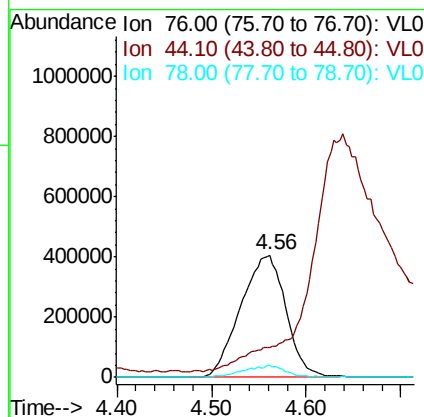
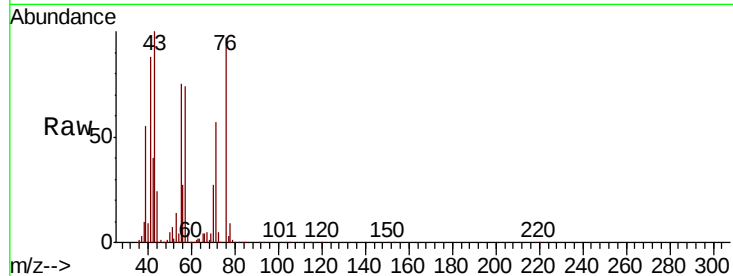
#27
Carbon Disulfide
Concen: 24.414 ppbv
RT: 4.56 min Scan# 552
Delta R.T. 0.01 min
Lab File: VL034804.D
Acq: 5 Mar 2020 20:28

Instrument :
MSVOA_L
ClientSampled :
SS-5-4

Tot Ion: 76 Resp: 1349598
Ion Ratio Lower Upper
76 100
44 0.0 16.1 24.1#
78 9.1 7.5 11.3

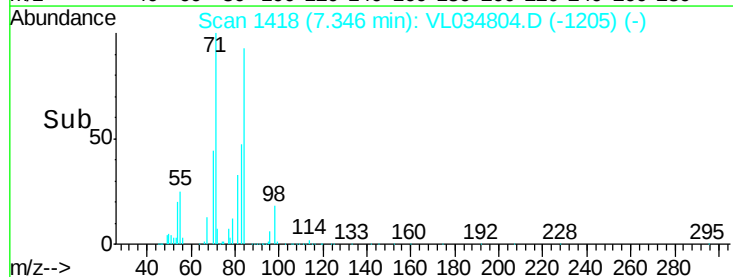
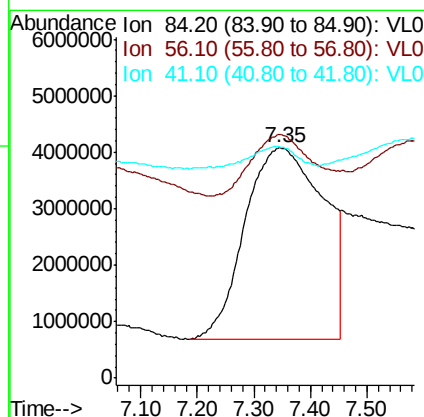
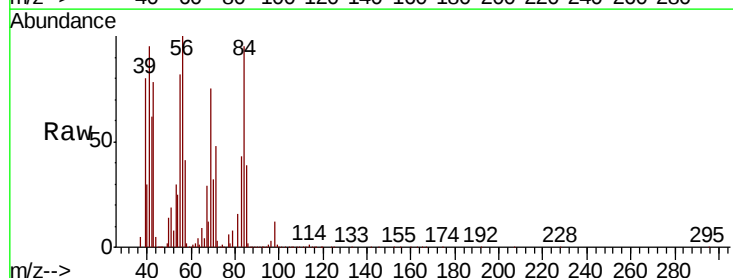
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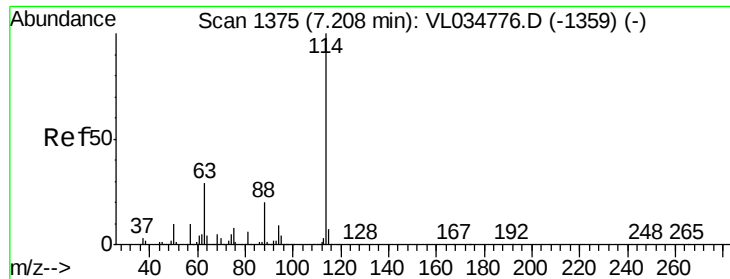
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#30
Cyclohexane
Concen: 900.538 ppbv
RT: 7.35 min Scan# 1418
Delta R.T. 0.19 min
Lab File: VL034804.D
Acq: 5 Mar 2020 20:28

Tgt Ion: 84 Resp: 32600720
Ion Ratio Lower Upper
84 100
56 26.7 113.2 169.8#
41 7.2 70.2 105.4#





