

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL072920\
 Data File : VL035253.D
 Acq On : 29 Jul 2020 19:28
 Operator : SY/AP
 Sample : L3463-01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 OA1

Manual Integrations
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 7/30/2020 6:11:21 PM

Quant Time: Jul 30 11:57:19 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL072920AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Jul 29 2020
 QLast Update : Wed Jul 29 07:14:29 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1077071	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	2536026	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.12	117	2434027	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.46	95	1968763	10.12	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.20%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.01	85	38369	0.298	ppbv	88
3) Chlorodifluoromethane	2.94	51	40582m	0.340	ppbv	
4) Chloromethane	3.10	50	39071	0.582	ppbv	94
9) Propene	2.98	41	41800	1.006	ppbv	87
11) Trichlorofluoromethane	3.92	101	57534	0.333	ppbv	89
13) Ethanol	3.57	45	1792695	105.984	ppbv	95
15) Acetone	3.82	43	1480750	10.307	ppbv	98
19) Isopropyl Alcohol	3.94	45	328860	3.471	ppbv #	93
20) Methylene Chloride	4.32	84	1031302	15.770	ppbv	99
26) Hexane	5.68	57	330964	3.270	ppbv #	42
34) 2-Butanone	5.24	43	69288	0.537	ppbv	99
35) Carbon Tetrachloride	7.02	117	13216m	0.078	ppbv	
36) Benzene	6.90	78	28473m	0.162	ppbv	
44) 2,2,4-Trimethylpentane	7.88	57	52500m	0.169	ppbv	
52) Tetrachloroethene	11.25	164	104930	1.560	ppbv	93
53) Toluene	9.83	91	218318	1.166	ppbv	95

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

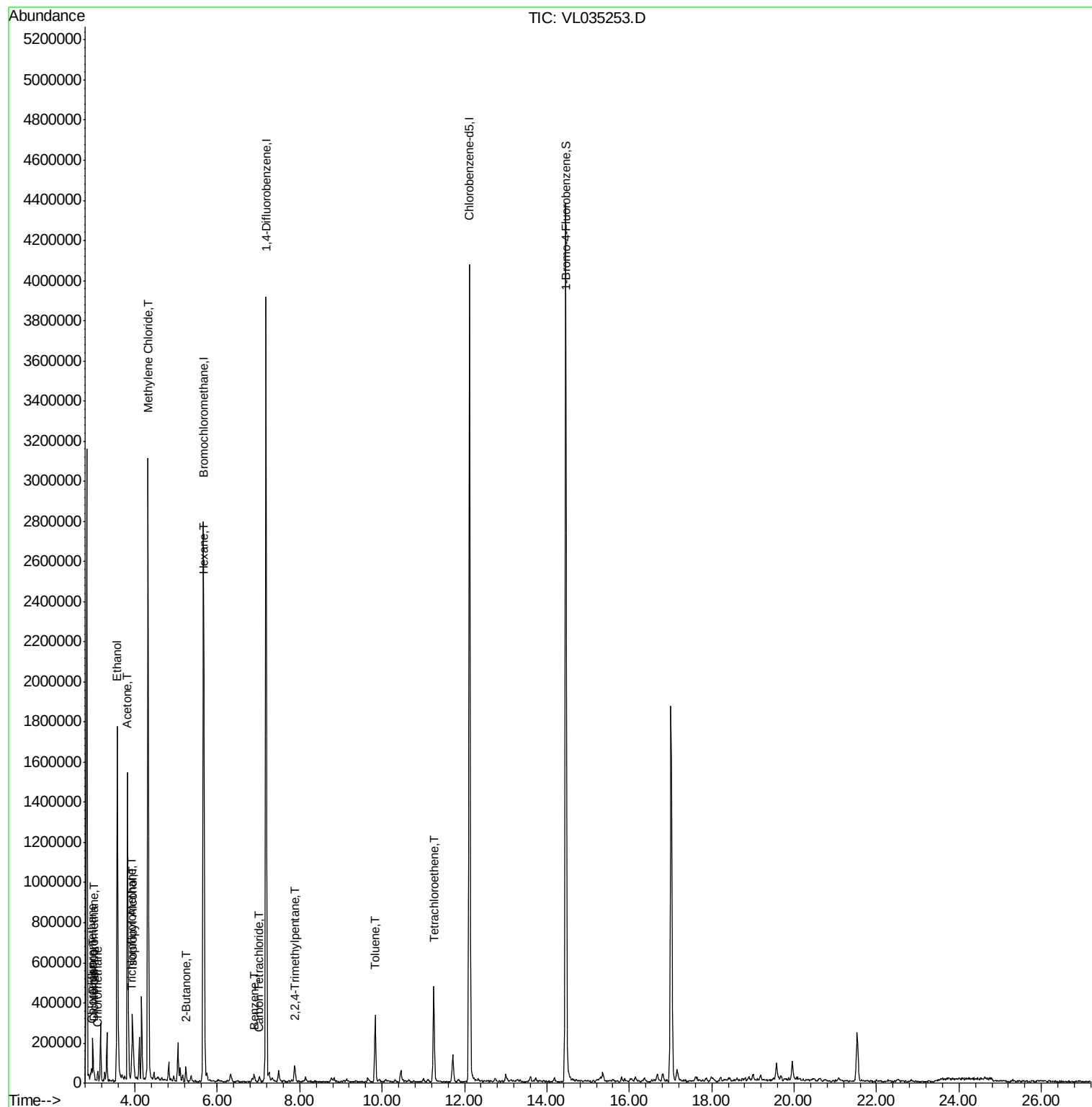
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL072920\
Data File : VL035253.D
Acq On : 29 Jul 2020 19:28
Operator : SY/AP
Sample : L3463-01
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

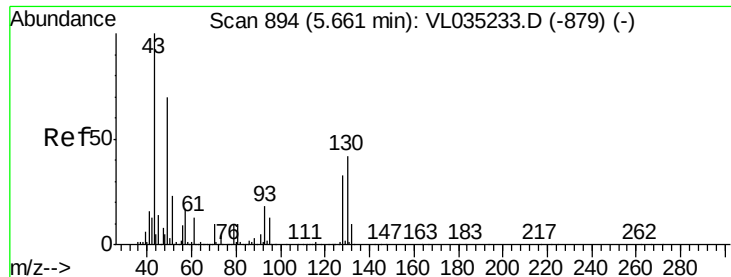
Instrument :
MSVOA_L
ClientSampleId :
OA1

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Quant Time: Jul 30 11:57:19 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL072920AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Jul
QLast Update : Wed Jul 29 07:14:29 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 894

Delta R.T. 0.00 min

Lab File: VL035253.D

Acq: 29 Jul 2020 19:28

Instrument :

MSVOA_L

ClientSampleId :

QA1

Tot Ion: 49 Resp: 1077071

Ion Ratio Lower Upper

49 100

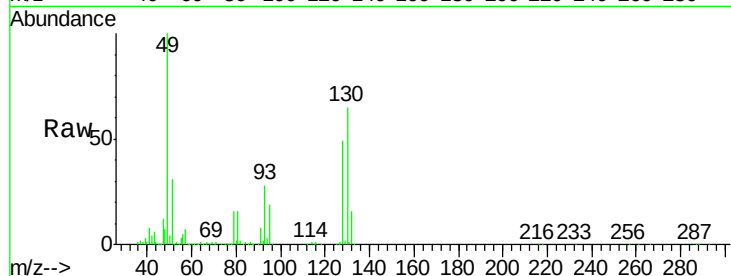
128 49.2 24.0 72.0

130 63.6 30.7 92.1

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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

