

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL051420\
 Data File : VL035026.D
 Acq On : 14 May 2020 19:00
 Operator : SY/AP
 Sample : L2566-06 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SG-3

Manual Integrations
 APPROVED

MMDadoda
 5/18/2020 1:35:00 PM

Quant Time: May 18 09:13:17 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	1210966	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.17	114	2801063	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.10	117	2809383	10.00	ppbv	-0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.46	95	2533479	11.14	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	111.40%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
9) Propene	2.97	41	36751	0.613	ppbv	95
10) Heptane	8.12	43	355560	2.366	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.46	101	31497	0.250	ppbv	96
13) Ethanol	3.56	45	533024	26.924	ppbv	100
15) Acetone	3.81	43	4939149	30.851	ppbv	96
17) tert-Butyl alcohol	4.26	59	721749	5.067	ppbv	99
19) Isopropyl Alcohol	3.93	45	2067717	19.367	ppbv	100
20) Methylene Chloride	4.31	84	34578m	0.652	ppbv	
22) trans-1,2-Dichloroethene	4.86	96	72148	1.330	ppbv	94
24) 1,1-Dichloroethane	4.99	63	87083	0.557	ppbv #	96
26) Hexane	5.67	57	201570	1.729	ppbv #	45
29) Chloroform	5.74	83	1245077	6.527	ppbv	98
30) Cyclohexane	7.12	84	53931m	0.599	ppbv	
31) cis-1,2-Dichloroethene	5.53	61	612445	5.384	ppbv	95
32) 1,1,1-Trichloroethane	6.50	97	49356m	0.287	ppbv	
34) 2-Butanone	5.22	43	148117	0.851	ppbv	100
38) Trichloroethene	7.84	130	1917679	21.435	ppbv	98
41) Tetrahydrofuran	6.04	42	57155m	0.624	ppbv	
44) 2,2,4-Trimethylpentane	7.87	57	460502	1.122	ppbv #	84
52) Tetrachloroethene	11.24	164	3931200	47.873	ppbv	97
53) Toluene	9.82	91	835813	3.414	ppbv	97
58) Ethyl Benzene	12.73	91	588348	1.694	ppbv	95
59) m/p-Xylene	12.99	91	2973112	9.727	ppbv #	60
60) o-Xylene	13.73	91	731282	2.425	ppbv	97
62) Isopropylbenzene	14.72	105	712956m	1.583	ppbv	

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

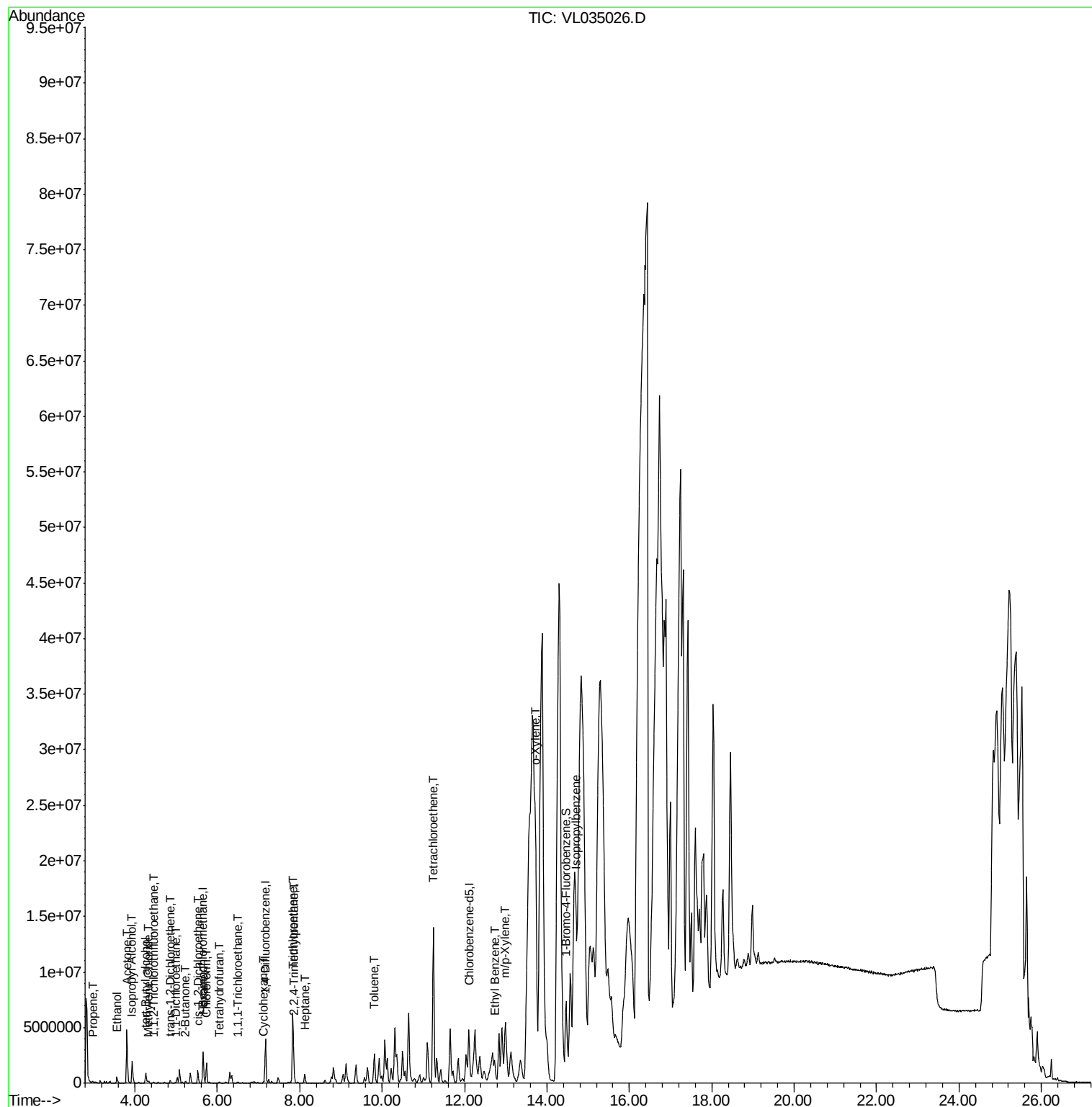
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL051420\
Data File : VL035026.D
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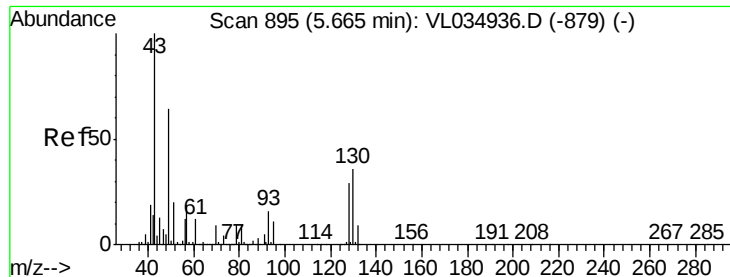
Instrument :
MSVOA_L
ClientSampleId :
SG-3

Manual Integrations
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5/18/2020 1:35:00 PM

Quant Time: May 18 09:13:17 2020
Quant Method : Z:\VOASRV\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# 890

Delta R.T. -0.02 min

Lab File: VL035026.D

Acq: 14 May 2020 19:00

Instrument :

MSVOA_L

ClientSampled :

SG-3

Tot Ion: 49 Resp: 1210966

Ion Ratio Lower Upper

49 100

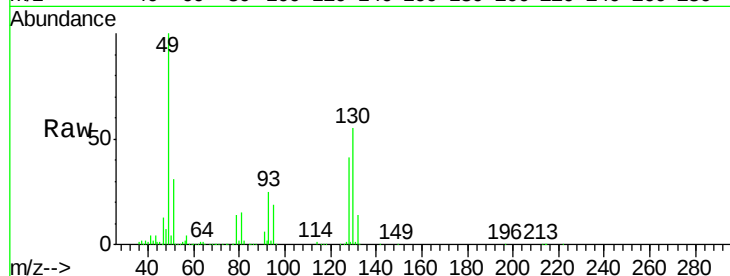
128 45.0 22.1 66.5

130 58.1 29.1 87.3

Manual Integrations
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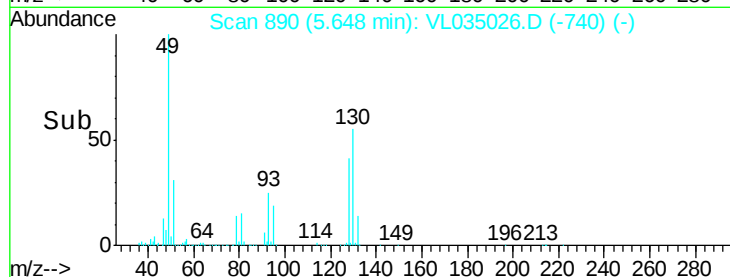


Abundance Ion 49.10 (48.80 to 49.80): VL0

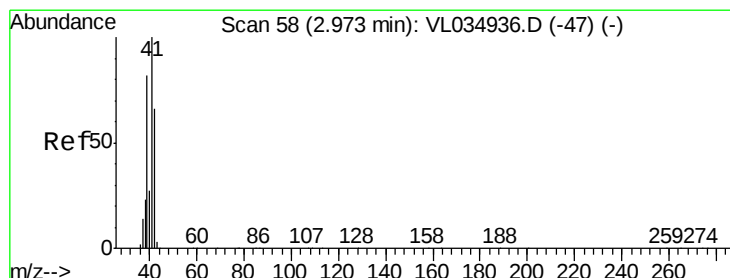
Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0

Time-->



Time-->



#9

Propene

Concen: 0.613 ppbv

RT: 2.97 min Scan# 56

Delta R.T. -0.01 min

Lab File: VL035026.D

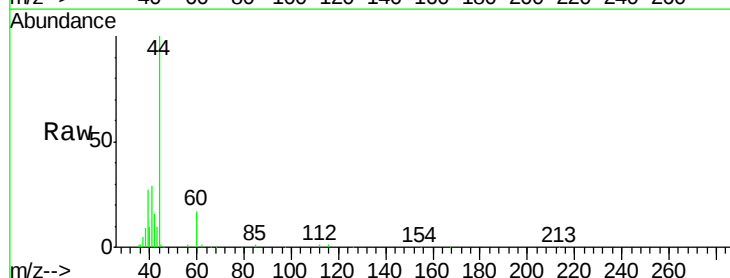
Acq: 14 May 2020 19:00

Tgt Ion: 41 Resp: 36751

Ion Ratio Lower Upper

41 100

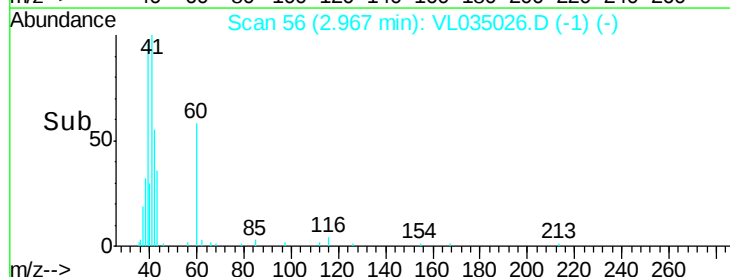
42 63.7 54.5 81.7



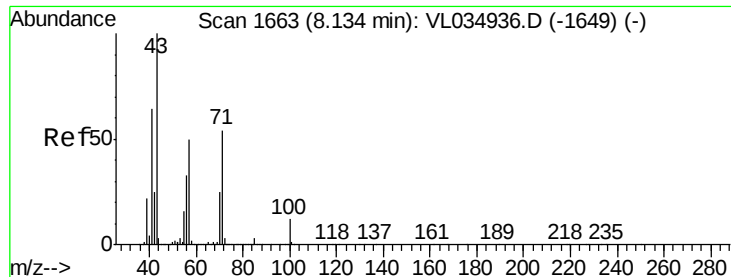
Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Time-->