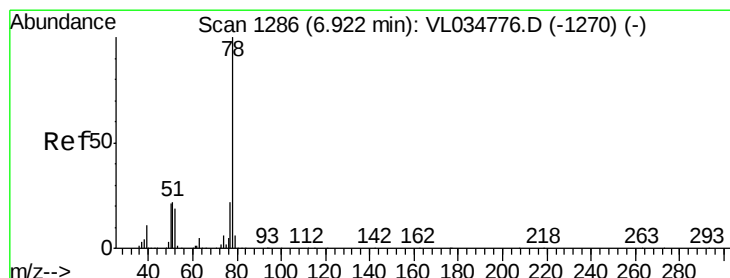
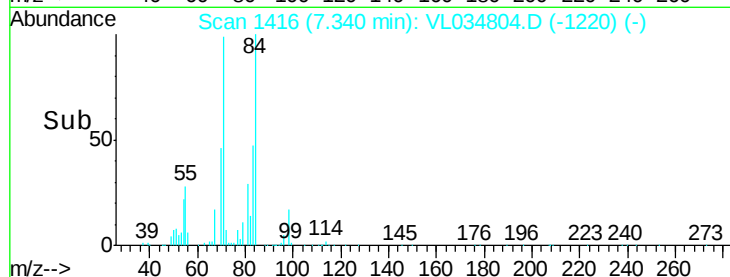
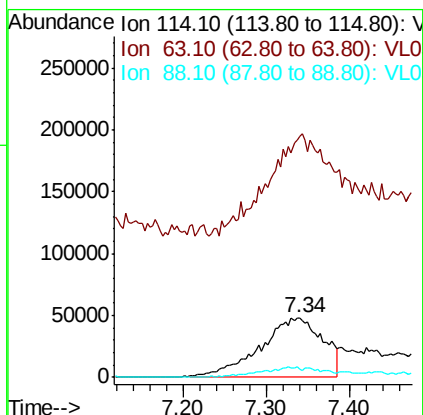
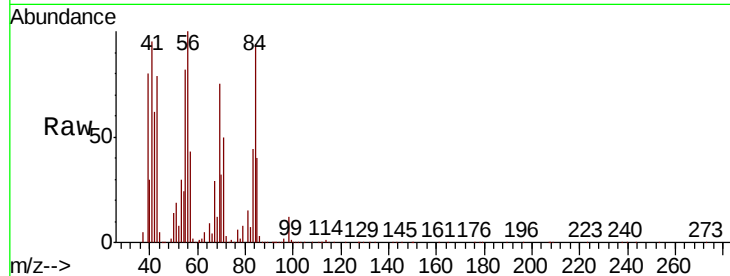
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv m
 RT: 7.34 min Scan# 1416
 Delta R.T. 0.13 min
 Lab File: VL034804.D
 Acq: 5 Mar 2020 20:28

Instrument :
 MSVOA_L
 ClientSampled :
 SS-5-4

Tot Ion	Ratio	Lower	Upper
114	100		
63	0.0	23.6	35.4#
88	0.0	15.8	23.8#

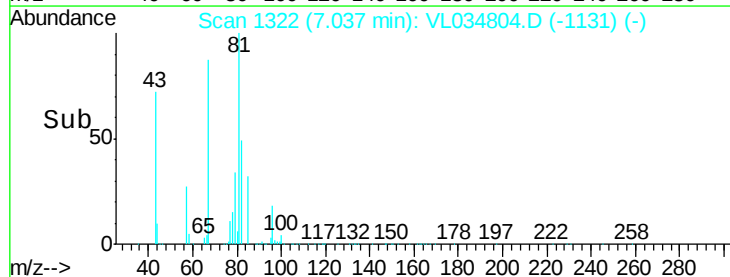
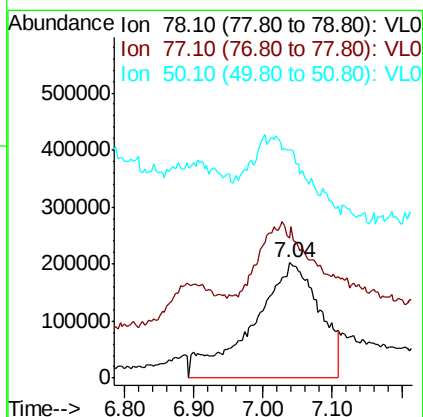
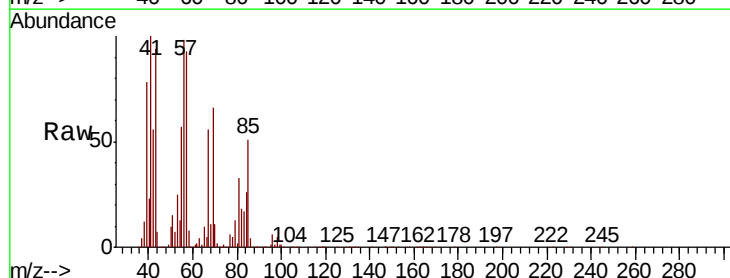
Manual Integrations
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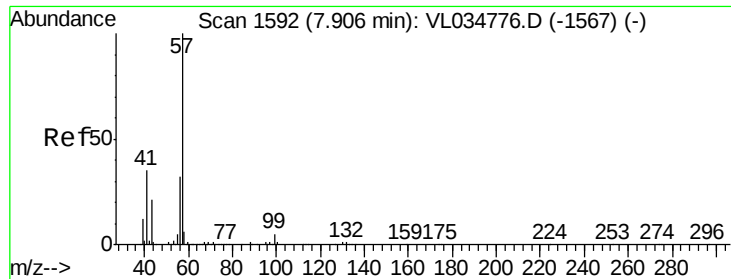
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#36
 Benzene
 Concen: 62.713 ppbv m
 RT: 7.04 min Scan# 1322
 Delta R.T. 0.12 min
 Lab File: VL034804.D
 Acq: 5 Mar 2020 20:28