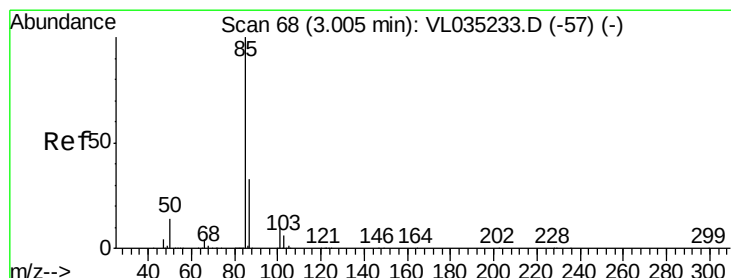
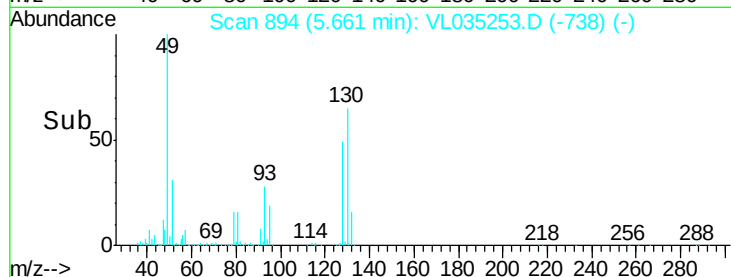
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200000

0

5.55 5.60 5.65 5.70 5.75

Time-->



#2

Dichlorodifluoromethane

Concen: 0.298 ppbv

RT: 3.01 min Scan# 68

Delta R.T. 0.00 min

Lab File: VL035253.D

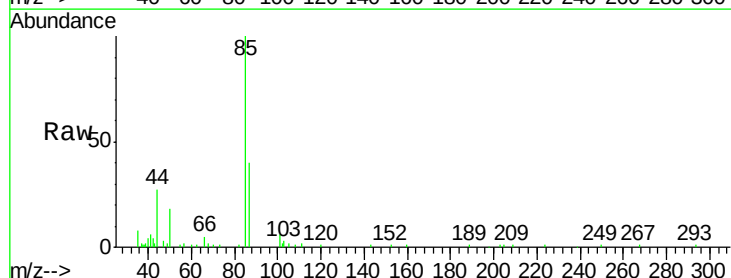
Acq: 29 Jul 2020 19:28

Tgt Ion: 85 Resp: 38369

Ion Ratio Lower Upper

85 100

87 39.9 26.7 40.1



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

30000

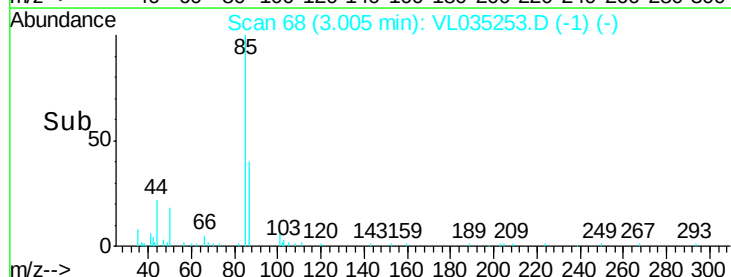
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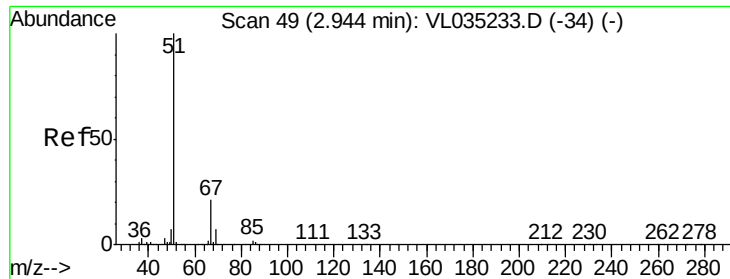
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3.00 3.05

Time-->





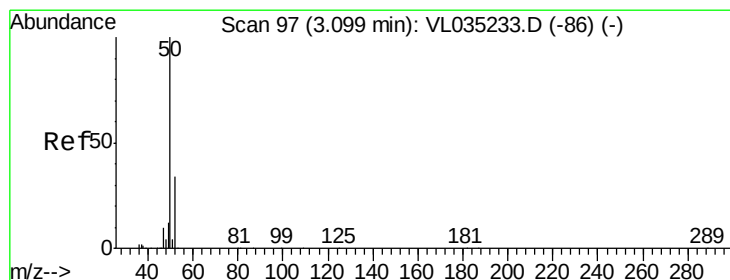
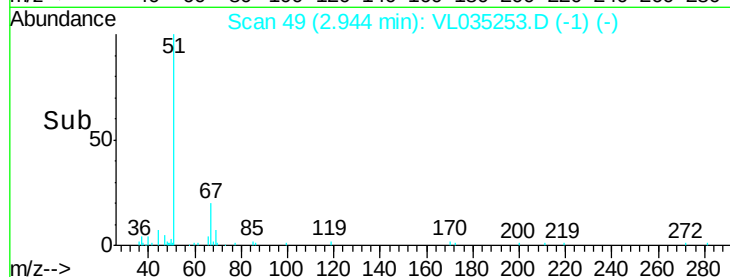
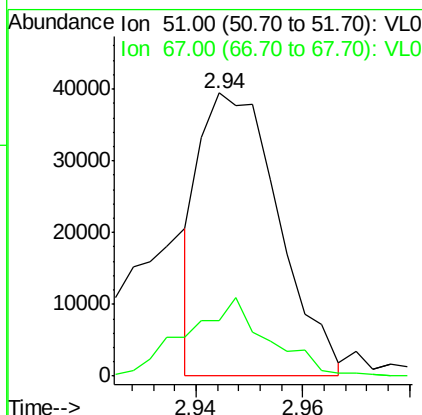
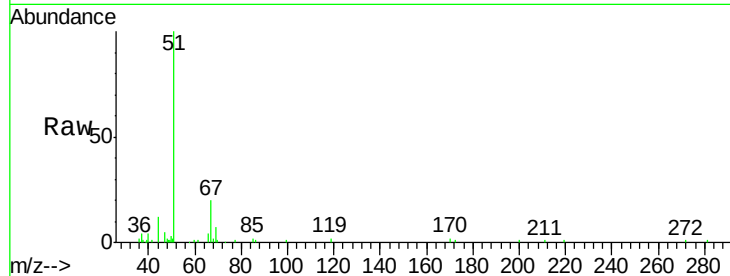
#3
Chlorodifluoromethane
Concen: 0.340 ppbv
RT: 2.94 min Scan# 49
Delta R.T. 0.00 min
Lab File: VL035253.D
Acq: 29 Jul 2020 19:28