Time-->



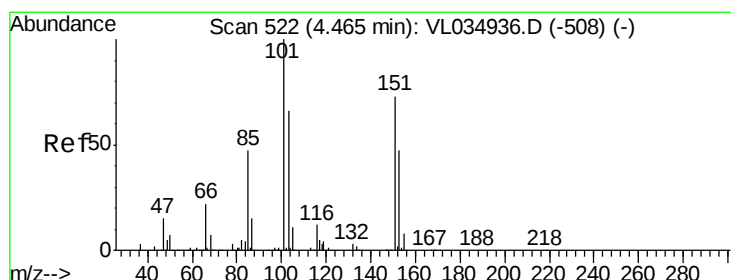
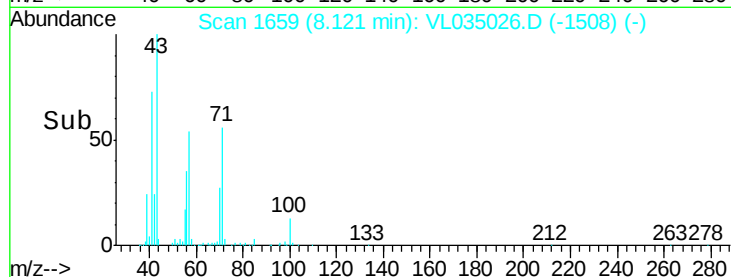
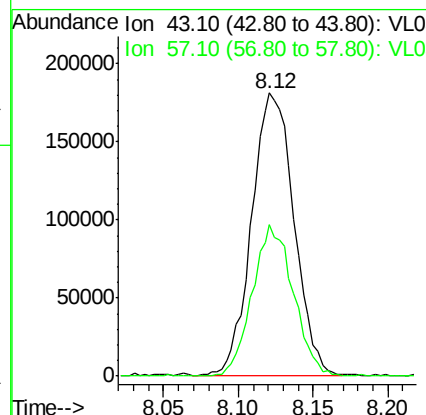
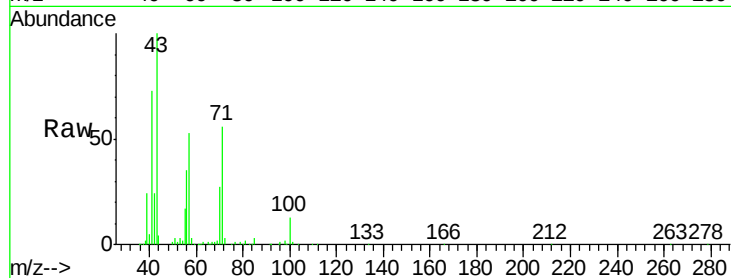
#10
Heptane
Concen: 2.366 ppbv
RT: 8.12 min Scan# 1659
Delta R.T. -0.01 min
Lab File: VL035026.D
Acq: 14 May 2020 19:00

Instrument :
MSVOA_L
ClientSampleId :
SG-3

Tot Ion: 43 Resp: 355560
Ion Ratio Lower Upper
43 100
57 52.2 41.1 61.7

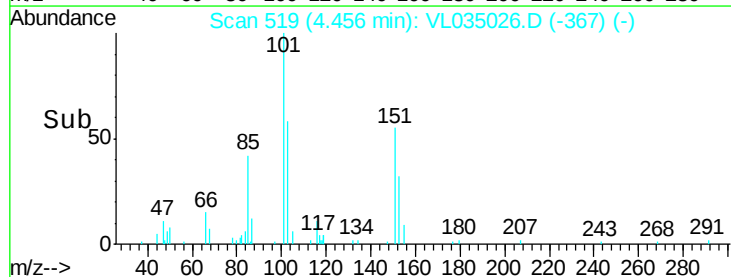
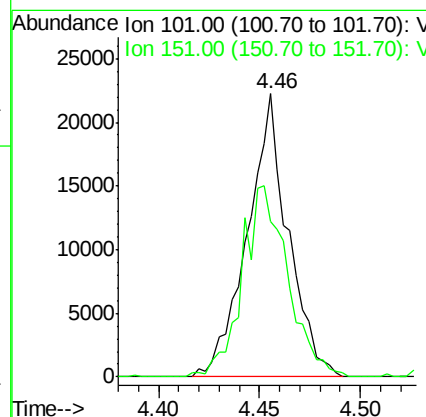
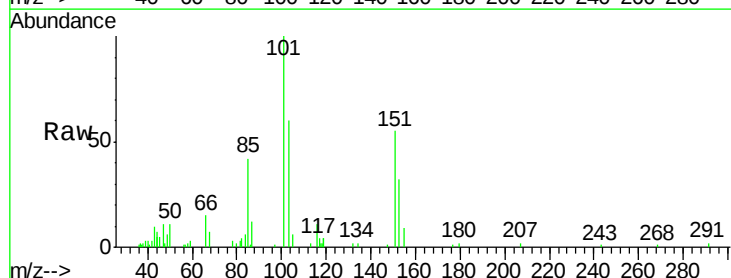
Manual Integrations
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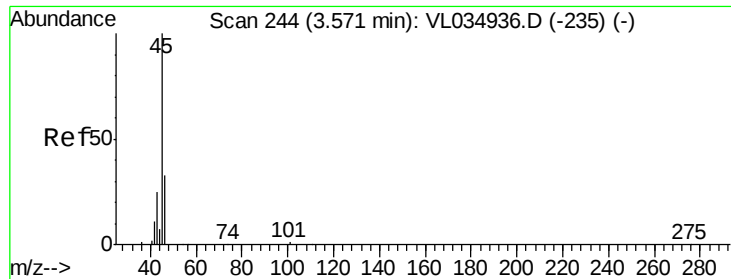
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#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.250 ppbv
RT: 4.46 min Scan# 519
Delta R.T. -0.01 min
Lab File: VL035026.D
Acq: 14 May 2020 19:00

Tgt Ion: 101 Resp: 31497
Ion Ratio Lower Upper
101 100
151 75.4 57.6 86.4





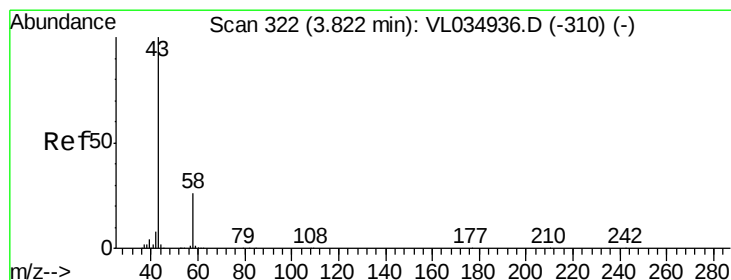
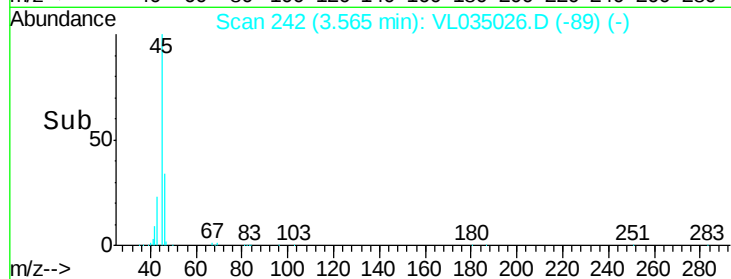
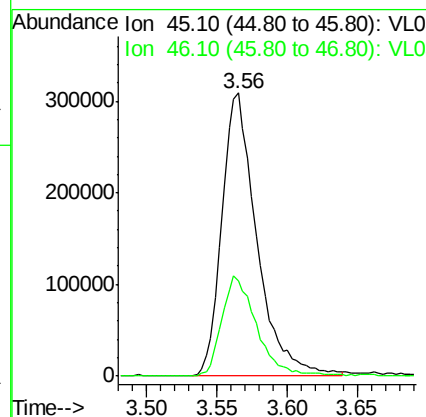
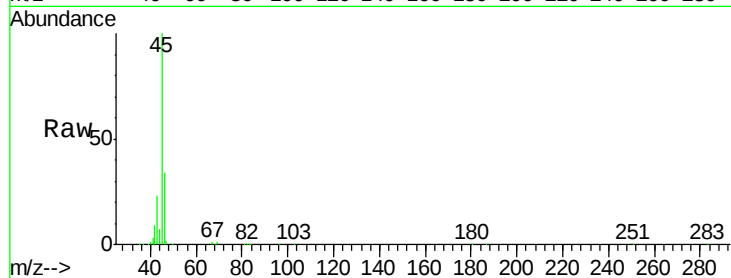
#13
Ethanol
Concen: 26.924 ppbv
RT: 3.56 min Scan# 242
Delta R.T. -0.01 min
Lab File: VL035026.D
Acq: 14 May 2020 19:00

Instrument :
MSVOA_L
ClientSampleId :
SG-3

Tot Ion	Ratio	Lower	Upper
45	100		
46	35.9	14.3	57.3

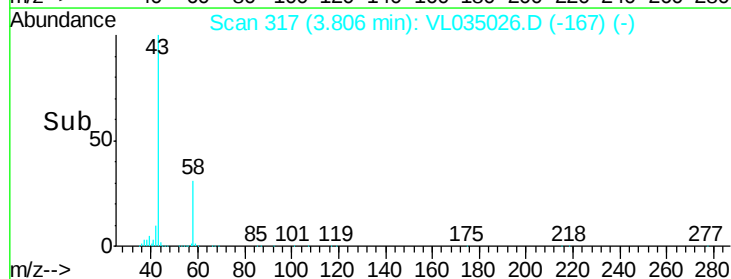
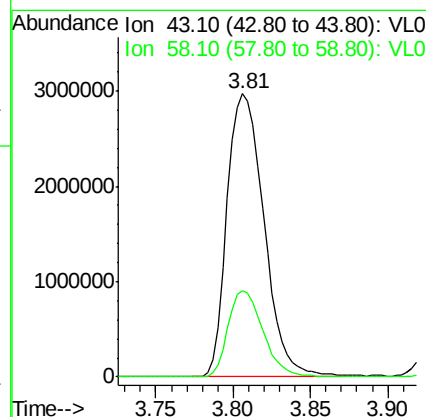
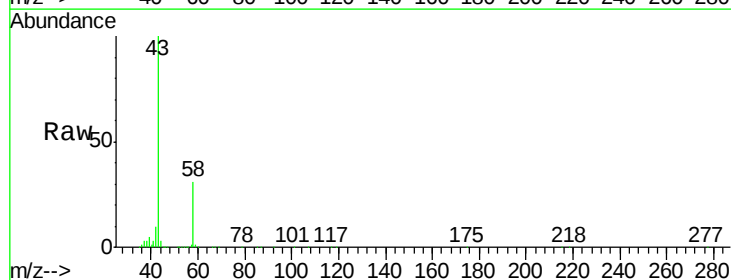
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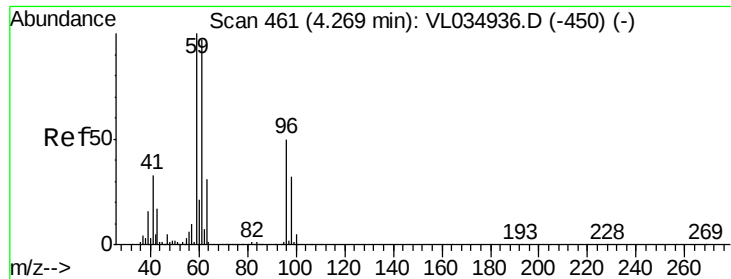
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#15
Acetone
Concen: 30.851 ppbv
RT: 3.81 min Scan# 317
Delta R.T. -0.02 min
Lab File: VL035026.D
Acq: 14 May 2020 19:00

