

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL032621\
 Data File : VL036523.D
 Acq On : 26 Mar 2021 21:10
 Operator : SY/AP
 Sample : M1760-01
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IAS-4-STORAGE-RM

Manual Integrations
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 3/29/2021 4:39:38 PM

Quant Time: Mar 28 21:21:00 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032521AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Mar 28 2021
 QLast Update : Thu Mar 25 09:42:40 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1416356	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	3198169	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	2750738	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.43	95	2209197	10.08	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.80%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.05	85	54085	0.234	ppbv	88
3) Chlorodifluoromethane	2.98	51	76425m	0.289	ppbv	
4) Chloromethane	3.14	50	50206	0.537	ppbv #	81
9) Propene	3.02	41	73414m	0.870	ppbv	
11) Trichlorofluoromethane	3.95	101	50471	0.214	ppbv	98
13) Ethanol	3.61	45	661909	65.887	ppbv	95
15) Acetone	3.85	43	950767	6.820	ppbv	97
19) Isopropyl Alcohol	3.98	45	258138m	3.366	ppbv	
20) Methylene Chloride	4.35	84	226203	3.466	ppbv	96
26) Hexane	5.69	57	690675	4.491	ppbv #	48
30) Cyclohexane	7.13	84	32949m	0.264	ppbv	
34) 2-Butanone	5.25	43	71671	0.459	ppbv #	90
35) Carbon Tetrachloride	7.02	117	16852m	0.069	ppbv	
36) Benzene	6.89	78	65538	0.222	ppbv #	95
53) Toluene	9.82	91	491985	1.566	ppbv	97
59) m/p-Xylene	12.98	91	69537m	0.199	ppbv	

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

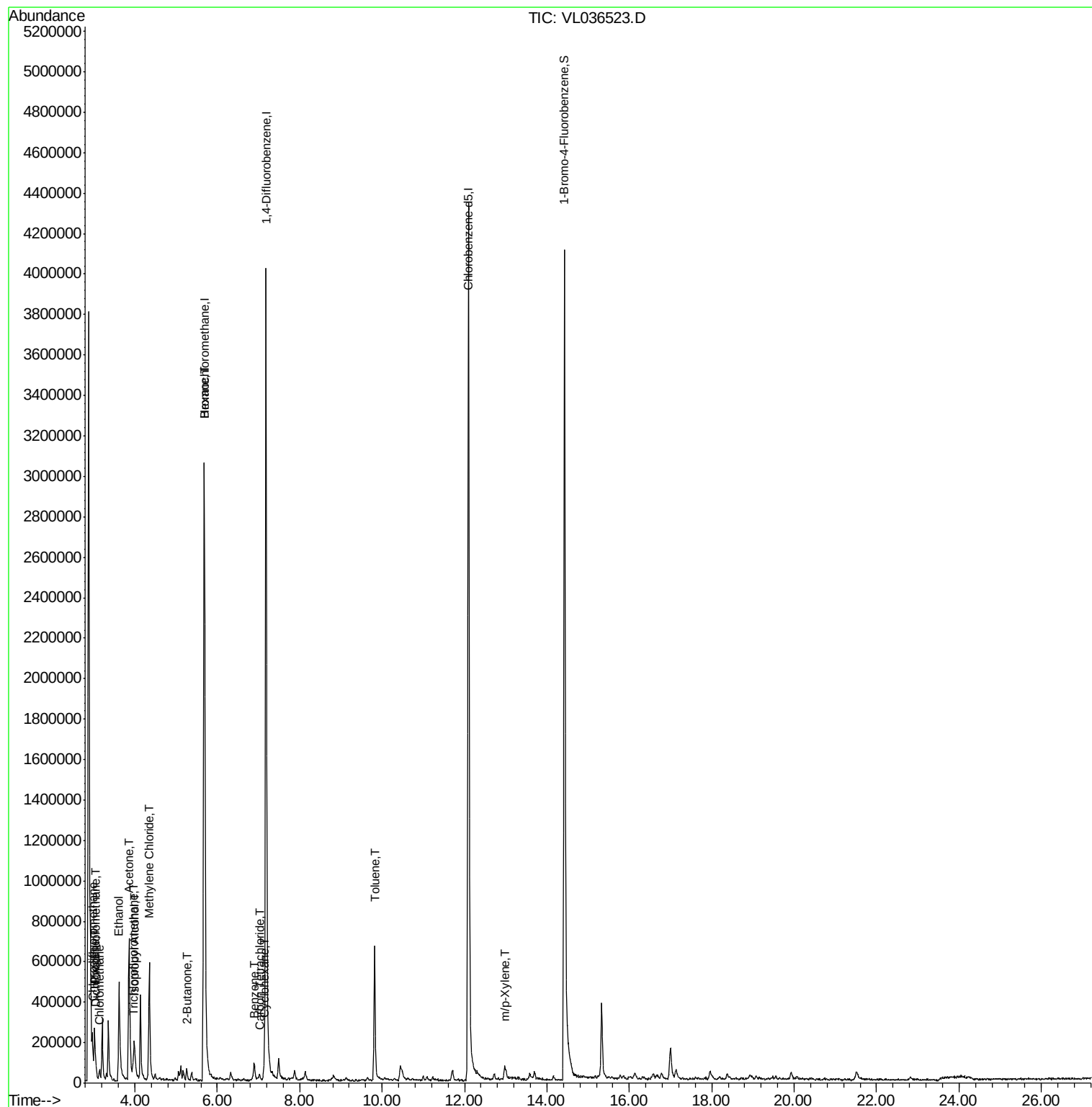
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL032621\
Data File : VL036523.D
Acq On : 26 Mar 2021 21:10
Operator : SY/AP
Sample : M1760-01
Misc : 400mL/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

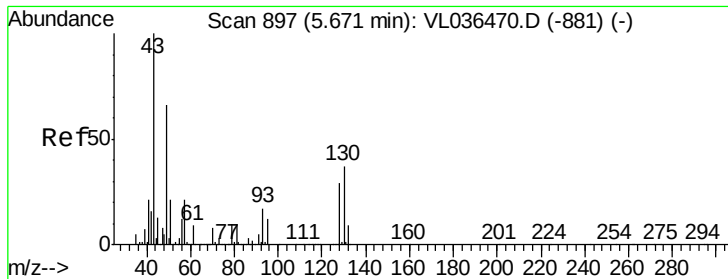
Instrument :
MSVOA_L
ClientSampleId :
IAS-4-STORAGE-RM

Manual Integrations
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Quant Time: Mar 28 21:21:00 2021
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL032521AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Mar
QLast Update : Thu Mar 25 09:42:40 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 min Scan# 897

Delta R.T. -0.00 min

Lab File: VL036523.D

Acq: 26 Mar 2021 21:10

Instrument :

MSVOA_L

ClientSampleId :

IAS-4-STORAGE-RM

Tot Ion: 49 Resp: 1416356

Ion Ratio Lower Upper

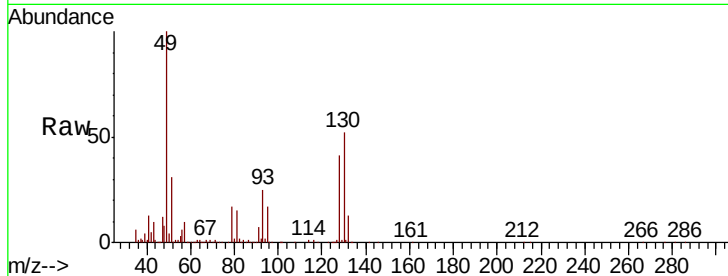
49 100

128 43.8 23.5 70.6

130 55.6 29.1 87.4

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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V