Instrument :
MSVOA_L
ClientSampled :
OA1

Tot Ion	Ratio	Lower	Upper
51	100		
67	29.6	16.6	25.0#

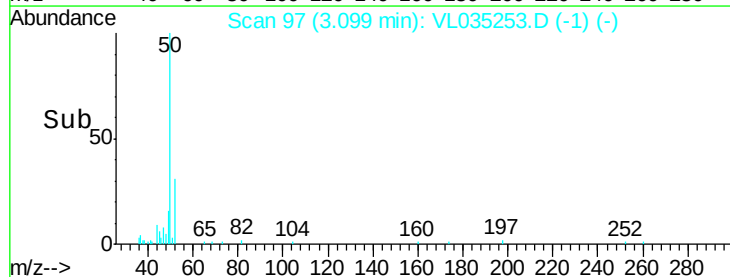
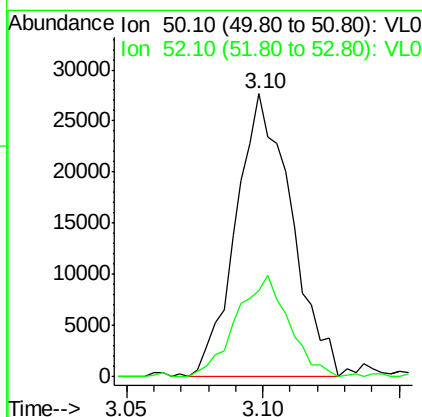
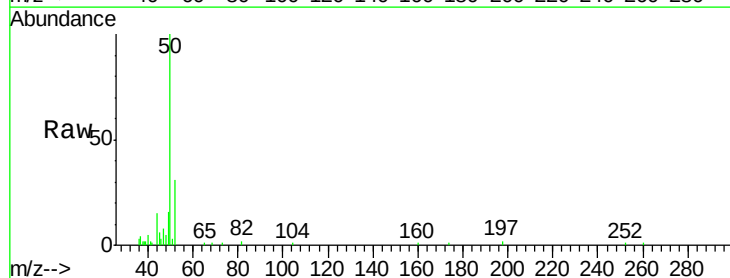
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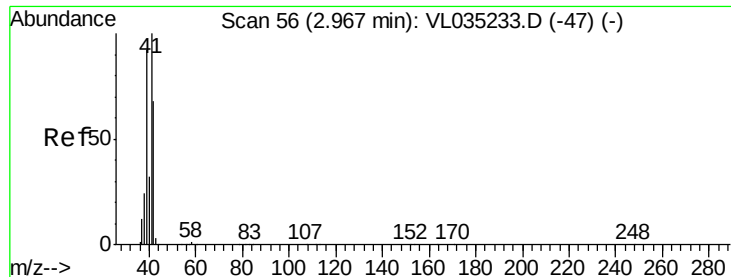
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#4
Chloromethane
Concen: 0.582 ppbv
RT: 3.10 min Scan# 97
Delta R.T. 0.00 min
Lab File: VL035253.D
Acq: 29 Jul 2020 19:28

Tgt Ion	Ratio	Lower	Upper
50	100		
52	30.7	27.1	40.7





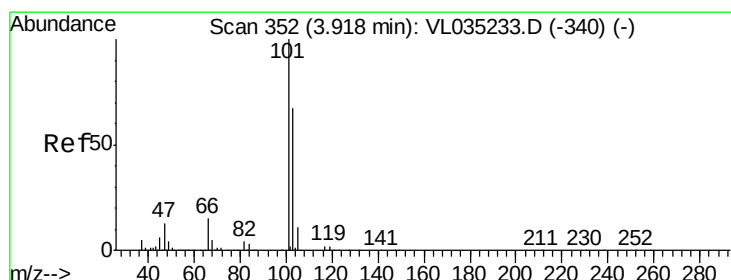
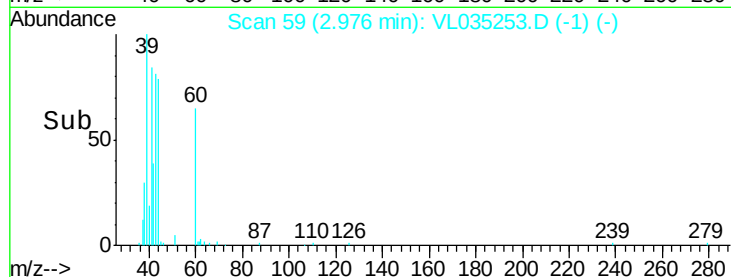
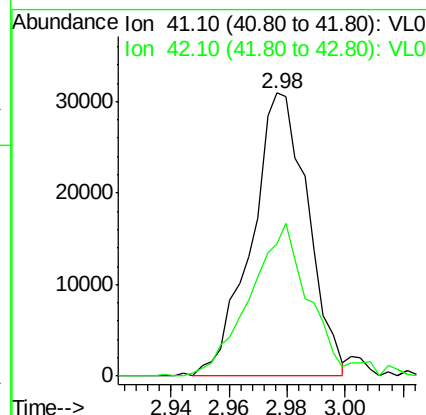
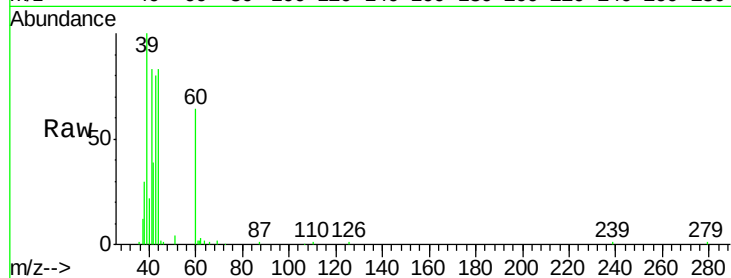
#9
 Propene
 Concen: 1.006 ppbv
 RT: 2.98 min Scan# 59
 Delta R.T. 0.01 min
 Lab File: VL035253.D
 Acq: 29 Jul 2020 19:28

Instrument :
 MSVOA_L
 ClientSampleId :
 OA1

Tot Ion: 41 Resp: 41800
 Ion Ratio Lower Upper
 41 100
 42 58.3 55.0 82.6

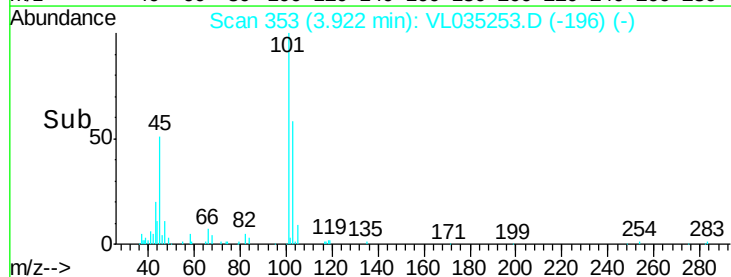
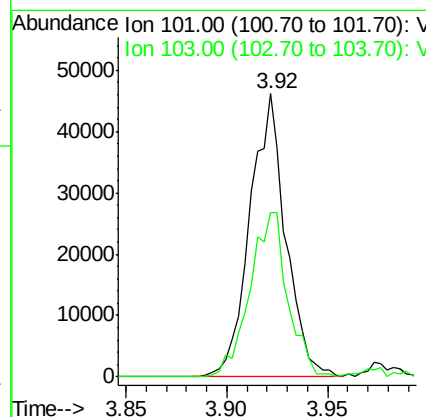
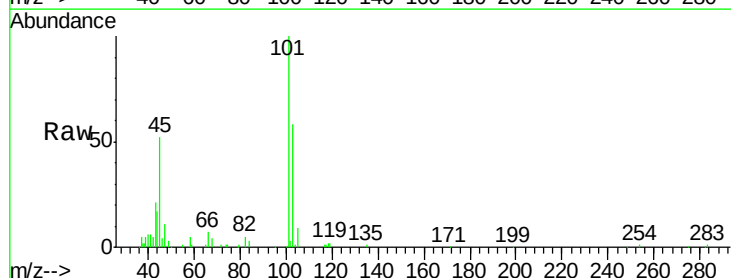
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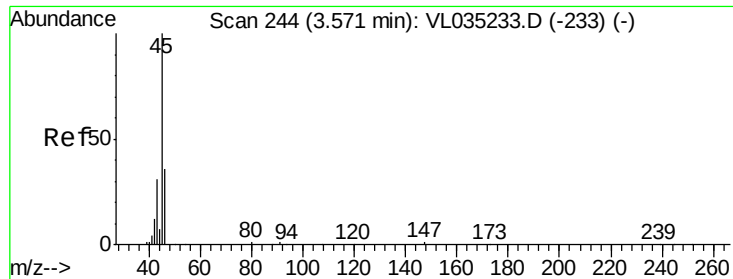
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#11
 Trichlorofluoromethane
 Concen: 0.333 ppbv
 RT: 3.92 min Scan# 353
 Delta R.T. 0.00 min
 Lab File: VL035253.D
 Acq: 29 Jul 2020 19:28

