

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL051920\
 Data File : VL035054.D
 Acq On : 19 May 2020 21:37
 Operator : SY/AP
 Sample : L2683-05
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IR-PR-IA

Manual Integrations
 APPROVED

MMDadoda
 5/20/2020 4:27:46 PM

Quant Time: May 20 06:41:59 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	5.64	49	1134929	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.16	114	2577494	10.00	ppbv	-0.03
55) Chlorobenzene-d5	12.10	117	2437318	10.00	ppbv	-0.03

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.43	95	2109154	10.69	ppbv	-0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	106.90%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.00	85	47323	0.294	ppbv	95
3) Chlorodifluoromethane	2.94	51	96572m	0.745	ppbv	
4) Chloromethane	3.09	50	38963	0.525	ppbv	96
9) Propene	2.97	41	159504m	2.837	ppbv	
11) Trichlorofluoromethane	3.91	101	44753	0.269	ppbv	89
13) Ethanol	3.56	45	3231622	174.173	ppbv	97
15) Acetone	3.81	43	1340000	8.931	ppbv	99
19) Isopropyl Alcohol	3.94	45	164367	1.643	ppbv #	1
20) Methylene Chloride	4.31	84	36091m	0.727	ppbv	
26) Hexane	5.66	57	80523	0.737	ppbv #	51
29) Chloroform	5.73	83	43475	0.243	ppbv	85
34) 2-Butanone	5.22	43	48242	0.301	ppbv	96
35) Carbon Tetrachloride	7.01	117	11002m	0.068	ppbv	
36) Benzene	6.88	78	24077m	0.113	ppbv	
52) Tetrachloroethene	11.23	164	61006m	0.807	ppbv	
53) Toluene	9.80	91	303798	1.349	ppbv	98

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

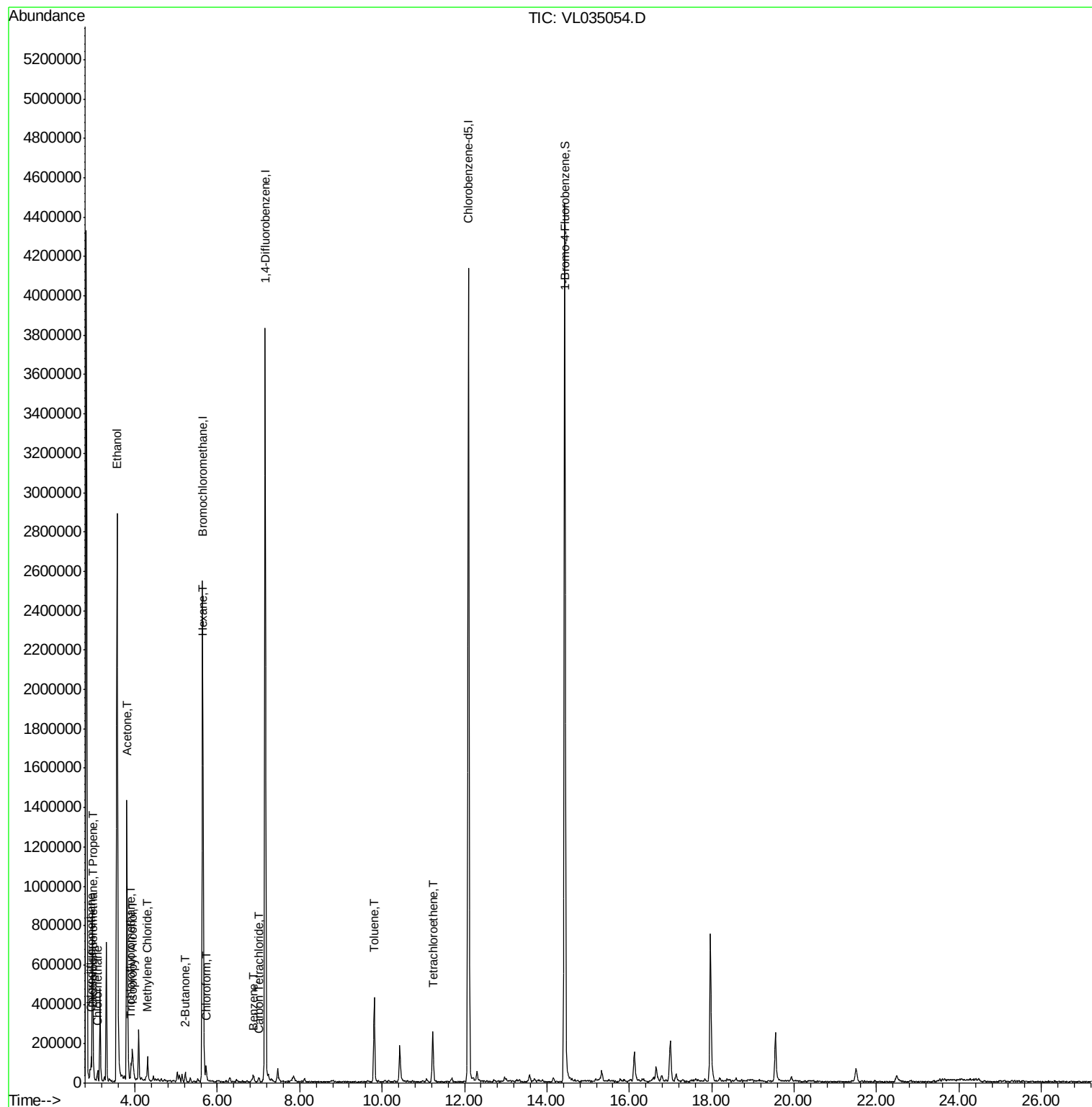
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL051920\
Data File : VL035054.D
Acq On : 19 May 2020 21:37
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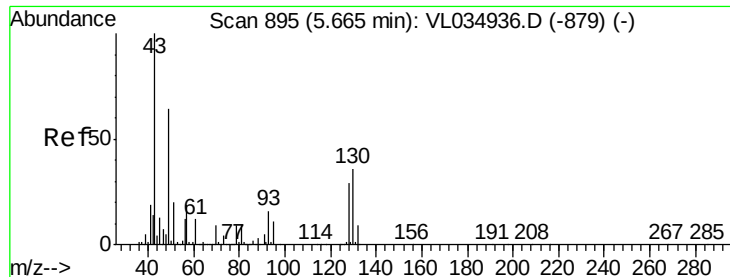
Instrument :
MSVOA_L
ClientSampleId :
IR-PR-IA

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Quant Time: May 20 06:41:59 2020
Quant Method : Z:\V0ASRV\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: 5.64 min Scan# 888

Delta R.T. -0.02 min

Lab File: VL035054.D

Acq: 19 May 2020 21:37

Instrument :

MSVOA_L

ClientSampleId :

IR-PR-IA

Tot Ion: 49 Resp: 1134929

Ion Ratio Lower Upper

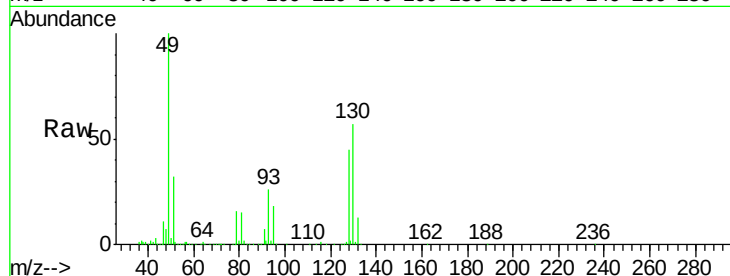
49 100

128 45.5 22.1 66.5

130 58.5 29.1 87.3

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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