Tgt Ion	Ratio	Lower	Upper
78	100		
77	121.9	18.0	27.0#
50	197.8	16.9	25.3#





#44

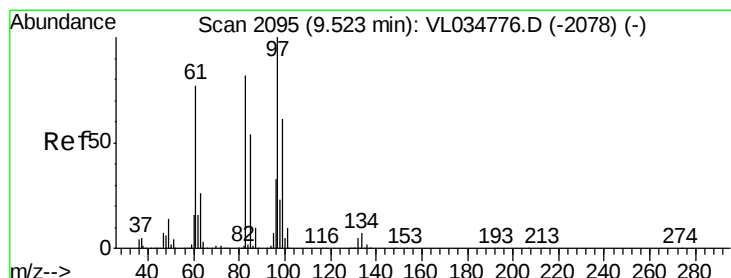
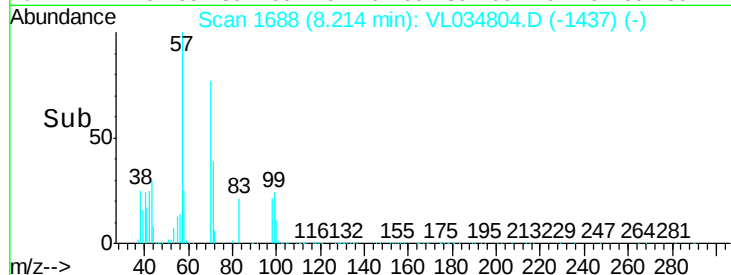
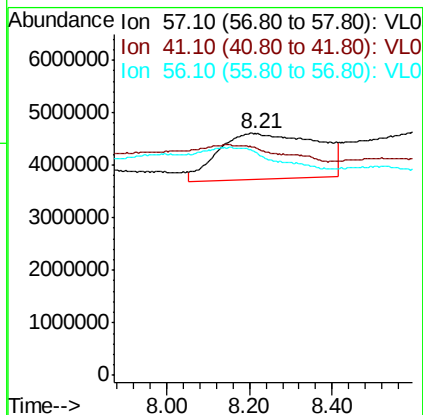
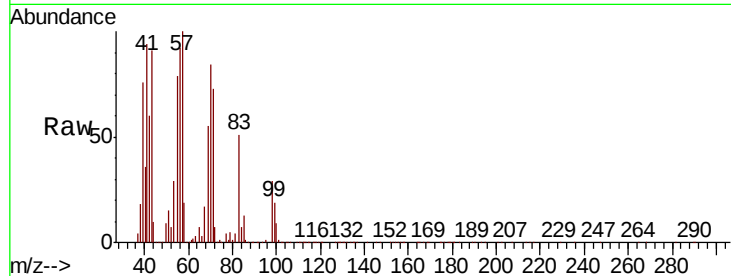
2,2,4-Trimethylpentane
Concen: 389.803 ppbv m
RT: 8.21 min Scan# 1688
Delta R.T. 0.31 min
Lab File: VL034804.D
Acq: 5 Mar 2020 20:28

Instrument :
MSVOA_L
ClientSampleId :
SS-5-4

Tot Ion: 57 Resp:14672807
Ion Ratio Lower Upper
57 100
41 0.0 27.4 41.0#
56 0.0 25.0 37.6#

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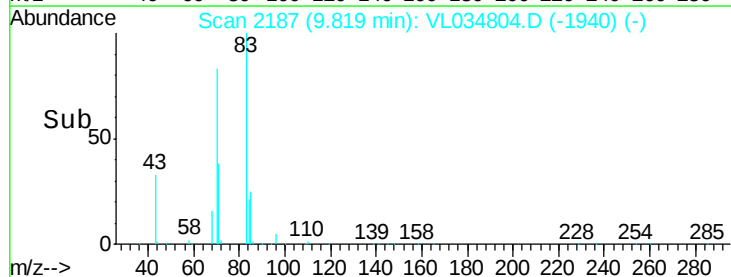
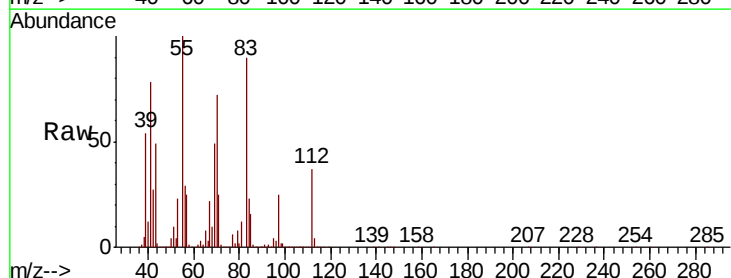
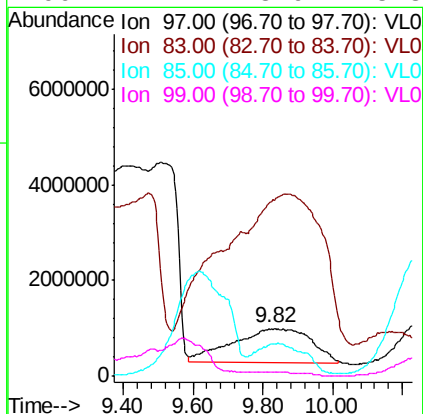
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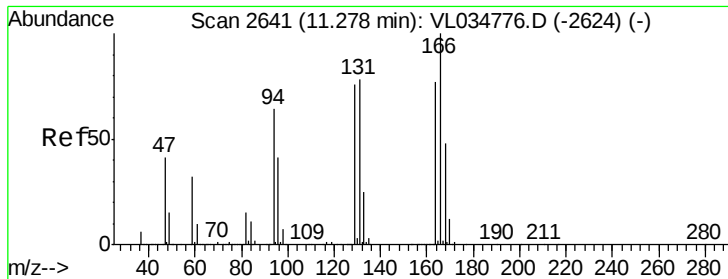