Tgt Ion: 101 Resp: 57534
 Ion Ratio Lower Upper
 101 100
 103 57.9 53.4 80.0





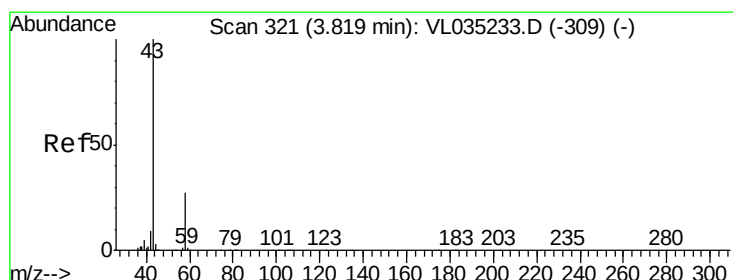
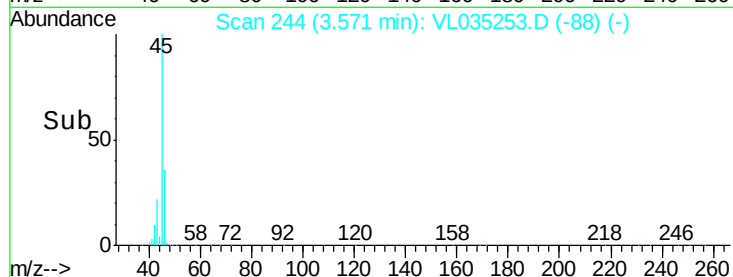
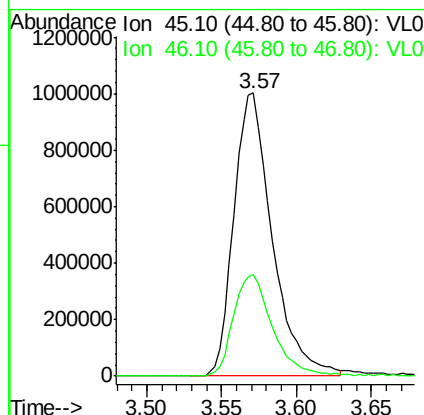
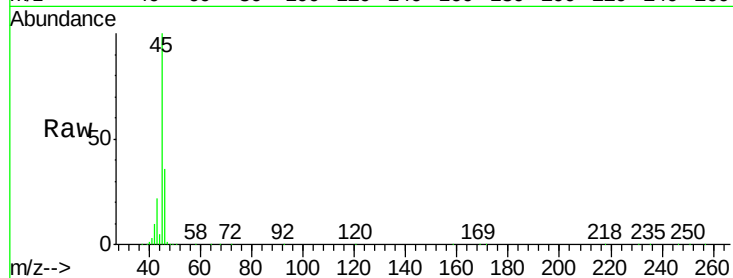
#13
Ethanol
Concen: 105.984 ppbv
RT: 3.57 min Scan# 244
Delta R.T. 0.00 min
Lab File: VL035253.D
Acq: 29 Jul 2020 19:28

Instrument :
MSVOA_L
ClientSampled :
OA1

Tot Ion: 45 Resp: 1792695
Ion Ratio Lower Upper
45 100
46 36.4 15.8 63.4

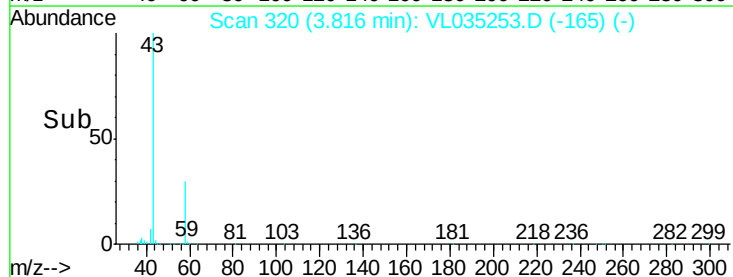
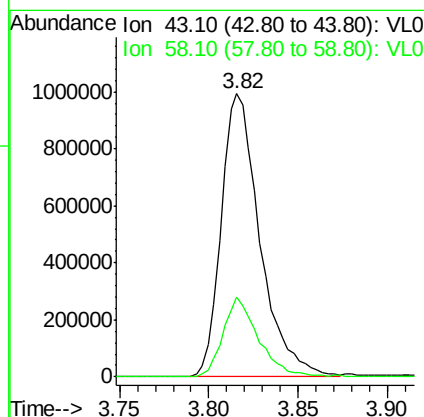
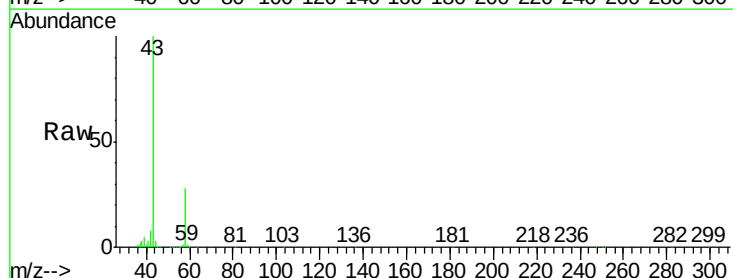
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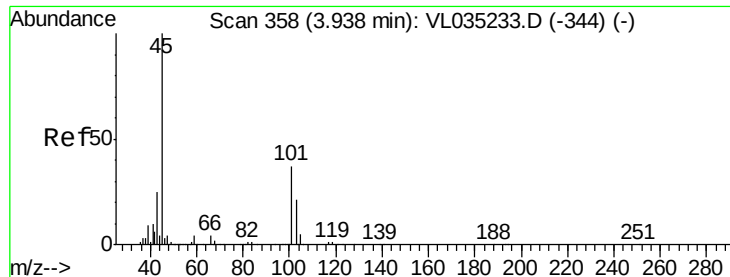
MMDadoda
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#15
Acetone
Concen: 10.307 ppbv
RT: 3.82 min Scan# 320
Delta R.T. -0.00 min
Lab File: VL035253.D
Acq: 29 Jul 2020 19:28

Tgt Ion: 43 Resp: 1480750
Ion Ratio Lower Upper
43 100
58 26.4 21.8 32.6





#19

Isopropyl Alcohol

Concen: 3.471 ppbv

RT: 3.94 min Scan# 359

Delta R.T. 0.00 min

Lab File: VL035253.D

Acq: 29 Jul 2020 19:28

Instrument :

MSVOA_L

ClientSampleId :

QA1

Tot Ion: 45 Resp: 328860

Ion Ratio Lower Upper

45 100

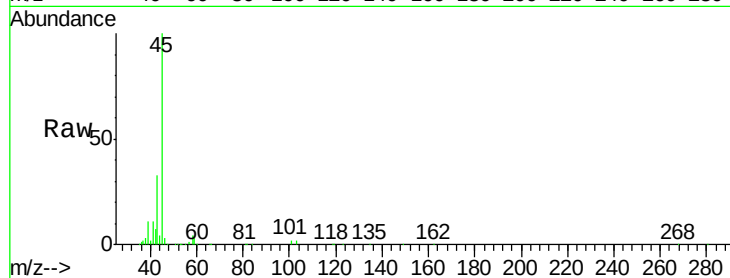
58 4.7 1.9 2.9#

Manual Integrations

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Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.94