800000

600000

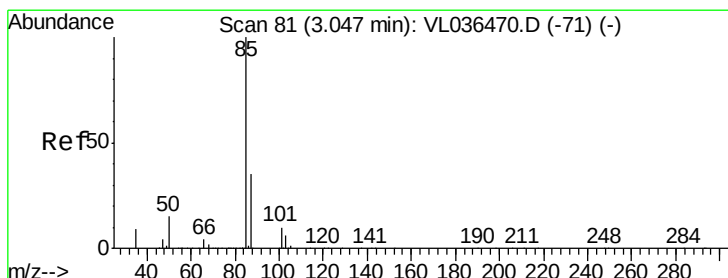
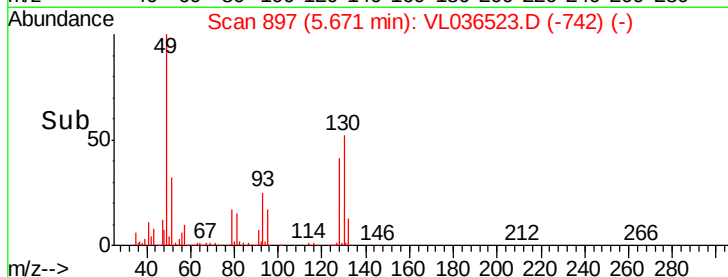
400000

200000

0

5.60 5.65 5.70 5.75

Time-->



#2

Dichlorodifluoromethane

Concen: 0.234 ppbv

RT: 3.05 min Scan# 81

Delta R.T. -0.00 min

Lab File: VL036523.D

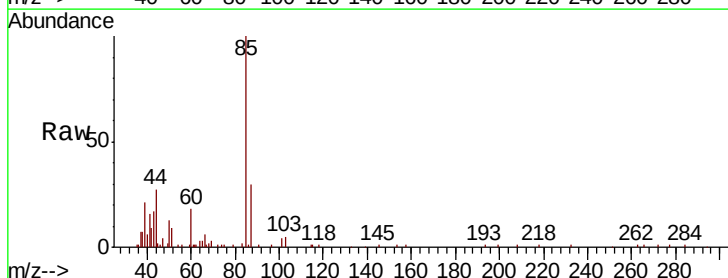
Acq: 26 Mar 2021 21:10

Tgt Ion: 85 Resp: 54085

Ion Ratio Lower Upper

85 100

87 27.9 27.8 41.8



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

40000

30000

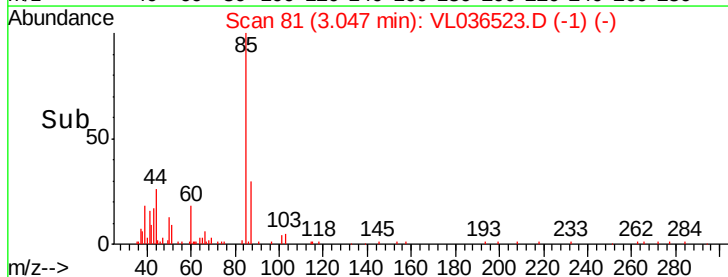
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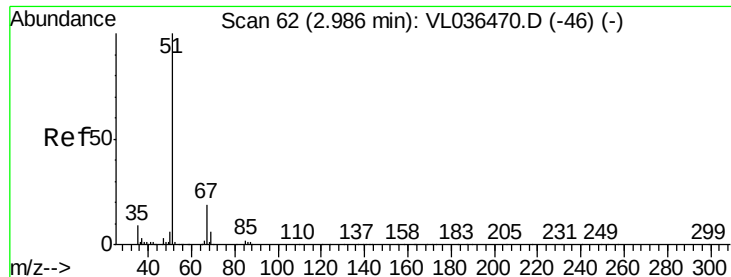
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0

3.00 3.02 3.04 3.06 3.08

Time-->





#3

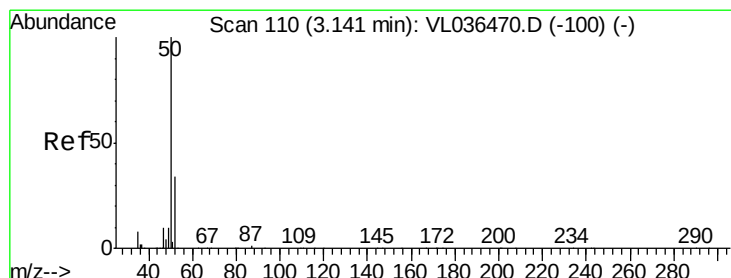
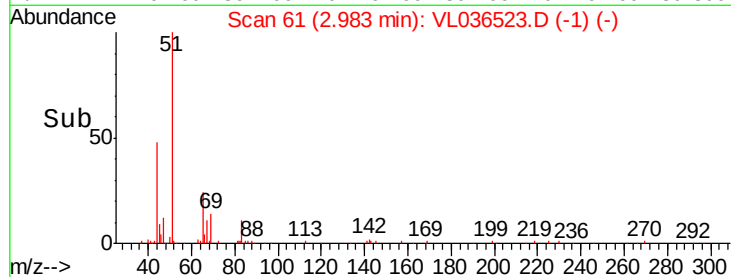
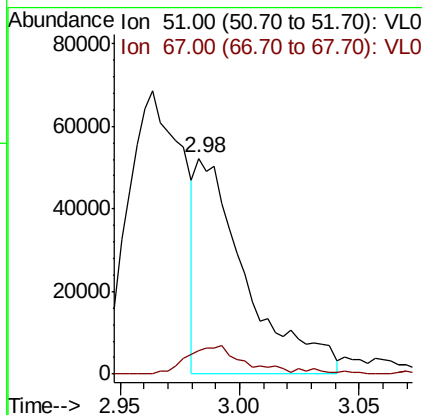
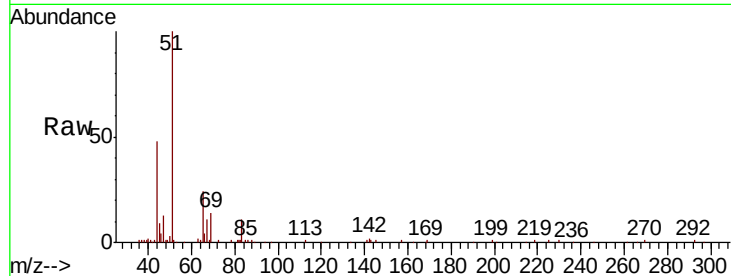
Chlorodifluoromethane
 Concen: 0.289 ppbv
 RT: 2.98 min Scan# 61
 Delta R.T. -0.00 min
 Lab File: VL036523.D
 Acq: 26 Mar 2021 21:10

Instrument :
 MSVOA_L
 ClientSampleId :
 IAS-4-STORAGE-RM

Tot Ion	Ratio	Lower	Upper
51	100		
67	16.4	14.7	22.1

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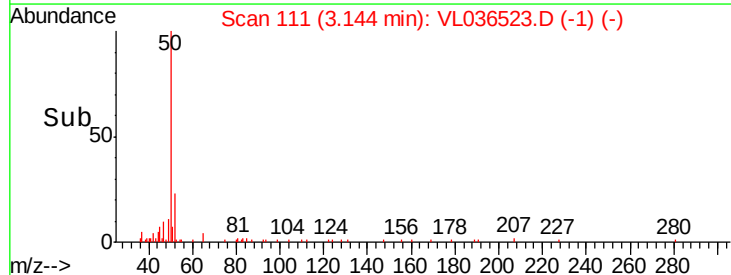
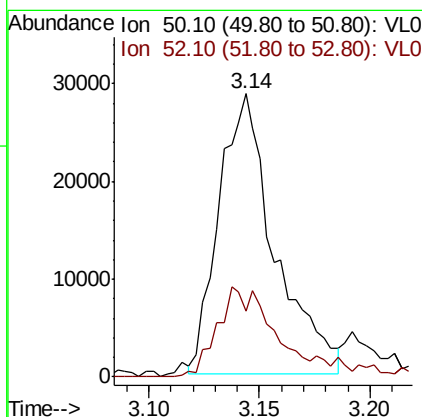
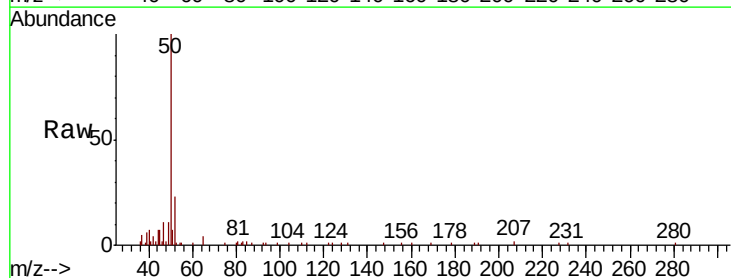
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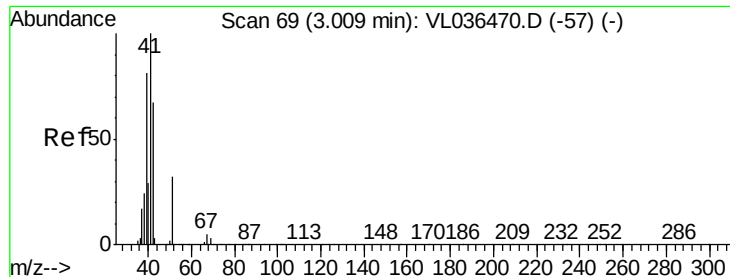