Tgt Ion	Ratio	Lower	Upper
43	100		
58	28.9	21.7	32.5





#17

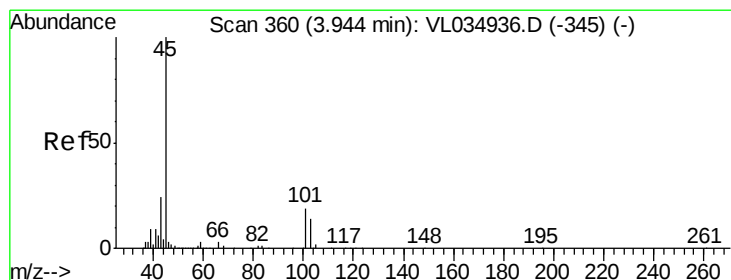
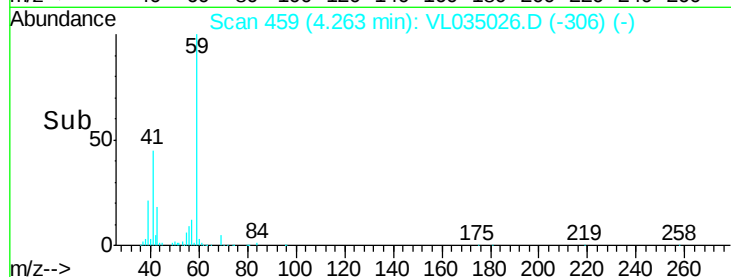
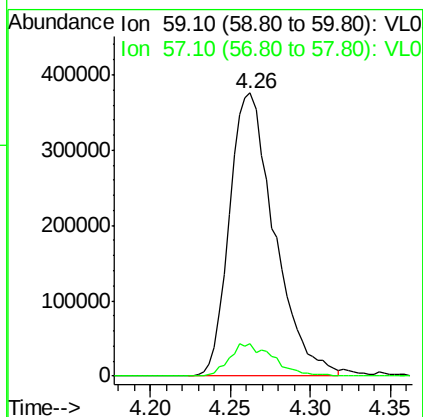
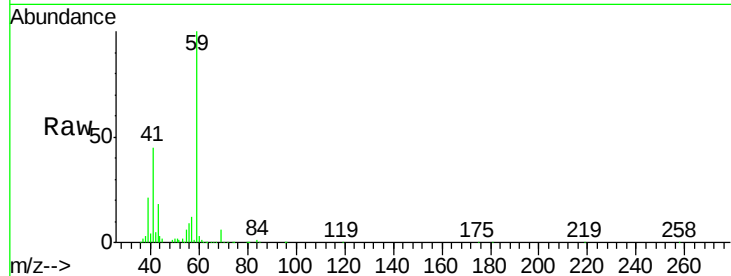
tert-Butyl alcohol
 Concen: 5.067 ppbv
 RT: 4.26 min Scan# 459
 Delta R.T. -0.01 min
 Lab File: VL035026.D
 Acq: 14 May 2020 19:00

Instrument :
 MSVOA_L
 ClientSampled :
 SG-3

Tot Ion: 59 Resp: 721749
 Ion Ratio Lower Upper
 59 100
 57 11.5 8.7 13.1

Manual Integrations
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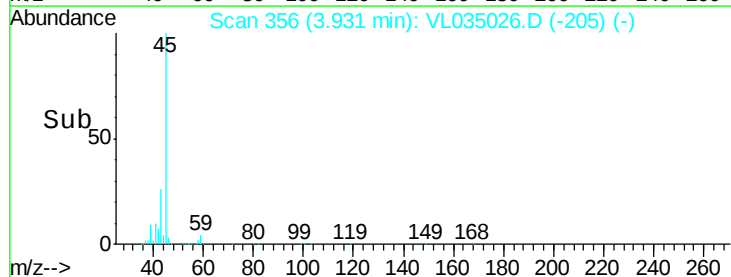
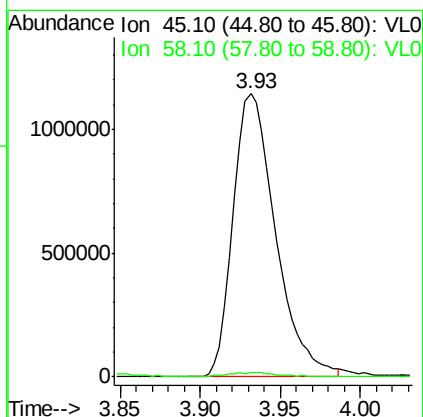
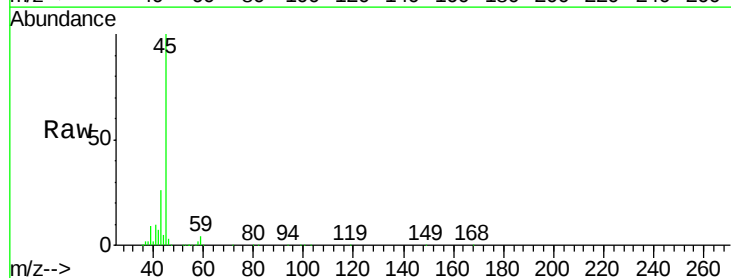
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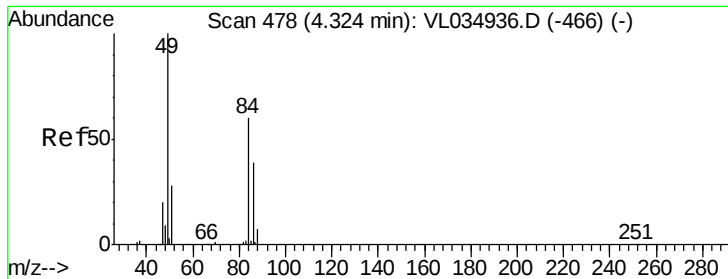


#19

Isopropyl Alcohol
 Concen: 19.367 ppbv
 RT: 3.93 min Scan# 356
 Delta R.T. -0.01 min
 Lab File: VL035026.D
 Acq: 14 May 2020 19:00

Tgt Ion: 45 Resp: 2067717
 Ion Ratio Lower Upper
 45 100
 58 2.2 1.7 2.5





#20

Methylene Chloride

Concen: 0.652 ppbv m

RT: 4.31 min Scan# 475

Delta R.T. -0.01 min

Lab File: VL035026.D

Acq: 14 May 2020 19:00

Instrument :

MSVOA_L

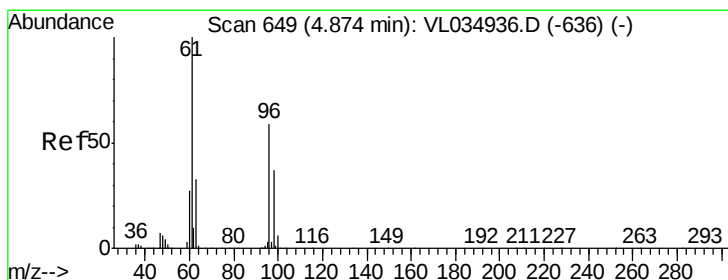
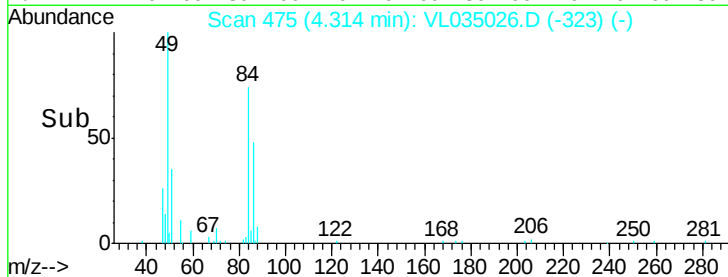
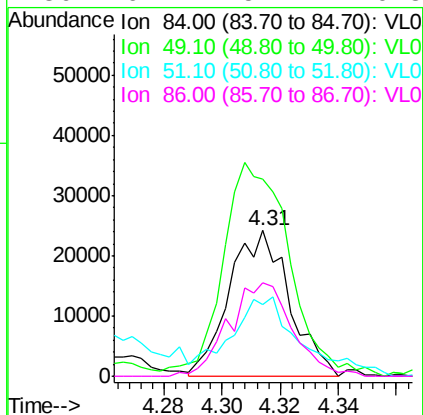
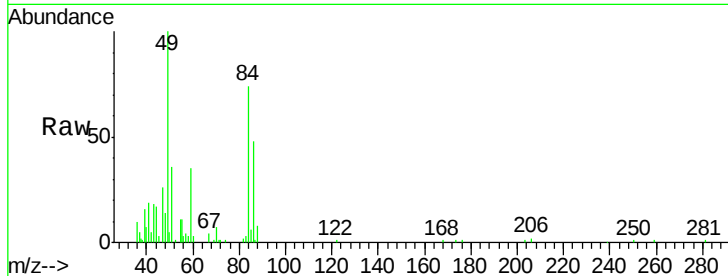
ClientSampled :

SG-3

Tot Ion:	84	Resp:	34578
Ion	Ratio	Lower	Upper
84	100		
49	134.8	132.5	198.7
51	49.2	38.4	57.6
86	64.1	51.2	76.8

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#22

trans-1,2-Dichloroethene

Concen: 1.330 ppbv

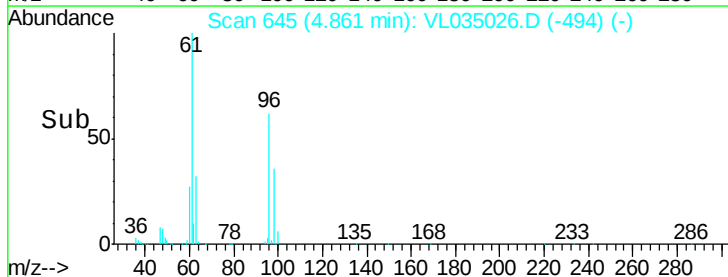
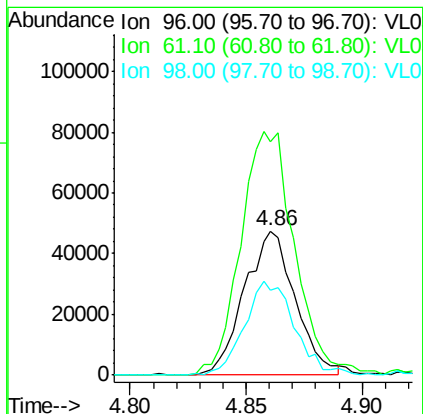
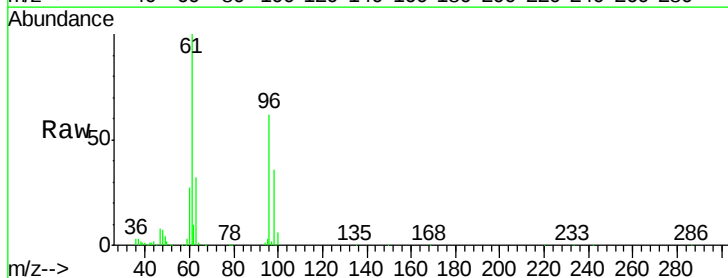
RT: 4.86 min Scan# 645