800000

600000

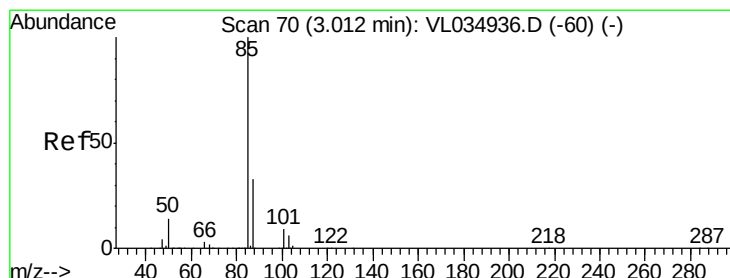
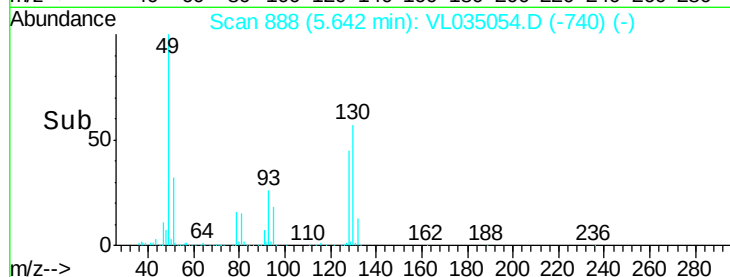
400000

200000

0

5.60 5.65 5.70

Time-->



#2

Dichlorodifluoromethane

Concen: 0.294 ppbv

RT: 3.00 min Scan# 66

Delta R.T. -0.01 min

Lab File: VL035054.D

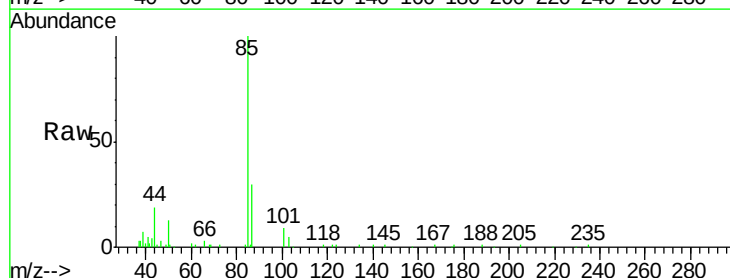
Acq: 19 May 2020 21:37

Tgt Ion: 85 Resp: 47323

Ion Ratio Lower Upper

85 100

87 30.0 26.2 39.2



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

40000

30000

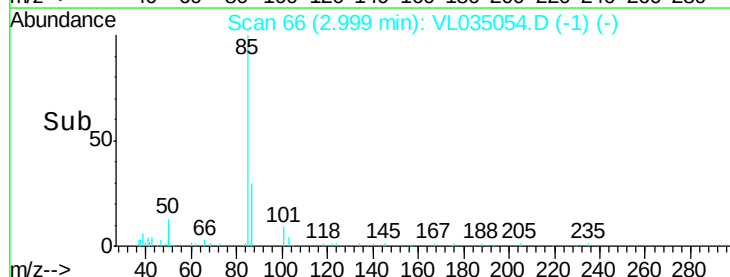
20000

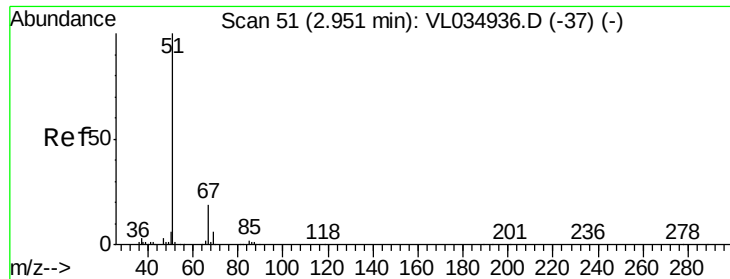
10000

0

2.95 3.00

Time-->





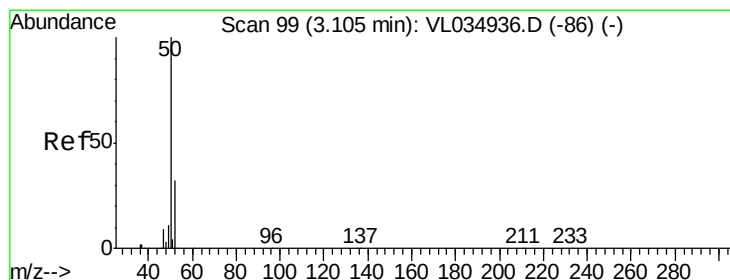
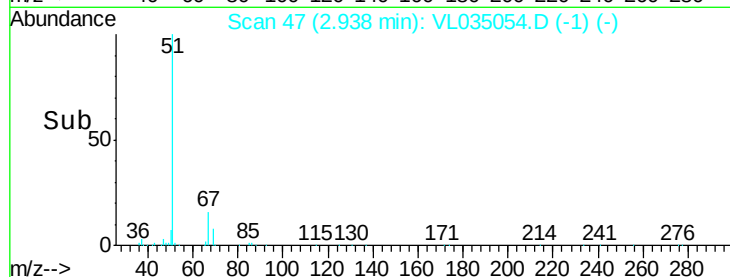
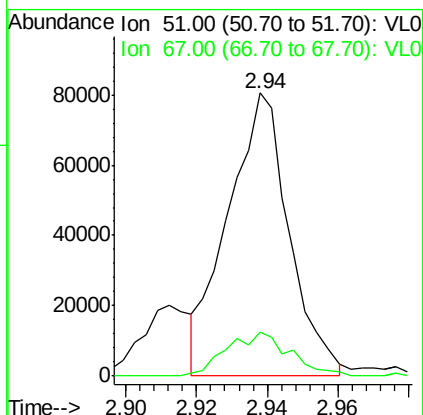
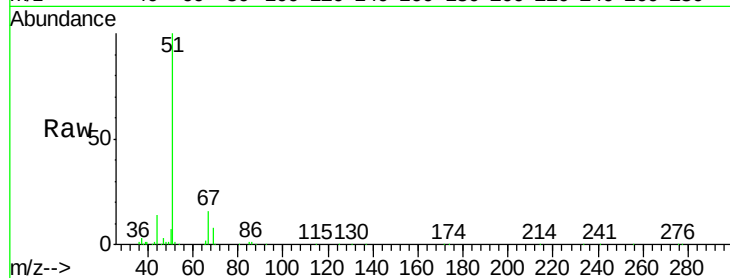
#3
Chlorodifluoromethane
Concen: 0.745 ppbv
RT: 2.94 min Scan# 47
Delta R.T. -0.01 min
Lab File: VL035054.D
Acq: 19 May 2020 21:37

