

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL051420\
 Data File : VL035035.D
 Acq On : 15 May 2020 1:26
 Operator : SY/AP
 Sample : L2566-03
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SG-5

Manual Integrations
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 5/18/2020 6:48:03 PM

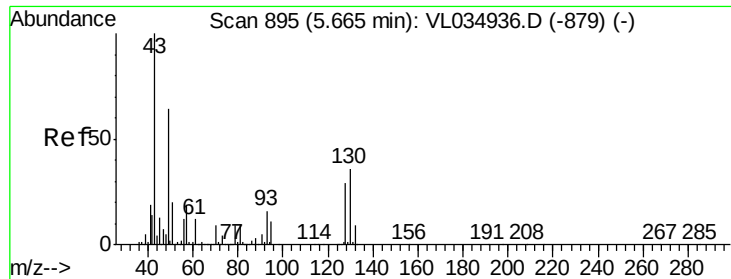
Quant Time: May 18 09:42:06 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL050620AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed May 0
 QLast Update : Wed May 06 14:49:39 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	992427	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	2307754	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.11	117	2304825	10.00	ppbv	0.00

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1-Bromo-4-Fluorobenzene	14.45	95	2053573	11.01	ppbv	0.00	
Spiked Amount	10.000	Range	65 - 135	Recovery	=	110.10%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.01	85	36882	0.262	ppbv	96
3) Chlorodifluoromethane	2.94	51	17525m	0.155	ppbv	
4) Chloromethane	3.10	50	11930	0.184	ppbv	99
9) Propene	2.97	41	31440	0.639	ppbv	88
10) Heptane	8.12	43	73640	0.598	ppbv	97
11) Trichlorofluoromethane	3.92	101	47287	0.326	ppbv	89
13) Ethanol	3.58	45	1328131	81.860	ppbv	99
15) Acetone	3.81	43	1512318m	11.527	ppbv	
17) tert-Butyl alcohol	4.28	59	208141m	1.783	ppbv	
19) Isopropyl Alcohol	3.95	45	905745	10.352	ppbv #	98
20) Methylene Chloride	4.32	84	308512	7.103	ppbv	86
26) Hexane	5.67	57	268552	2.811	ppbv #	56
29) Chloroform	5.74	83	15431m	0.099	ppbv	
30) Cyclohexane	7.13	84	49666	0.674	ppbv #	92
31) cis-1,2-Dichloroethene	5.54	61	9132	0.098	ppbv #	83
32) 1,1,1-Trichloroethane	6.50	97	27508m	0.195	ppbv	
34) 2-Butanone	5.23	43	141829	0.989	ppbv	99
35) Carbon Tetrachloride	7.01	117	6724m	0.046	ppbv	
36) Benzene	6.89	78	67564	0.355	ppbv	95
38) Trichloroethene	7.84	130	633387	8.593	ppbv	97
41) Tetrahydrofuran	6.05	42	19882m	0.263	ppbv	
44) 2,2,4-Trimethylpentane	7.87	57	797271	2.357	ppbv	94
52) Tetrachloroethene	11.25	164	3933969	58.148	ppbv	98
53) Toluene	9.82	91	1951520	9.676	ppbv	100
58) Ethyl Benzene	12.74	91	325037	1.140	ppbv	97
59) m/p-Xylene	13.00	91	848277m	3.383	ppbv	
60) o-Xylene	13.72	91	315039	1.273	ppbv	97
61) Styrene	13.56	104	625946	3.997	ppbv	99
62) Isopropylbenzene	14.70	105	5757649	15.585	ppbv	99
64) n-propylbenzene	15.60	120	19573m	0.207	ppbv	
69) p-Isopropyltoluene	17.69	119	61436m	0.166	ppbv	
73) 1,3,5-Trimethylbenzene	16.03	105	67909m	0.253	ppbv	
74) 1,2,4-Trimethylbenzene	16.80	105	230100m	0.785	ppbv	

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 892

Delta R.T. -0.01 min

Lab File: VL035035.D

Acq: 15 May 2020 1:26

Instrument :

MSVOA_L

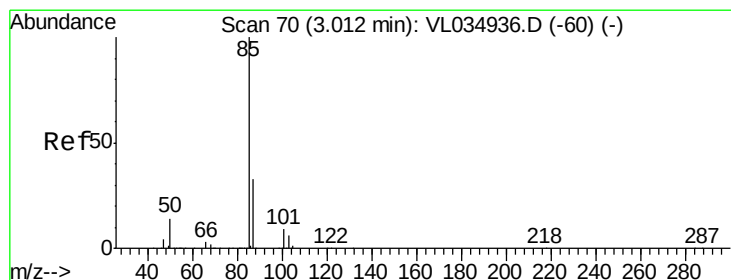
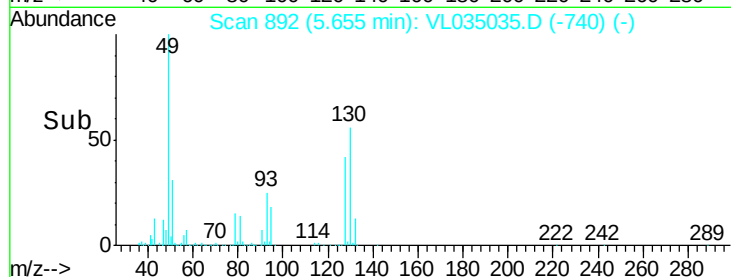
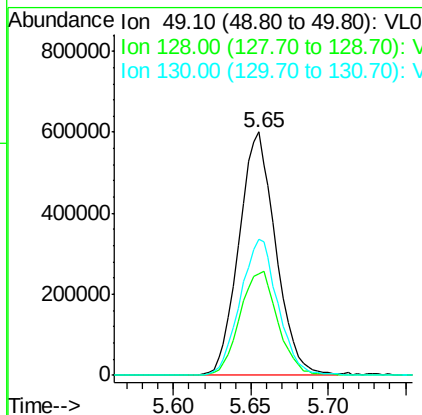
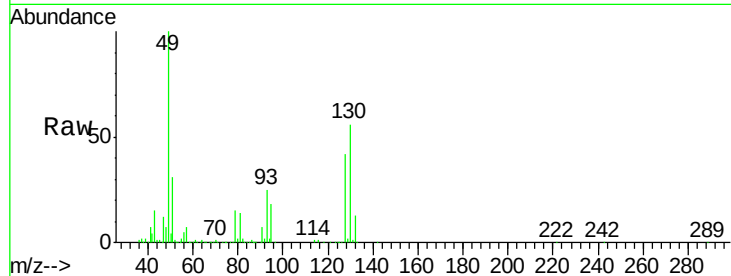
ClientSampled :

SG-5

Tot Ion	Ratio	Lower	Upper
49	100		
128	44.3	22.1	66.5
130	57.8	29.1	87.3

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#2

Dichlorodifluoromethane

Concen: 0.262 ppbv

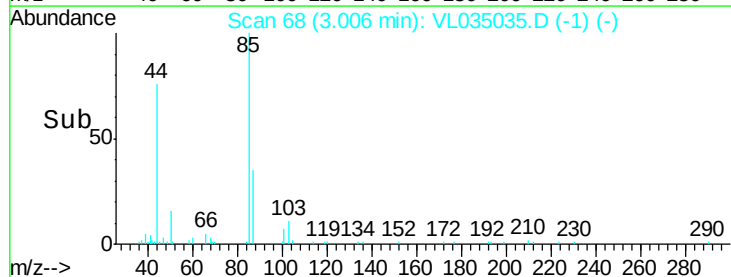
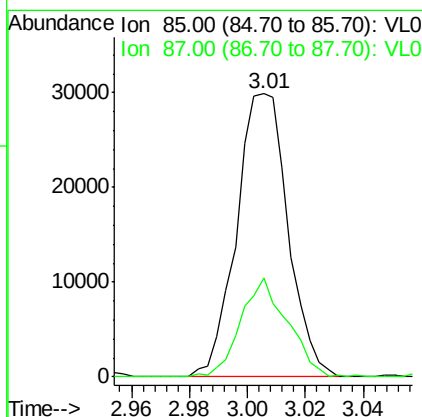
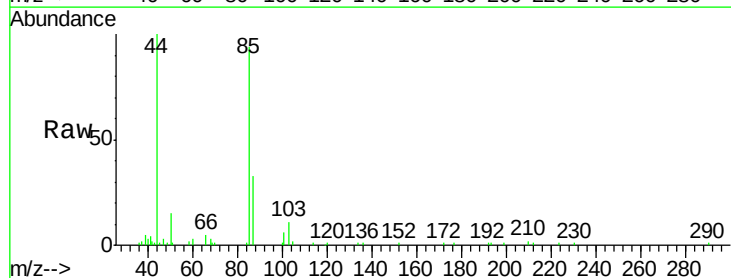
RT: 3.01 min Scan# 68

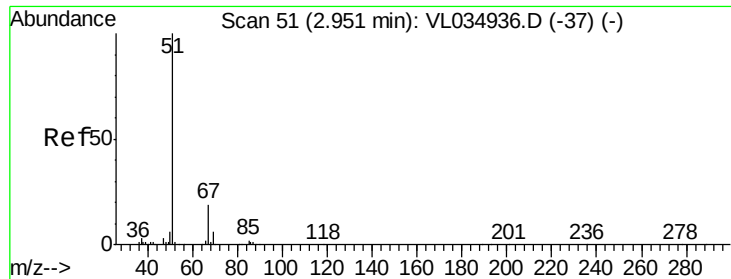
Delta R.T. -0.01 min

Lab File: VL035035.D

Acq: 15 May 2020 1:26

Tgt Ion	Ratio	Lower	Upper
85	100		
87	34.9	26.2	39.2





#3

Chlorodifluoromethane

Concen: 0.155 ppbv

RT: 2.94 min Scan# 49

Delta R.T. -0.01 min

Lab File: VL035035.D

Acq: 15 May 2020 1:26

Instrument :

MSVOA_L

ClientSampled :

SG-5

Tot Ion: 51 Resp: 17525

Ion Ratio Lower Upper

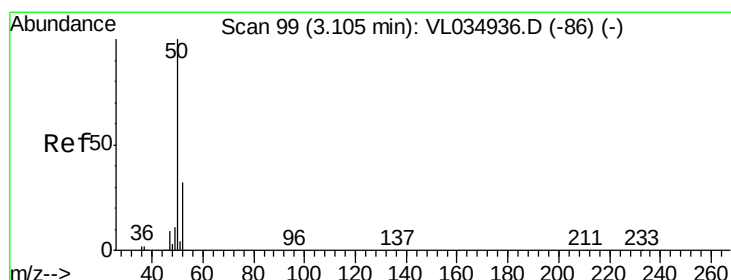
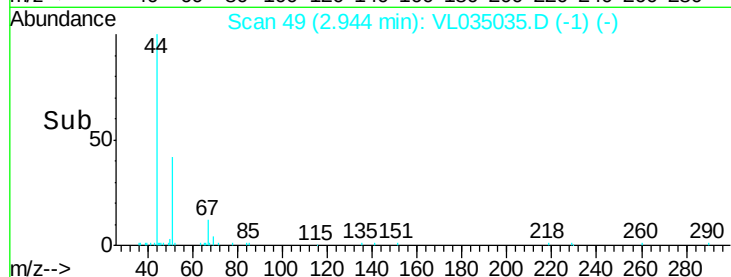
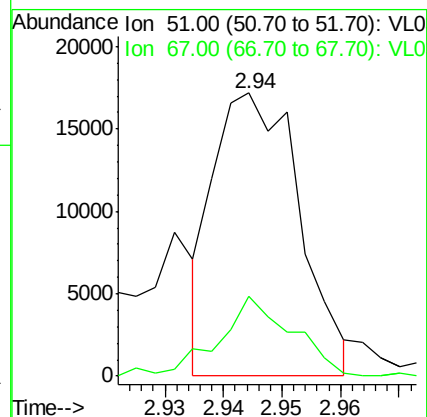
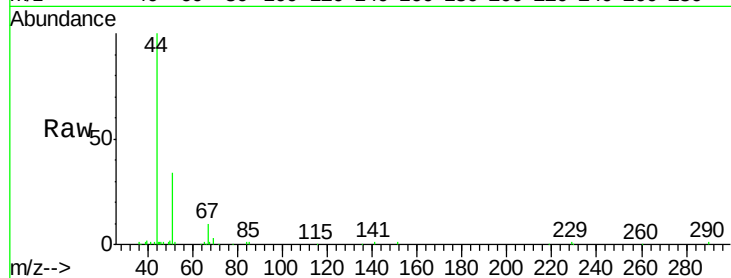
51 100

67 24.8 15.0 22.6#

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#4

Chloromethane

Concen: 0.184 ppbv

RT: 3.10 min Scan# 96

Delta R.T. -0.01 min

Lab File: VL035035.D

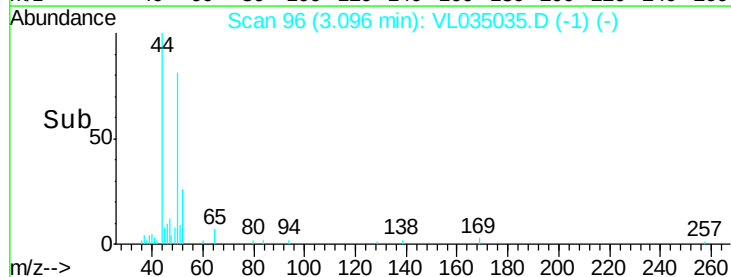
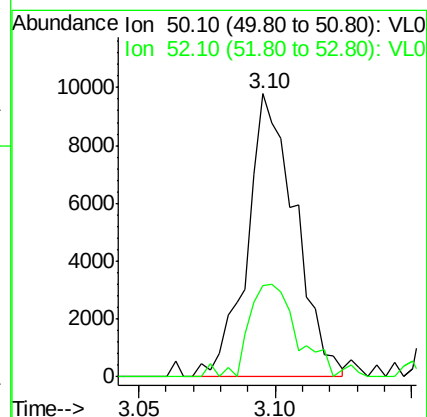
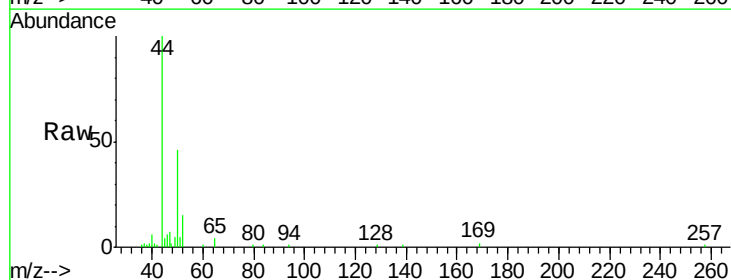
Acq: 15 May 2020 1:26