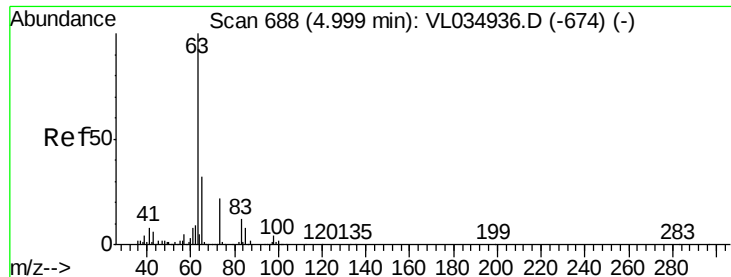
Delta R.T. -0.01 min

Lab File: VL035026.D

Acq: 14 May 2020 19:00

Tgt Ion:	96	Resp:	72148
Ion	Ratio	Lower	Upper
96	100		
61	160.8	135.3	202.9
98	58.8	50.4	75.6





#24

1,1-Dichloroethane

Concen: 0.557 ppbv

RT: 4.99 min Scan# 684

Delta R.T. -0.01 min

Lab File: VL035026.D

Acq: 14 May 2020 19:00

Instrument :

MSVOA_L

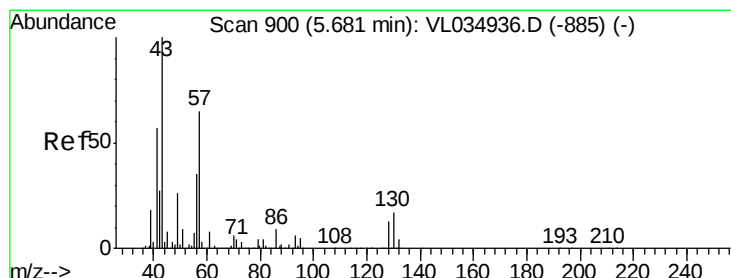
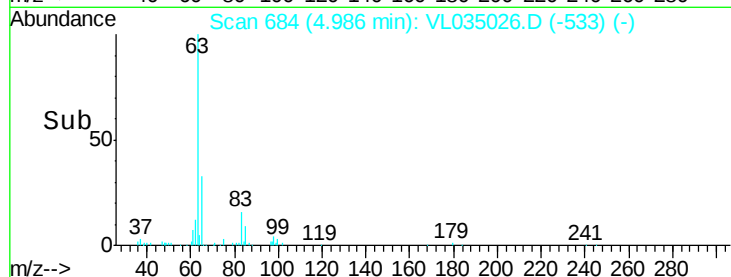
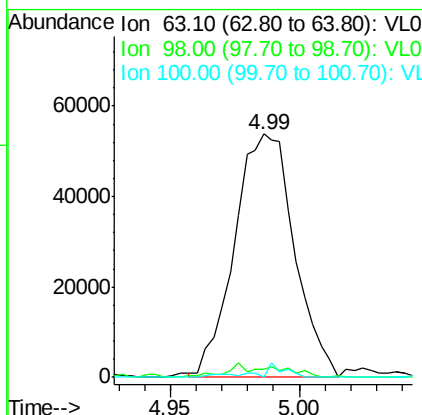
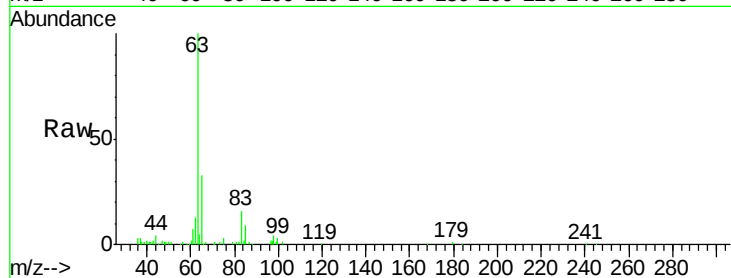
ClientSampled :

SG-3

Tot Ion	Ratio	Lower	Upper
63	100		
98	3.0	2.0	6.0
100	0.0	1.1	3.5#

Manual Integrations
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#26

Hexane

Concen: 1.729 ppbv

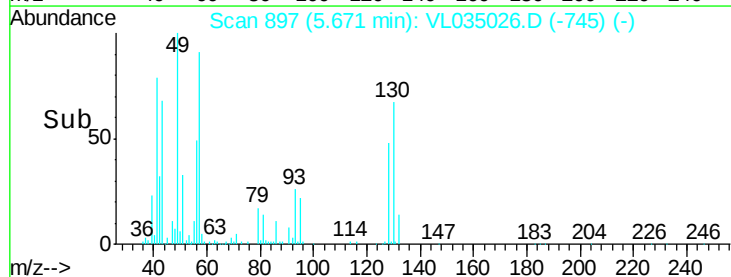
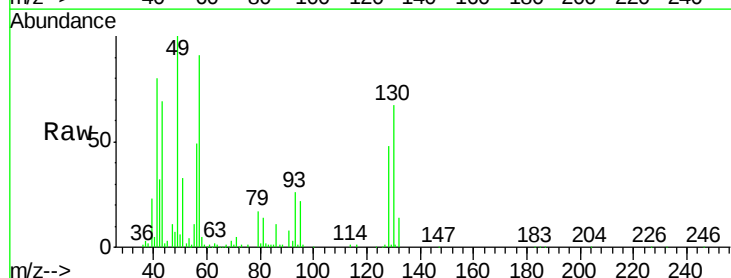
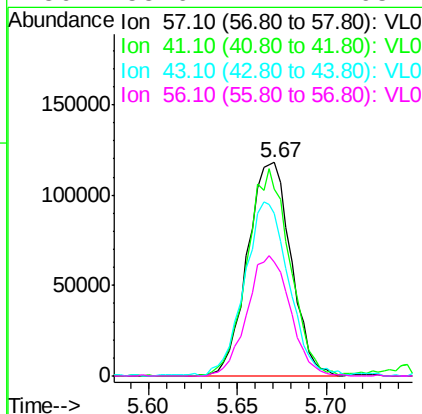
RT: 5.67 min Scan# 897

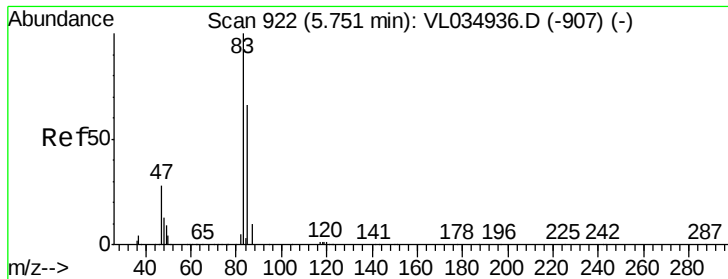
Delta R.T. -0.01 min

Lab File: VL035026.D

Acq: 14 May 2020 19:00

Tgt Ion	Ratio	Lower	Upper
57	100		
41	96.1	72.7	109.1
43	84.4	182.1	273.1#
56	55.6	42.2	63.2





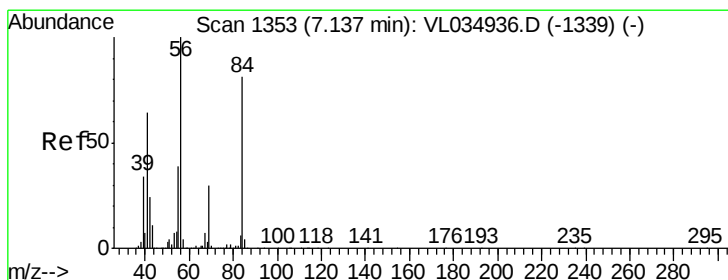
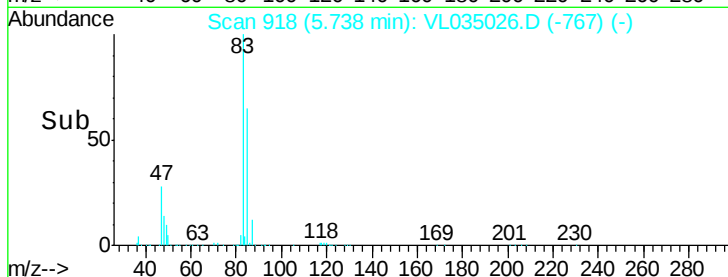
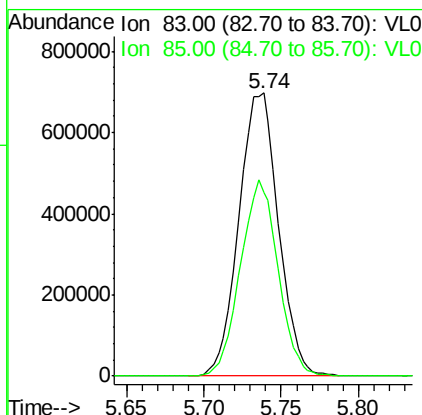
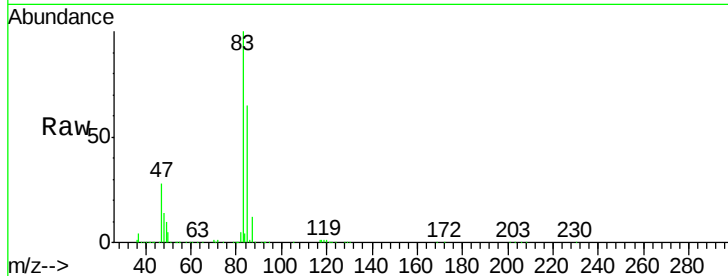
#29
Chloroform
Concen: 6.527 ppbv
RT: 5.74 min Scan# 918
Delta R.T. -0.01 min
Lab File: VL035026.D
Acq: 14 May 2020 19:00