200000

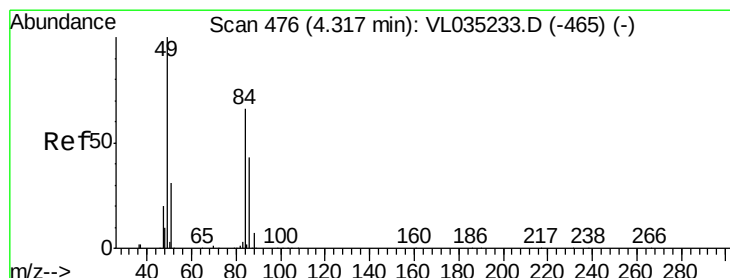
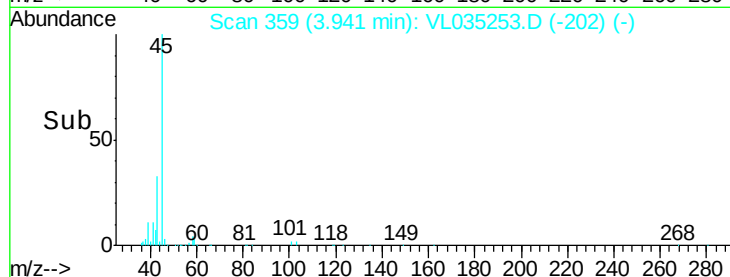
150000

100000

50000

0

Time-->



#20

Methylene Chloride

Concen: 15.770 ppbv

RT: 4.32 min Scan# 477

Delta R.T. 0.00 min

Lab File: VL035253.D

Acq: 29 Jul 2020 19:28

Tgt Ion: 84 Resp: 1031302

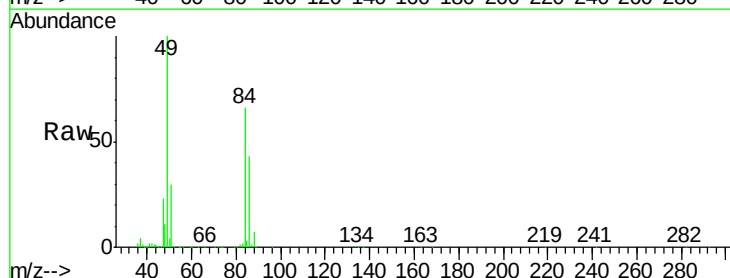
Ion Ratio Lower Upper

84 100

49 152.3 121.0 181.4

51 45.2 37.7 56.5

86 65.9 52.2 78.4



Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0

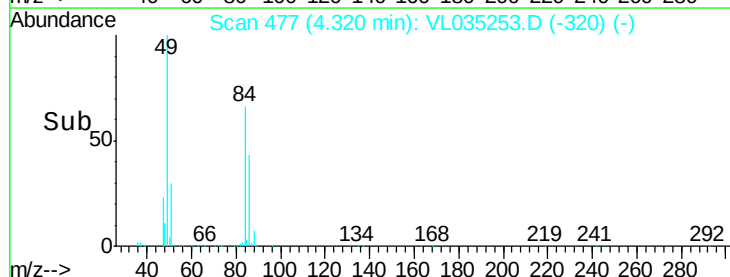
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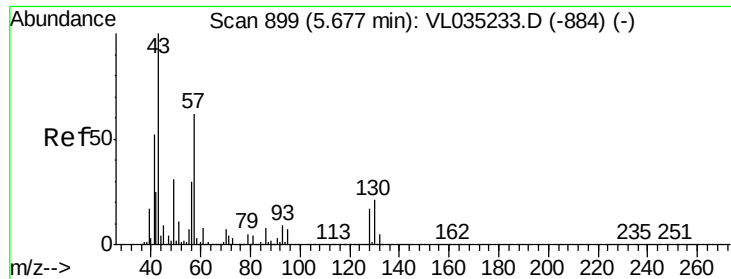
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Time-->





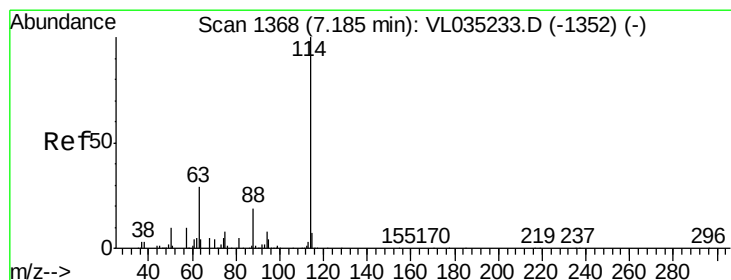
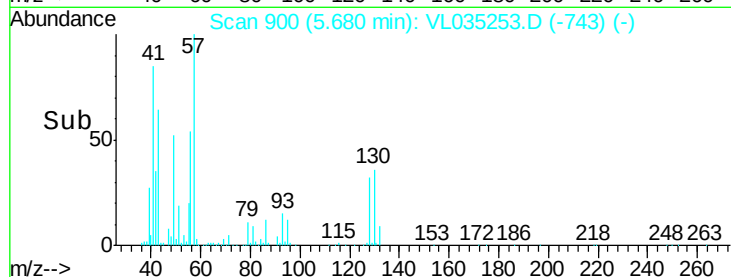
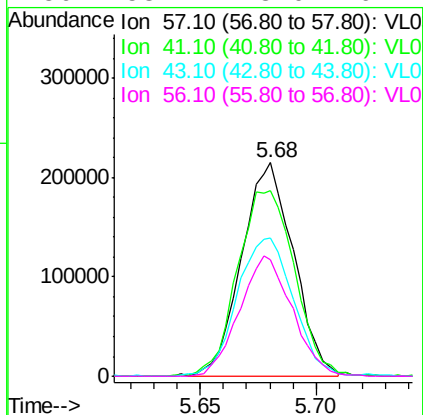
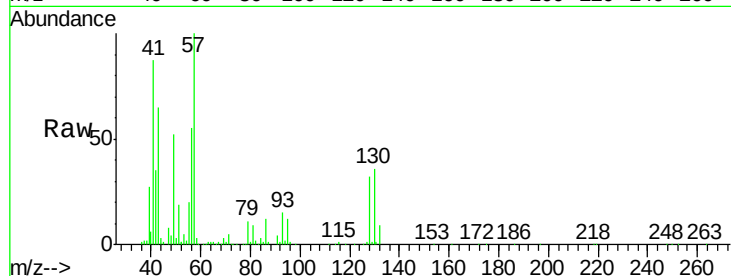
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Hexane
Concen: 3.270 ppbv
RT: 5.68 min Scan# 900
Delta R.T. 0.00 min
Lab File: VL035253.D
Acq: 29 Jul 2020 19:28

Instrument :
MSVOA_L
ClientSampled :
QA1

Tot Ion	Ratio	Lower	Upper
57	100		
41	97.2	73.9	110.9
43	71.7	177.6	266.4#
56	58.1	43.0	64.4