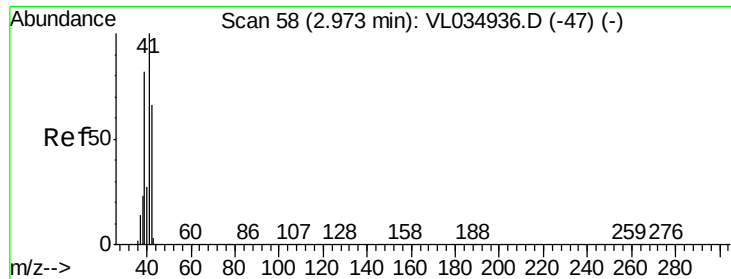
Tgt Ion: 50 Resp: 11930

Ion Ratio Lower Upper

50 100

52 32.1 25.4 38.2





#9

Propene

Concen: 0.639 ppbv

RT: 2.97 min Scan# 57

Delta R.T. -0.00 min

Lab File: VL035035.D

Acq: 15 May 2020 1:26

Instrument :

MSVOA_L

ClientSampleId :

SG-5

Tot Ion: 41 Resp: 31440

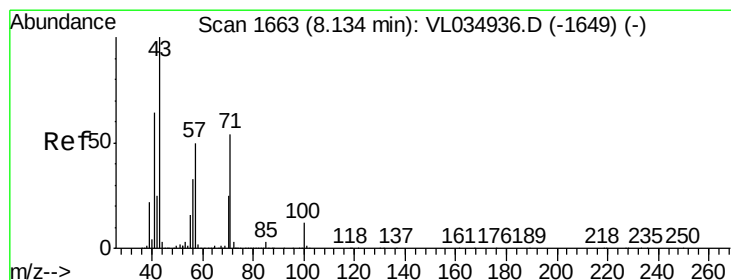
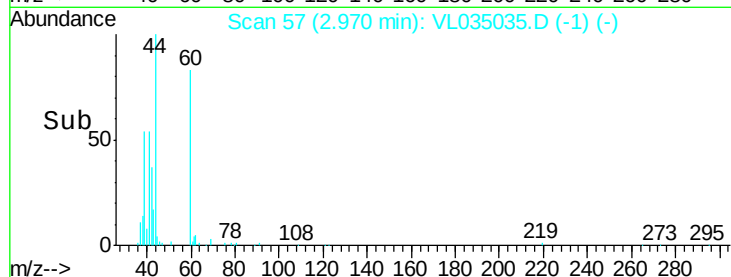
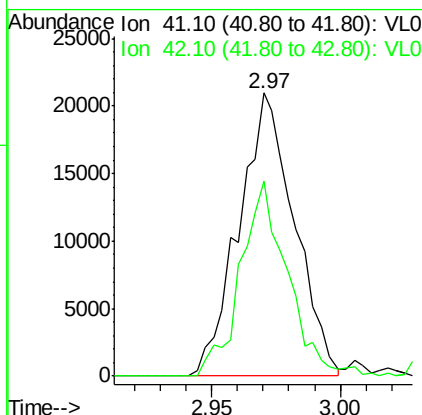
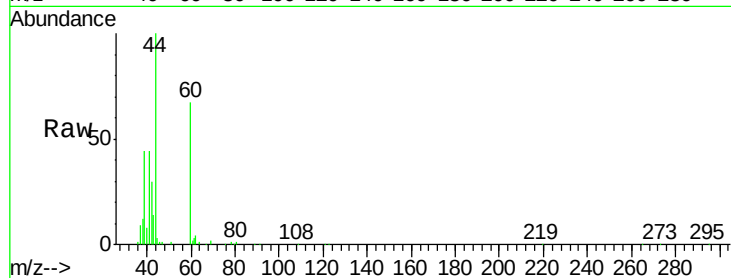
Ion Ratio Lower Upper

41 100

42 58.5 54.5 81.7

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#10

Heptane

Concen: 0.598 ppbv

RT: 8.12 min Scan# 1660

Delta R.T. -0.01 min

Lab File: VL035035.D

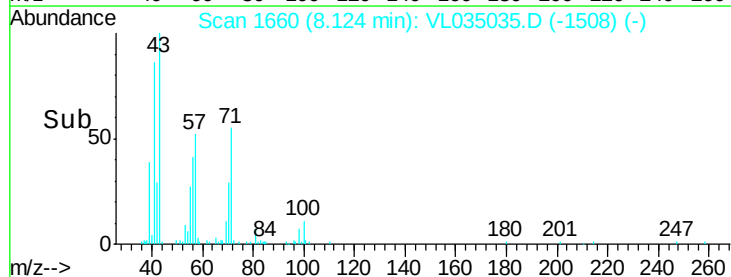
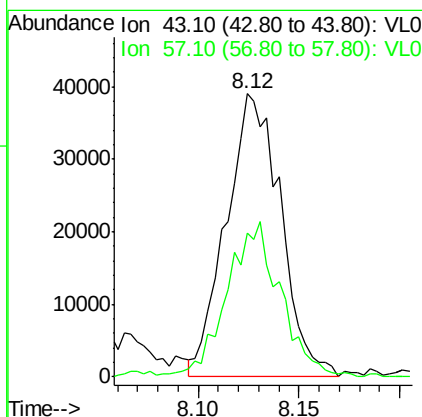
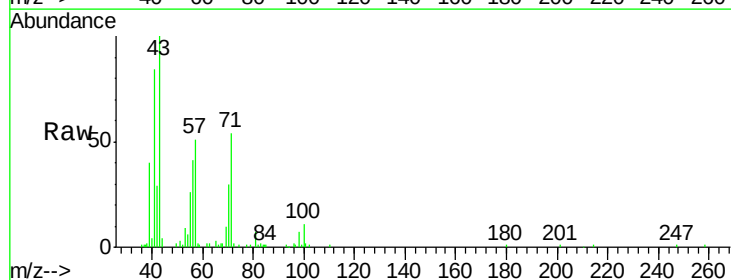
Acq: 15 May 2020 1:26

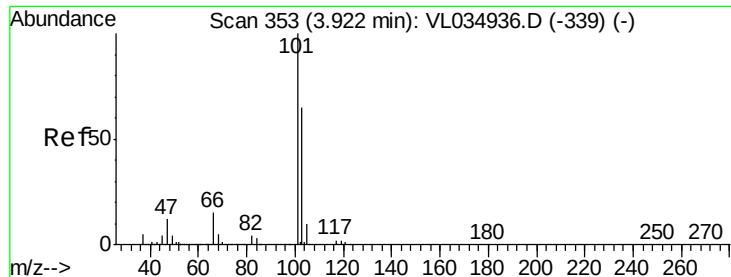
Tgt Ion: 43 Resp: 73640

Ion Ratio Lower Upper

43 100

57 53.7 41.1 61.7





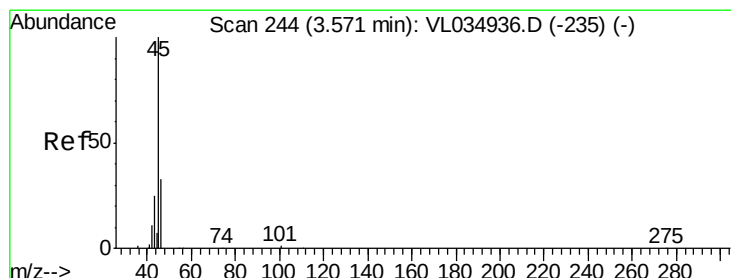
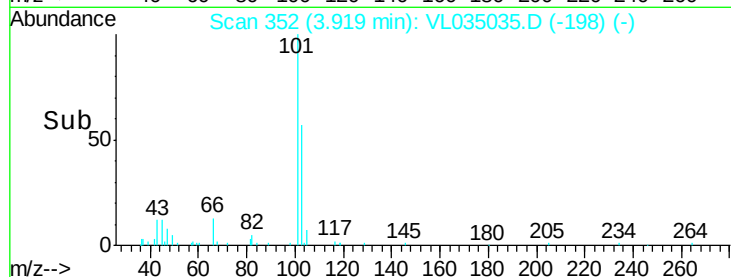
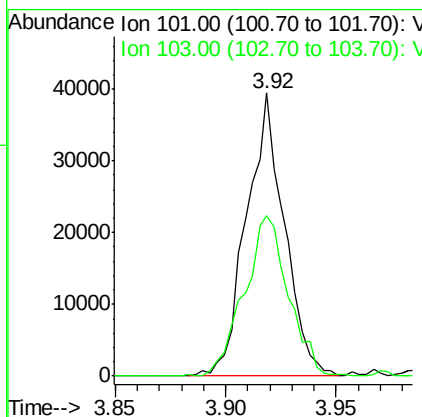
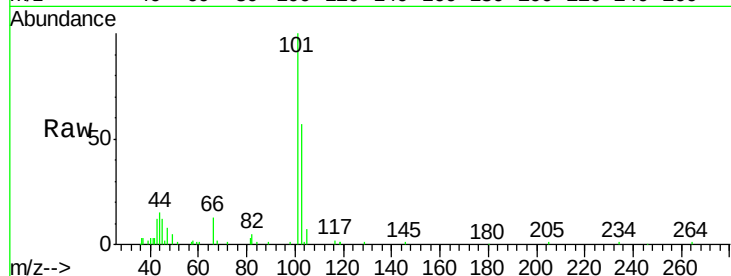
#11
 Trichlorofluoromethane
 Concen: 0.326 ppbv
 RT: 3.92 min Scan# 352
 Delta R.T. -0.00 min
 Lab File: VL035035.D
 Acq: 15 May 2020 1:26

Instrument :
 MSVOA_L
 ClientSampled :
 SG-5

Tot Ion	Ratio	Lower	Upper
101	100		
103	56.2	51.9	77.9

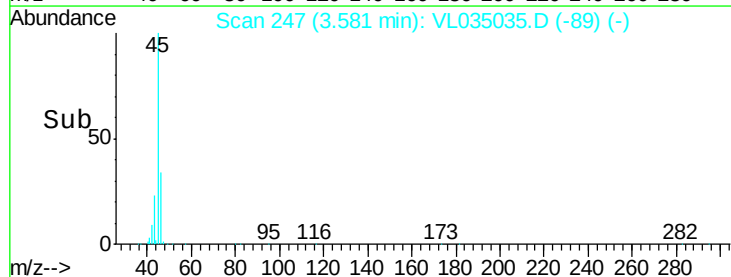
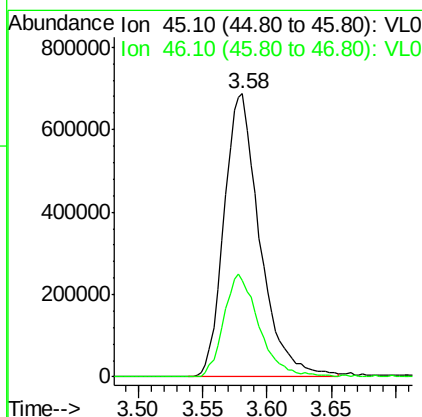
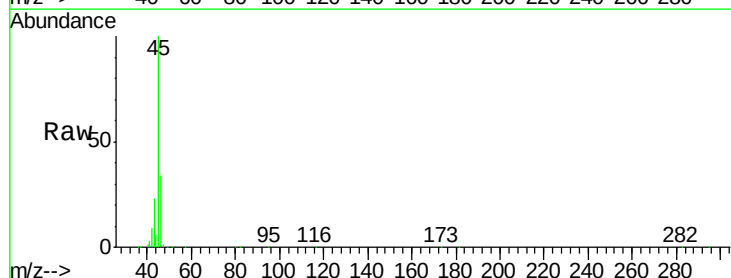
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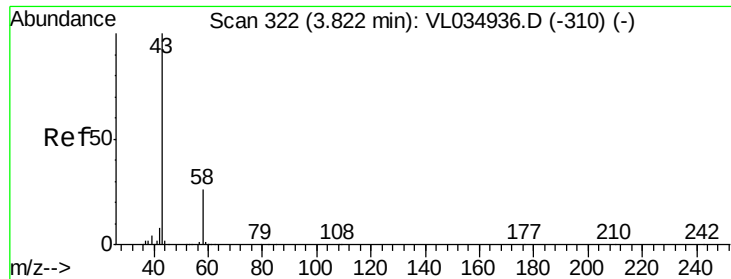
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#13
 Ethanol
 Concen: 81.860 ppbv
 RT: 3.58 min Scan# 247
 Delta R.T. 0.01 min
 Lab File: VL035035.D
 Acq: 15 May 2020 1:26

Tgt Ion	Ratio	Lower	Upper
45	100		
46	36.2	14.3	57.3





#15

Acetone

Concen: 11.527 ppbv m

RT: 3.81 min Scan# 319

Delta R.T. -0.01 min

Lab File: VL035035.D

Acq: 15 May 2020 1:26

Instrument :

MSVOA_L

ClientSampleId :