#47

1,1,2-Trichloroethane
Concen: 1244.484 ppbv m
RT: 9.82 min Scan# 2187
Delta R.T. 0.30 min
Lab File: VL034804.D
Acq: 5 Mar 2020 20:28

Tgt Ion: 97 Resp:11421198
Ion Ratio Lower Upper
97 100
83 363.0 65.2 97.8#
85 65.0 43.6 65.4
99 7.4 48.9 73.3#





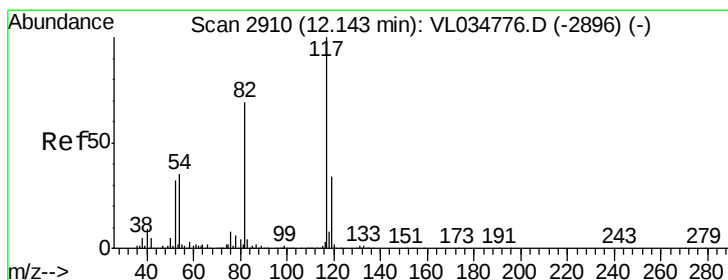
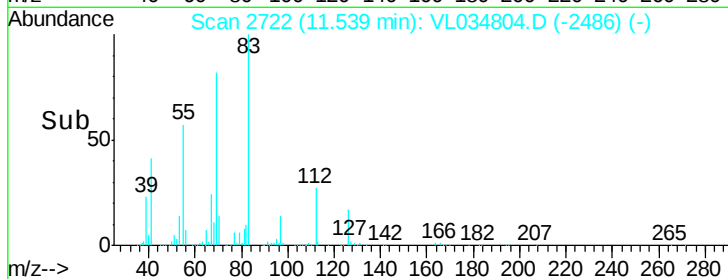
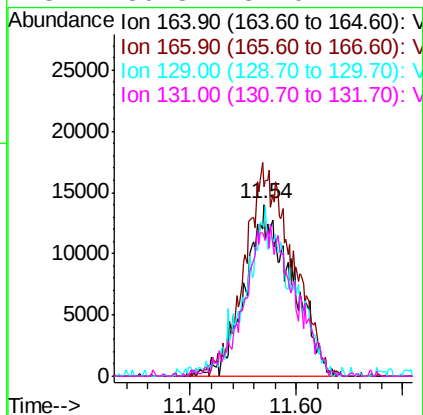
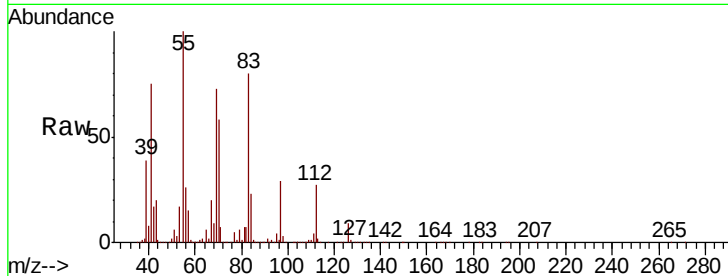
#52
Tetrachloroethene
Concen: 10.756 ppbv m
RT: 11.54 min Scan# 2722
Delta R.T. 0.26 min
Lab File: VL034804.D
Acq: 5 Mar 2020 20:28

Instrument :
MSVOA_L
ClientSampled :
SS-5-4

Tot Ion	Ratio	Lower	Upper
164	100		
166	110.3	103.3	154.9
129	87.1	79.0	118.4
131	80.8	81.0	121.4#