Instrument :
MSVOA_L
ClientSampleId :
IR-PR-IA

Tot Ion	Ratio	Lower	Upper
51	100		
67	16.3	15.0	22.6

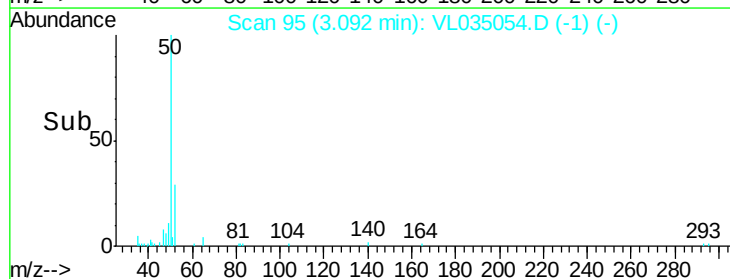
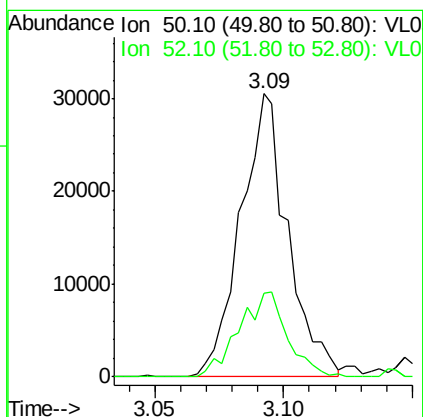
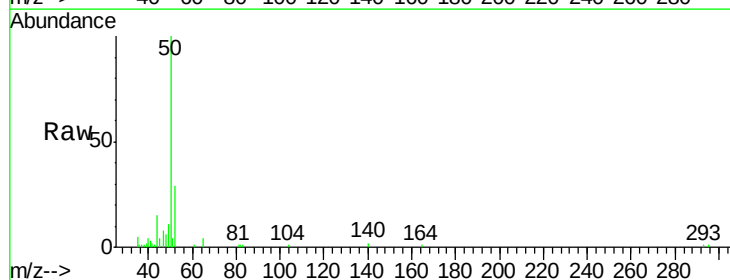
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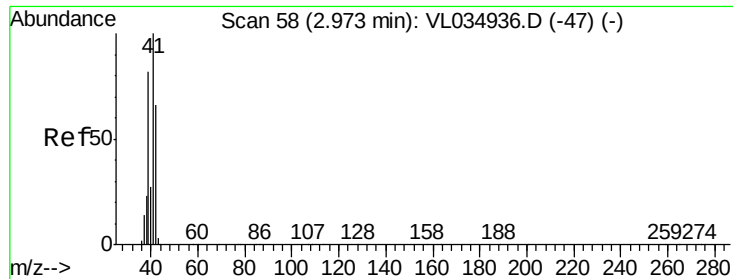
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#4
Chloromethane
Concen: 0.525 ppbv
RT: 3.09 min Scan# 95
Delta R.T. -0.01 min
Lab File: VL035054.D
Acq: 19 May 2020 21:37

Tgt Ion	Ratio	Lower	Upper
50	100		
52	29.4	25.4	38.2





#9

Propene

Concen: 2.837 ppbv m

RT: 2.97 min Scan# 57

Delta R.T. -0.00 min

Lab File: VL035054.D

Acq: 19 May 2020 21:37

Instrument :

MSVOA_L

ClientSampled :

IR-PR-IA

Tot Ion: 41 Resp: 159504

Ion Ratio Lower Upper

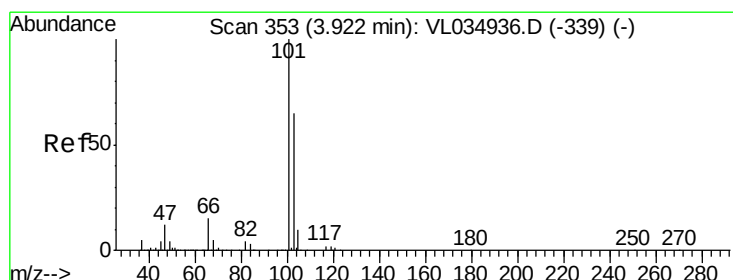
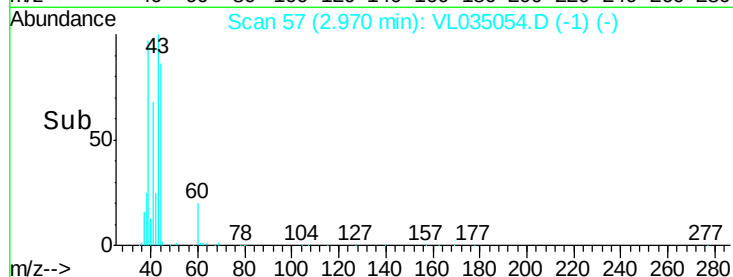
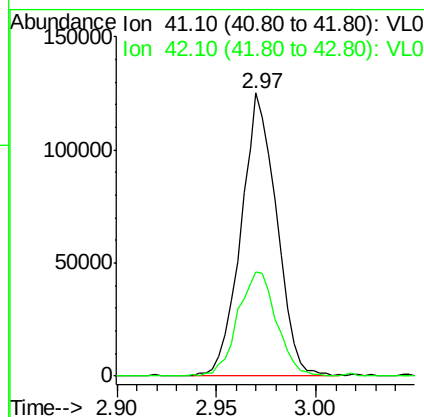
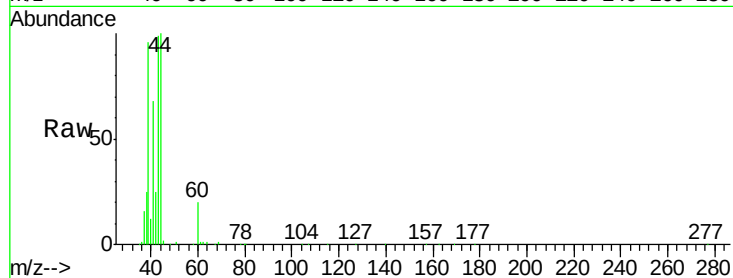
41 100

42 46.4 54.5 81.7#

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#11

Trichlorofluoromethane

Concen: 0.269 ppbv

RT: 3.91 min Scan# 349

Delta R.T. -0.01 min

Lab File: VL035054.D

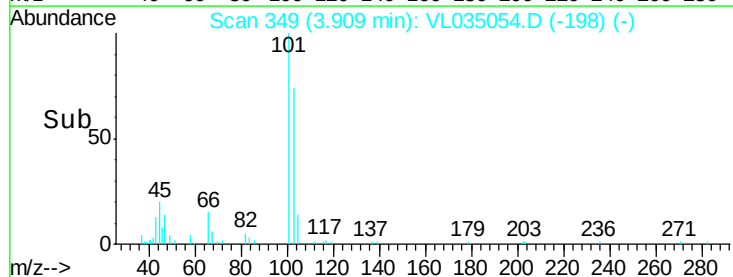
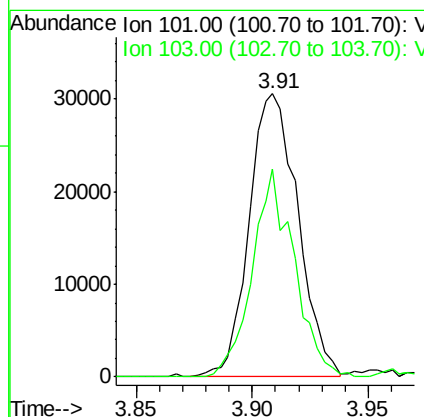
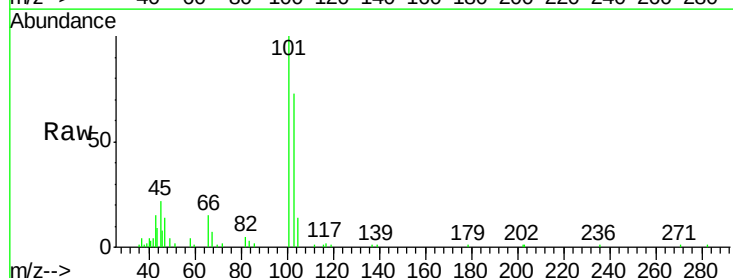
Acq: 19 May 2020 21:37