#4

Chloromethane
 Concen: 0.537 ppbv
 RT: 3.14 min Scan# 111
 Delta R.T. 0.00 min
 Lab File: VL036523.D
 Acq: 26 Mar 2021 21:10

Tgt Ion	Ratio	Lower	Upper
50	100		
52	22.9	27.0	40.6





#9

Propene

Concen: 0.870 ppbv m

RT: 3.02 min Scan# 72

Delta R.T. 0.01 min

Lab File: VL036523.D

Acq: 26 Mar 2021 21:10

Instrument :

MSVOA_L

ClientSampleId :

IAS-4-STORAGE-RM

Tot Ion: 41 Resp: 73414

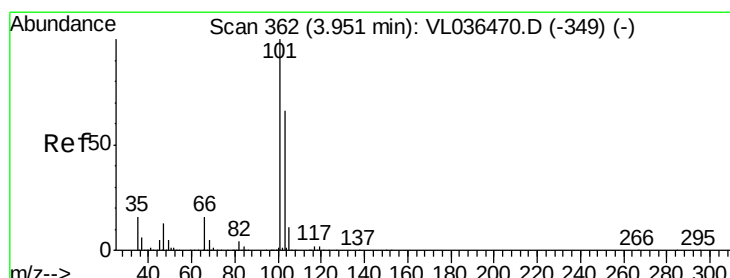
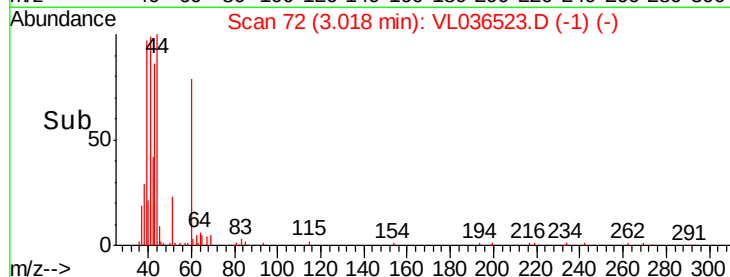
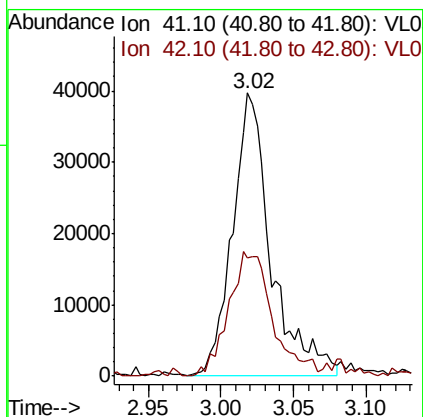
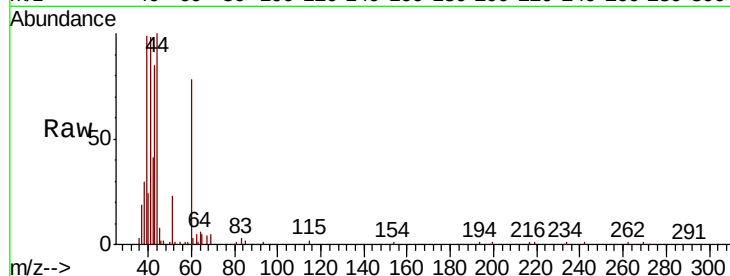
Ion Ratio Lower Upper

41 100

42 53.0 57.0 85.4#

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#11

Trichlorofluoromethane

Concen: 0.214 ppbv

RT: 3.95 min Scan# 363

Delta R.T. 0.00 min

Lab File: VL036523.D

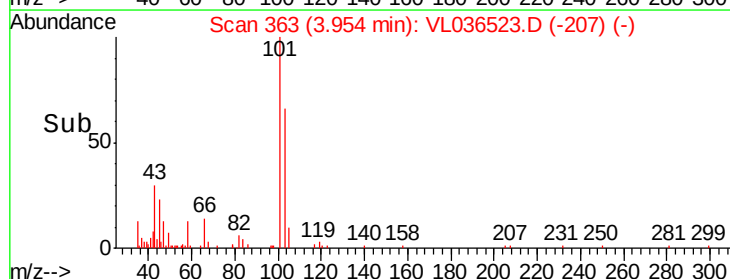
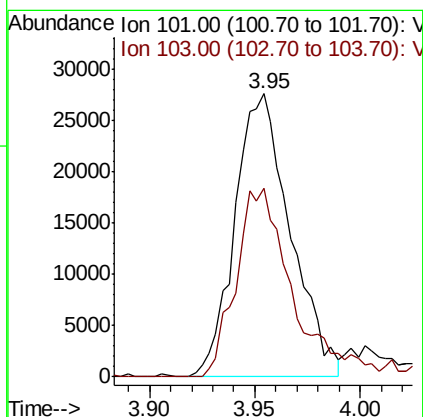
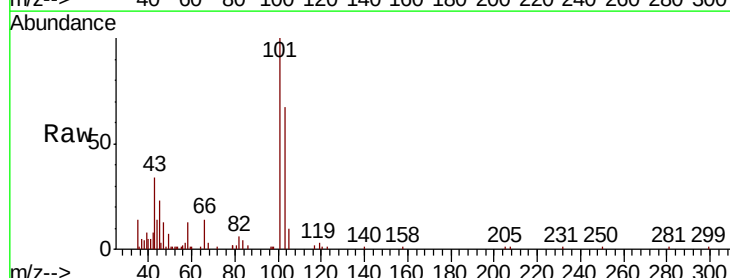
Acq: 26 Mar 2021 21:10

