

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL032621\
 Data File : VL036534.D
 Acq On : 27 Mar 2021 4:34
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Manual Integrations
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Quant Time: Mar 27 06:26:39 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032521AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Mar 27 06:26:39 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	5.66	49	1350020	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	2882454	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	2521158	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.42	95	1951775	9.71	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.10%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	27883m	0.127	ppbv	
3) Chlorodifluoromethane	2.99	51	41052m	0.163	ppbv	
4) Chloromethane	3.14	50	22881	0.257	ppbv #	78
9) Propene	3.02	41	26928m	0.335	ppbv	
11) Trichlorofluoromethane	3.94	101	28069	0.125	ppbv	94
13) Ethanol	3.62	45	758668	79.229	ppbv	95
15) Acetone	3.85	43	488321	3.675	ppbv	100
17) tert-Butyl alcohol	4.32	59	14779m	0.128	ppbv	
19) Isopropyl Alcohol	3.99	45	210723m	2.883	ppbv	
20) Methylene Chloride	4.34	84	496701	7.984	ppbv	92
26) Hexane	5.68	57	380310	2.594	ppbv #	57
34) 2-Butanone	5.25	43	34682m	0.246	ppbv	
35) Carbon Tetrachloride	7.02	117	9224m	0.042	ppbv	
38) Trichloroethene	7.83	130	59392m	0.574	ppbv	
53) Toluene	9.81	91	31407m	0.111	ppbv	

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

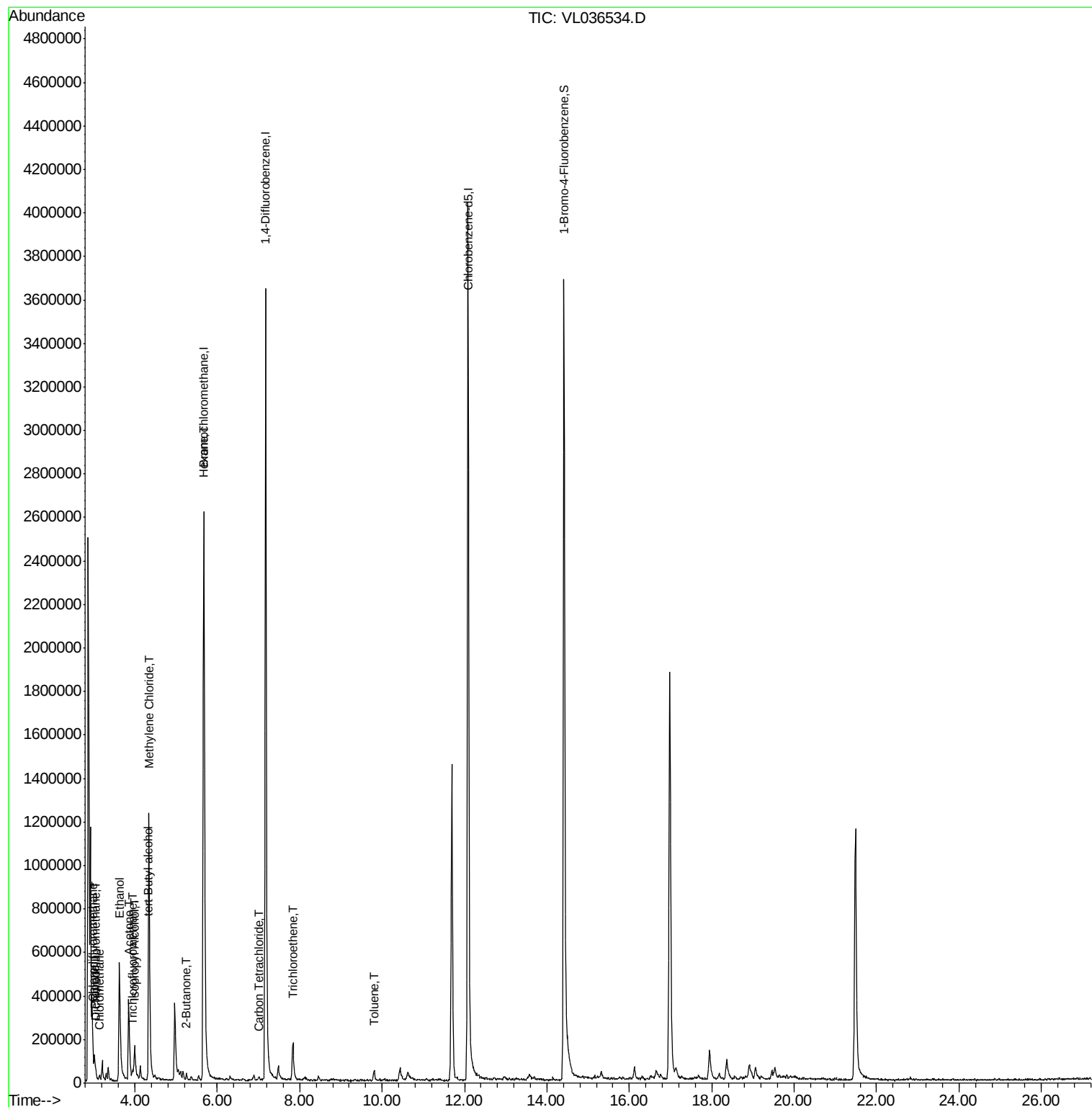
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL032621\
Data File : VL036534.D
Acq On : 27 Mar 2021 4:34
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Manual Integrations
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Quant Time: Mar 27 06:26:39 2021
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL032521AIR.M
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: 5.66 min Scan# 895