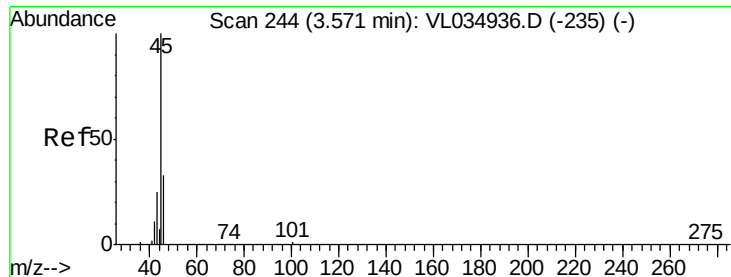
Tgt Ion: 101 Resp: 44753

Ion Ratio Lower Upper

101 100

103 73.3 51.9 77.9





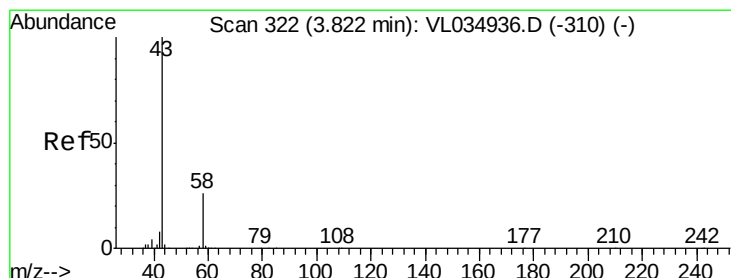
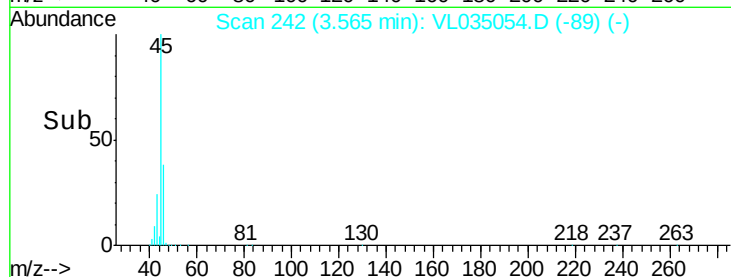
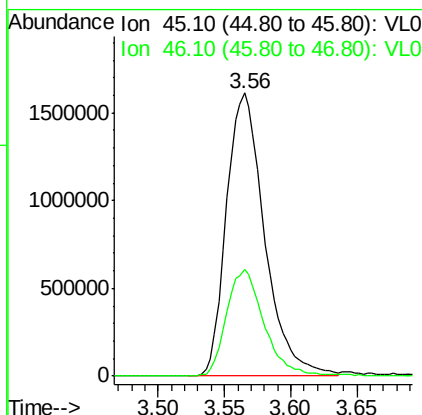
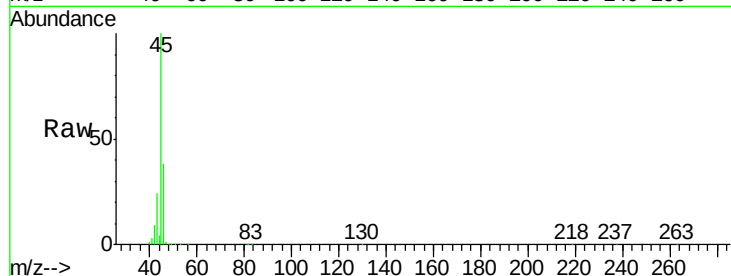
#13
Ethanol
Concen: 174.173 ppbv
RT: 3.56 min Scan# 242
Delta R.T. -0.01 min
Lab File: VL035054.D
Acq: 19 May 2020 21:37

Instrument :
MSVOA_L
ClientSampleId :
IR-PR-IA

Tot Ion: 45 Resp: 3231622
Ion Ratio Lower Upper
45 100
46 37.4 14.3 57.3

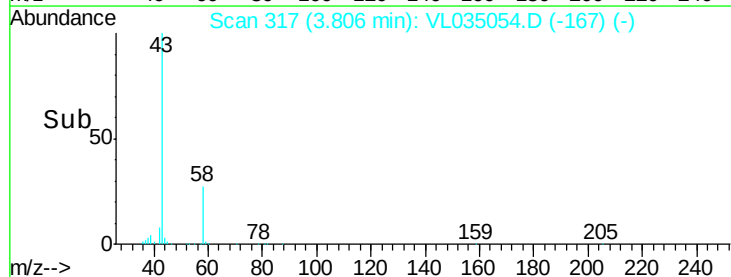
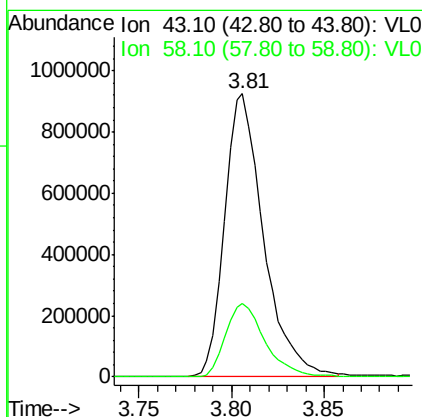
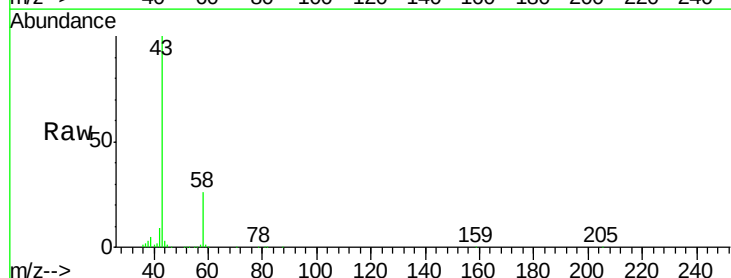
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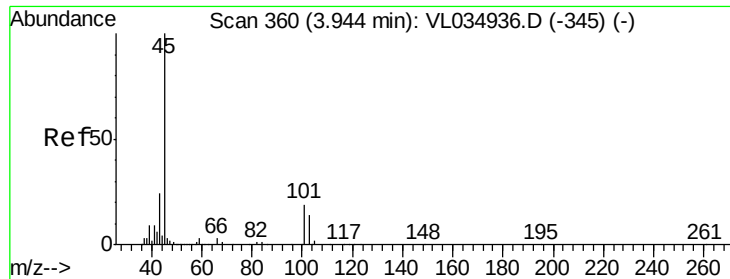
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#15
Acetone
Concen: 8.931 ppbv
RT: 3.81 min Scan# 317
Delta R.T. -0.02 min
Lab File: VL035054.D
Acq: 19 May 2020 21:37

Tgt Ion: 43 Resp: 1340000
Ion Ratio Lower Upper
43 100
58 26.8 21.7 32.5





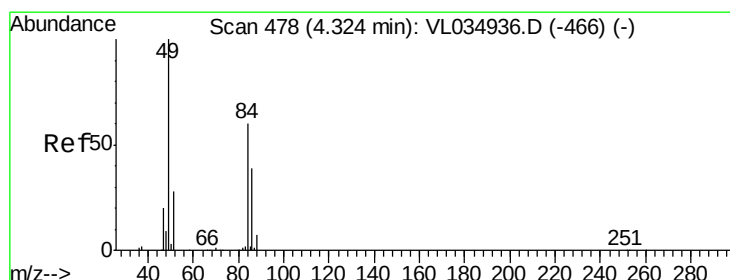
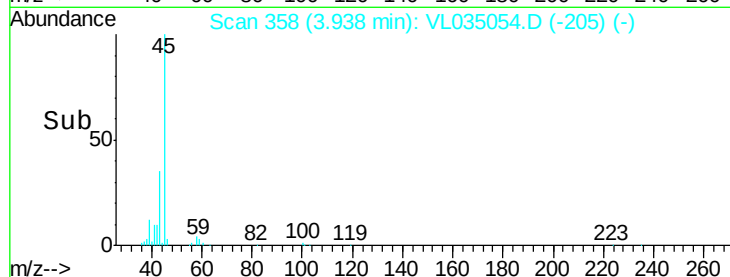
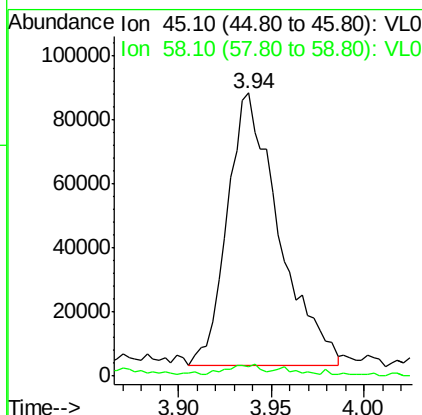
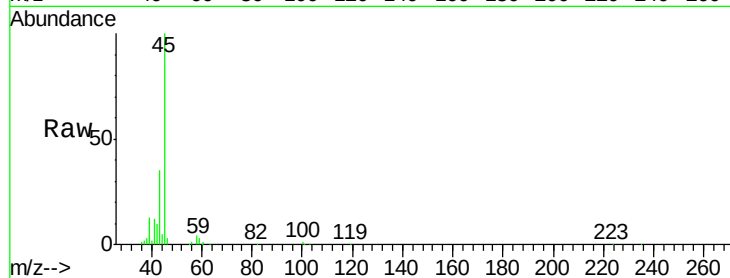
#19
Isopropyl Alcohol
Concen: 1.643 ppbv
RT: 3.94 min Scan# 358
Delta R.T. -0.01 min
Lab File: VL035054.D
Acq: 19 May 2020 21:37