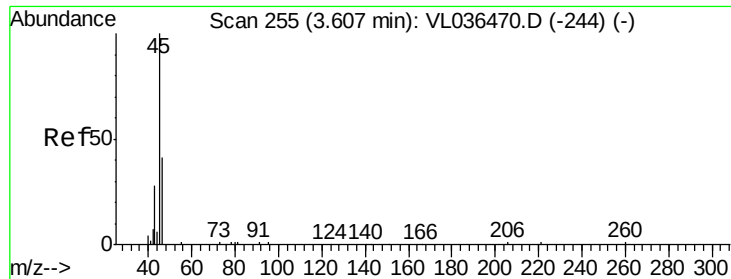
Tgt Ion: 101 Resp: 50471

Ion Ratio Lower Upper

101 100

103 66.9 52.5 78.7





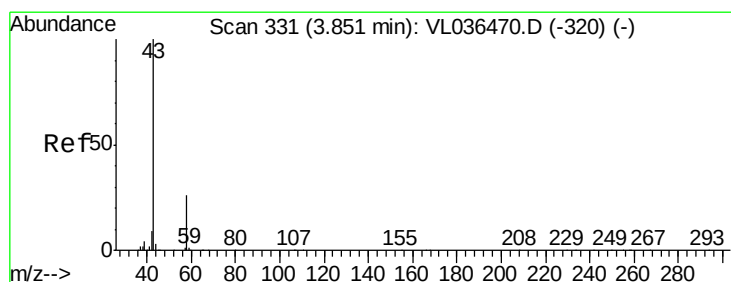
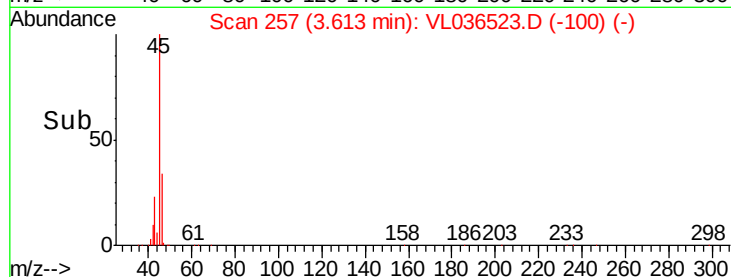
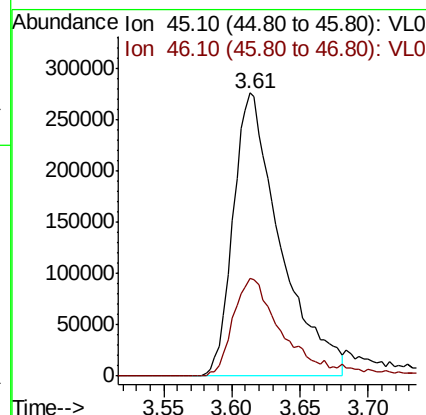
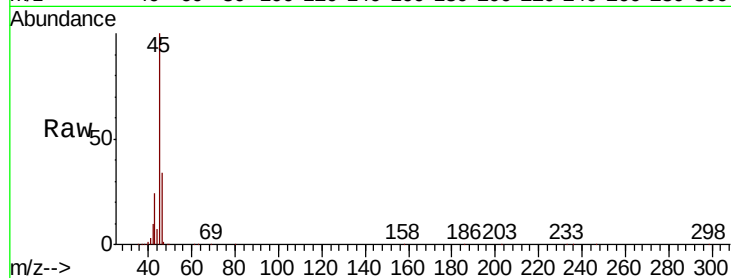
#13
Ethanol
Concen: 65.887 ppbv
RT: 3.61 min Scan# 257
Delta R.T. 0.01 min
Lab File: VL036523.D
Acq: 26 Mar 2021 21:10

Instrument :
MSVOA_L
ClientSampleId :
IAS-4-STORAGE-RM

Tot Ion	Ratio	Lower	Upper
45	100		
46	38.5	16.6	66.2

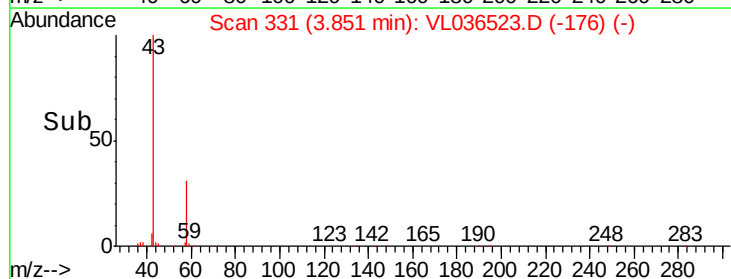
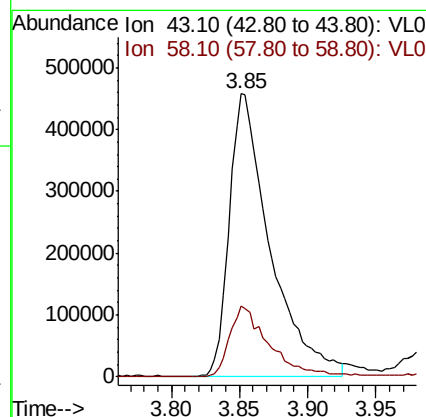
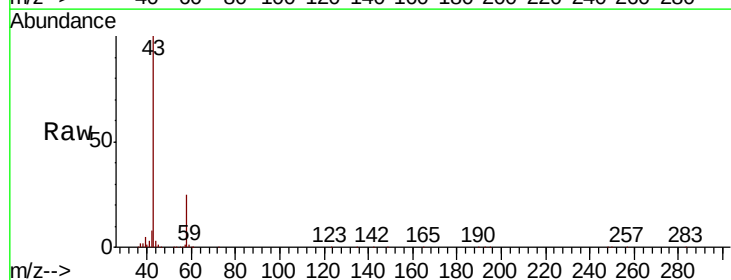
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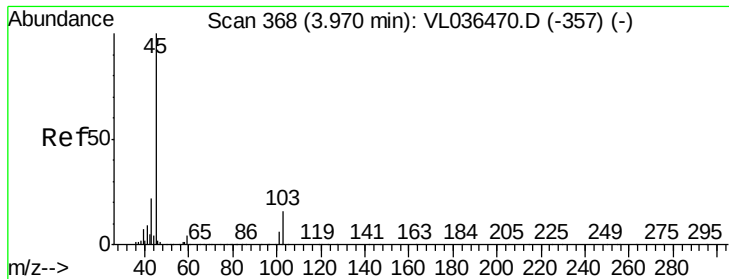
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#15
Acetone
Concen: 6.820 ppbv
RT: 3.85 min Scan# 331
Delta R.T. -0.00 min
Lab File: VL036523.D
Acq: 26 Mar 2021 21:10

Tgt Ion	Ratio	Lower	Upper
43	100		
58	24.8	21.2	31.8





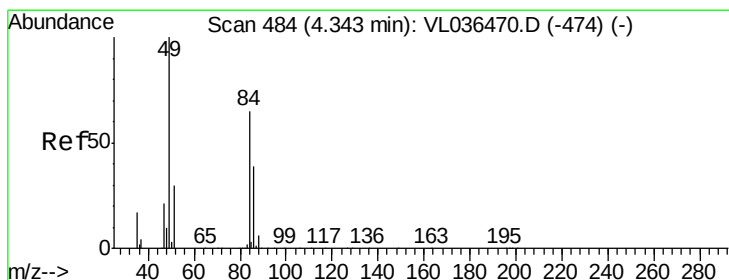
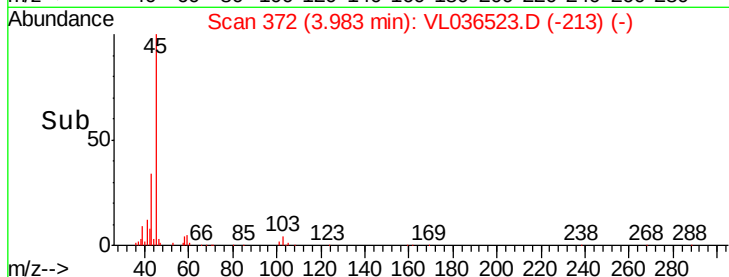
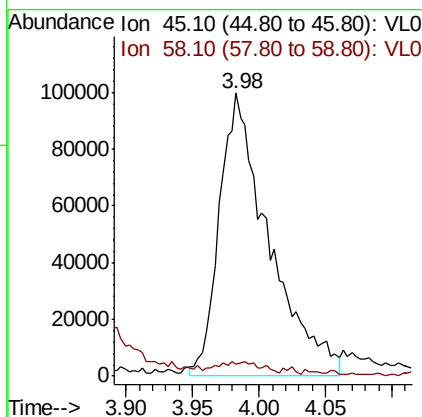
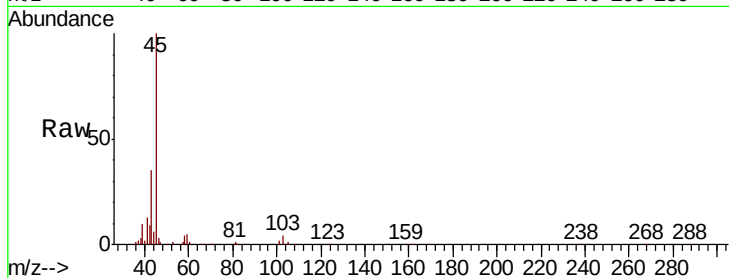
#19
Isopropyl Alcohol
Concen: 3.366 ppbv m
RT: 3.98 min Scan# 372
Delta R.T. 0.01 min
Lab File: VL036523.D
Acq: 26 Mar 2021 21:10