SG-5

Tot Ion: 43 Resp: 1512318

Ion Ratio Lower Upper

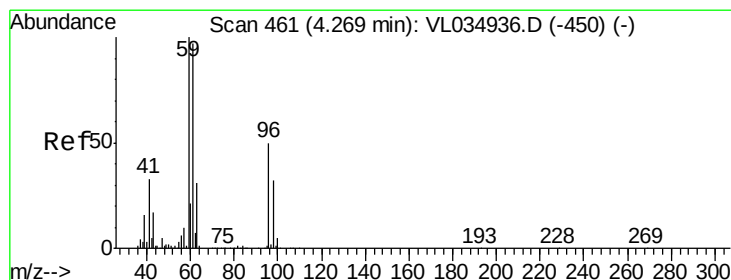
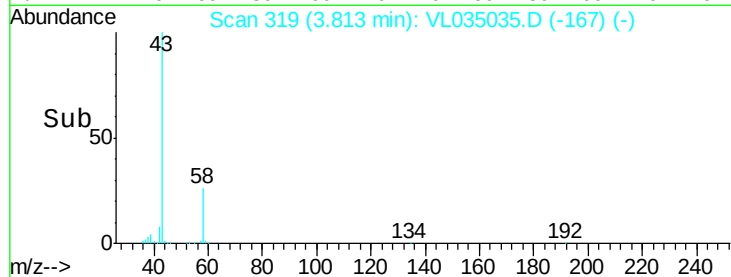
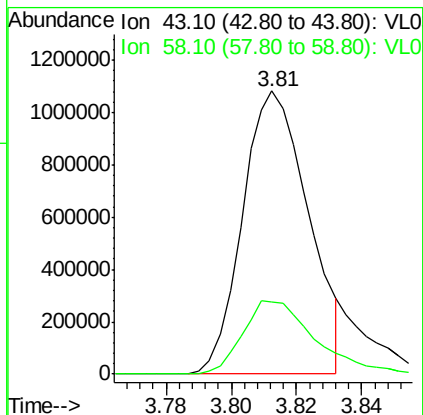
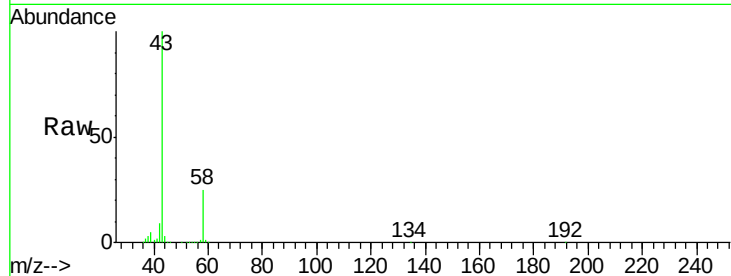
43 100

58 29.1 21.7 32.5

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#17

tert-Butyl alcohol

Concen: 1.783 ppbv m

RT: 4.28 min Scan# 463

Delta R.T. 0.01 min

Lab File: VL035035.D

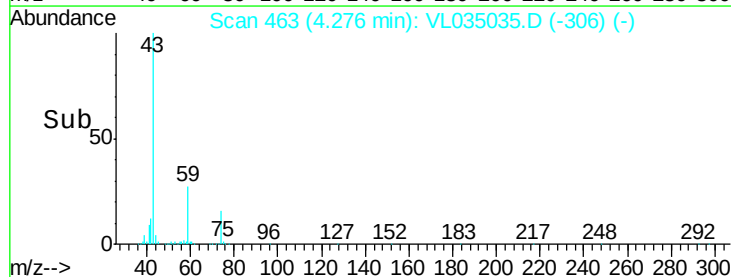
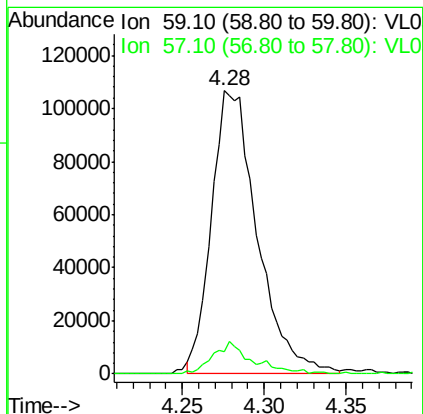
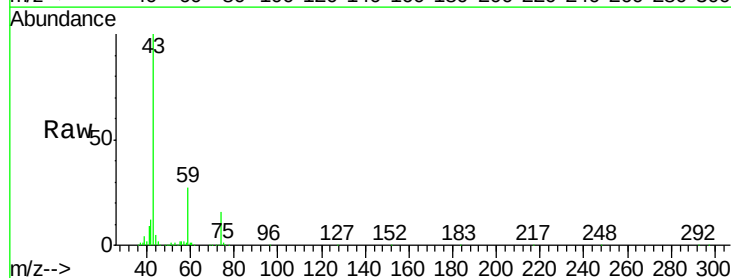
Acq: 15 May 2020 1:26

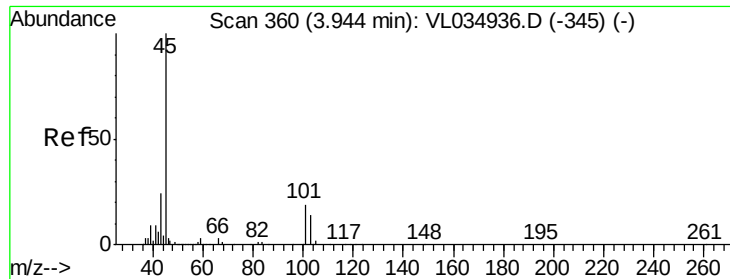
Tgt Ion: 59 Resp: 208141

Ion Ratio Lower Upper

59 100

57 10.1 8.7 13.1





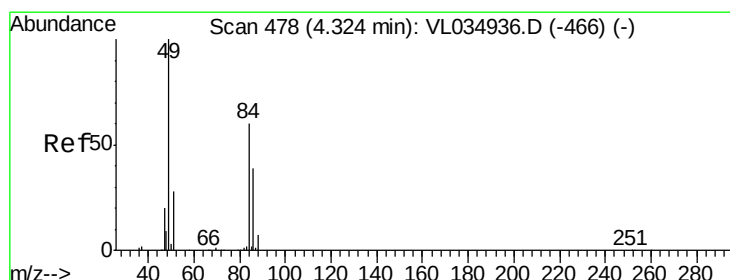
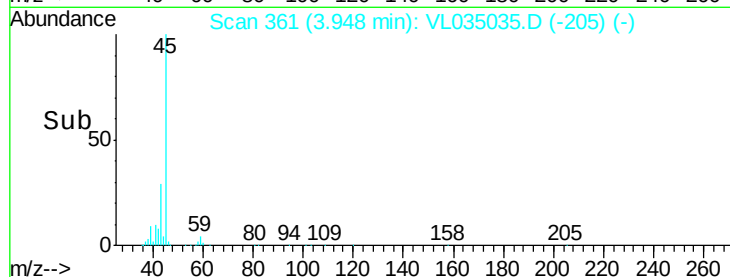
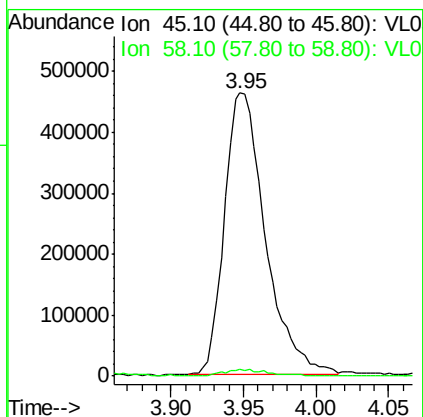
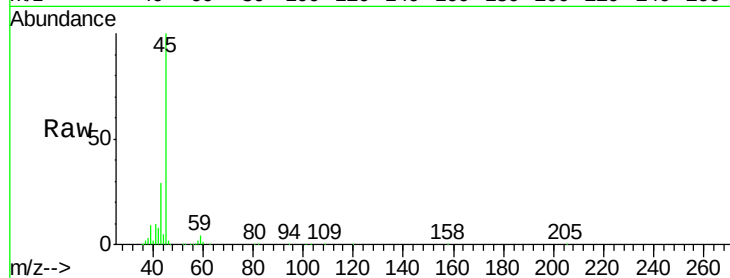
#19
Isopropyl Alcohol
Concen: 10.352 ppbv
RT: 3.95 min Scan# 361
Delta R.T. 0.00 min
Lab File: VL035035.D
Acq: 15 May 2020 1:26

Instrument :
MSVOA_L
ClientSampled :
SG-5

Tot Ion: 45 Resp: 905745
Ion Ratio Lower Upper
45 100
58 2.6 1.7 2.5#

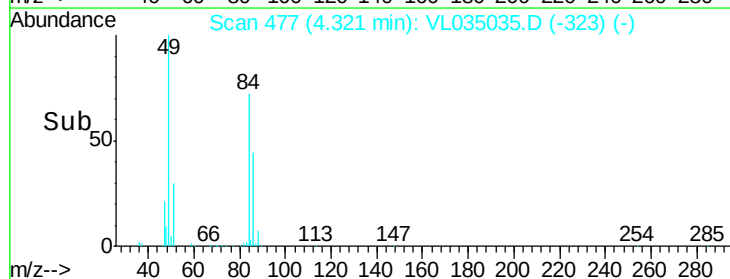
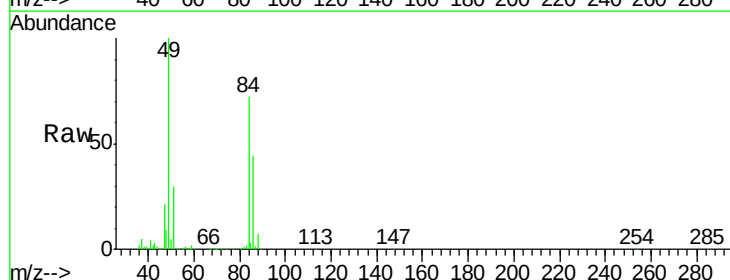
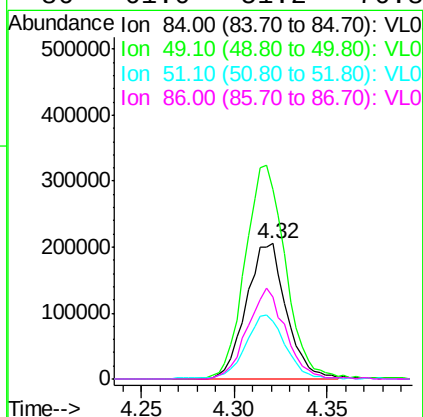
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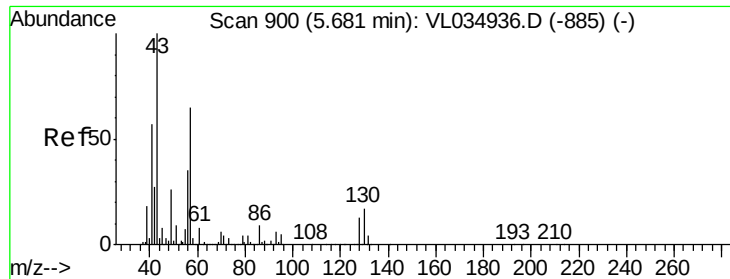
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#20
Methylene Chloride
Concen: 7.103 ppbv
RT: 4.32 min Scan# 477
Delta R.T. -0.00 min
Lab File: VL035035.D
Acq: 15 May 2020 1:26

Tgt Ion: 84 Resp: 308512
Ion Ratio Lower Upper
84 100
49 139.7 132.5 198.7
51 41.3 38.4 57.6
86 61.0 51.2 76.8





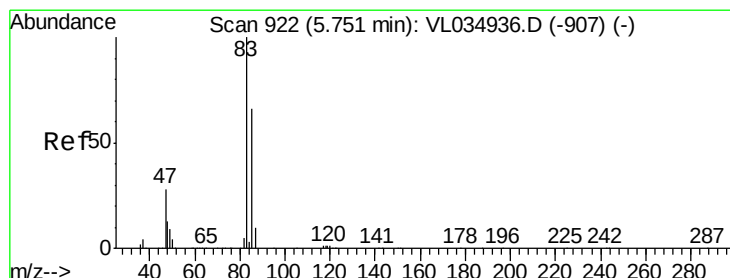
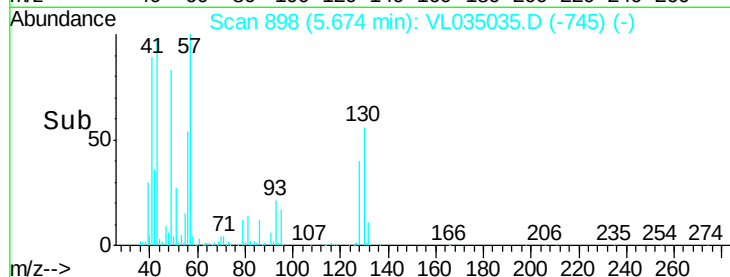
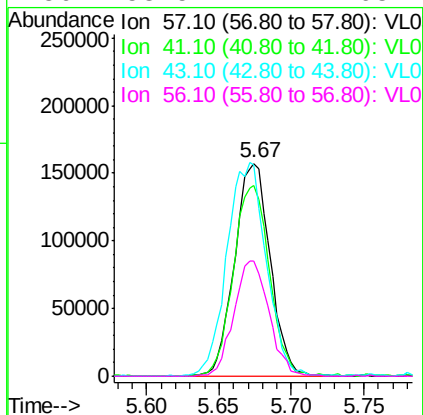
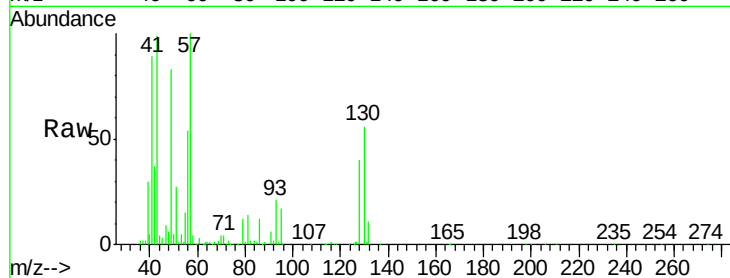
#26
Hexane
Concen: 2.811 ppbv
RT: 5.67 min Scan# 898
Delta R.T. -0.01 min
Lab File: VL035035.D
Acq: 15 May 2020 1:26