Instrument :
MSVOA_L
ClientSampleId :
SG-3

Tot Ion: 83 Resp: 1245077
Ion Ratio Lower Upper
83 100
85 64.6 53.0 79.6

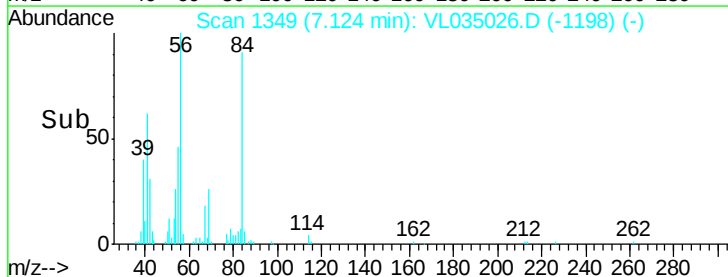
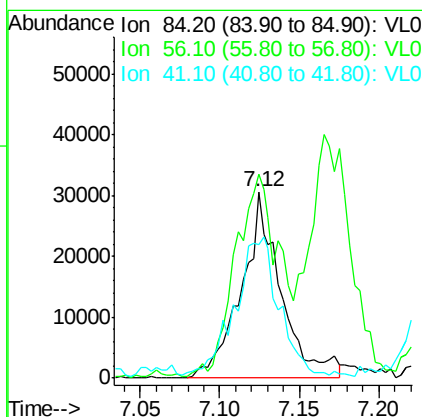
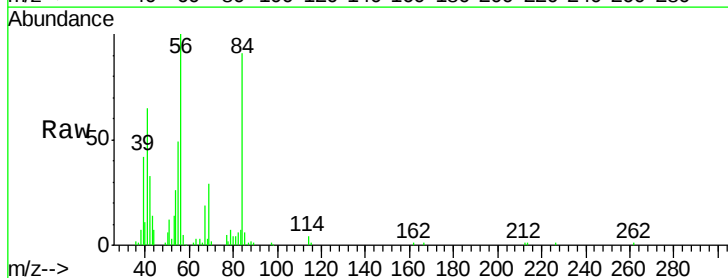
Manual Integrations
APPROVED

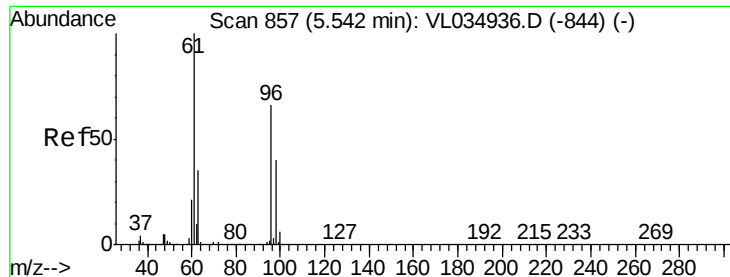
MMDadoda
5/18/2020 1:35:00 PM



#30
Cyclohexane
Concen: 0.599 ppbv m
RT: 7.12 min Scan# 1349
Delta R.T. -0.01 min
Lab File: VL035026.D
Acq: 14 May 2020 19:00

Tgt Ion: 84 Resp: 53931
Ion Ratio Lower Upper
84 100
56 130.0 111.4 167.2
41 82.7 66.7 100.1





#31

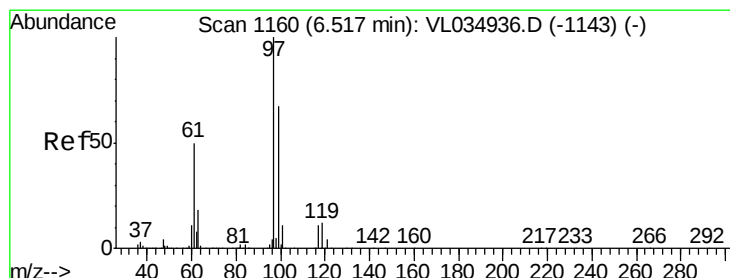
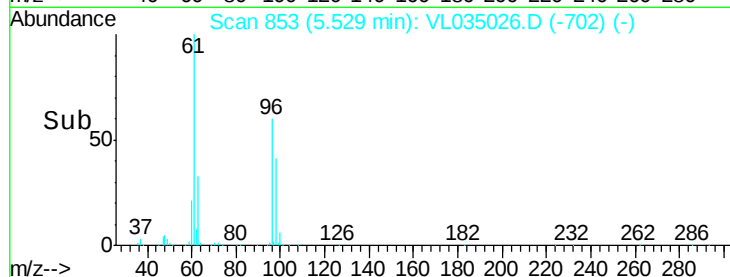
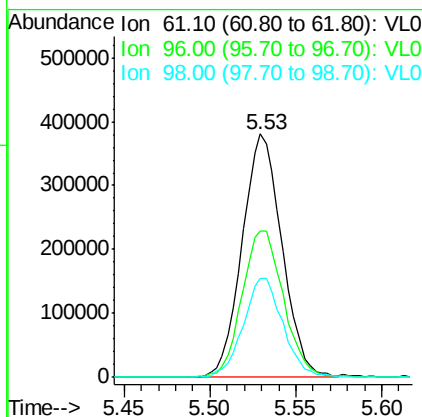
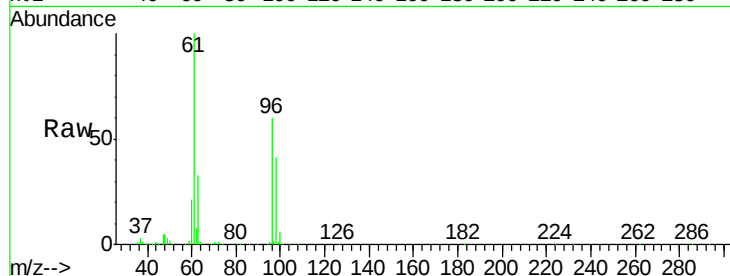
cis-1,2-Dichloroethene
 Concen: 5.384 ppbv
 RT: 5.53 min Scan# 853
 Delta R.T. -0.01 min
 Lab File: VL035026.D
 Acq: 14 May 2020 19:00

Instrument :
 MSVOA_L
 ClientSampleId :
 SG-3

Tot Ion:	61	Resp:	612445
Ion	Ratio	Lower	Upper
61	100		
96	60.3	53.0	79.6
98	40.8	32.2	48.2

Manual Integrations
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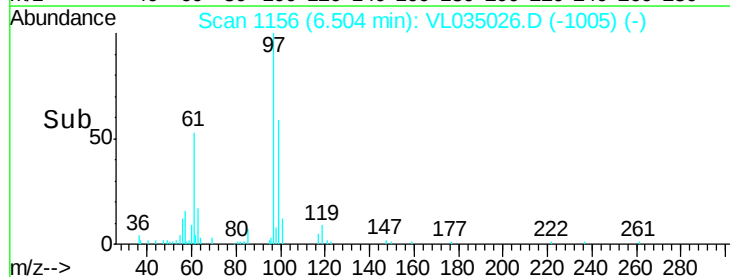
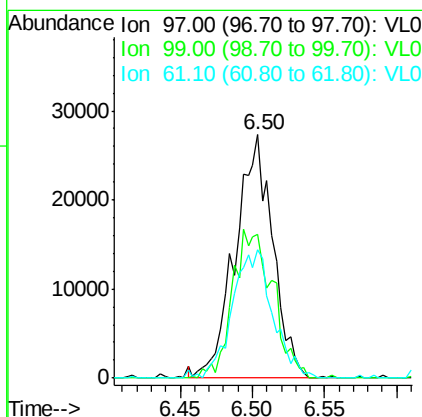
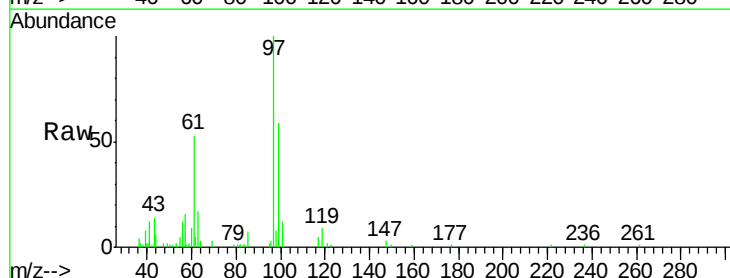
MMDadoda
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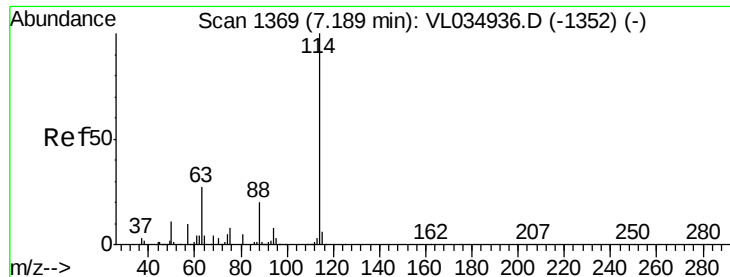


#32

1,1,1-Trichloroethane
 Concen: 0.287 ppbv m
 RT: 6.50 min Scan# 1156
 Delta R.T. -0.01 min
 Lab File: VL035026.D
 Acq: 14 May 2020 19:00

Tgt Ion:	97	Resp:	49356
Ion	Ratio	Lower	Upper
97	100		
99	64.8	52.1	78.1
61	0.0	41.8	62.8#





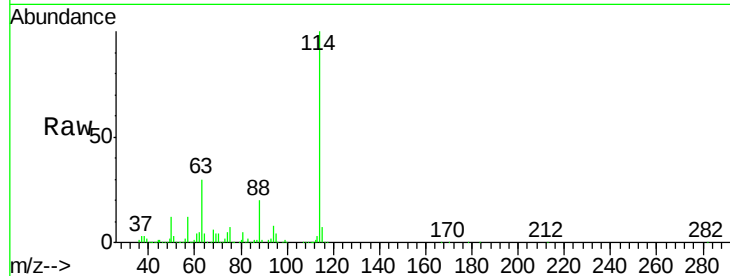
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.17 min Scan# 1364
 Delta R.T. -0.02 min
 Lab File: VL035026.D
 Acq: 14 May 2020 19:00

Instrument :
 MSVOA_L
 ClientSampleId :
 SG-3

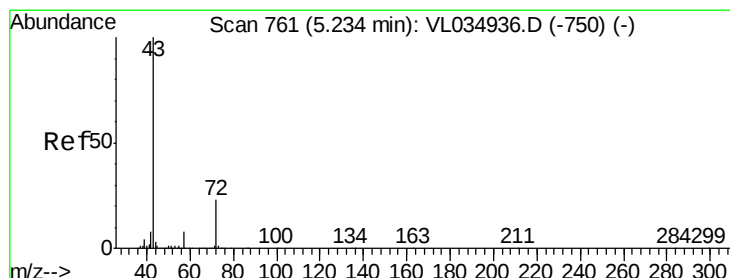
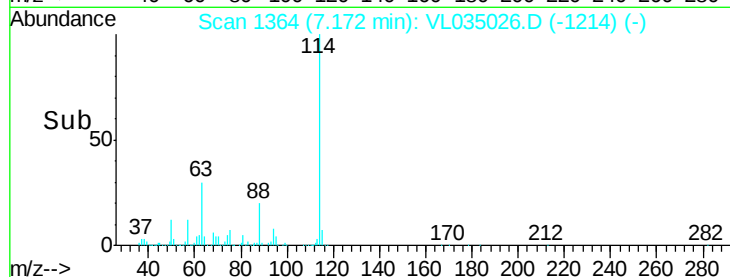
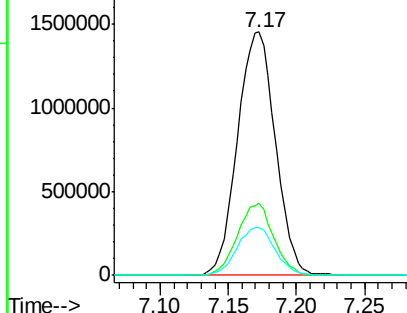
Tot Ion	Ratio	Lower	Upper
114	100		
63	28.3	22.2	33.4
88	19.7	15.5	23.3