Instrument :
MSVOA_L
ClientSampleId :
IR-PR-IA

Tot Ion: 45 Resp: 164367
Ion Ratio Lower Upper
45 100
58 218.5 1.7 2.5#

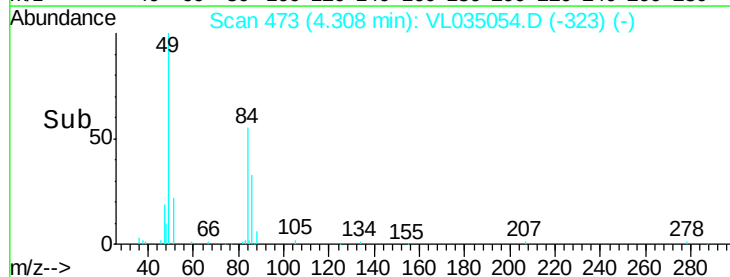
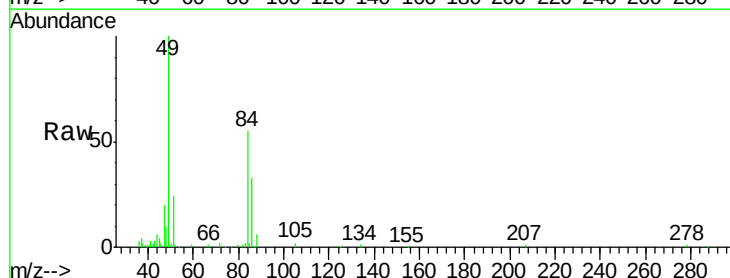
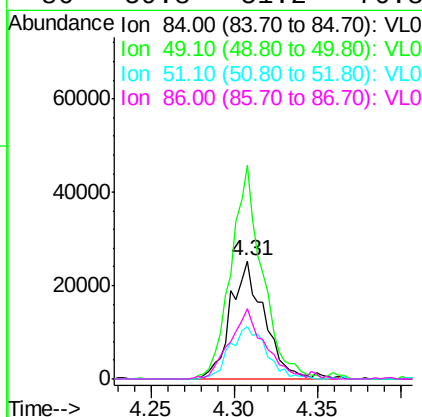
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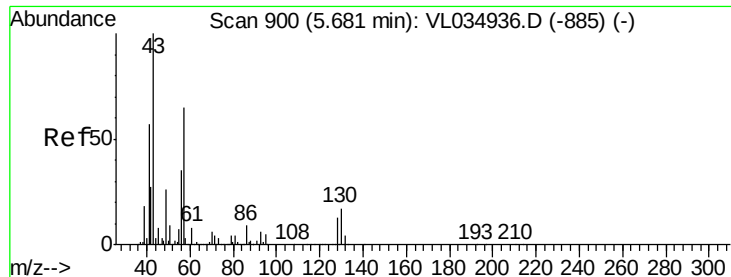
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#20
Methylene Chloride
Concen: 0.727 ppbv m
RT: 4.31 min Scan# 473
Delta R.T. -0.02 min
Lab File: VL035054.D
Acq: 19 May 2020 21:37

Tgt Ion: 84 Resp: 36091
Ion Ratio Lower Upper
84 100
49 180.9 132.5 198.7
51 44.0 38.4 57.6
86 59.8 51.2 76.8





#26

Hexane

Concen: 0.737 ppbv

RT: 5.66 min Scan# 894

Delta R.T. -0.02 min

Lab File: VL035054.D

Acq: 19 May 2020 21:37

Instrument :

MSVOA_L

ClientSampleId :

IR-PR-IA

Tot Ion: 57 Resp: 80523

Ion Ratio Lower Upper

57 100

41 100.6 72.7 109.1

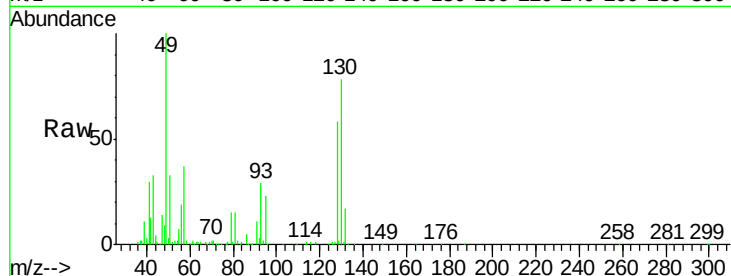
43 107.2 182.1 273.1#

56 60.4 42.2 63.2

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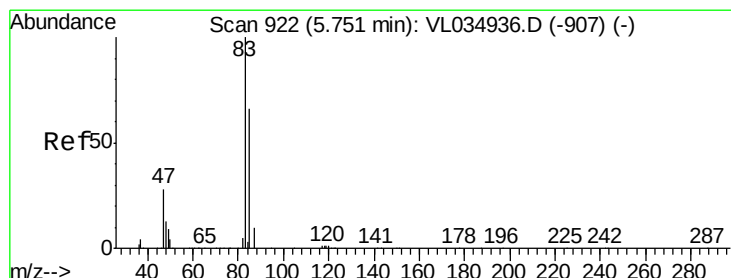
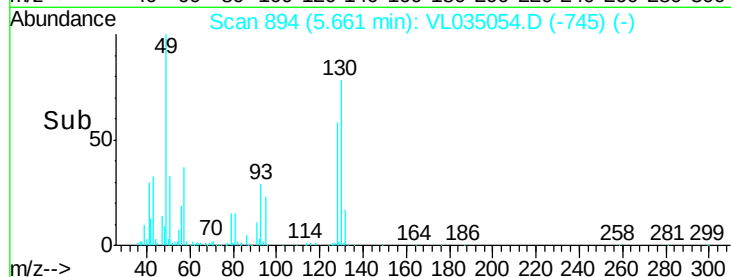
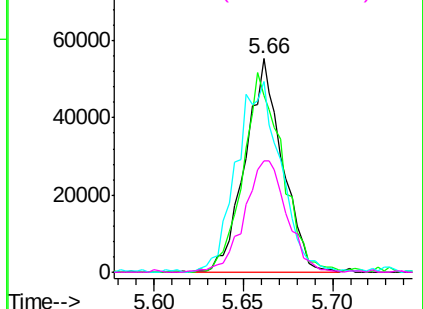


Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0



#29

Chloroform

Concen: 0.243 ppbv

RT: 5.73 min Scan# 915

Delta R.T. -0.02 min

Lab File: VL035054.D

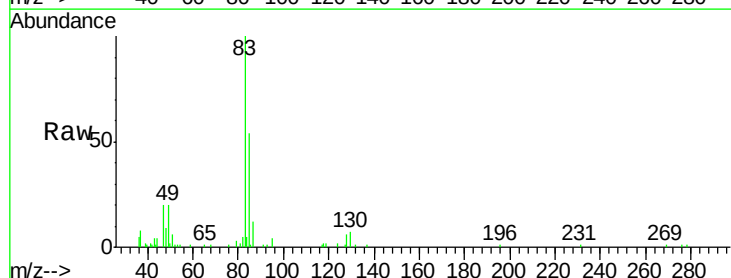
Acq: 19 May 2020 21:37

Tgt Ion: 83 Resp: 43475

Ion Ratio Lower Upper

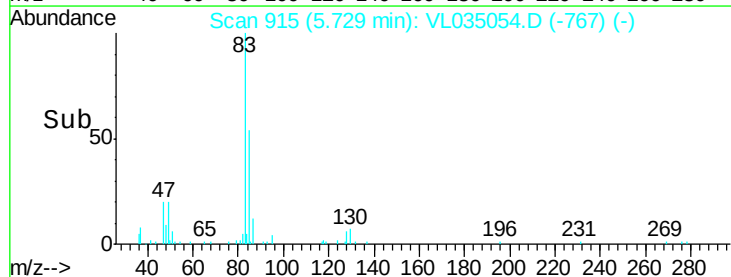
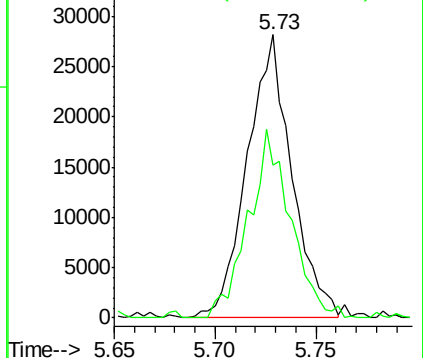
83 100

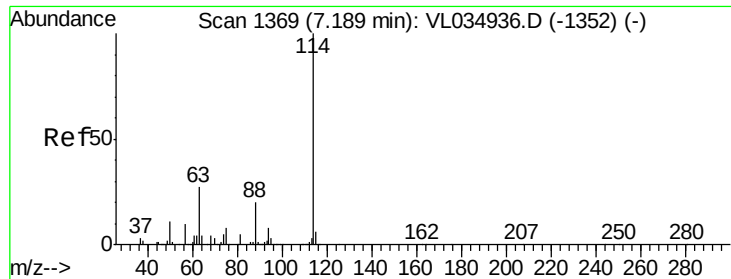
85 54.1 53.0 79.6



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0





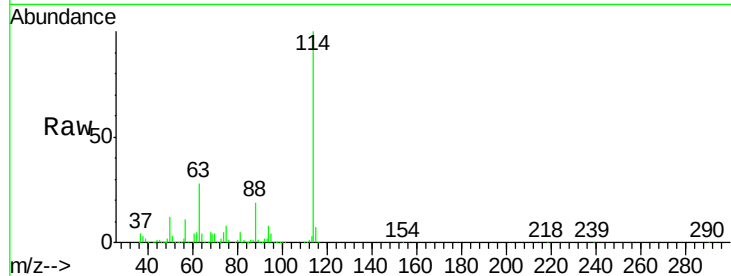
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.16 min Scan# 1361
 Delta R.T. -0.03 min
 Lab File: VL035054.D
 Acq: 19 May 2020 21:37

Instrument :
 MSVOA_L
 ClientSampleId :
 IR-PR-IA

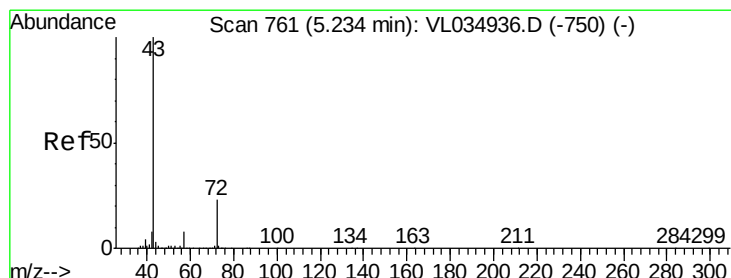
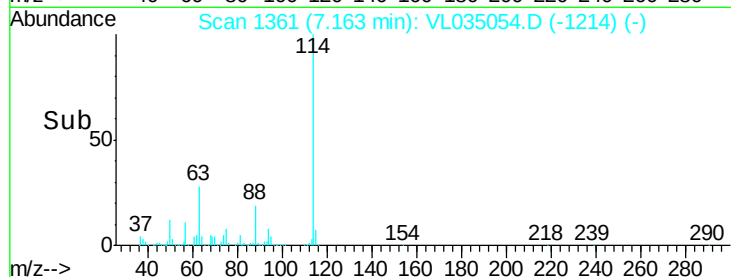
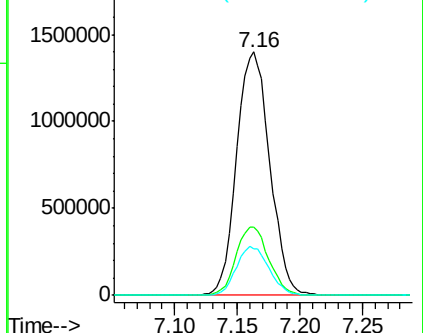
Tot Ion:114 Resp: 2577494
 Ion Ratio Lower Upper
 114 100
 63 27.8 22.2 33.4
 88 19.7 15.5 23.3

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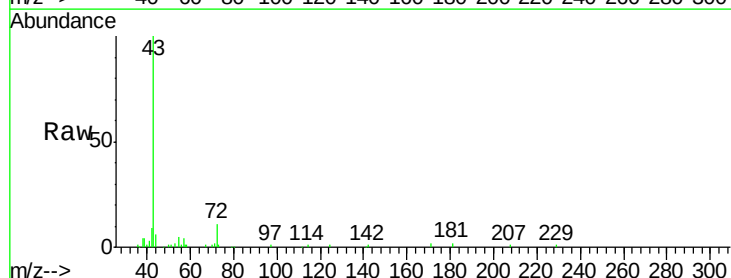


Abundance Ion 114.10 (113.80 to 114.80): V
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

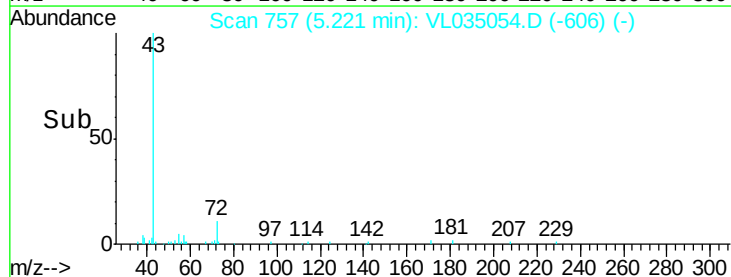
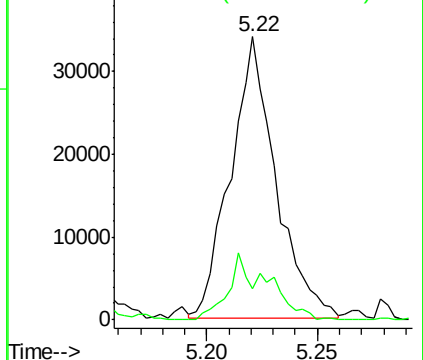


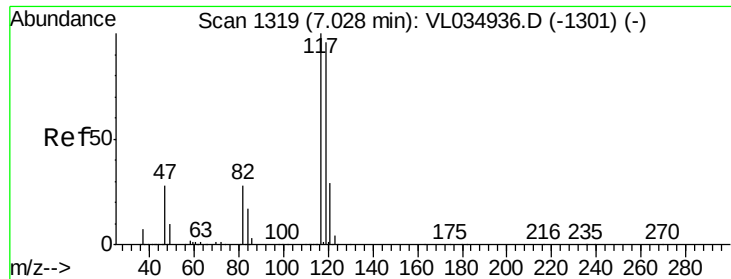
#34
 2-Butanone
 Concen: 0.301 ppbv
 RT: 5.22 min Scan# 757
 Delta R.T. -0.01 min
 Lab File: VL035054.D
 Acq: 19 May 2020 21:37