Instrument :
MSVOA_L
ClientSampleId :
SG-5

Tot Ion	57	Resp	268552
Ion Ratio	Lower	Upper	
57	100		
41	91.3	72.7	109.1
43	111.7	182.1	273.1#
56	53.5	42.2	63.2

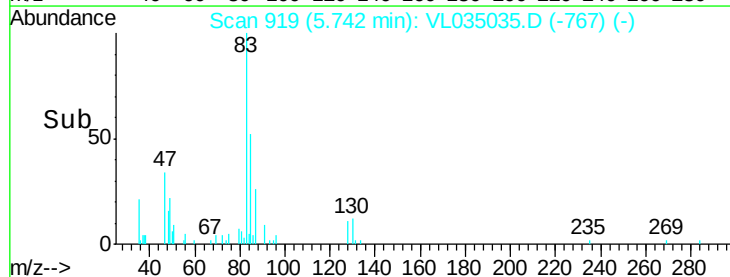
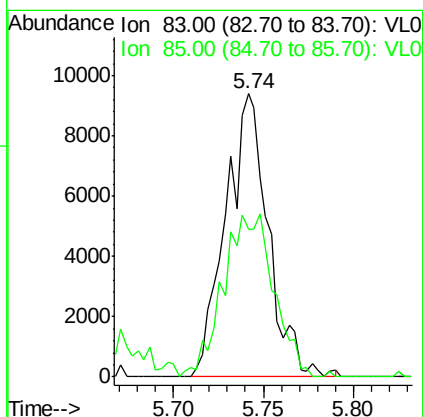
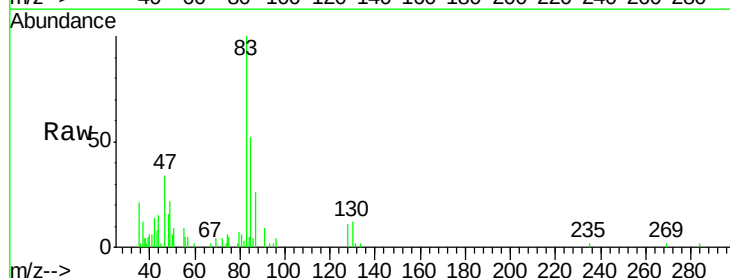
Manual Integrations
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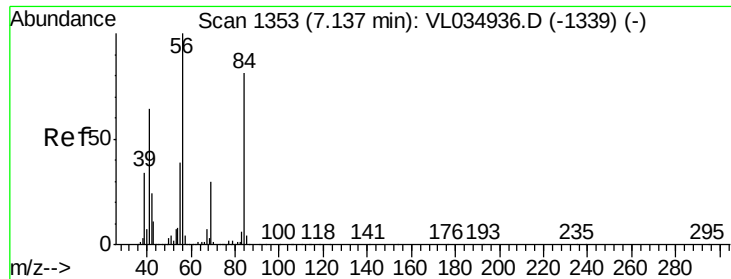
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#29
Chloroform
Concen: 0.099 ppbv m
RT: 5.74 min Scan# 919
Delta R.T. -0.01 min
Lab File: VL035035.D
Acq: 15 May 2020 1:26

Tgt Ion	83	Resp	15431
Ion Ratio	Lower	Upper	
83	100		
85	52.2	53.0	79.6#





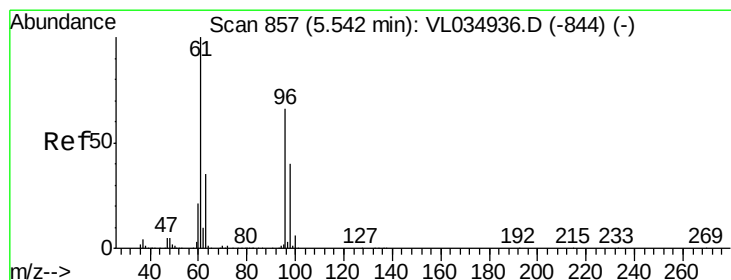
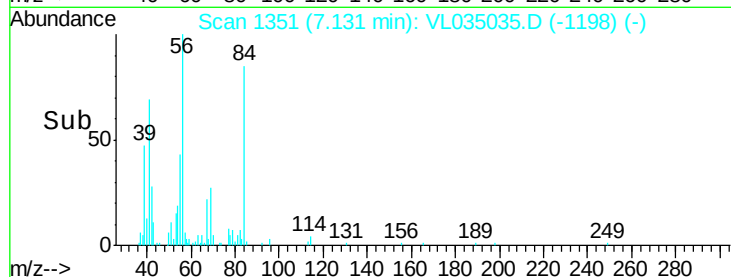
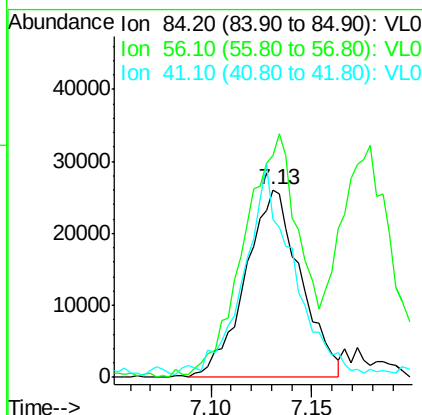
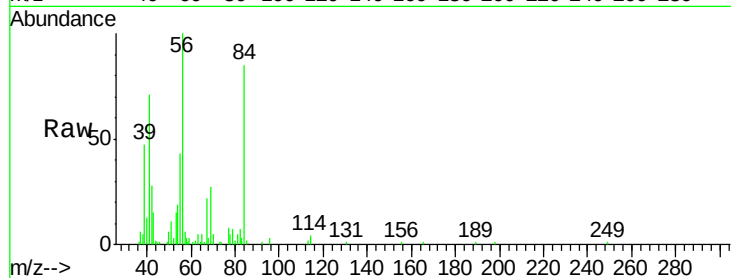
#30
Cvclohexane
Concen: 0.674 ppbv
RT: 7.13 min Scan# 1351
Delta R.T. -0.01 min
Lab File: VL035035.D
Acq: 15 May 2020 1:26

Instrument :
MSVOA_L
ClientSampled :
SG-5

Tot Ion	Ratio	Lower	Upper
84	100		
56	136.9	111.4	167.2
41	100.6	66.7	100.1#

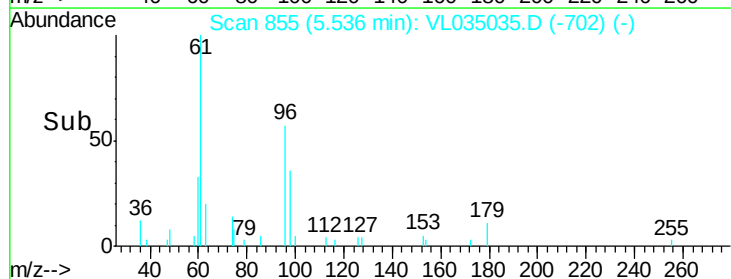
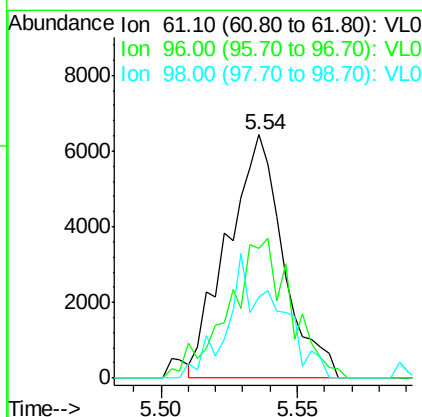
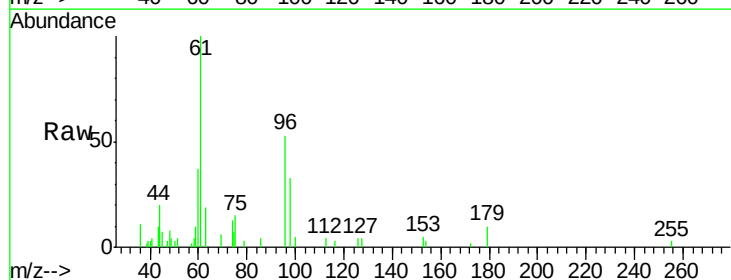
Manual Integrations
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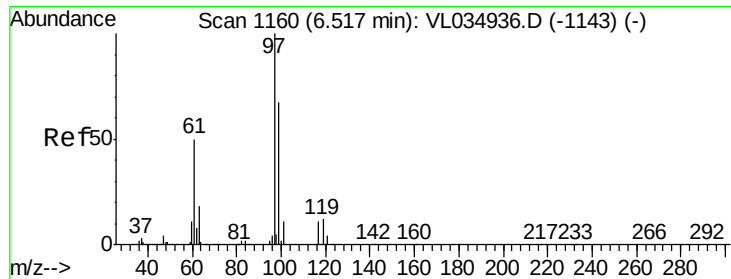
MMDadoda
5/18/2020 6:48:03 PM



#31
cis-1,2-Dichloroethene
Concen: 0.098 ppbv
RT: 5.54 min Scan# 855
Delta R.T. -0.01 min
Lab File: VL035035.D
Acq: 15 May 2020 1:26

Tgt Ion	Ratio	Lower	Upper
61	100		
96	49.4	53.0	79.6#
98	33.4	32.2	48.2





#32

1,1,1-Trichloroethane

Concen: 0.195 ppbv m

RT: 6.50 min Scan# 1156

Delta R.T. -0.01 min

Lab File: VL035035.D

Acq: 15 May 2020 1:26

Instrument :

MSVOA_L

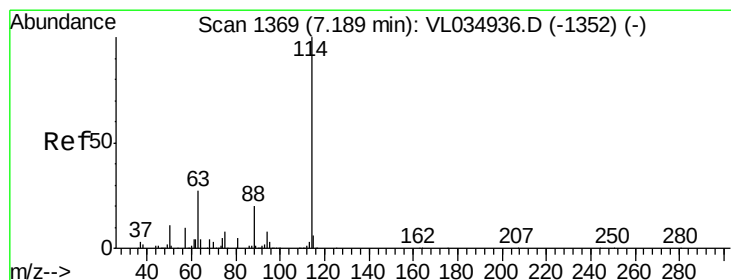
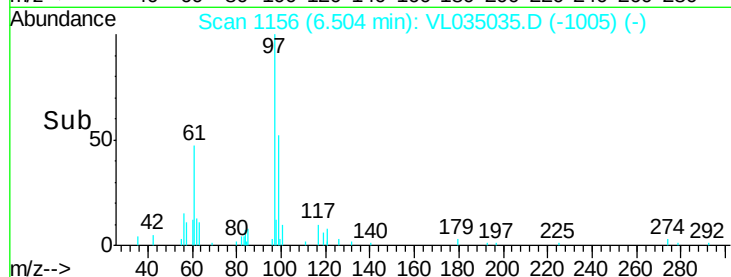
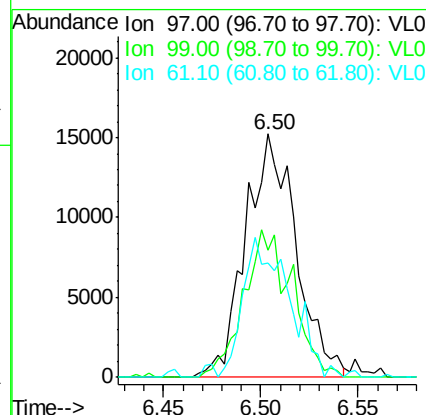
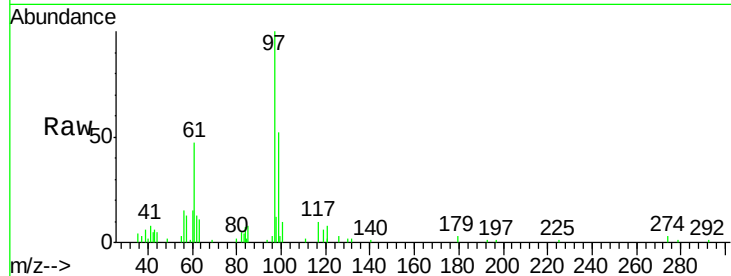
ClientSampled :

SG-5

Tot Ion	97	Resp:	27508
Ion	Ratio	Lower	Upper
97	100		
99	57.8	52.1	78.1
61	54.2	41.8	62.8

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#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

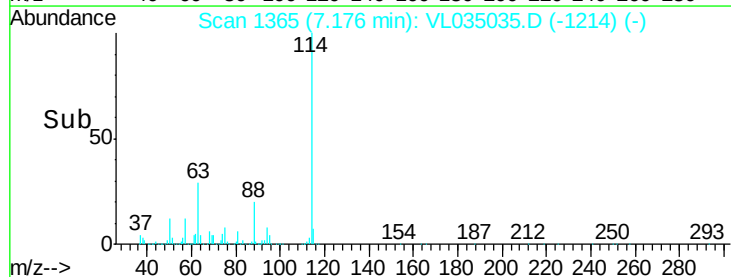
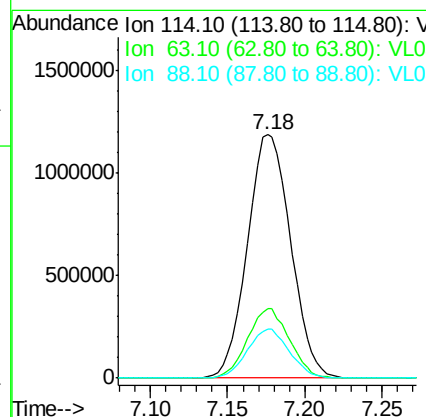
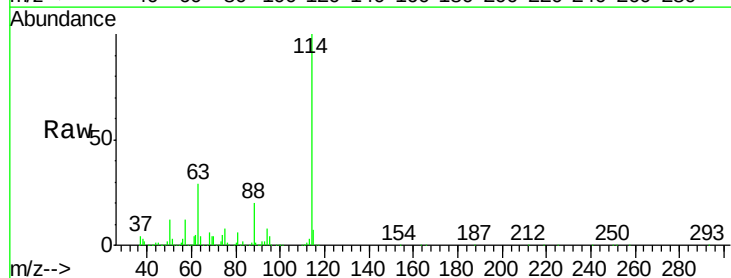
RT: 7.18 min Scan# 1365