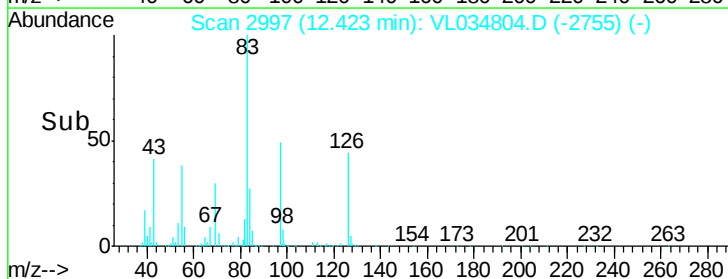
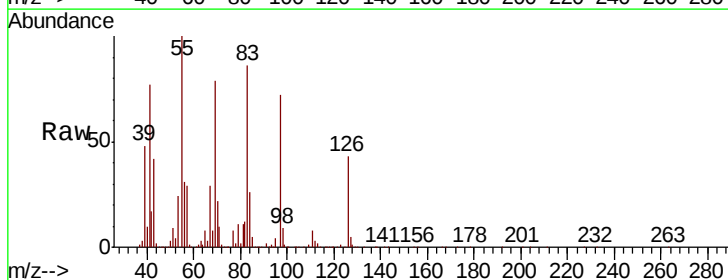
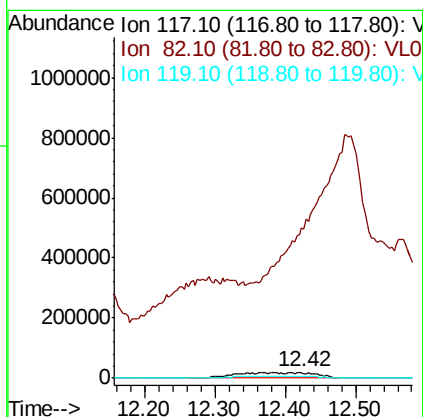
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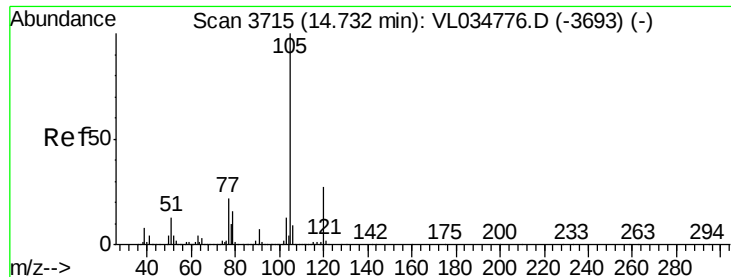
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#55
Chlorobenzene-d5
Concen: 10.000 ppbv m
RT: 12.42 min Scan# 2997
Delta R.T. 0.28 min
Lab File: VL034804.D
Acq: 5 Mar 2020 20:28

Tgt Ion	Ratio	Lower	Upper
117	100		
82	0.0	53.9	80.9#
119	0.0	25.0	37.4#





#62

Isopropylbenzene

Concen: 5.392 ppbv

RT: 14.85 min Scan# 3752

Delta R.T. 0.12 min

Lab File: VL034804.D

Acq: 5 Mar 2020 20:28

Instrument :

MSVOA_L

ClientSampled :

SS-5-4

Tot Ion:105 Resp: 122992

Ion Ratio Lower Upper

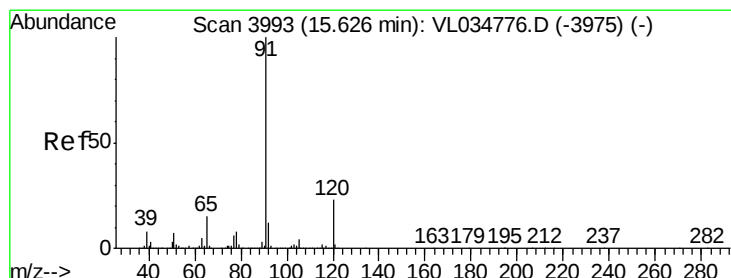
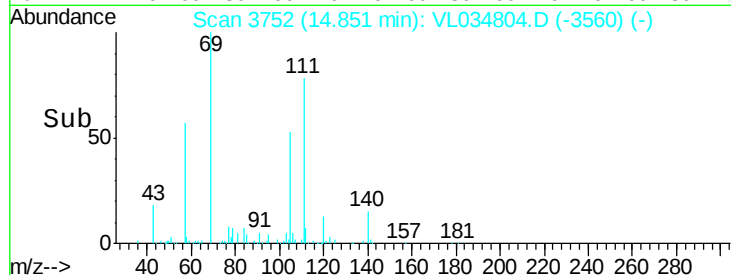
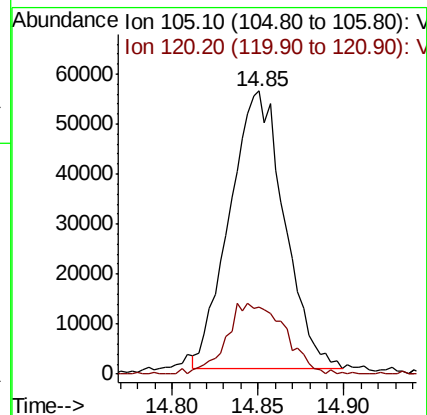
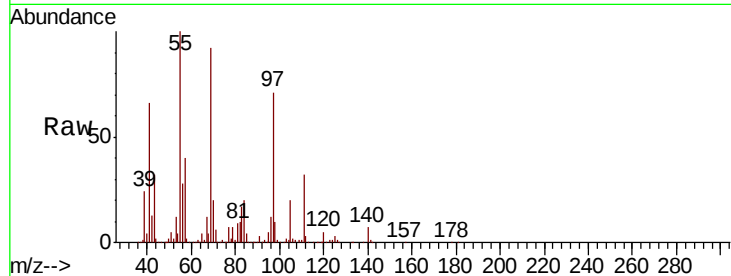
105 100