Instrument :
MSVOA_L
ClientSampleId :
IAS-4-STORAGE-RM

Tot Ion	Ratio	Lower	Upper
45	100		
58	6.9	2.9	4.3#

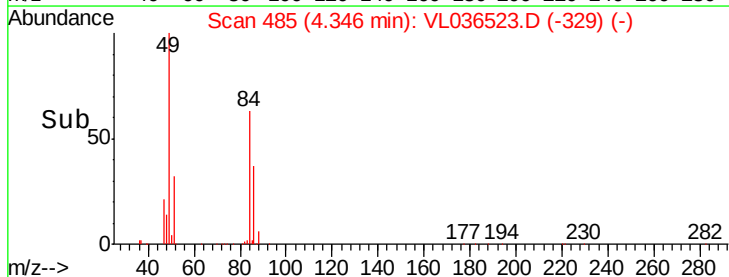
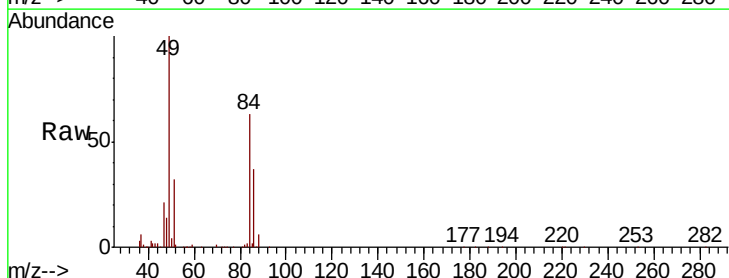
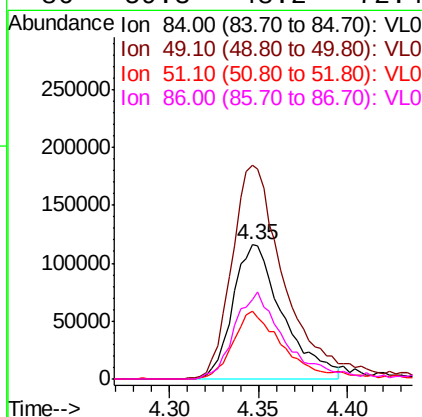
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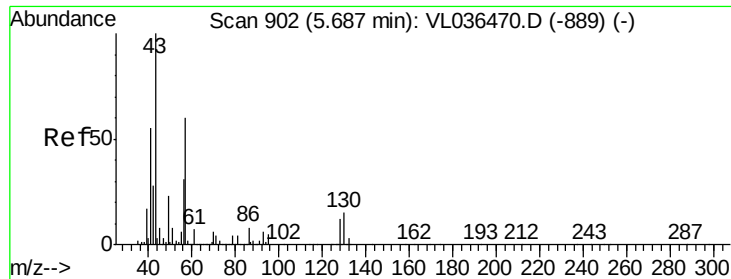
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#20
Methylene Chloride
Concen: 3.466 ppbv
RT: 4.35 min Scan# 485
Delta R.T. 0.00 min
Lab File: VL036523.D
Acq: 26 Mar 2021 21:10

Tgt Ion	Ratio	Lower	Upper
84	100		
49	158.7	122.9	184.3
51	51.0	36.9	55.3
86	59.3	48.2	72.4





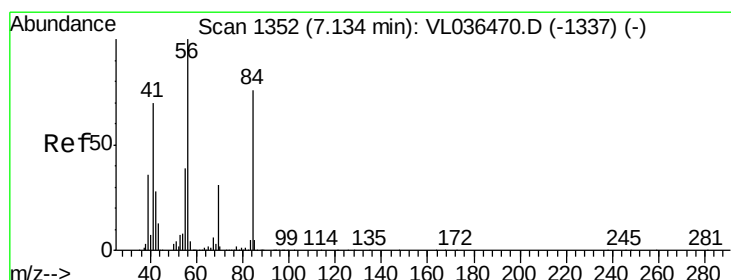
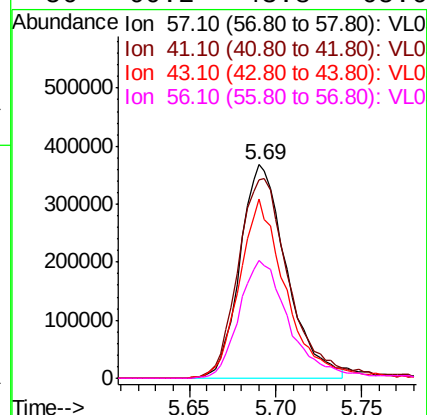
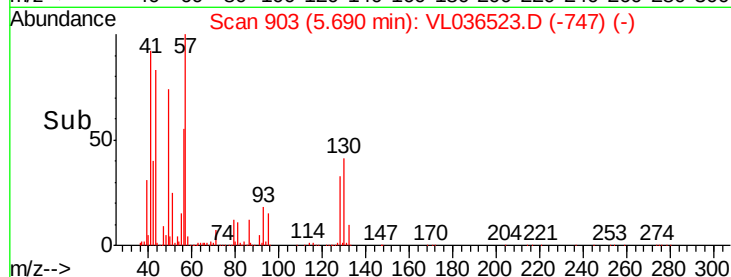
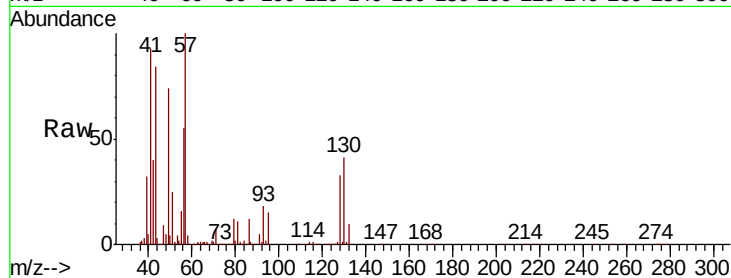
#26
Hexane
Concen: 4.491 ppbv
RT: 5.69 min Scan# 903
Delta R.T. 0.00 min
Lab File: VL036523.D
Acq: 26 Mar 2021 21:10

Instrument :
MSVOA_L
ClientSampleId :
IAS-4-STORAGE-RM

Tot Ion	Ratio	Lower	Upper
57	100		
41	105.0	77.2	115.8
43	85.3	173.8	260.6#
56	60.2	43.8	65.6