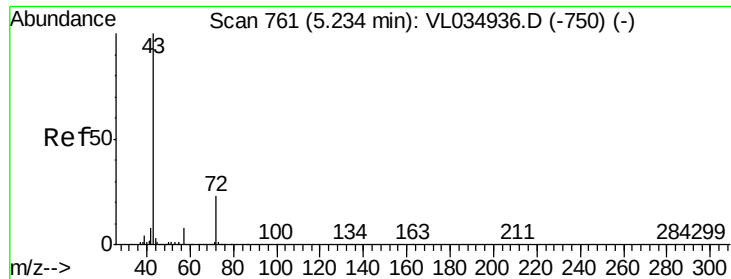
Delta R.T. -0.01 min

Lab File: VL035035.D

Acq: 15 May 2020 1:26

Tgt Ion	114	Resp:	2307754
Ion	Ratio	Lower	Upper
114	100		
63	27.8	22.2	33.4
88	19.6	15.5	23.3





#34

2-Butanone

Concen: 0.989 ppbv

RT: 5.23 min Scan# 760

Delta R.T. -0.00 min

Lab File: VL035035.D

Acq: 15 May 2020 1:26

Instrument :

MSVOA_L

ClientSampled :

SG-5

Tot Ion: 43 Resp: 141829

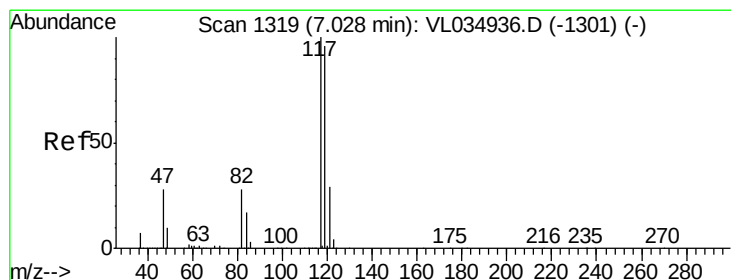
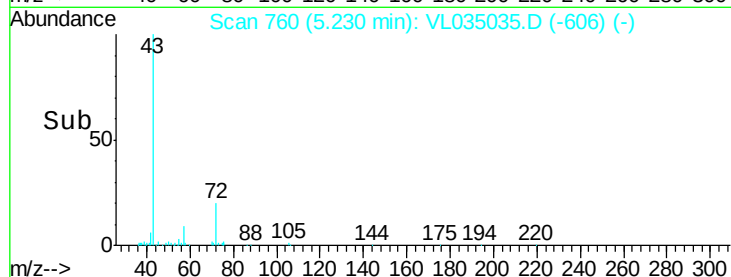
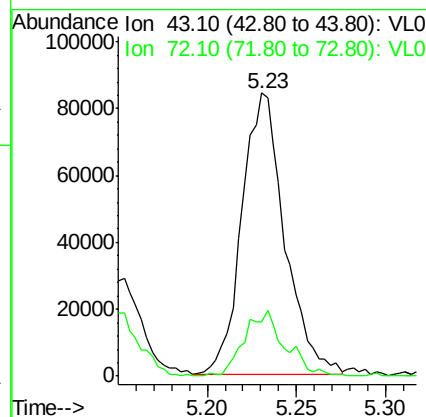
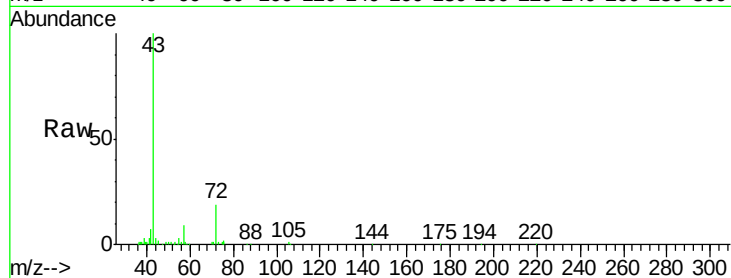
Ion Ratio Lower Upper

43 100

72 22.0 18.0 27.0

Manual Integrations
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#35

Carbon Tetrachloride

Concen: 0.046 ppbv m

RT: 7.01 min Scan# 1315

Delta R.T. -0.01 min

Lab File: VL035035.D

Acq: 15 May 2020 1:26

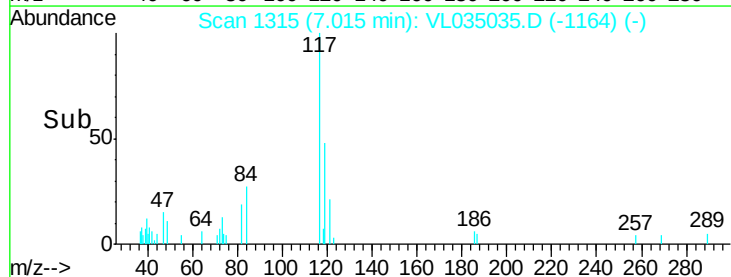
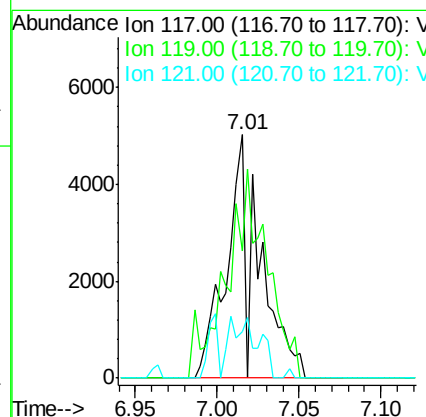
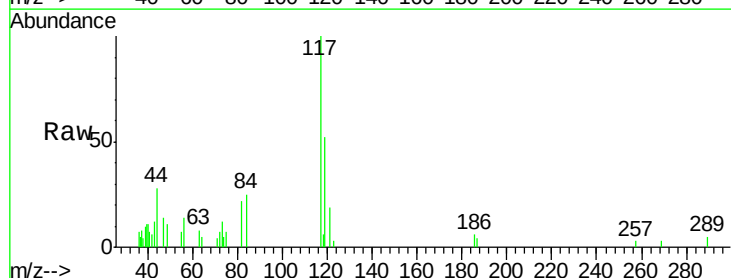
Tgt Ion: 117 Resp: 6724

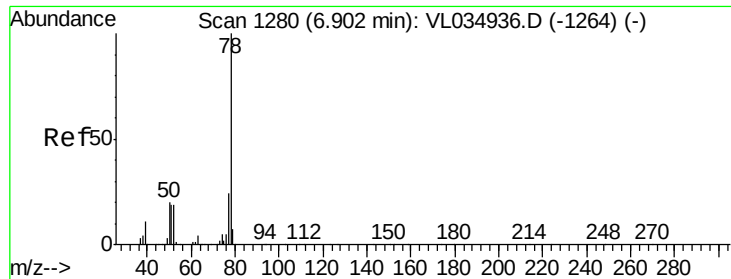
Ion Ratio Lower Upper

117 100

119 52.3 77.0 115.6#

121 19.4 23.0 34.6#





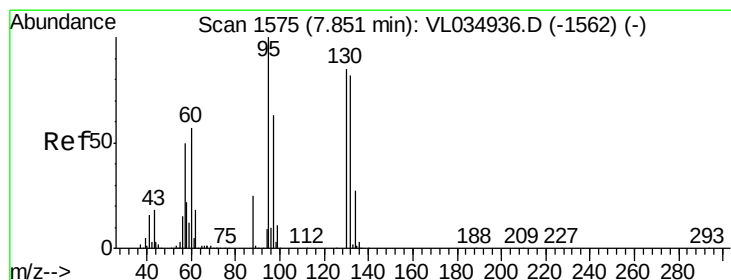
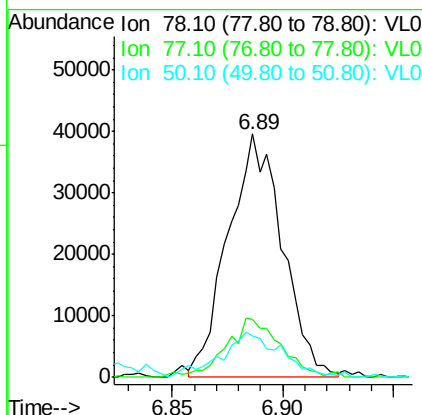
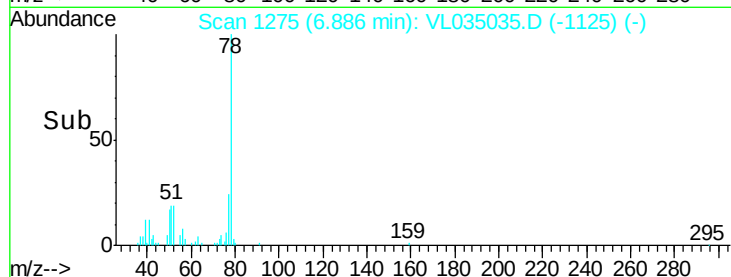
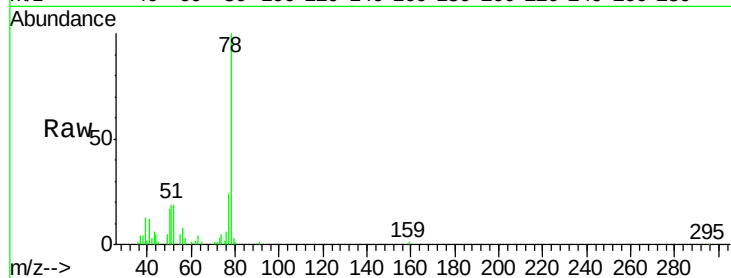
#36
Benzene
Concen: 0.355 ppbv
RT: 6.89 min Scan# 1275
Delta R.T. -0.02 min
Lab File: VL035035.D
Acq: 15 May 2020 1:26

Instrument :
MSVOA_L
ClientSampled :
SG-5

Tot Ion:	78	Resp:	67564
Ion Ratio	Lower	Upper	
78	100		
77	22.5	19.0	28.6
50	16.3	15.8	23.8

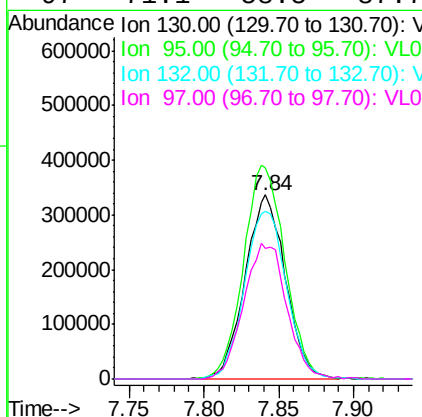
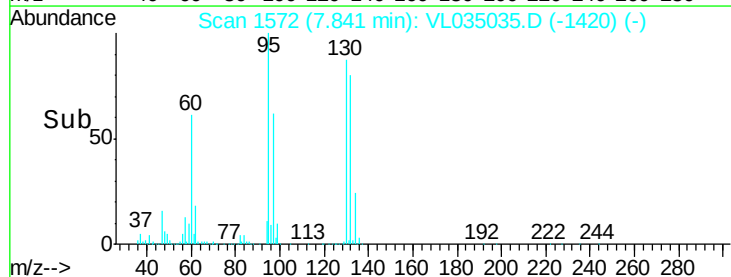
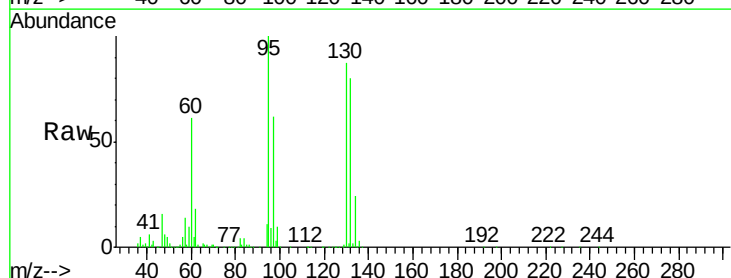
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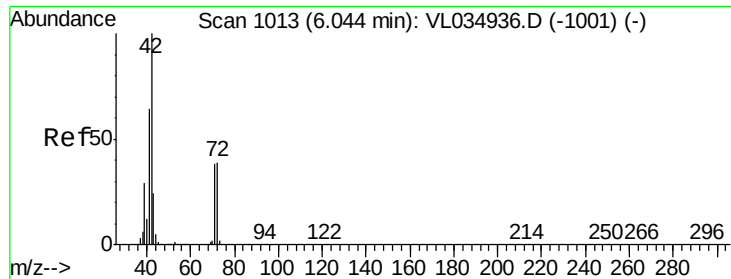
MMDadoda
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#38
Trichloroethene
Concen: 8.593 ppbv
RT: 7.84 min Scan# 1572
Delta R.T. -0.01 min
Lab File: VL035035.D
Acq: 15 May 2020 1:26

Tgt Ion:	130	Resp:	633387
Ion Ratio	Lower	Upper	
130	100		
95	114.6	93.4	140.0
132	91.4	76.4	114.6
97	71.1	58.5	87.7





#41

Tetrahydrofuran

Concen: 0.263 ppbv m

RT: 6.05 min Scan# 1015

Delta R.T. 0.01 min

Lab File: VL035035.D

Acq: 15 May 2020 1:26

Instrument :