Manual Integrations
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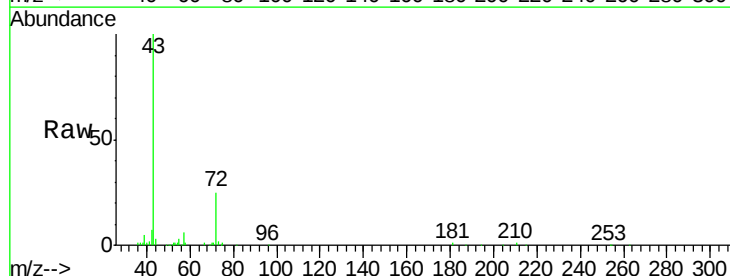


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

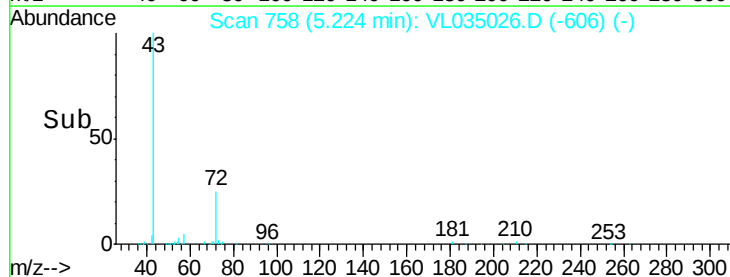
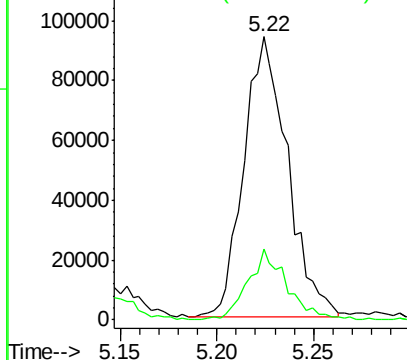


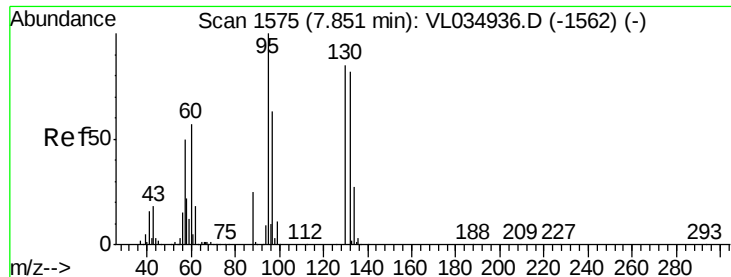
#34
 2-Butanone
 Concen: 0.851 ppbv
 RT: 5.22 min Scan# 758
 Delta R.T. -0.01 min
 Lab File: VL035026.D
 Acq: 14 May 2020 19:00

Tgt Ion	Ratio	Lower	Upper
43	100		
72	22.7	18.0	27.0



Abundance Ion 43.10 (42.80 to 43.80): VL0
 Ion 72.10 (71.80 to 72.80): VL0





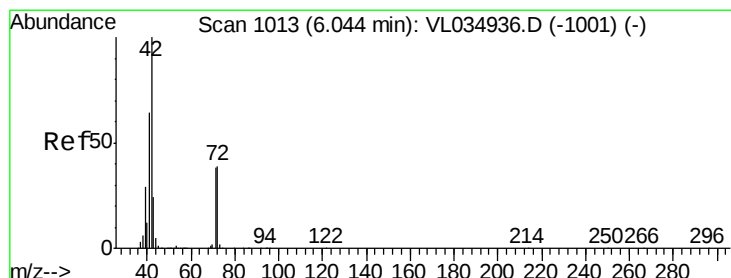
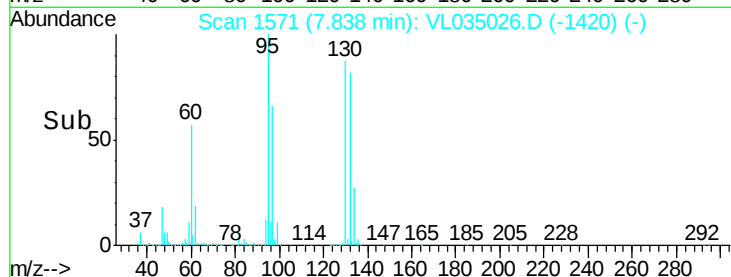
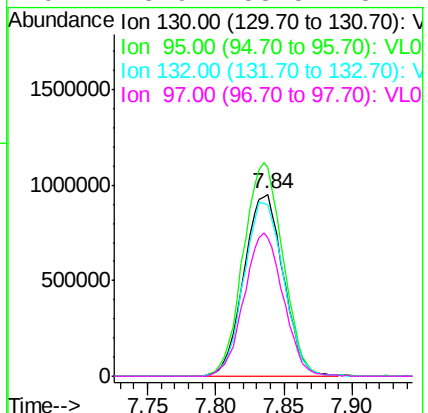
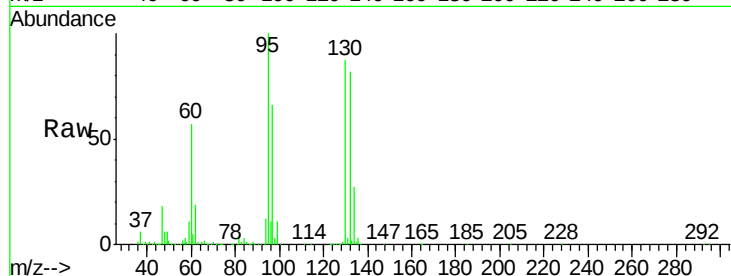
#38
 Trichloroethene
 Concen: 21.435 ppbv
 RT: 7.84 min Scan# 1571
 Delta R.T. -0.01 min
 Lab File: VL035026.D
 Acq: 14 May 2020 19:00

Instrument :
 MSVOA_L
 ClientSampleId :
 SG-3

Tot Ion	Ratio	Lower	Upper
130	100		
95	114.2	93.4	140.0
132	94.1	76.4	114.6
97	75.9	58.5	87.7

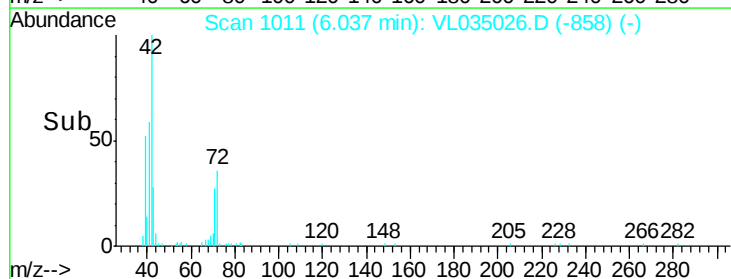
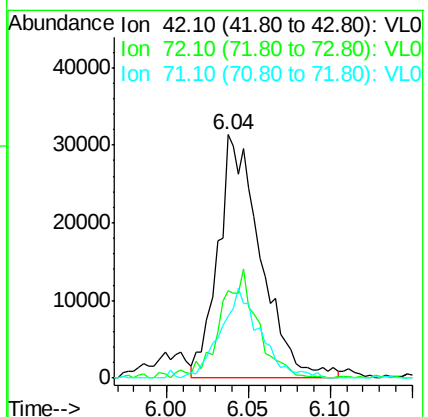
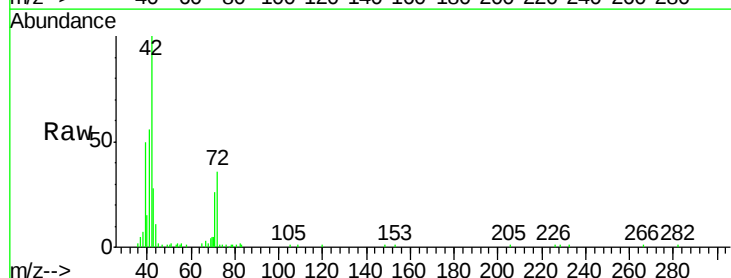
Manual Integrations
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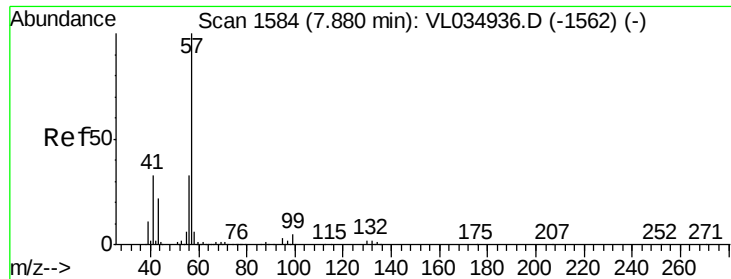
MMDadoda
 5/18/2020 1:35:00 PM



#41
 Tetrahydrofuran
 Concen: 0.624 ppbv m
 RT: 6.04 min Scan# 1011
 Delta R.T. -0.01 min
 Lab File: VL035026.D
 Acq: 14 May 2020 19:00

Tgt Ion	Ratio	Lower	Upper
42	100		
72	0.0	31.4	47.0#
71	0.0	29.8	44.8#





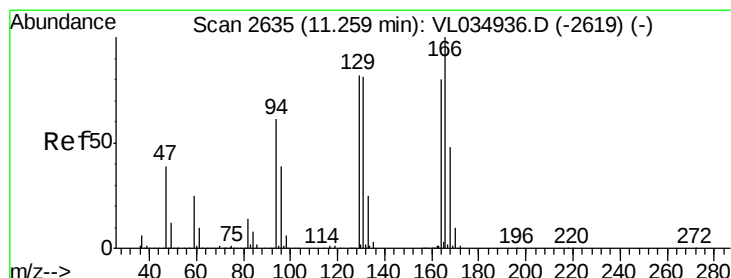
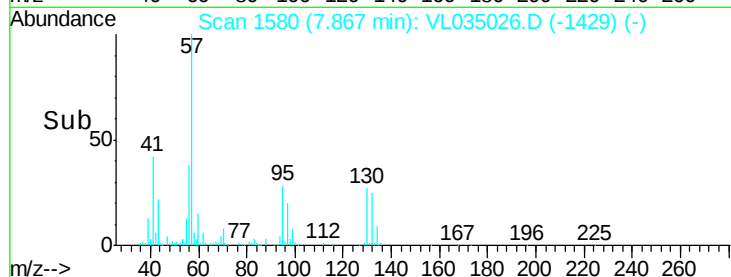
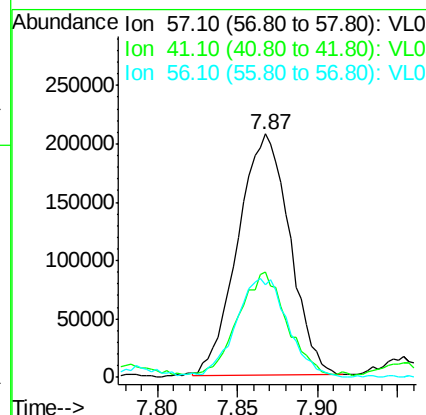
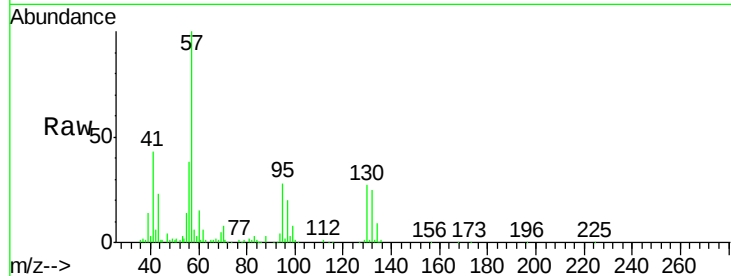
#44
 2,2,4-Trimethylpentane
 Concen: 1.122 ppbv
 RT: 7.87 min Scan# 1580
 Delta R.T. -0.01 min
 Lab File: VL035026.D
 Acq: 14 May 2020 19:00