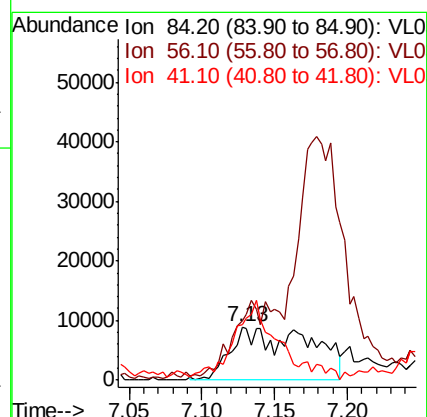
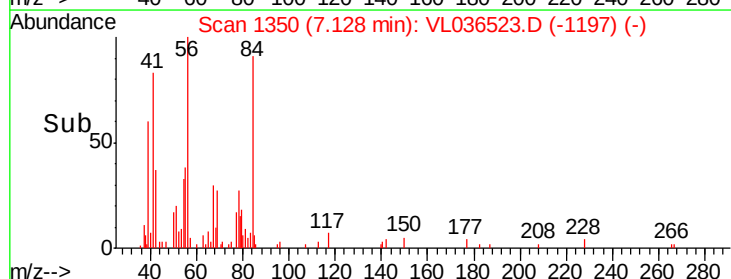
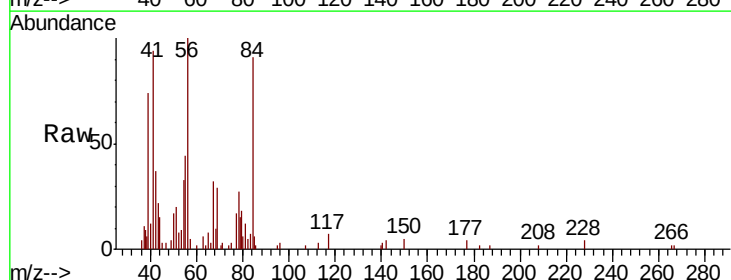
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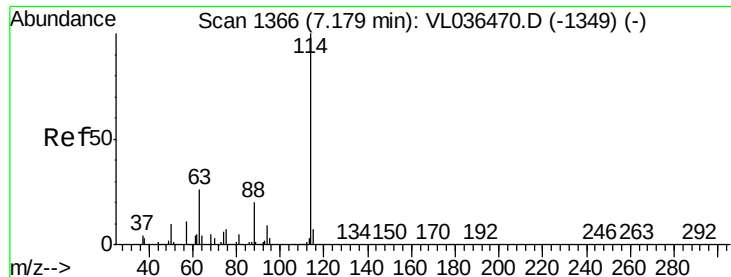
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#30
Cyclohexane
Concen: 0.264 ppbv m
RT: 7.13 min Scan# 1350
Delta R.T. -0.01 min
Lab File: VL036523.D
Acq: 26 Mar 2021 21:10

Tgt Ion	Ratio	Lower	Upper
84	100		
56	0.0	114.6	171.8#
41	88.2	75.3	112.9





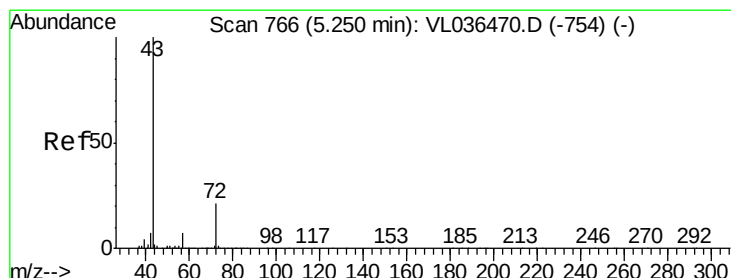
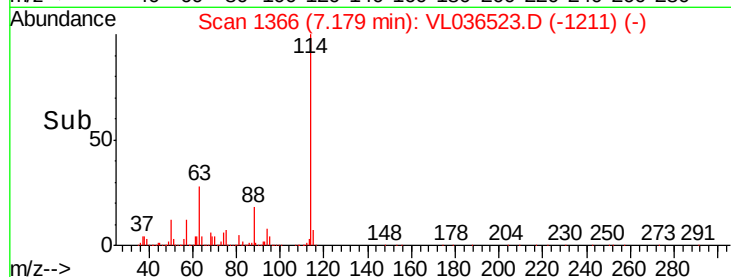
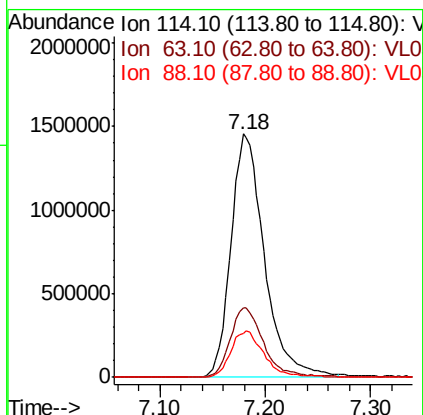
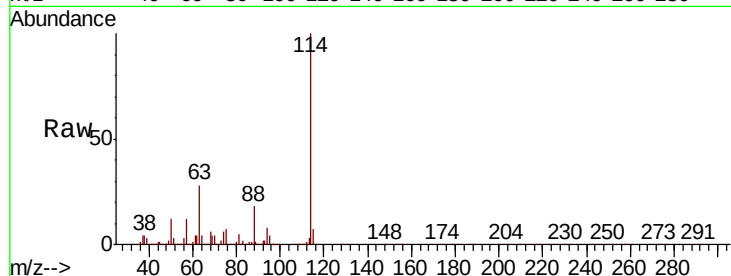
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.18 min Scan# 1366
 Delta R.T. -0.00 min
 Lab File: VL036523.D
 Acq: 26 Mar 2021 21:10

Instrument :
 MSVOA_L
 ClientSampleId :
 IAS-4-STORAGE-RM

Tot Ion	Ratio	Lower	Upper
114	100		
63	28.9	22.4	33.6
88	19.3	15.4	23.0

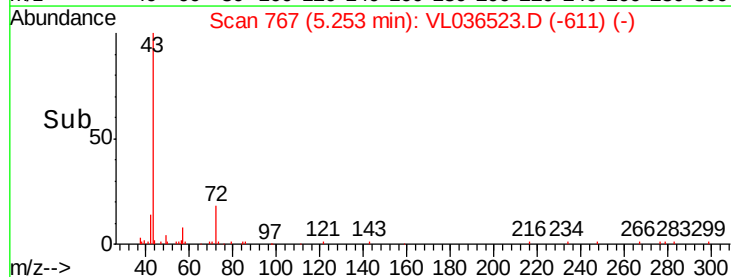
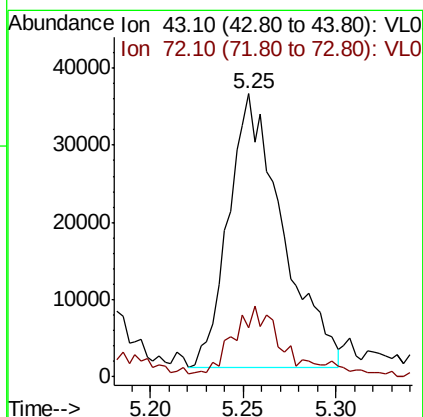
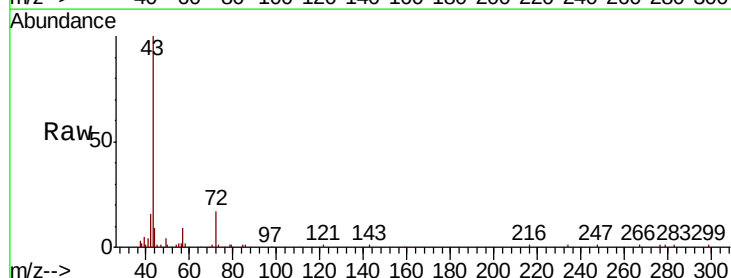
Manual Integrations
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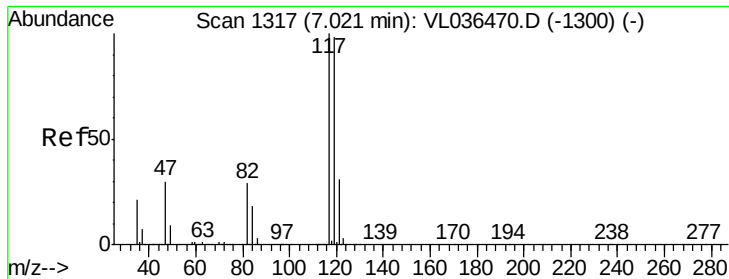
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#34
 2-Butanone
 Concen: 0.459 ppbv
 RT: 5.25 min Scan# 767
 Delta R.T. 0.00 min
 Lab File: VL036523.D
 Acq: 26 Mar 2021 21:10