MSVOA_L

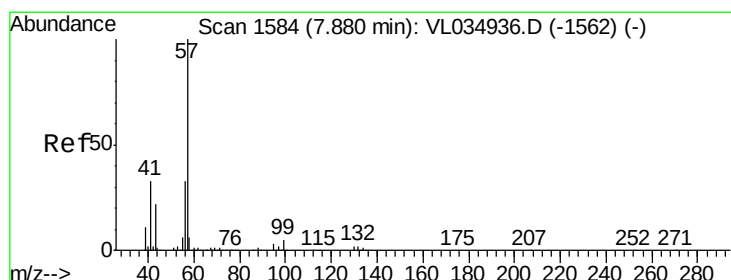
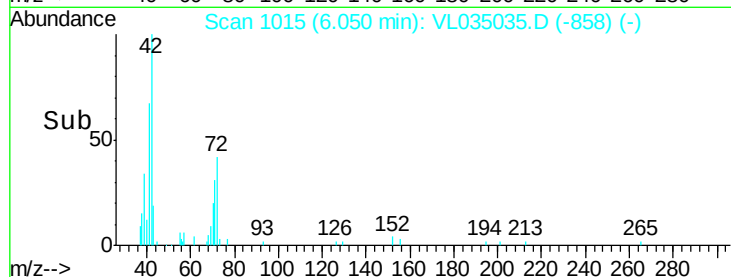
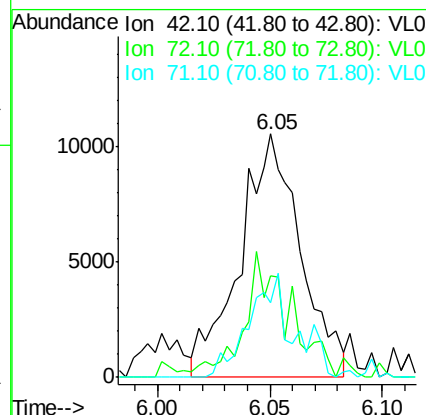
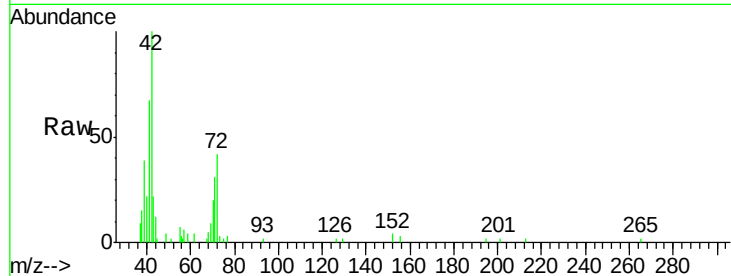
ClientSampled :

SG-5

Tot Ion	42	Resp	19882
Ion Ratio	Lower	Upper	
42	100		
72	42.7	31.4	47.0
71	0.0	29.8	44.8#

Manual Integrations
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#44

2,2,4-Trimethylpentane

Concen: 2.357 ppbv

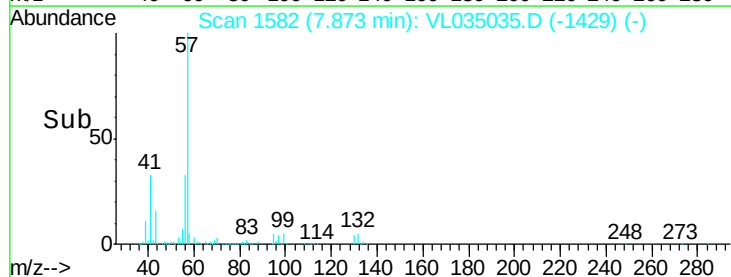
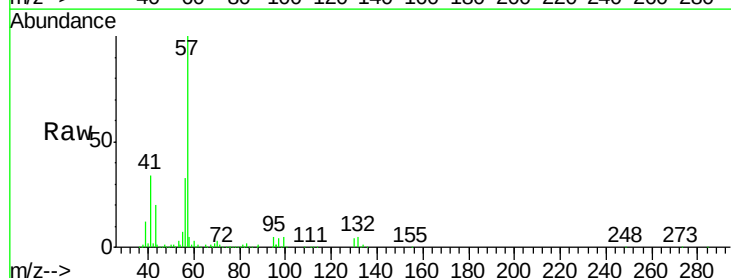
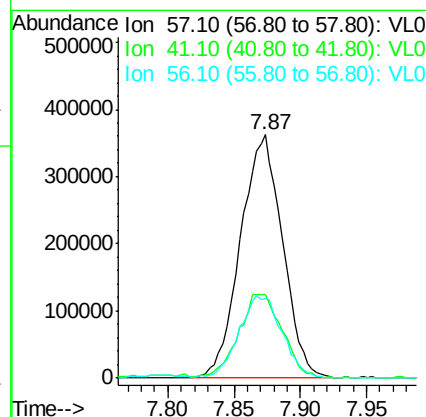
RT: 7.87 min Scan# 1582

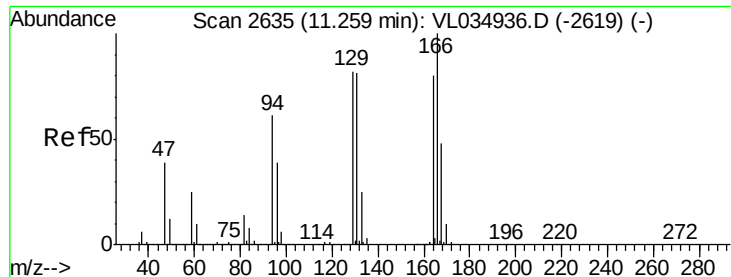
Delta R.T. -0.01 min

Lab File: VL035035.D

Acq: 15 May 2020 1:26

Tgt Ion	57	Resp	797271
Ion Ratio	Lower	Upper	
57	100		
41	37.0	26.4	39.6
56	34.9	25.5	38.3





#52

Tetrachloroethene

Concen: 58.148 ppbv

RT: 11.25 min Scan# 2633

Delta R.T. -0.01 min

Lab File: VL035035.D

Acq: 15 May 2020 1:26

Instrument :

MSVOA_L

ClientSampled :

SG-5

Tot Ion:164 Resp: 3933969

Ion Ratio Lower Upper

164 100

166 123.9 100.7 151.1

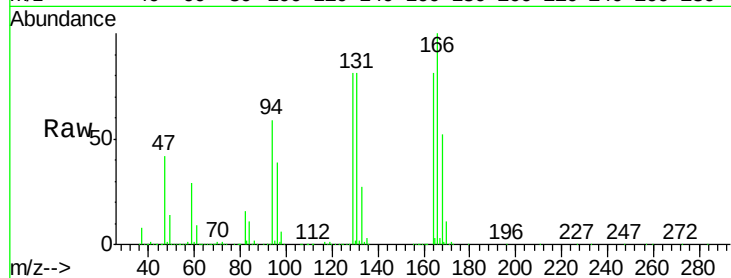
129 100.1 83.0 124.4

131 100.4 81.0 121.4

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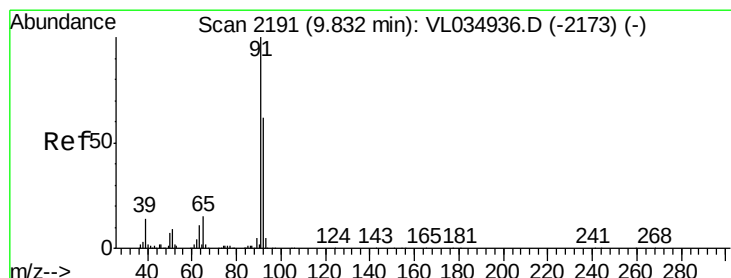
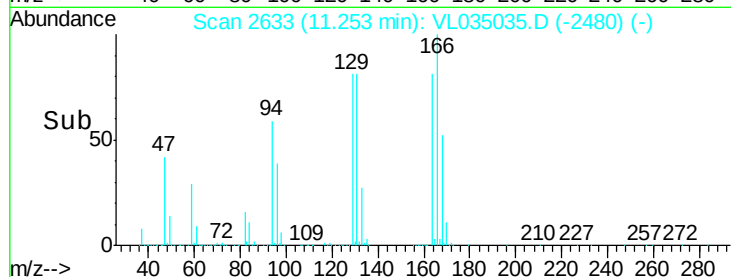
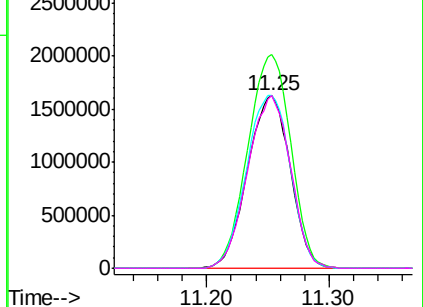


Abundance Ion 163.90 (163.60 to 164.60): V

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: 9.676 ppbv

RT: 9.82 min Scan# 2188

Delta R.T. -0.01 min

Lab File: VL035035.D

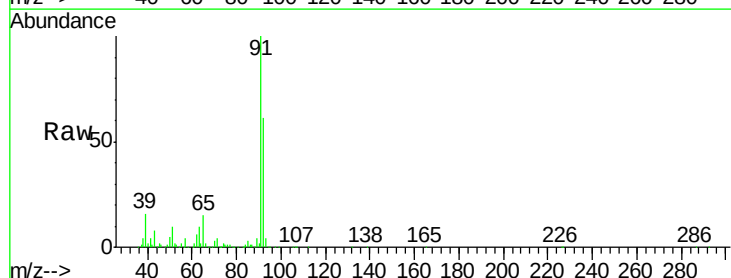
Acq: 15 May 2020 1:26

Tgt Ion: 91 Resp: 1951520

Ion Ratio Lower Upper

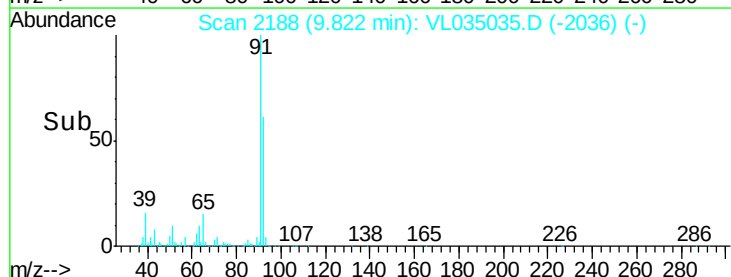
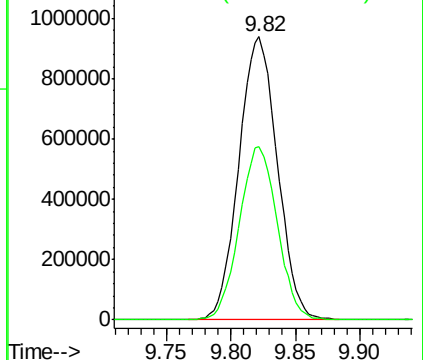
91 100

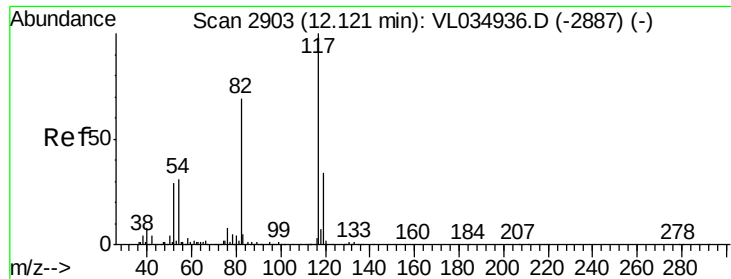
92 60.6 48.6 73.0



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0





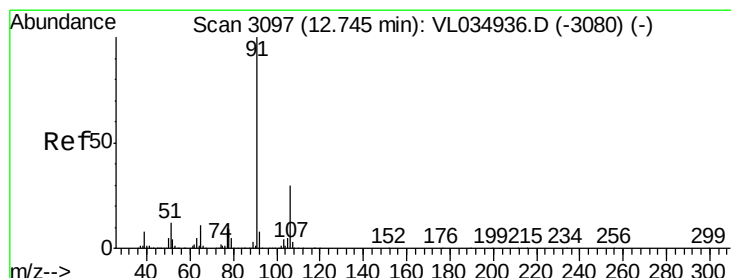
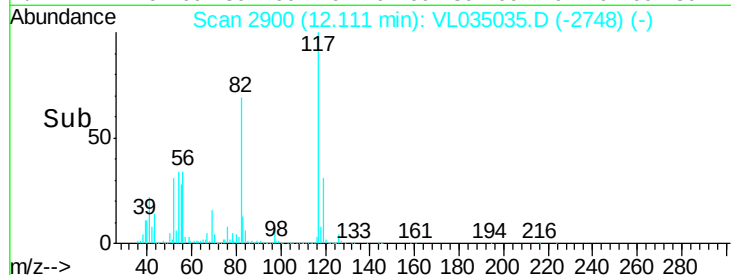
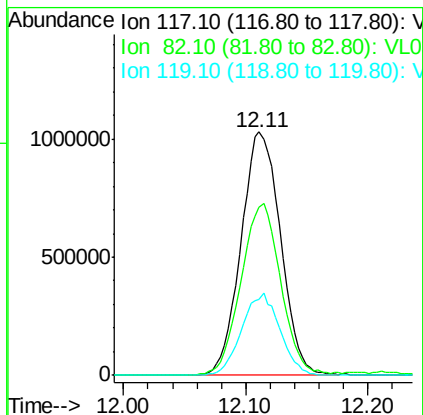
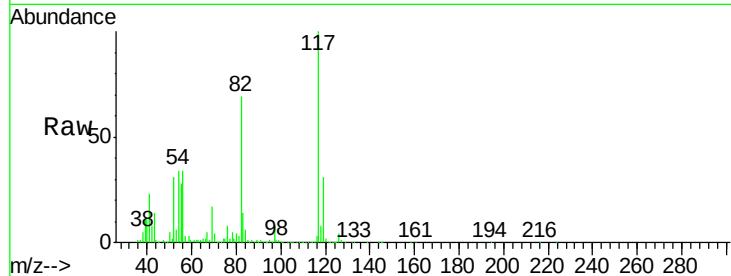
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.11 min Scan# 2900
Delta R.T. -0.01 min
Lab File: VL035035.D
Acq: 15 May 2020 1:26