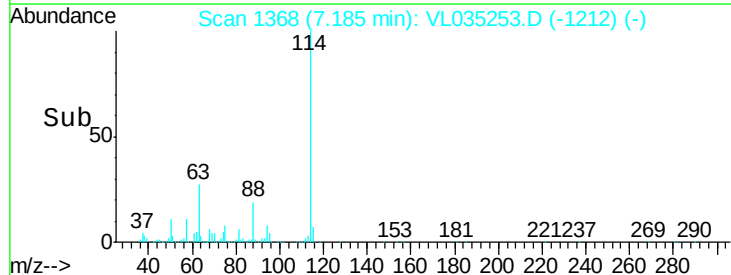
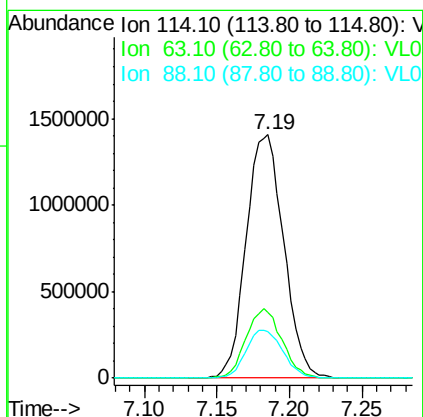
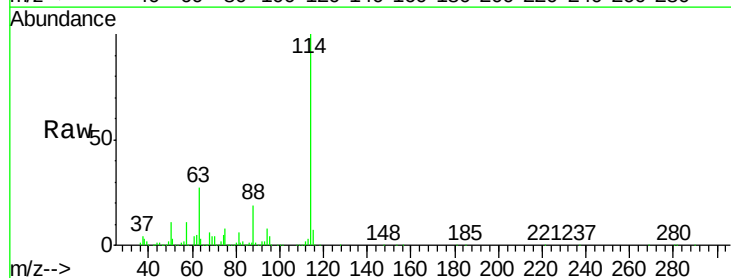
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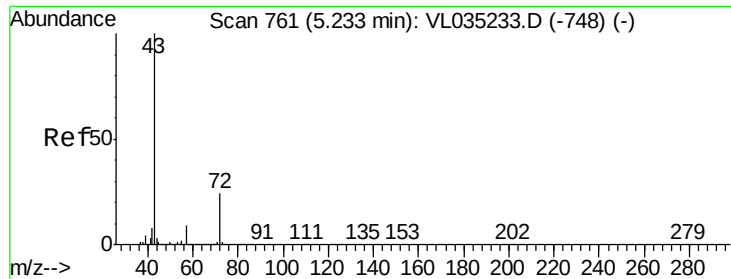
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#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.19 min Scan# 1368
Delta R.T. 0.00 min
Lab File: VL035253.D
Acq: 29 Jul 2020 19:28

Tgt Ion	Ratio	Lower	Upper
114	100		
63	27.5	22.2	33.2
88	19.5	15.4	23.0





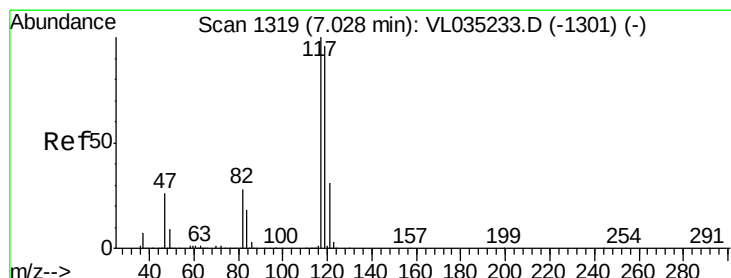
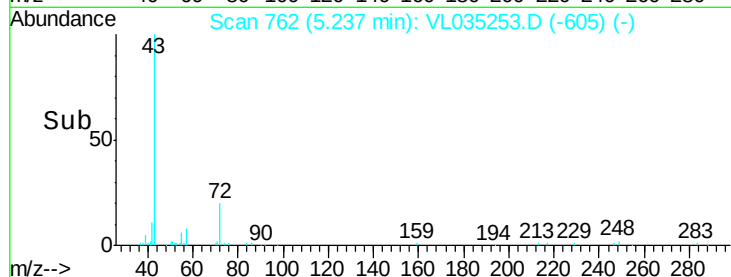
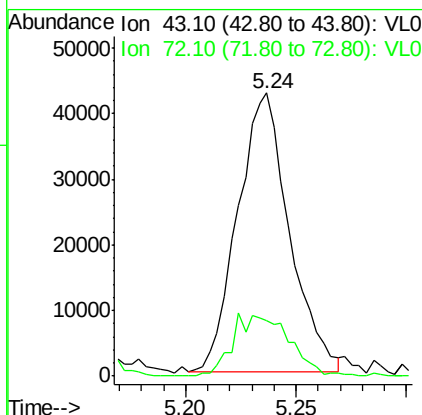
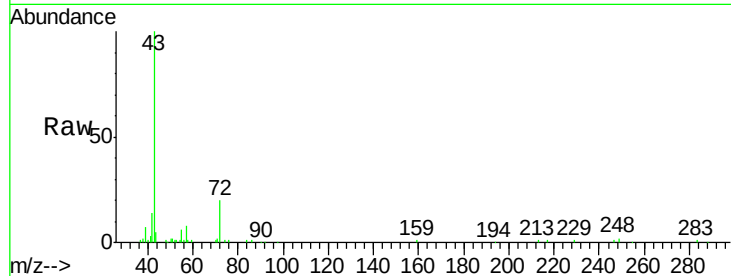
#34
2-Butanone
Concen: 0.537 ppbv
RT: 5.24 min Scan# 762
Delta R.T. 0.00 min
Lab File: VL035253.D
Acq: 29 Jul 2020 19:28

Instrument :
MSVOA_L
ClientSampled :
QA1

Tot Ion	Ratio	Lower	Upper
43	100		
72	24.5	19.2	28.8

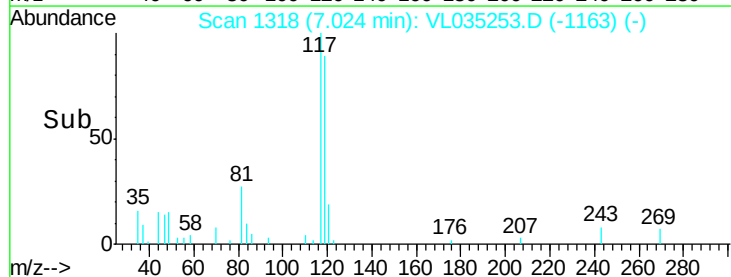
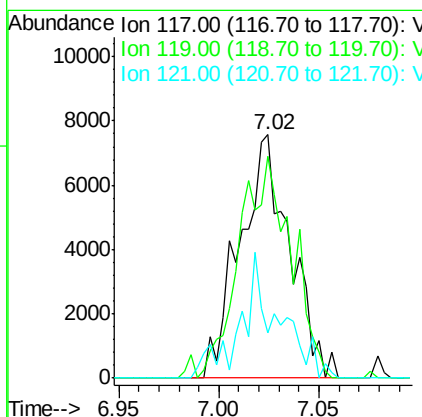
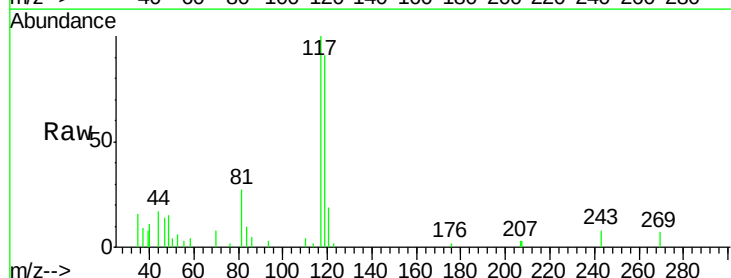
Manual Integrations
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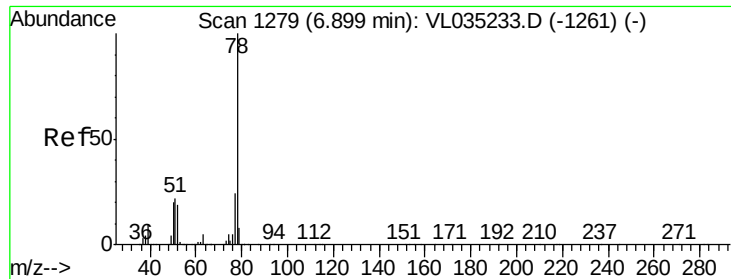
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#35
Carbon Tetrachloride
Concen: 0.078 ppbv m
RT: 7.02 min Scan# 1318
Delta R.T. -0.00 min
Lab File: VL035253.D
Acq: 29 Jul 2020 19:28

Tgt Ion	Ratio	Lower	Upper
117	100		
119	91.2	76.8	115.2
121	18.6	24.5	36.7#





#36

Benzene

Concen: 0.162 ppbv m

RT: 6.90 min Scan# 1278

Delta R.T. -0.00 min

Lab File: VL035253.D

Acq: 29 Jul 2020 19:28

Instrument :