120 27.3 20.5 30.7

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#64

n-propylbenzene

Concen: 2.679 ppbv m

RT: 15.72 min Scan# 4021

Delta R.T. 0.09 min

Lab File: VL034804.D

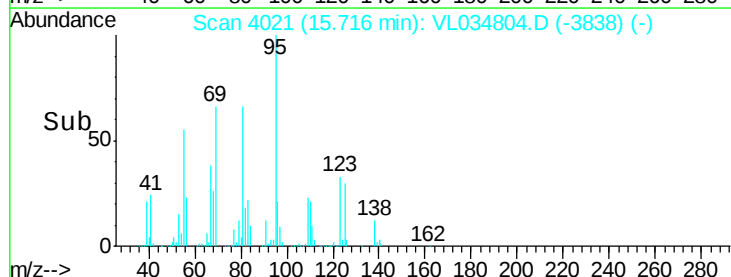
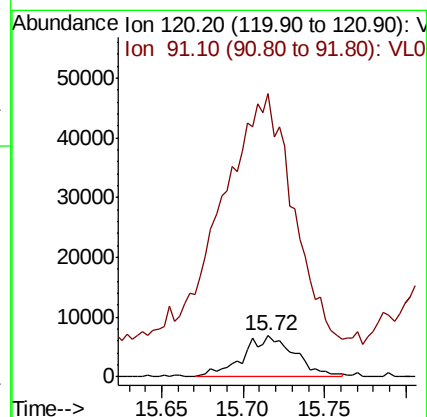
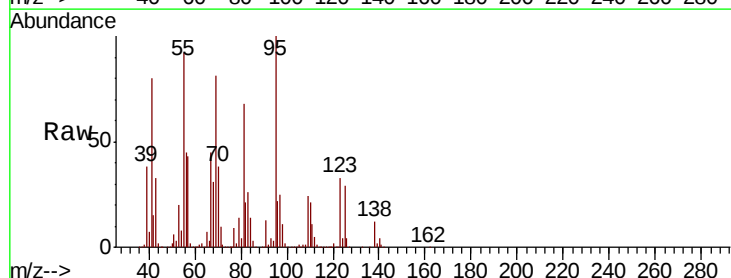
Acq: 5 Mar 2020 20:28

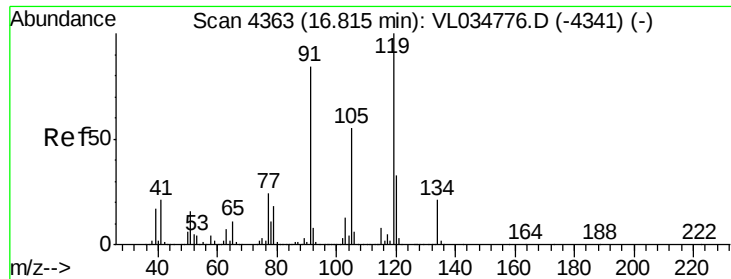
Tgt Ion:120 Resp: 15319

Ion Ratio Lower Upper

120 100

91 0.0 379.4 569.2#





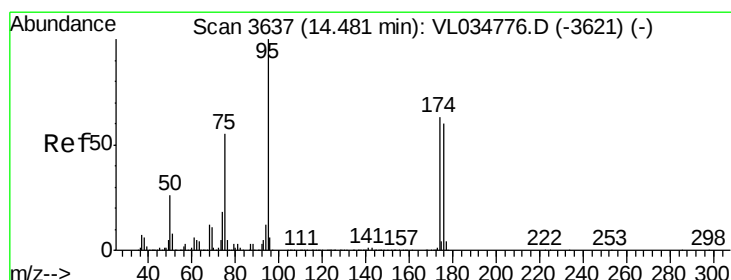
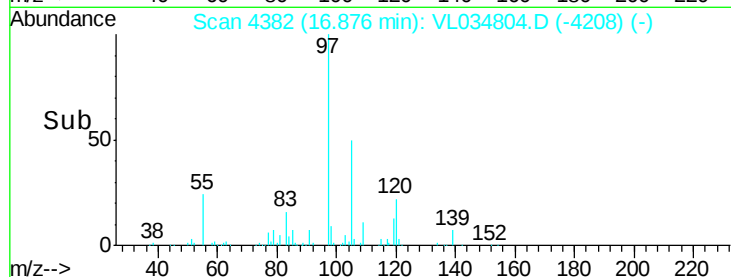
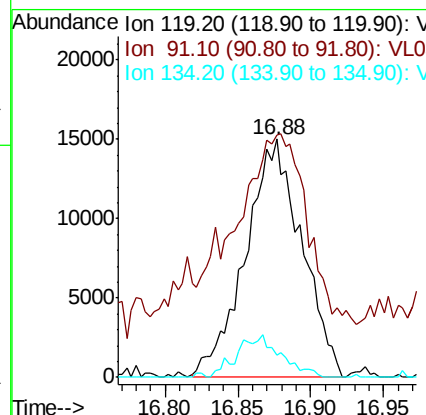
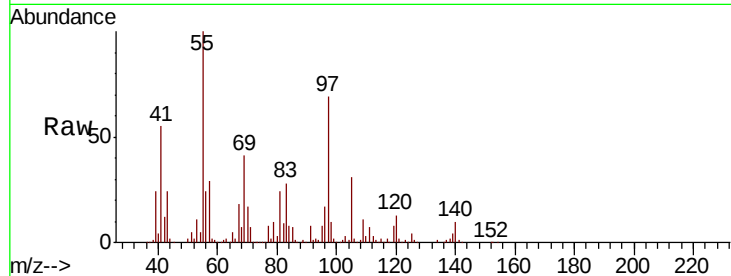
#65
tert-Butylbenzene
Concen: 2.100 ppbv m
RT: 16.88 min Scan# 4382
Delta R.T. 0.06 min
Lab File: VL034804.D
Acq: 5 Mar 2020 20:28