Tgt Ion: 43 Resp: 48242
 Ion Ratio Lower Upper
 43 100
 72 20.7 18.0 27.0



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





#35

Carbon Tetrachloride

Concen: 0.068 ppbv m

RT: 7.01 min Scan# 1313

Delta R.T. -0.02 min

Lab File: VL035054.D

Acq: 19 May 2020 21:37

Instrument :

MSVOA_L

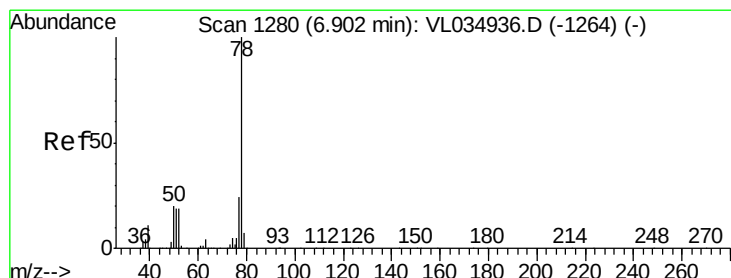
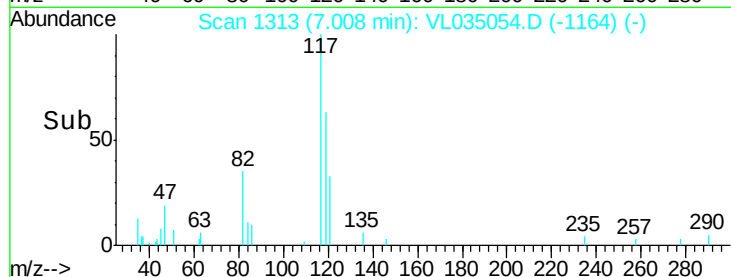
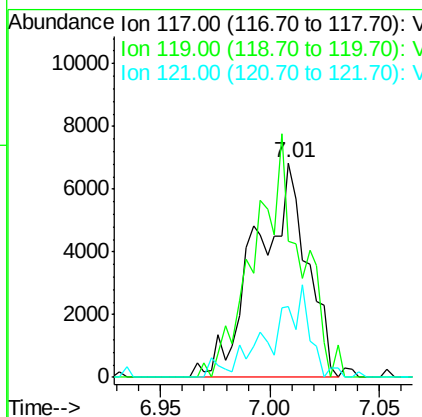
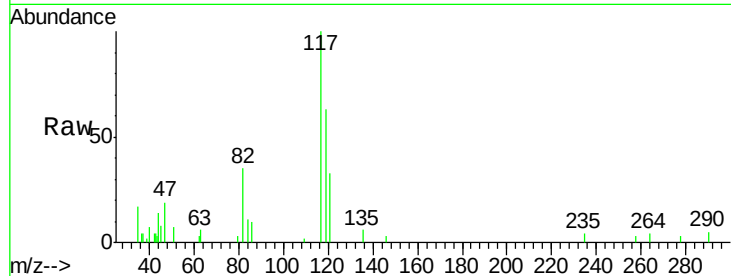
ClientSampled :

IR-PR-IA

Tot Ion	Ratio	Lower	Upper
117	100		
119	63.3	77.0	115.6#
121	32.8	23.0	34.6

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#36

Benzene

Concen: 0.113 ppbv m

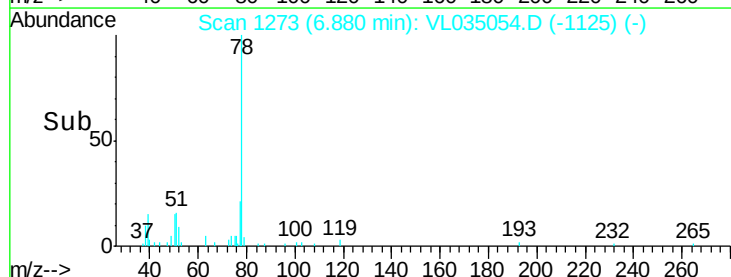
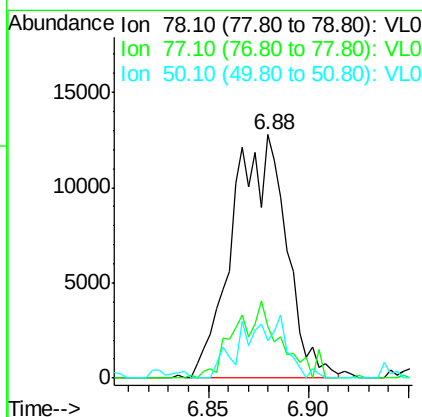
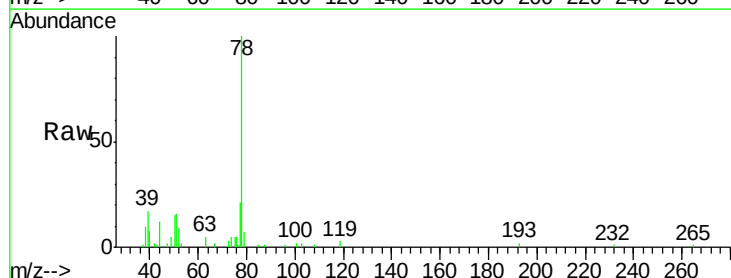
RT: 6.88 min Scan# 1273

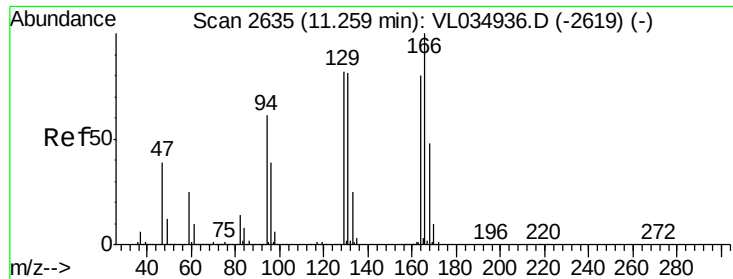
Delta R.T. -0.02 min

Lab File: VL035054.D

Acq: 19 May 2020 21:37

Tgt Ion	Ratio	Lower	Upper
78	100		
77	21.0	19.0	28.6
50	15.4	15.8	23.8#





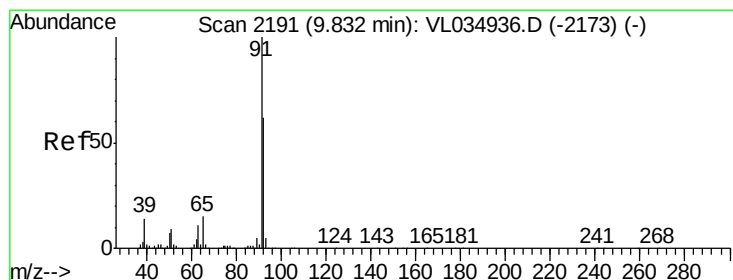
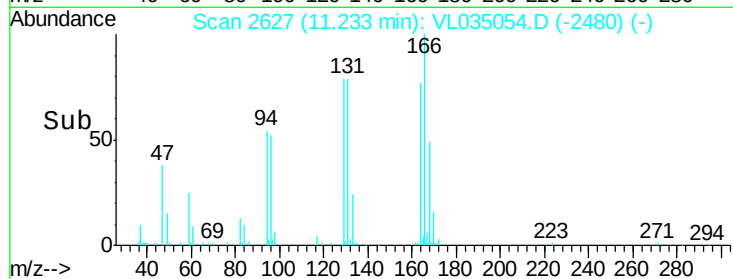
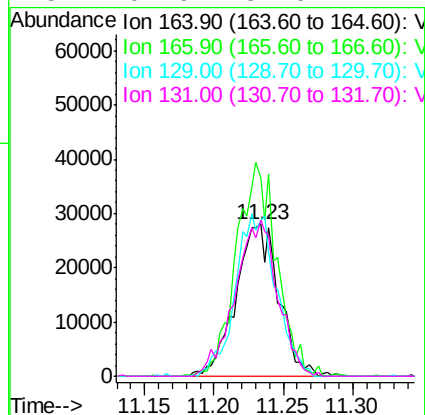
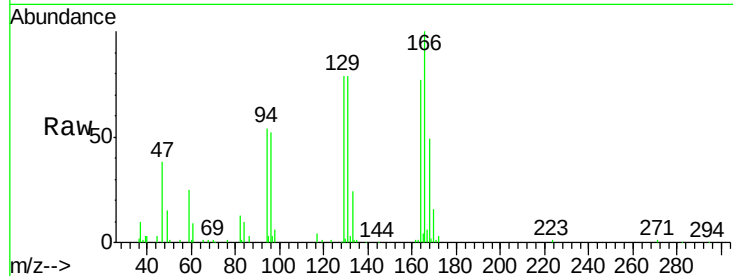
#52
Tetrachloroethene
Concen: 0.807 ppbv m
RT: 11.23 min Scan# 2627
Delta R.T. -0.03 min
Lab File: VL035054.D
Acq: 19 May 2020 21:37