Instrument :
 MSVOA_L
 ClientSampled :
 SG-3

Tot Ion	Ratio	Lower	Upper
57	100		
41	41.7	26.4	39.6#
56	41.1	25.5	38.3#

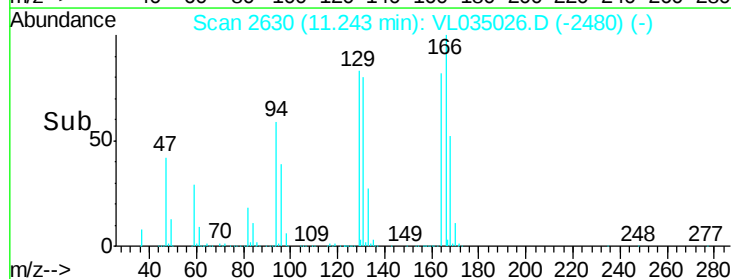
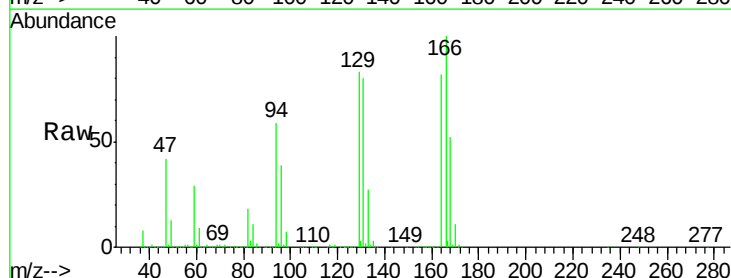
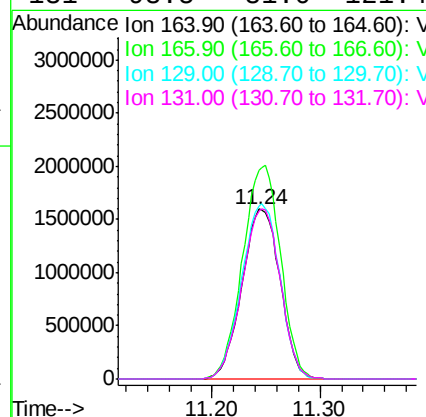
Manual Integrations
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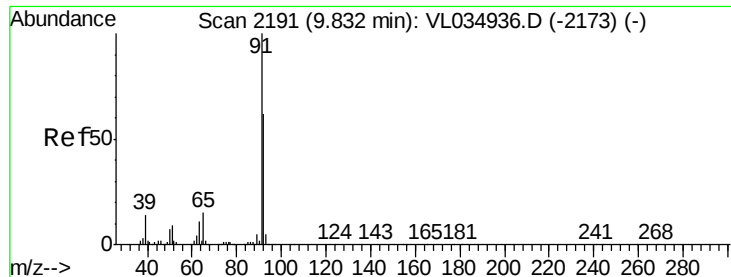
MMDadoda
 5/18/2020 1:35:00 PM



#52
 Tetrachloroethene
 Concen: 47.873 ppbv
 RT: 11.24 min Scan# 2630
 Delta R.T. -0.02 min
 Lab File: VL035026.D
 Acq: 14 May 2020 19:00

Tgt Ion	Ratio	Lower	Upper
164	100		
166	122.4	100.7	151.1
129	101.6	83.0	124.4
131	98.5	81.0	121.4





#53

Toluene

Concen: 3.414 ppbv

RT: 9.82 min Scan# 2186

Delta R.T. -0.02 min

Lab File: VL035026.D

Acq: 14 May 2020 19:00

Instrument :

MSVOA_L

ClientSampleId :

SG-3

Tot Ion: 91 Resp: 835813

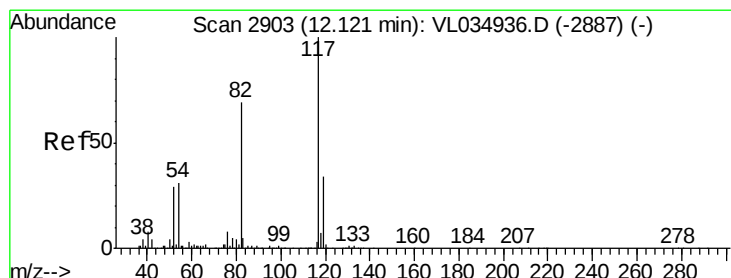
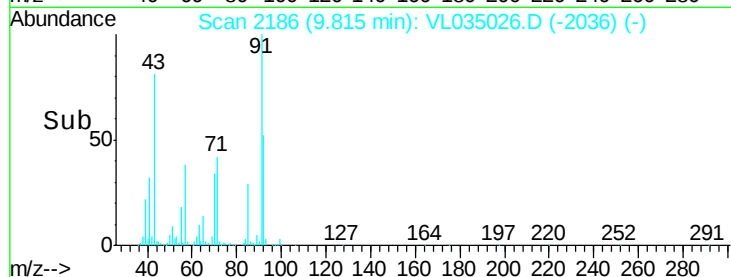
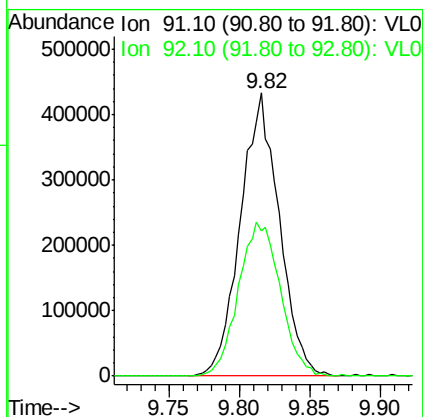
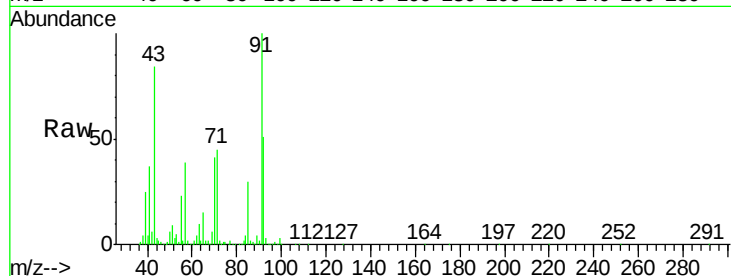
Ion Ratio Lower Upper

91 100

92 58.6 48.6 73.0

Manual Integrations
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5/18/2020 1:35:00 PM



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.10 min Scan# 2898

Delta R.T. -0.02 min

Lab File: VL035026.D

Acq: 14 May 2020 19:00

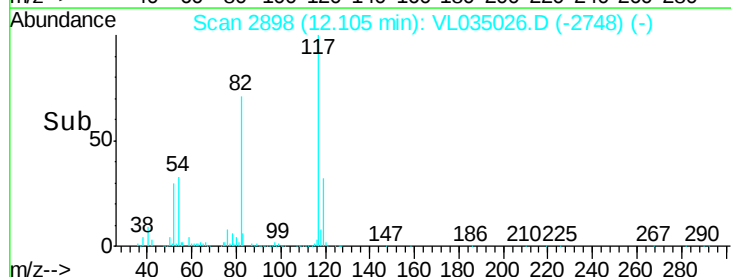
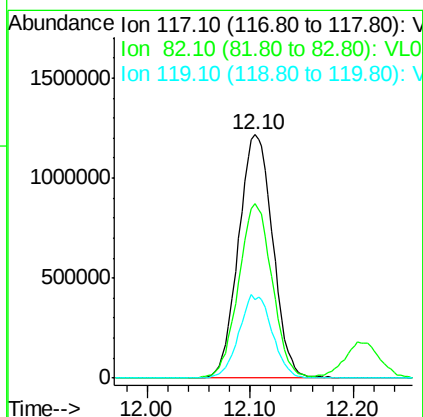
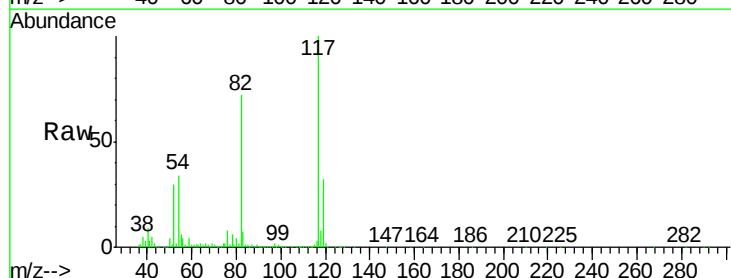
Tgt Ion: 117 Resp: 2809383

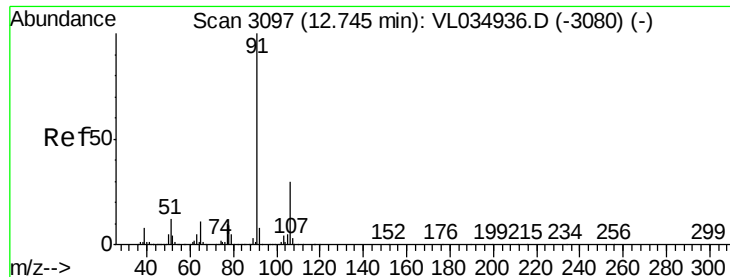
Ion Ratio Lower Upper

117 100

82 70.4 53.1 79.7

119 33.3 26.7 40.1





#58

Ethyl Benzene

Concen: 1.694 ppbv

RT: 12.73 min Scan# 3093

Delta R.T. -0.01 min

Lab File: VL035026.D

Acq: 14 May 2020 19:00

Instrument :

MSVOA_L

ClientSampled :