Instrument :
MSVOA_L
ClientSampled :
SS-5-4

Tot Ion	Ratio	Lower	Upper
119	100		
91	0.0	69.8	104.6#
134	0.0	15.9	23.9#

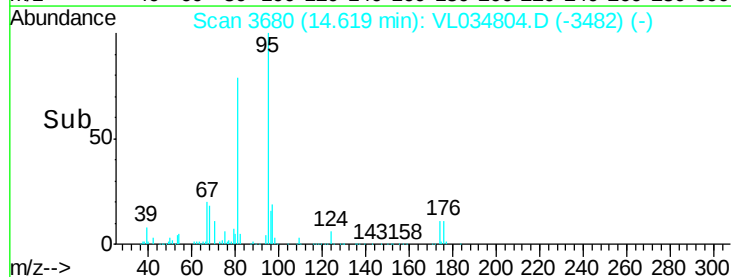
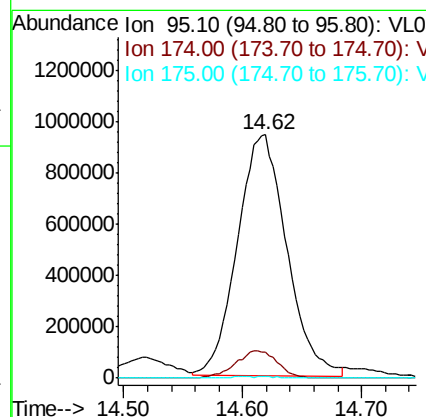
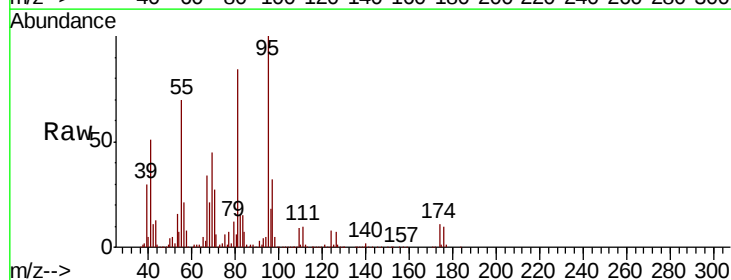
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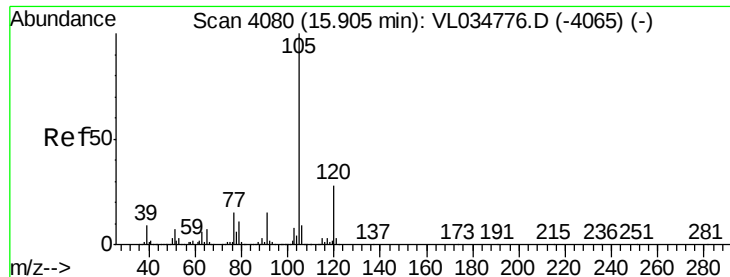
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#68
1-Bromo-4-Fluorobenzene
Concen: 225.584 ppbv
RT: 14.62 min Scan# 3680
Delta R.T. 0.14 min
Lab File: VL034804.D
Acq: 5 Mar 2020 20:28

Tgt Ion	Ratio	Lower	Upper
95	100		
174	9.8	50.6	76.0#
175	0.7	3.8	5.6#





#72

4-Ethyltoluene

Concen: 4.190 ppbv m

RT: 15.98 min Scan# 4103

Delta R.T. 0.07 min

Lab File: VL034804.D

Acq: 5 Mar 2020 20:28

Instrument :