Instrument :
MSVOA_L
ClientSampled :
SG-5

Tot Ion	Ratio	Lower	Upper
117	100		
82	71.1	53.1	79.7
119	32.9	26.7	40.1

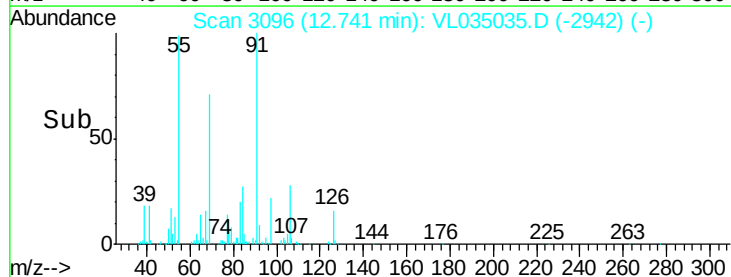
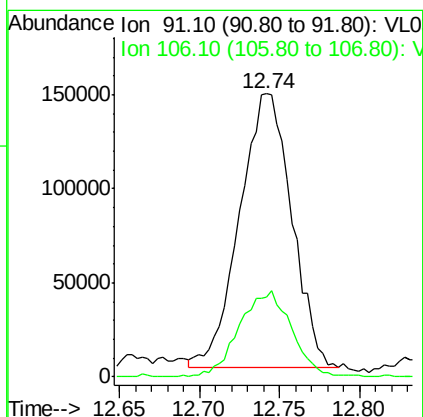
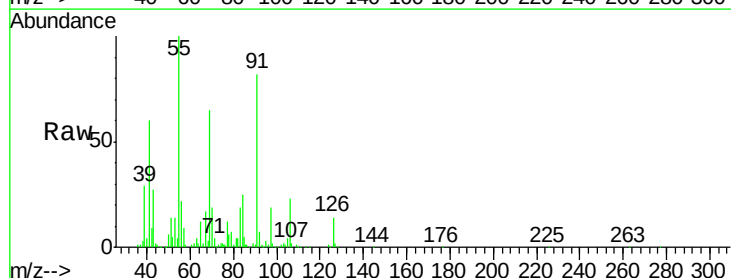
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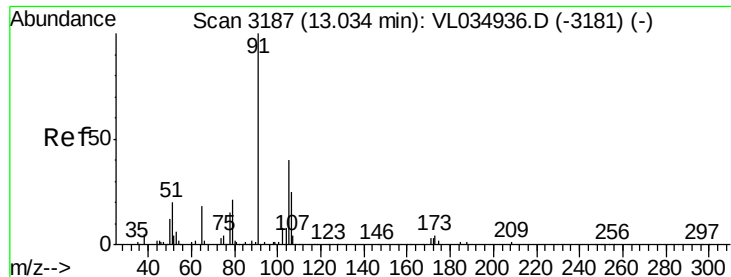
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#58
Ethyl Benzene
Concen: 1.140 ppbv
RT: 12.74 min Scan# 3096
Delta R.T. -0.00 min
Lab File: VL035035.D
Acq: 15 May 2020 1:26

Tgt Ion	Ratio	Lower	Upper
91	100		
106	28.7	24.2	36.4





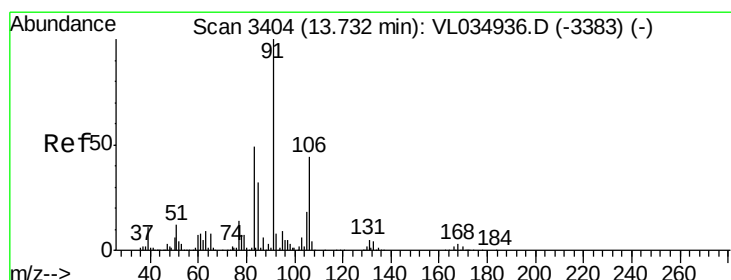
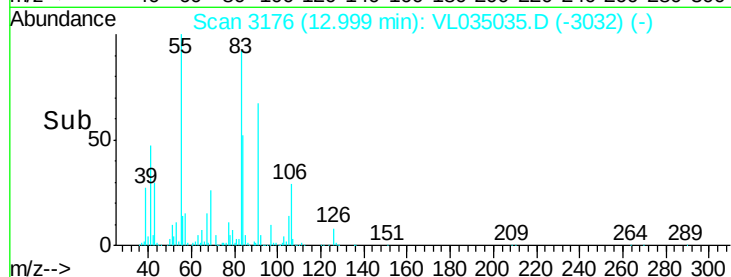
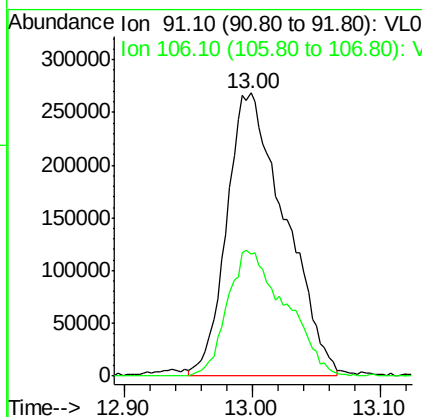
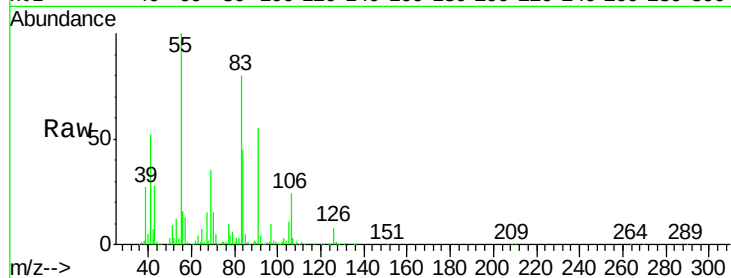
#59
m/p-Xylene
Concen: 3.383 ppbv m
RT: 13.00 min Scan# 3176
Delta R.T. -0.04 min
Lab File: VL035035.D
Acq: 15 May 2020 1:26

Instrument :
MSVOA_L
ClientSampled :
SG-5

Tot Ion: 91 Resp: 848277
Ion Ratio Lower Upper
91 100
106 44.5 66.0 99.0#

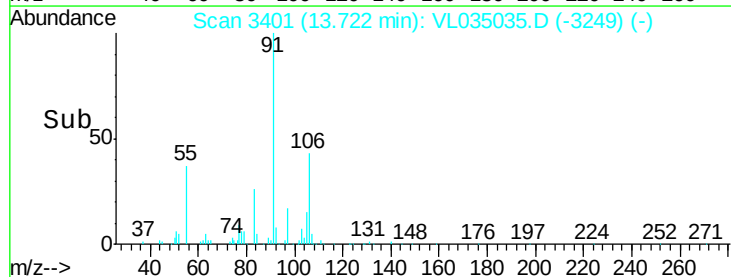
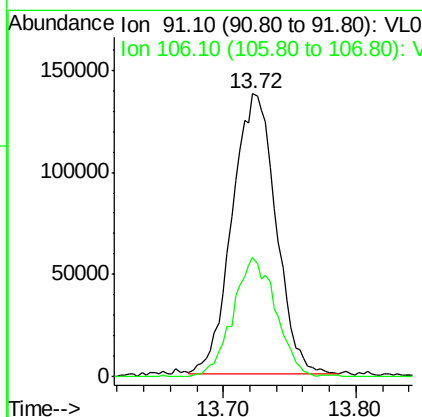
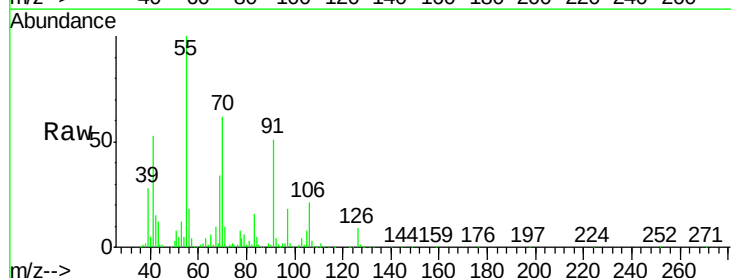
Manual Integrations
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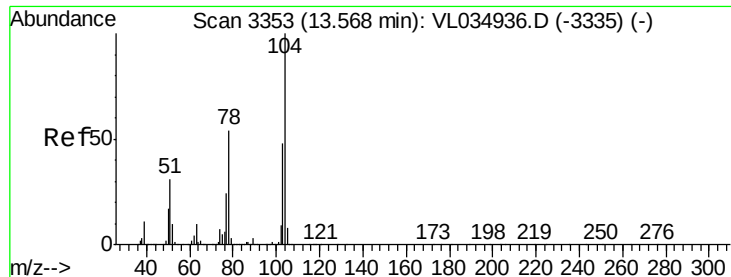
MMDadoda
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#60
o-Xylene
Concen: 1.273 ppbv
RT: 13.72 min Scan# 3401
Delta R.T. -0.01 min
Lab File: VL035035.D
Acq: 15 May 2020 1:26

Tgt Ion: 91 Resp: 315039
Ion Ratio Lower Upper
91 100
106 41.8 21.9 65.5





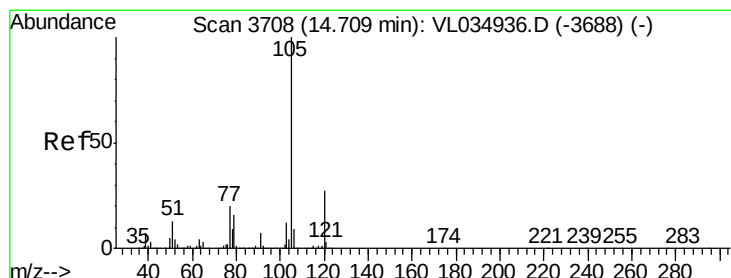
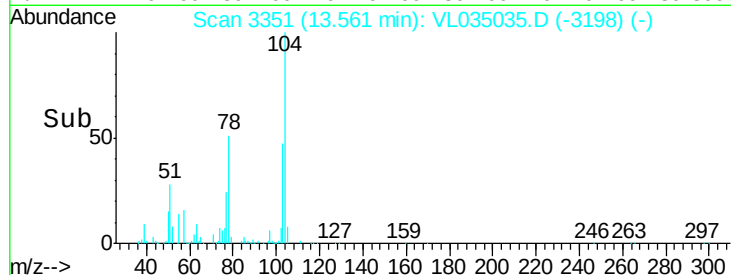
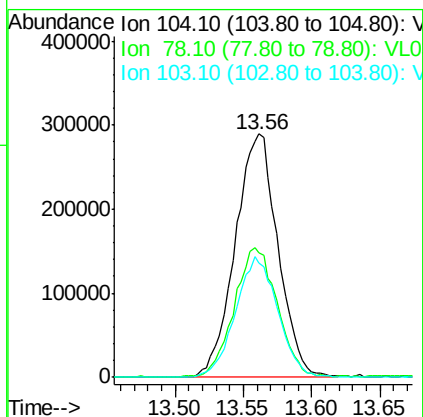
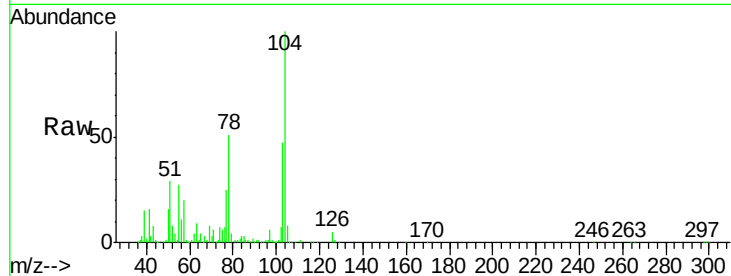
#61
Stvrene
Concen: 3.997 ppbv
RT: 13.56 min Scan# 3351
Delta R.T. -0.01 min
Lab File: VL035035.D
Acq: 15 May 2020 1:26

Instrument :
MSVOA_L
ClientSampled :
SG-5

Tot Ion	Ratio	Lower	Upper
104	100		
78	54.8	43.7	65.5
103	49.1	38.8	58.2

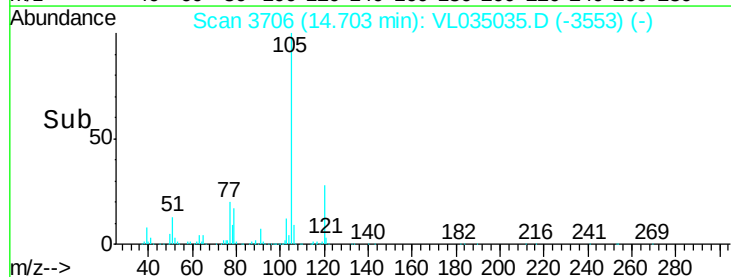
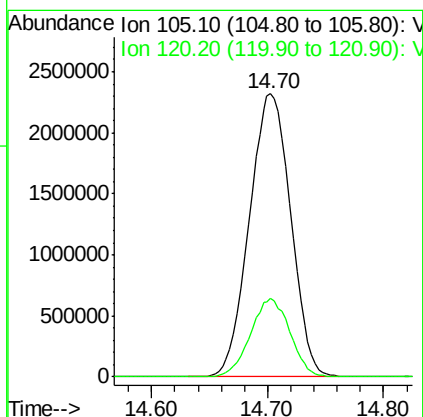
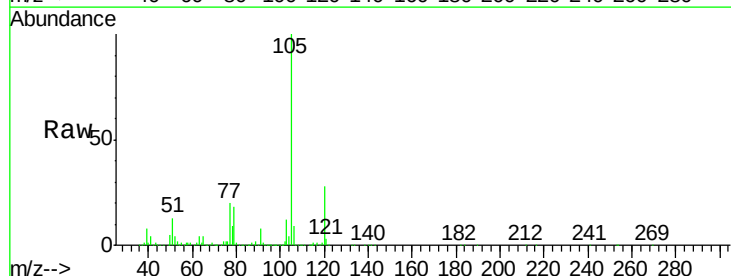
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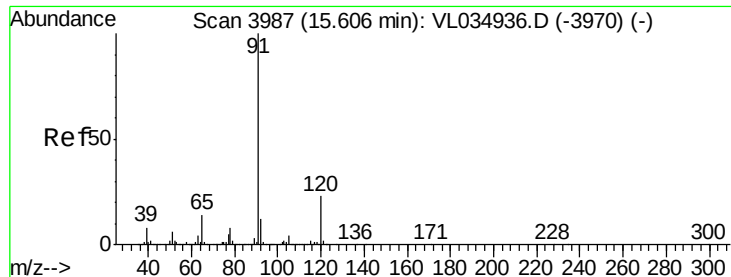
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#62
Isopropylbenzene
Concen: 15.585 ppbv
RT: 14.70 min Scan# 3706
Delta R.T. -0.01 min
Lab File: VL035035.D
Acq: 15 May 2020 1:26