SG-3

Tot Ion: 91 Resp: 588348

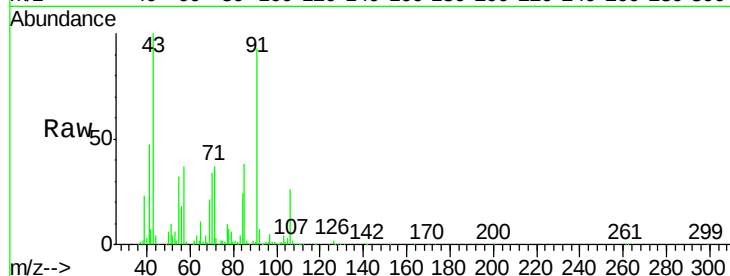
Ion Ratio Lower Upper

91 100

106 27.8 24.2 36.4

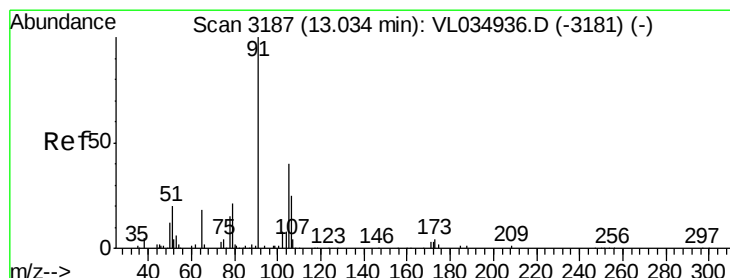
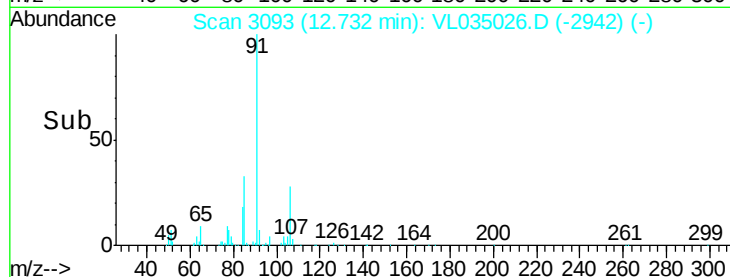
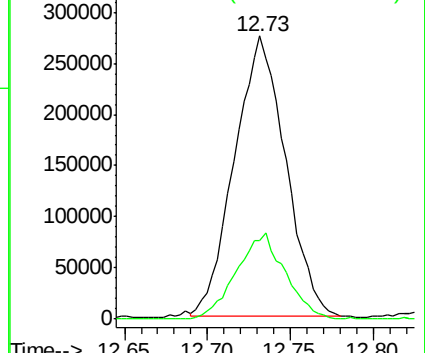
Manual Integrations
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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#59

m/p-Xylene

Concen: 9.727 ppbv

RT: 12.99 min Scan# 3173

Delta R.T. -0.05 min

Lab File: VL035026.D

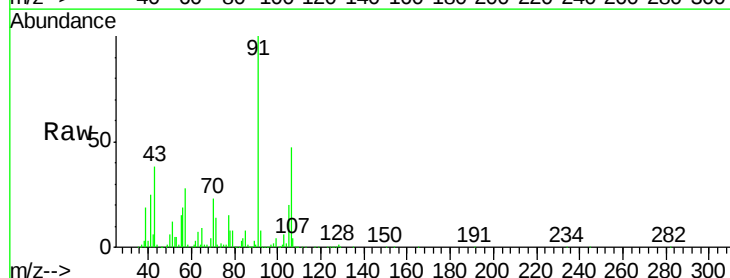
Acq: 14 May 2020 19:00

Tgt Ion: 91 Resp: 2973112

Ion Ratio Lower Upper

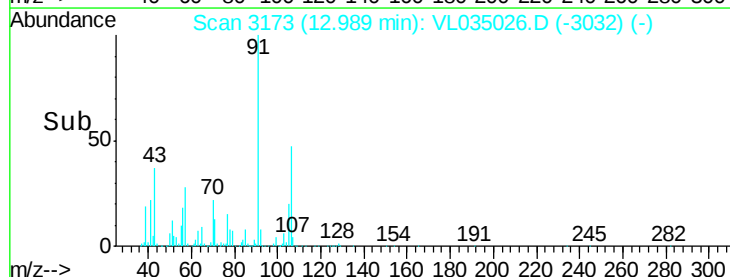
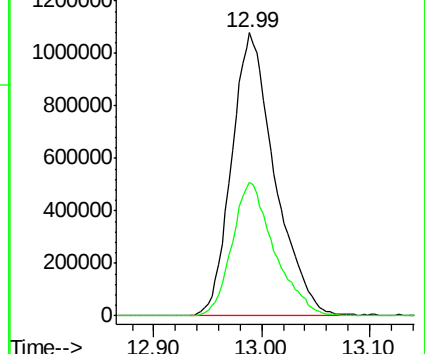
91 100

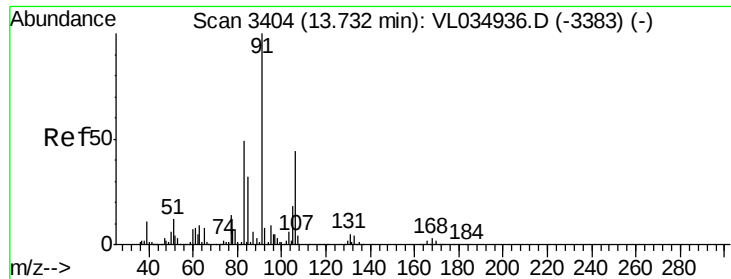
106 46.8 66.0 99.0#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





#60

o-Xylene

Concen: 2.425 ppbv

RT: 13.73 min Scan# 3402

Delta R.T. -0.01 min

Lab File: VL035026.D

Acq: 14 May 2020 19:00

Instrument :

MSVOA_L

ClientSampled :

SG-3

Tot Ion: 91 Resp: 731282

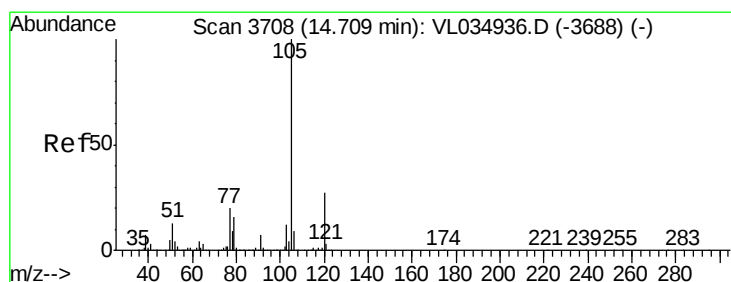
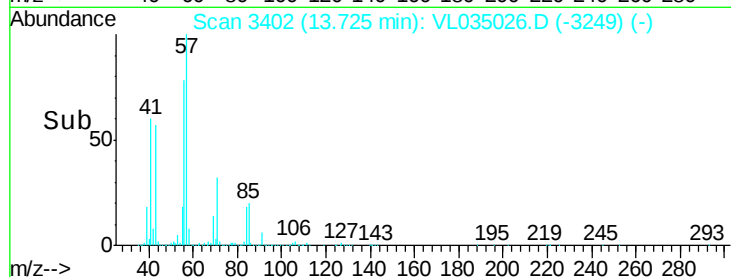
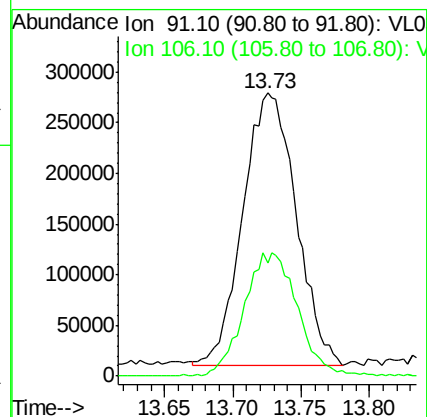
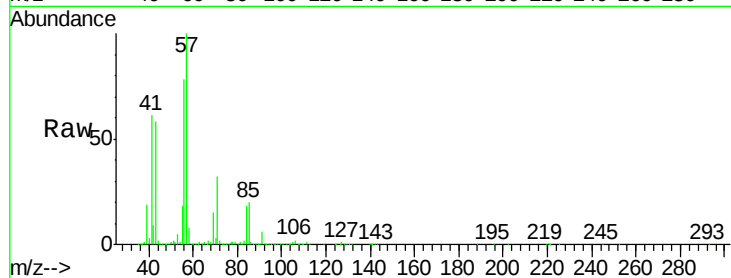
Ion Ratio Lower Upper

91 100

106 45.3 21.9 65.5

Manual Integrations
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#62

Isopropylbenzene

Concen: 1.583 ppbv m

RT: 14.72 min Scan# 3711

Delta R.T. 0.01 min

Lab File: VL035026.D

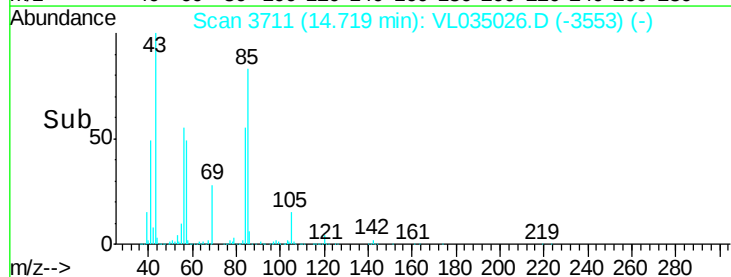
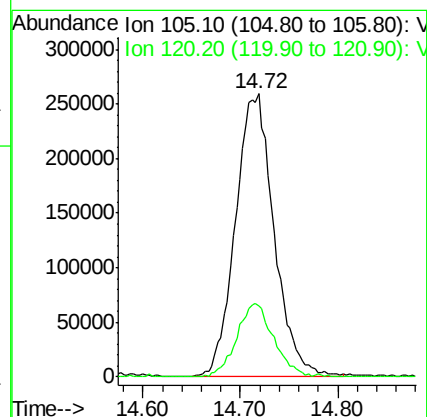
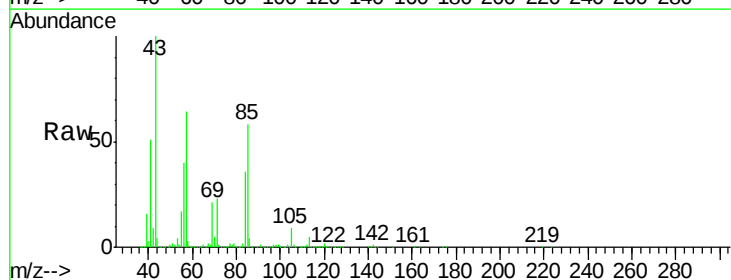
Acq: 14 May 2020 19:00

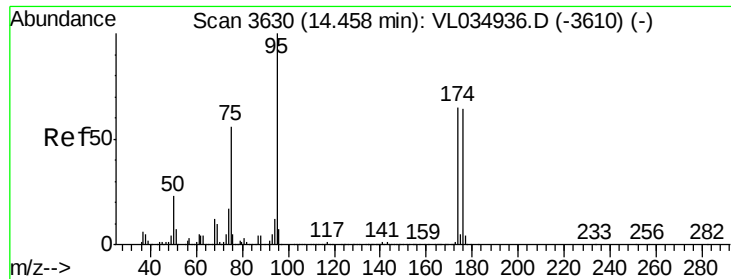
Tgt Ion: 105 Resp: 712956

Ion Ratio Lower Upper

105 100

120 0.0 20.6 31.0#





#68
 1-Bromo-4-Fluorobenzene
 Concen: 11.141 ppbv
 RT: 14.46 min Scan# 3630
 Delta R.T. -0.00 min
 Lab File: VL035026.D
 Acq: 14 May 2020 19:00

Instrument :
 MSVOA_L
 ClientSampleId :
 SG-3

Tot Ion	Ratio	Lower	Upper
95	100		
174	64.8	51.5	77.3
175	5.0	3.8	5.8

Manual Integrations
 APPROVED

MMDadoda
 5/18/2020 1:35:00 PM