Tgt Ion	Ratio	Lower	Upper
43	100		
72	26.2	17.0	25.6





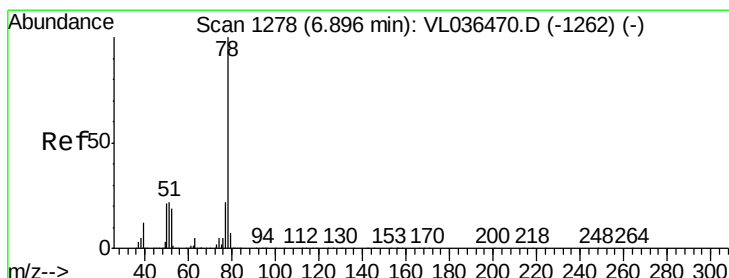
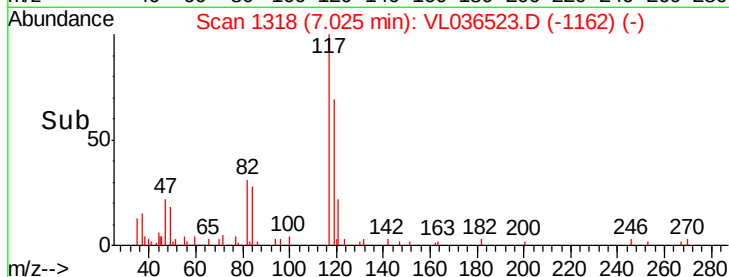
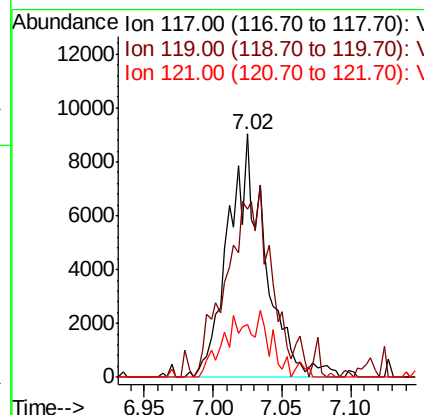
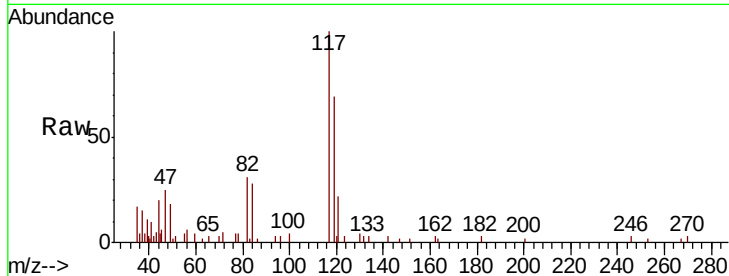
#35
Carbon Tetrachloride
Concen: 0.069 ppbv m
RT: 7.02 min Scan# 1318
Delta R.T. 0.00 min
Lab File: VL036523.D
Acq: 26 Mar 2021 21:10

Instrument :
MSVOA_L
ClientSampleId :
IAS-4-STORAGE-RM

Tot Ion	Ratio	Lower	Upper
117	100		
119	68.8	78.2	117.2#
121	21.9	24.5	36.7#

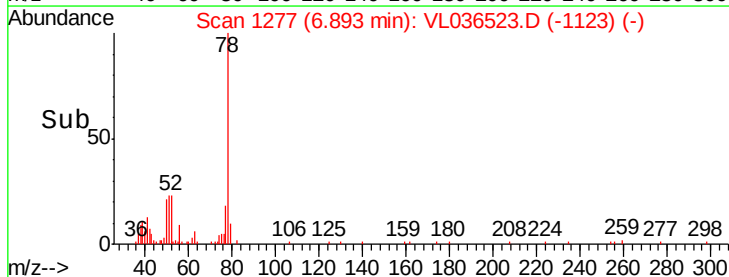
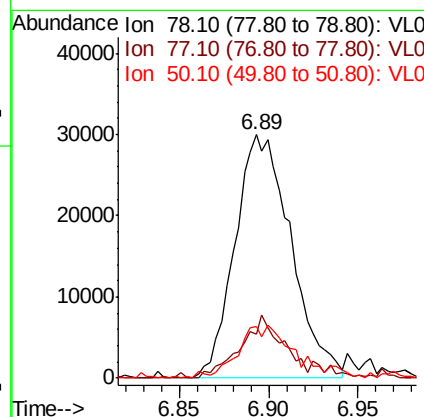
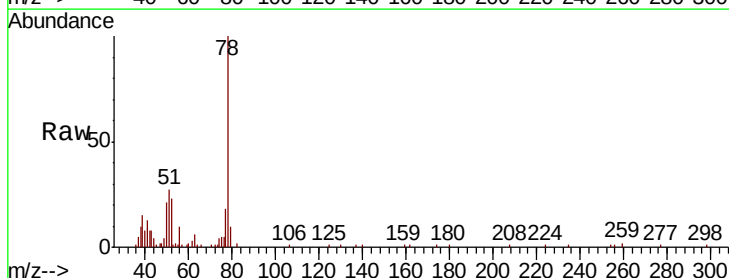
Manual Integrations
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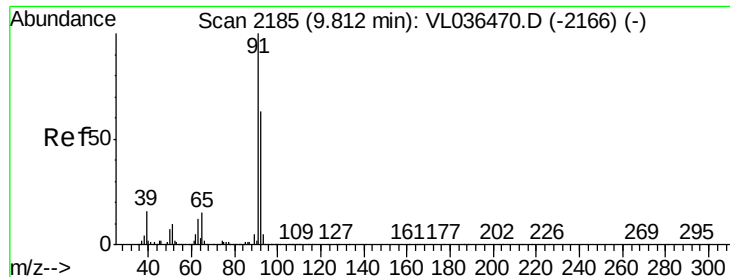
MMDadoda
3/29/2021 4:39:38 PM



#36
Benzene
Concen: 0.222 ppbv
RT: 6.89 min Scan# 1277
Delta R.T. -0.00 min
Lab File: VL036523.D
Acq: 26 Mar 2021 21:10

Tgt Ion	Ratio	Lower	Upper
78	100		
77	18.0	18.0	27.0#
50	21.1	16.5	24.7





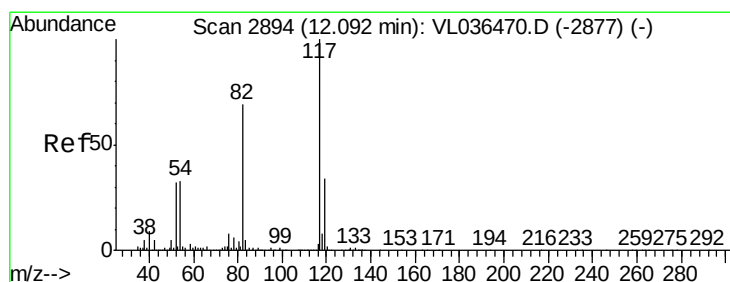
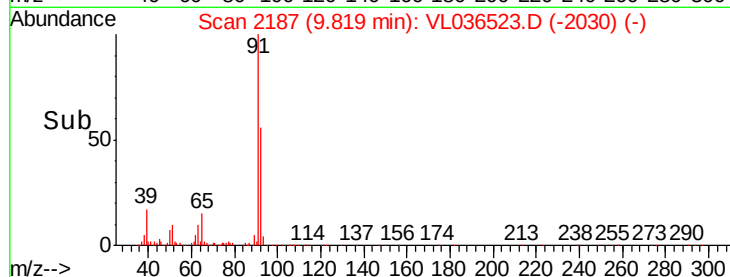
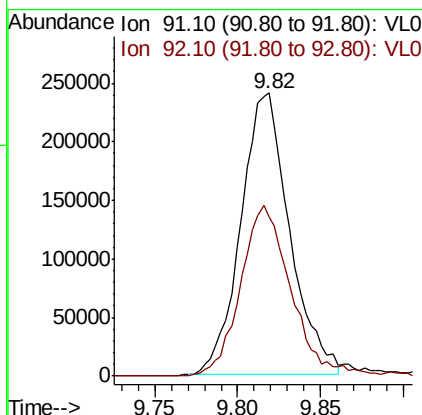
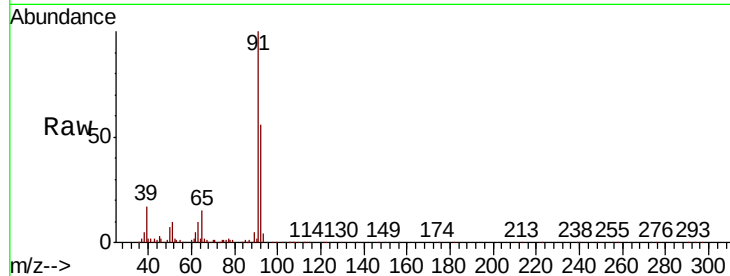
#53
Toluene
Concen: 1.566 ppbv
RT: 9.82 min Scan# 2187
Delta R.T. 0.01 min
Lab File: VL036523.D
Acq: 26 Mar 2021 21:10