Instrument :
MSVOA_L
ClientSampleId :
IR-PR-IA

Tot Ion	Ratio	Lower	Upper
164	100		
166	130.6	100.7	151.1
129	103.2	83.0	124.4
131	102.9	81.0	121.4

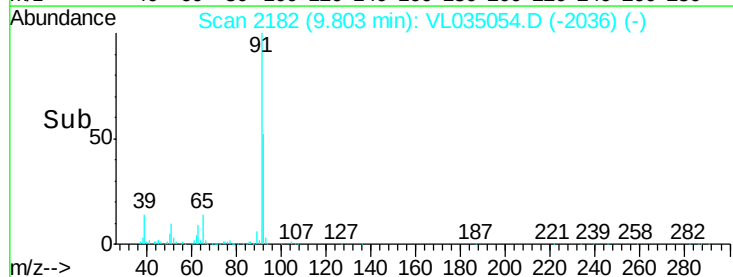
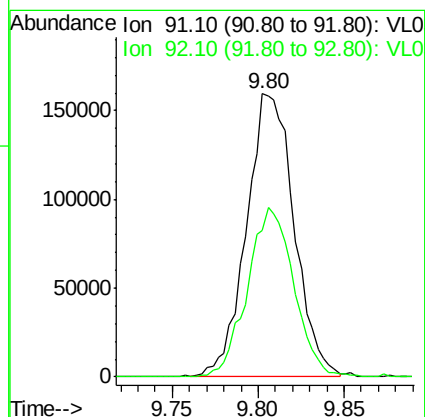
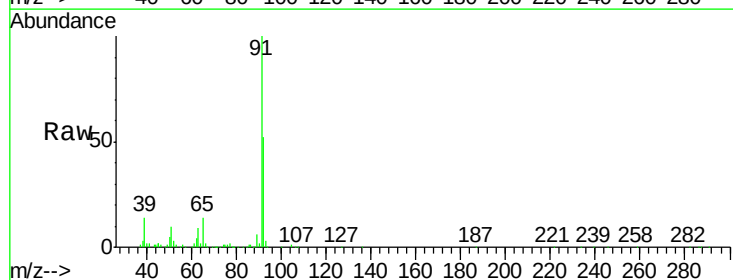
Manual Integrations
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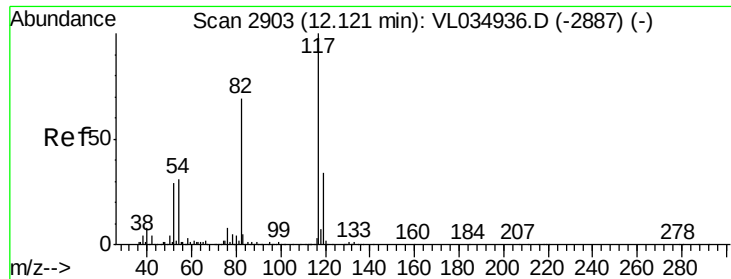
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#53
Toluene
Concen: 1.349 ppbv
RT: 9.80 min Scan# 2182
Delta R.T. -0.03 min
Lab File: VL035054.D
Acq: 19 May 2020 21:37

Tgt Ion	Ratio	Lower	Upper
91	100		
92	59.0	48.6	73.0





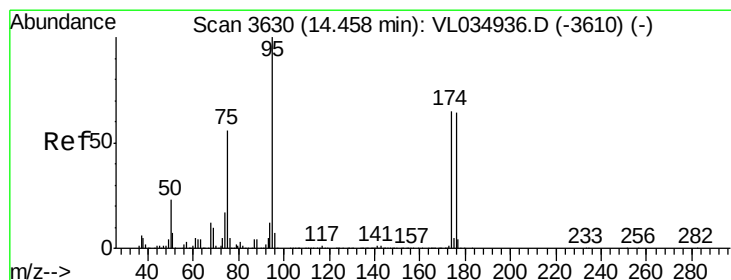
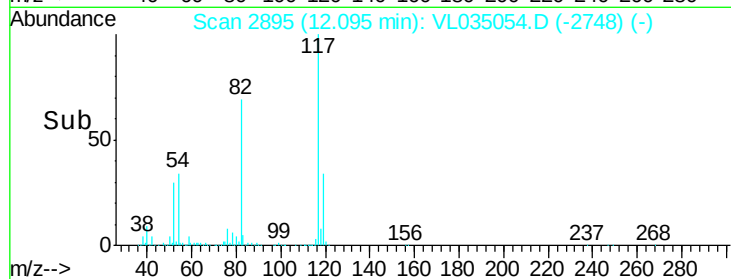
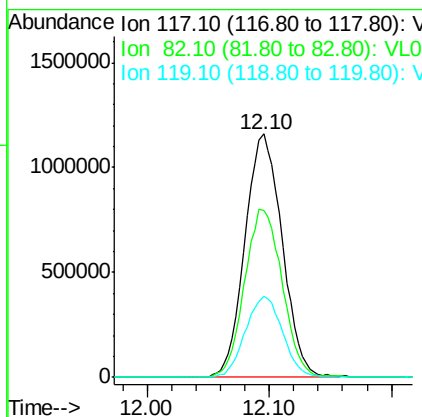
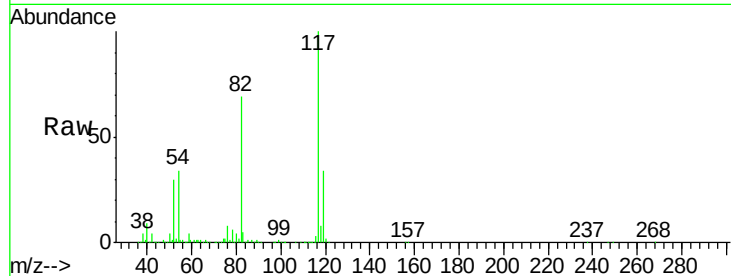
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.10 min Scan# 2895
Delta R.T. -0.03 min
Lab File: VL035054.D
Acq: 19 May 2020 21:37

Instrument :
MSVOA_L
ClientSampleId :
IR-PR-IA

Tot Ion	Ratio	Lower	Upper
117	100		
82	70.1	53.1	79.7
119	33.4	26.7	40.1

Manual Integrations
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#68
1-Bromo-4-Fluorobenzene
Concen: 10.691 ppbv
RT: 14.43 min Scan# 3621
Delta R.T. -0.03 min
Lab File: VL035054.D
Acq: 19 May 2020 21:37

Tgt Ion	Ratio	Lower	Upper
95	100		
174	63.9	51.5	77.3
175	4.9	3.8	5.8