Tgt Ion	Ratio	Lower	Upper
105	100		
120	26.4	20.6	31.0





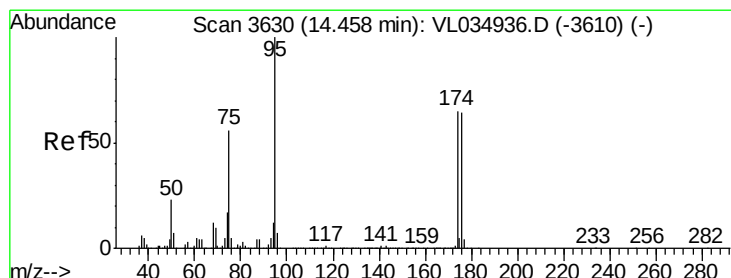
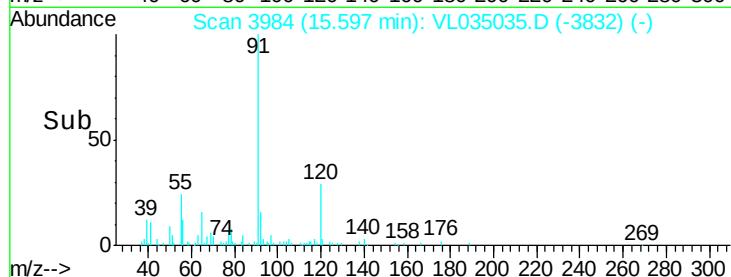
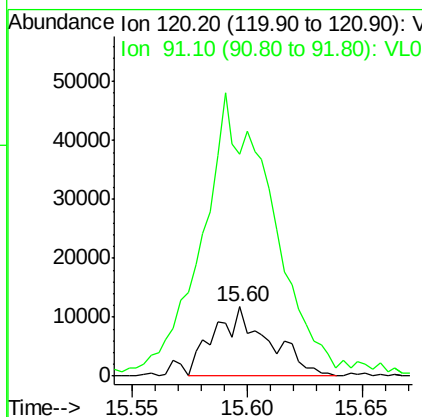
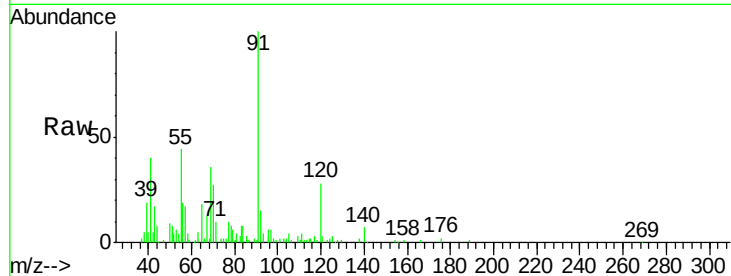
#64
n-propylbenzene
Concen: 0.207 ppbv m
RT: 15.60 min Scan# 3984
Delta R.T. -0.01 min
Lab File: VL035035.D
Acq: 15 May 2020 1:26

Instrument :
MSVOA_L
ClientSampled :
SG-5

Tot Ion:120 Resp: 19573
Ion Ratio Lower Upper
120 100
91 0.0 373.5 560.3#

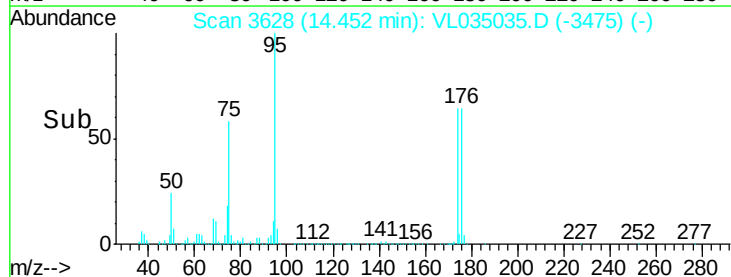
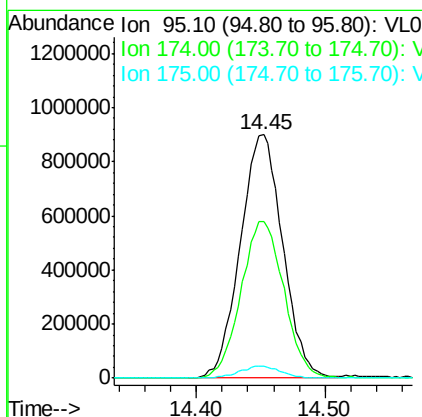
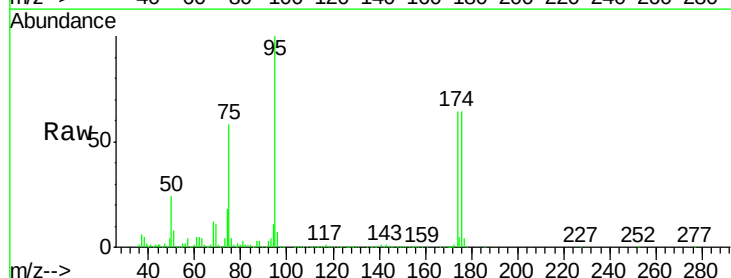
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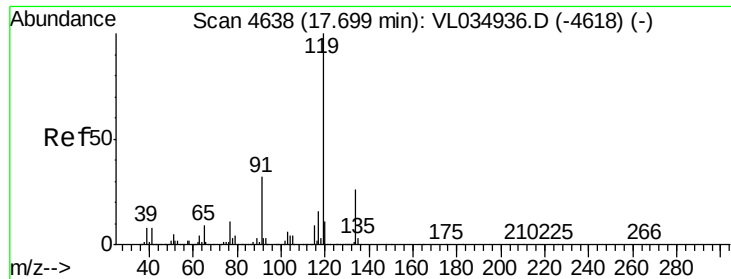
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#68
1-Bromo-4-Fluorobenzene
Concen: 11.007 ppbv
RT: 14.45 min Scan# 3628
Delta R.T. -0.01 min
Lab File: VL035035.D
Acq: 15 May 2020 1:26

Tgt Ion: 95 Resp: 2053573
Ion Ratio Lower Upper
95 100
174 65.3 51.5 77.3
175 4.8 3.8 5.8





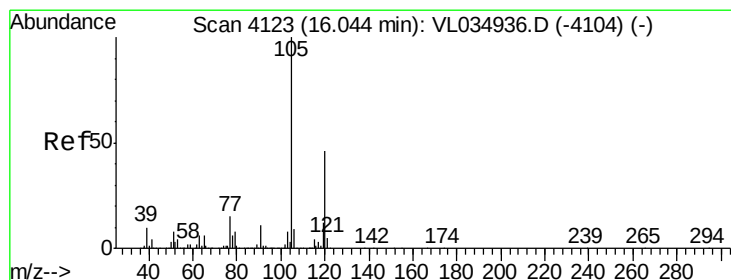
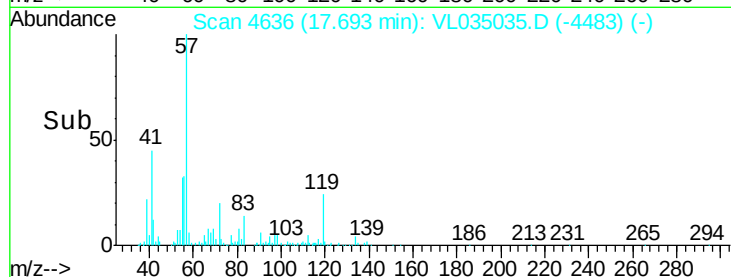
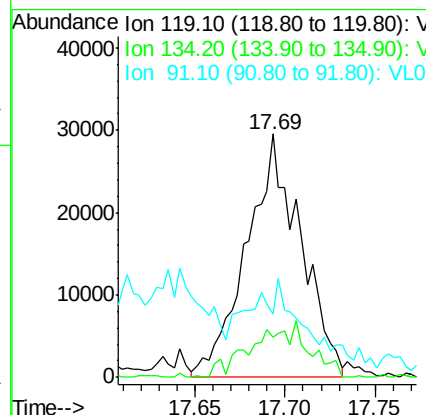
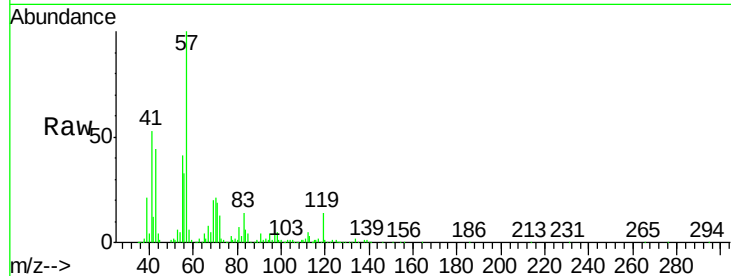
#69
 p-Isopropyltoluene
 Concen: 0.166 ppbv m
 RT: 17.69 min Scan# 4636
 Delta R.T. -0.01 min
 Lab File: VL035035.D
 Acq: 15 May 2020 1:26

Instrument :
 MSVOA_L
 ClientSampled :
 SG-5

Tot Ion	Ratio	Lower	Upper
119	100		
134	0.0	20.3	30.5#
91	35.7	24.6	36.8

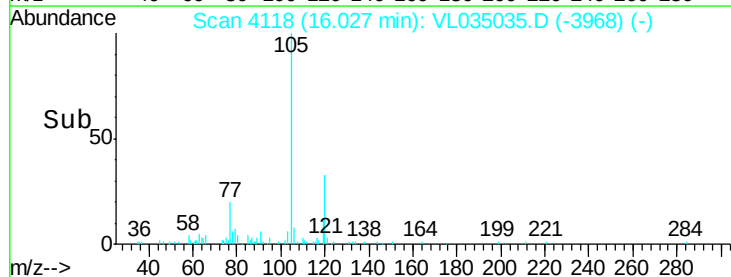
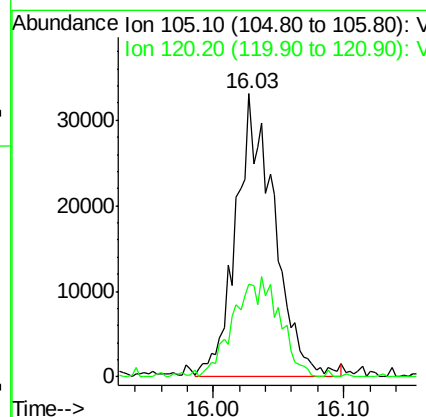
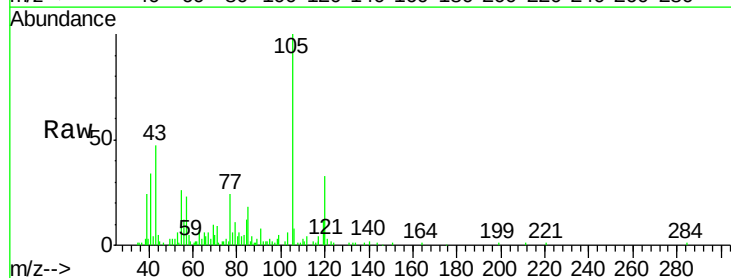
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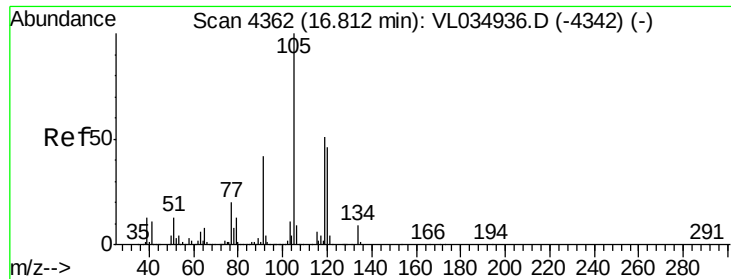
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#73
 1,3,5-Trimethylbenzene
 Concen: 0.253 ppbv m
 RT: 16.03 min Scan# 4118
 Delta R.T. -0.02 min
 Lab File: VL035035.D
 Acq: 15 May 2020 1:26

Tgt Ion	Ratio	Lower	Upper
105	100		
120	32.9	36.4	54.6#





#74
 1,2,4-Trimethylbenzene
 Concen: 0.785 ppbv m
 RT: 16.80 min Scan# 4359
 Delta R.T. -0.01 min
 Lab File: VL035035.D
 Acq: 15 May 2020 1:26

Instrument :
 MSVOA_L
 ClientSampleId :
 SG-5

Tot Ion	Ratio	Resp Lower	Upper
105	100		
120	40.0	36.8	55.2
91	12.9	35.4	53.0
77	17.5	16.2	24.2

Manual Integrations
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