Instrument :
MSVOA_L
ClientSampleId :
IAS-4-STORAGE-RM

Tot Ion	Ion	Ratio	Resp	Lower	Upper
91	100		491985		
92	63.5	48.8	73.2		

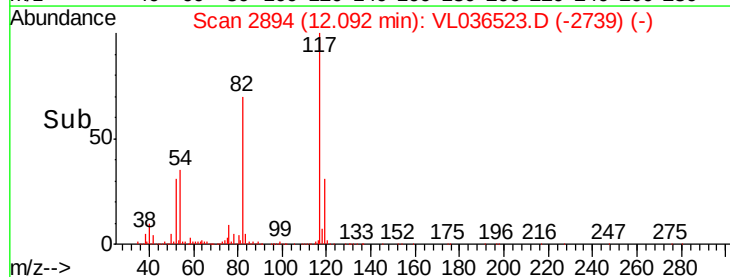
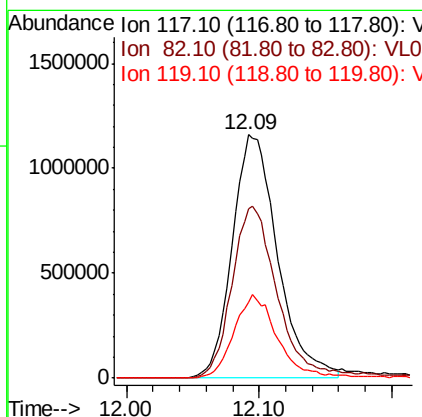
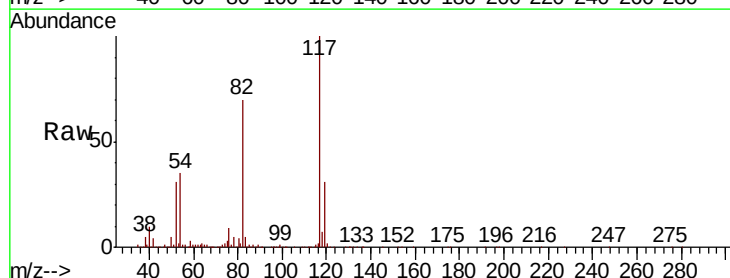
Manual Integrations
APPROVED

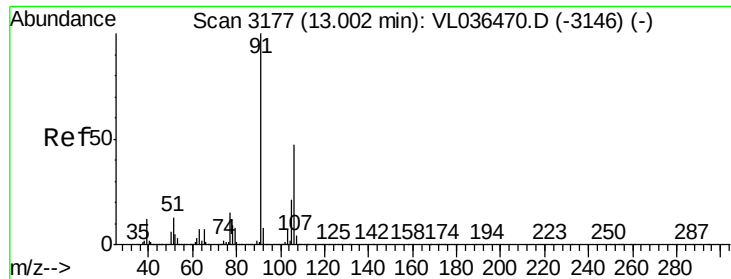
MMDadoda
3/29/2021 4:39:38 PM



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.09 min Scan# 2894
Delta R.T. -0.00 min
Lab File: VL036523.D
Acq: 26 Mar 2021 21:10

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
117	100		2750738		
82	72.4	57.4	86.0		
119	34.3	47.4	71.0		





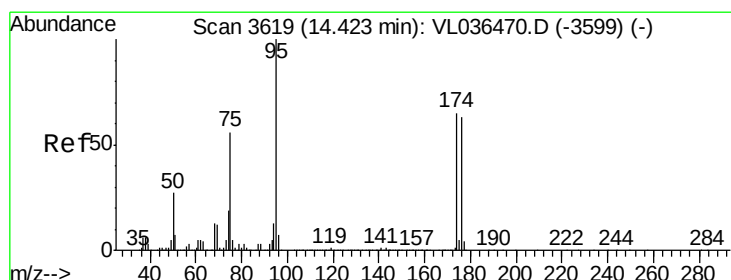
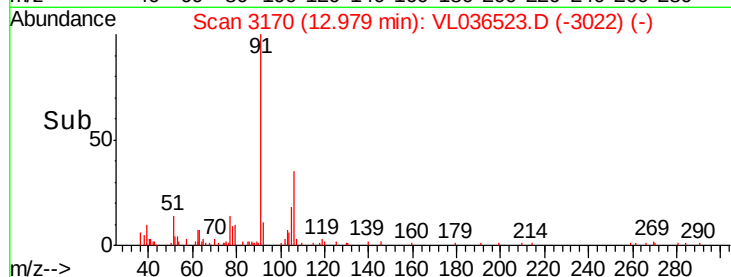
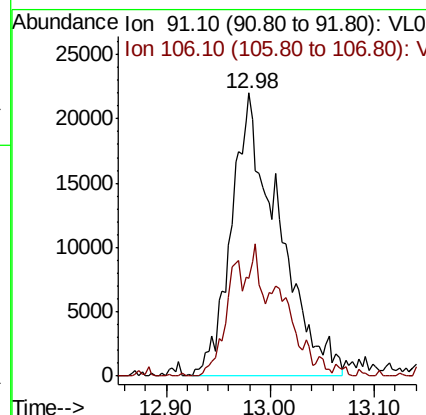
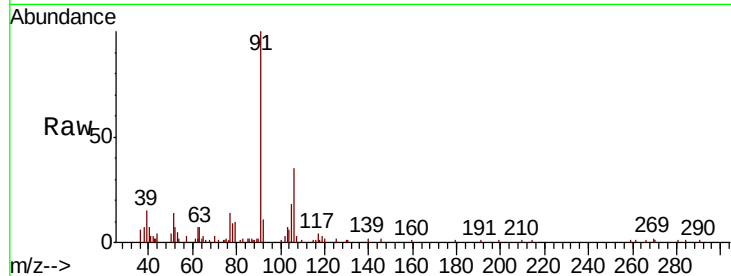
#59
m/p-Xylene
Concen: 0.199 ppbv m
RT: 12.98 min Scan# 3170
Delta R.T. -0.02 min
Lab File: VL036523.D
Acq: 26 Mar 2021 21:10

Instrument :
MSVOA_L
ClientSampleId :
IAS-4-STORAGE-RM

Tot Ion: 91 Resp: 69537
Ion Ratio Lower Upper
91 100
106 0.0 35.3 52.9#

Manual Integrations
APPROVED

MMDadoda
3/29/2021 4:39:38 PM



#68
1-Bromo-4-Fluorobenzene
Concen: 10.077 ppbv
RT: 14.43 min Scan# 3620
Delta R.T. 0.00 min
Lab File: VL036523.D
Acq: 26 Mar 2021 21:10

Tgt Ion: 95 Resp: 2209197
Ion Ratio Lower Upper
95 100
174 64.9 51.0 76.6
175 5.0 3.9 5.9