MSVOA_L

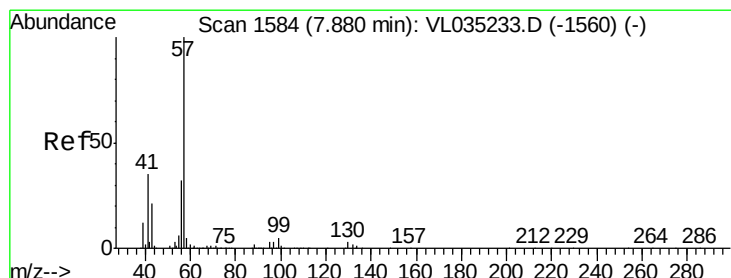
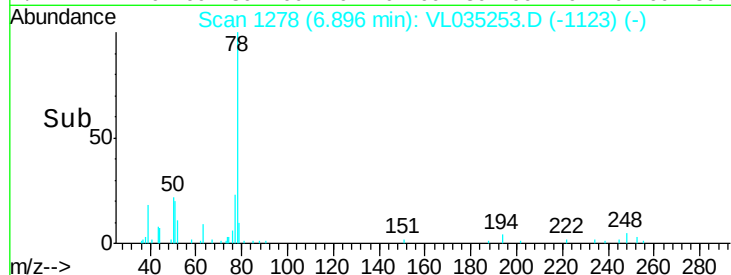
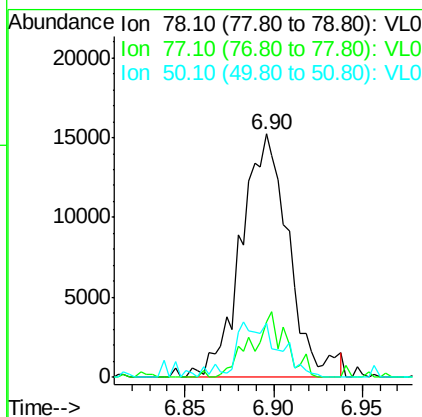
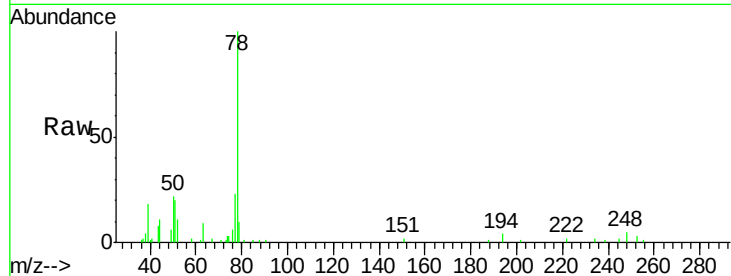
ClientSampled :

QA1

Tot Ion:	78	Resp:	28473
Ion	Ratio	Lower	Upper
78	100		
77	22.6	18.9	28.3
50	22.0	16.1	24.1

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#44

2,2,4-Trimethylpentane

Concen: 0.169 ppbv m

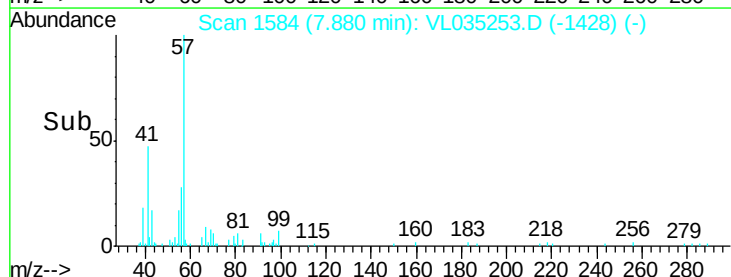
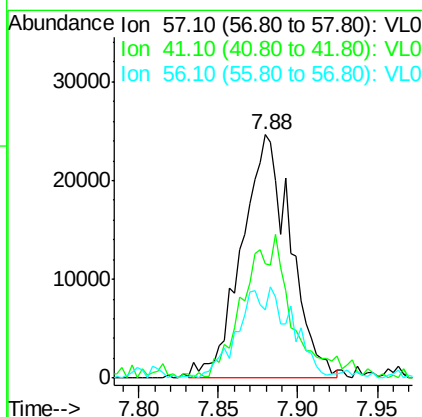
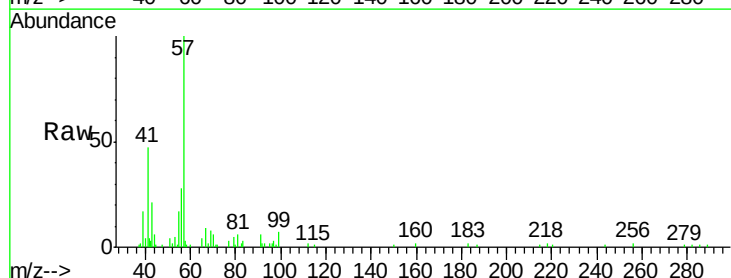
RT: 7.88 min Scan# 1584

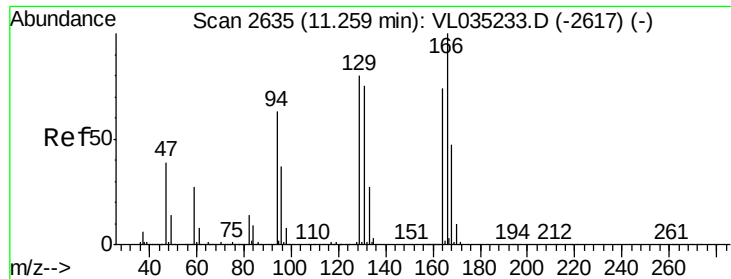
Delta R.T. 0.00 min

Lab File: VL035253.D

Acq: 29 Jul 2020 19:28

Tgt Ion:	57	Resp:	52500
Ion	Ratio	Lower	Upper
57	100		
41	59.3	27.0	40.4#
56	41.0	25.6	38.4#





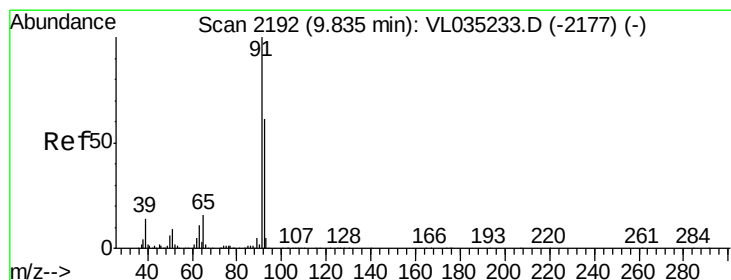
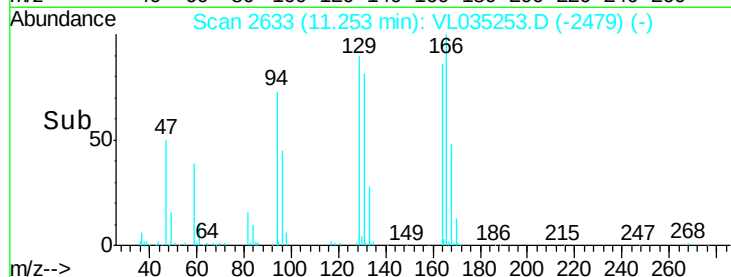
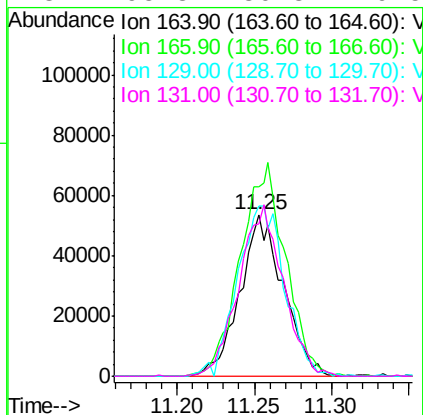
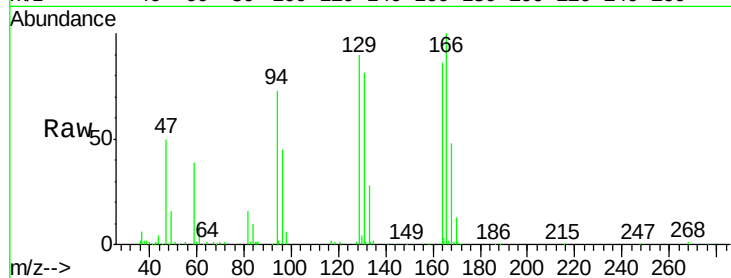
#52
Tetrachloroethene
Concen: 1.560 ppbv
RT: 11.25 min Scan# 2633
Delta R.T. -0.01 min
Lab File: VL035253.D
Acq: 29 Jul 2020 19:28