MSVOA_L

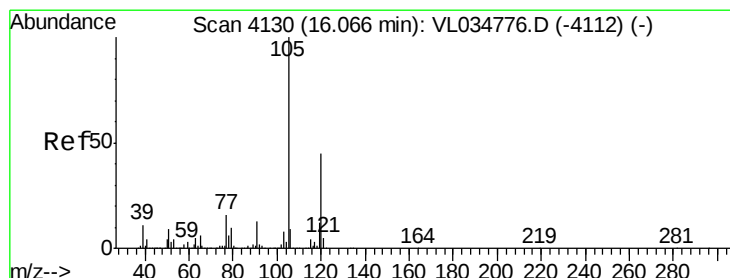
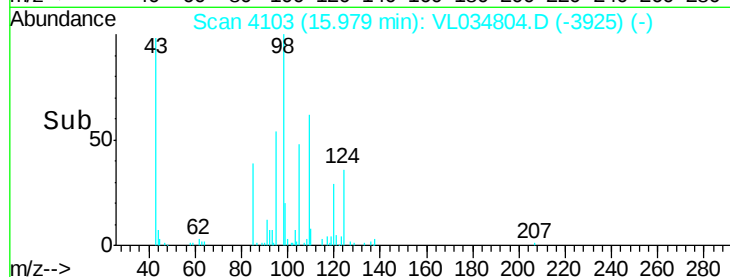
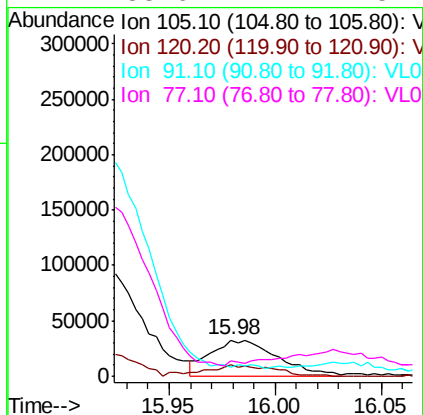
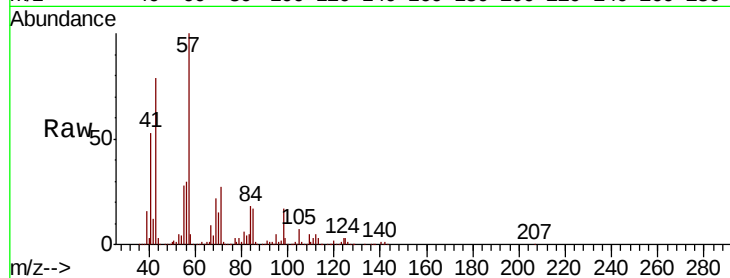
ClientSampled :

SS-5-4

Tot Ion	Ratio	Lower	Upper
105	100		
120	0.0	23.0	34.6#
91	21.6	11.1	16.7#
77	88.6	12.2	18.4#

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#73

1,3,5-Trimethylbenzene

Concen: 4.051 ppbv m

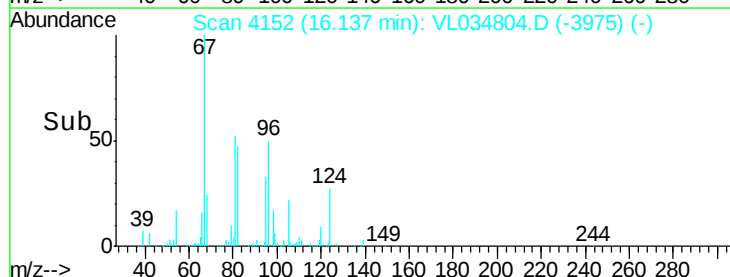
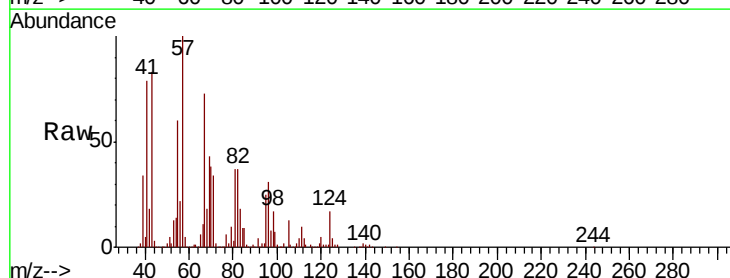
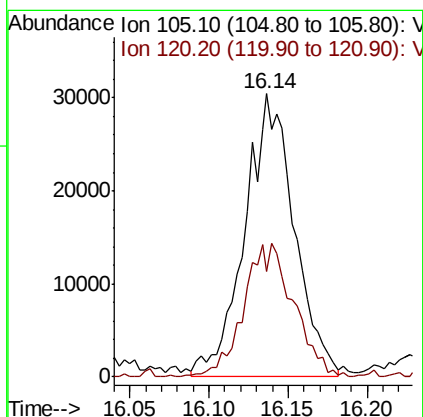
RT: 16.14 min Scan# 4152

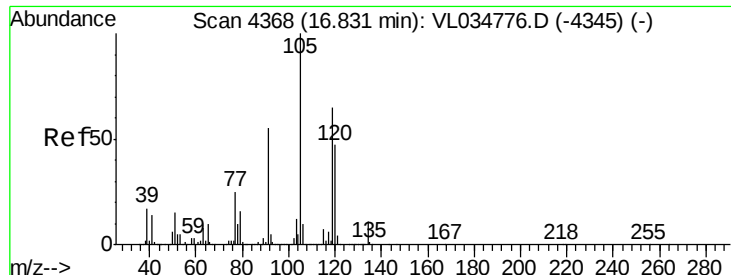
Delta R.T. 0.07 min

Lab File: VL034804.D

Acq: 5 Mar 2020 20:28

Tgt Ion	Ratio	Lower	Upper
105	100		
120	37.1	35.6	53.4





#74
 1,2,4-Trimethylbenzene
 Concen: 9.160 ppbv
 RT: 16.88 min Scan# 4384
 Delta R.T. 0.05 min
 Lab File: VL034804.D
 Acq: 5 Mar 2020 20:28

Instrument :
 MSVOA_L
 ClientSampleId :
 SS-5-4

Tot Ion:	105	Resp:	164817
Ion Ratio	Lower	Upper	
105	100		
120	42.0	37.8	56.6
91	13.9	43.8	65.8#
77	14.8	19.9	29.9#

Manual Integrations
 APPROVED

MMDadoda
 3/9/2020 9:19:11 AM