Instrument :
MSVOA_L
ClientSampled :
OA1

Tot Ion	Ratio	Lower	Upper
164	100		
166	118.7	107.5	161.3
129	105.2	86.0	129.0
131	95.3	80.3	120.5

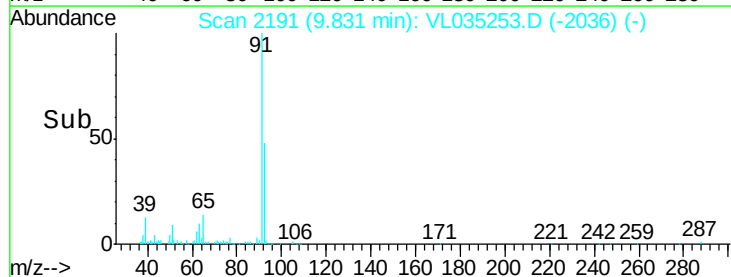
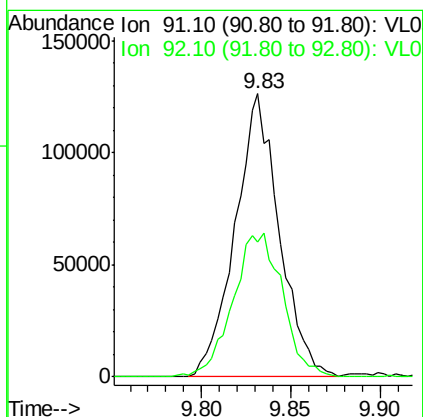
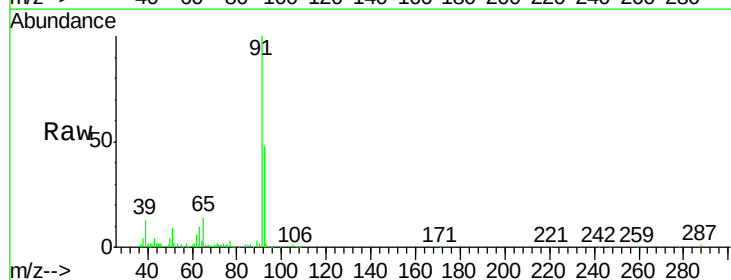
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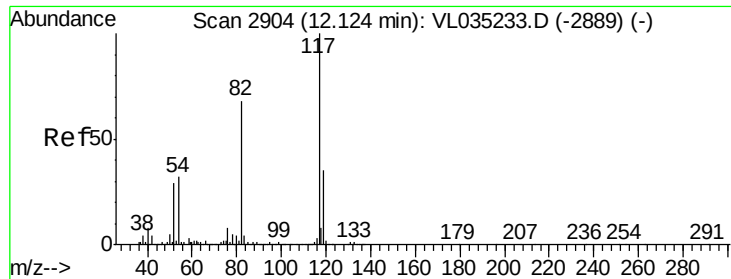
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#53
Toluene
Concen: 1.166 ppbv
RT: 9.83 min Scan# 2191
Delta R.T. -0.00 min
Lab File: VL035253.D
Acq: 29 Jul 2020 19:28

Tgt Ion	Ratio	Lower	Upper
91	100		
92	56.9	48.5	72.7





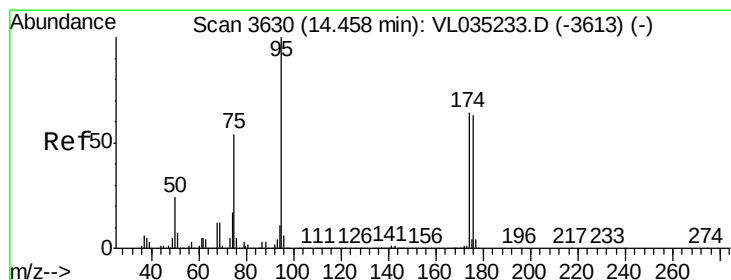
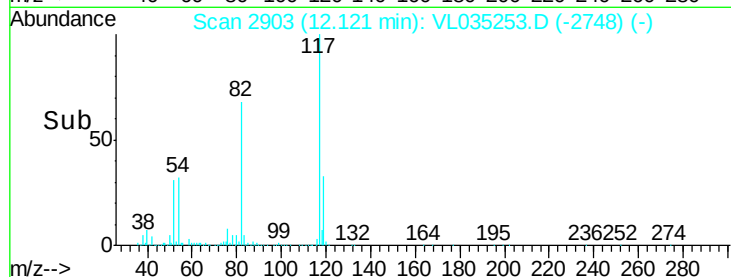
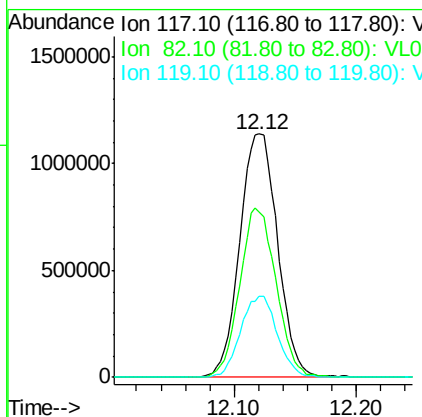
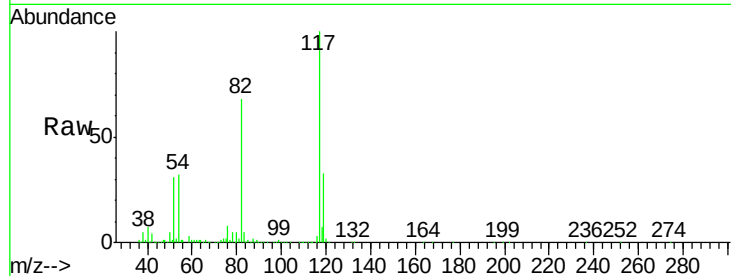
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.12 min Scan# 2903
Delta R.T. -0.00 min
Lab File: VL035253.D
Acq: 29 Jul 2020 19:28

Instrument :
MSVOA_L
ClientSampleId :
OA1

Tot Ion:117 Resp: 2434027
Ion Ratio Lower Upper
117 100
82 67.5 52.4 78.6
119 32.5 24.6 36.8

Manual Integrations
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#68
1-Bromo-4-Fluorobenzene
Concen: 10.122 ppbv
RT: 14.46 min Scan# 3629
Delta R.T. -0.00 min
Lab File: VL035253.D
Acq: 29 Jul 2020 19:28

Tgt Ion: 95 Resp: 1968763
Ion Ratio Lower Upper
95 100
174 65.4 52.7 79.1
175 4.7 3.9 5.9