Delta R.T. -0.01 min

Lab File: VL036534.D

Acq: 27 Mar 2021 4:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 49 Resp: 1350020

Ion Ratio Lower Upper

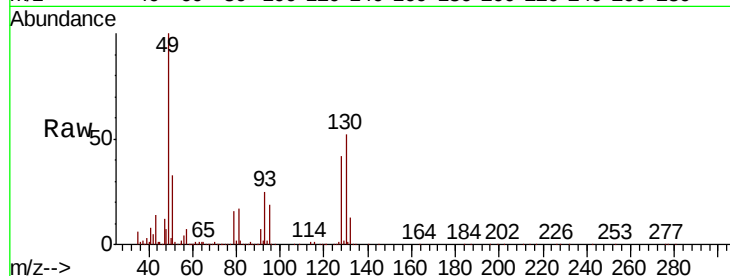
49 100

128 42.7 23.5 70.6

130 54.5 29.1 87.4

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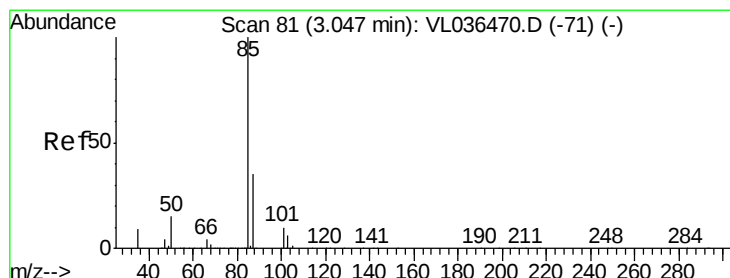
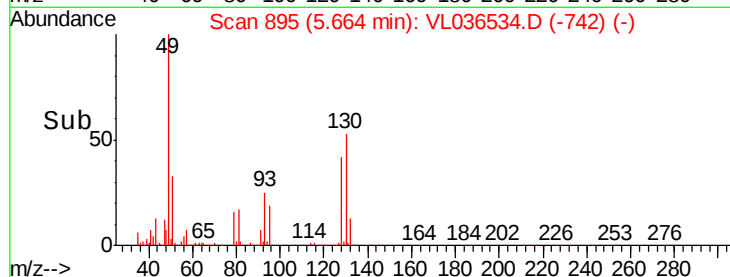
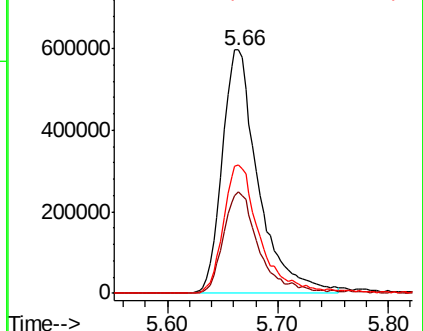
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 0.127 ppbv m

RT: 3.04 min Scan# 80

Delta R.T. -0.00 min

Lab File: VL036534.D

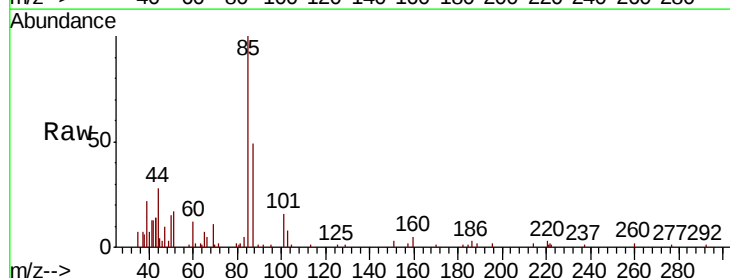
Acq: 27 Mar 2021 4:34

Tgt Ion: 85 Resp: 27883

Ion Ratio Lower Upper

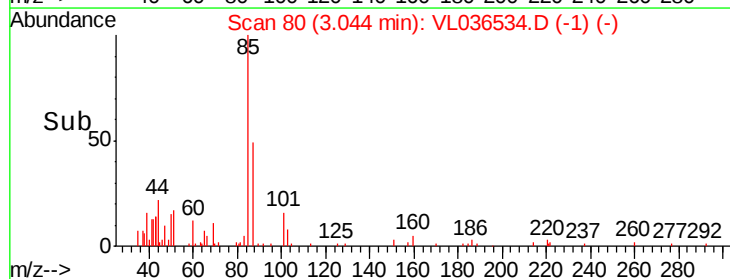
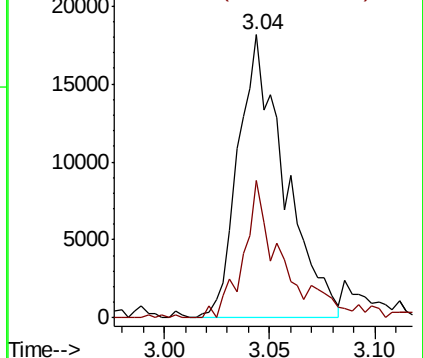
85 100

87 48.5 27.8 41.8#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

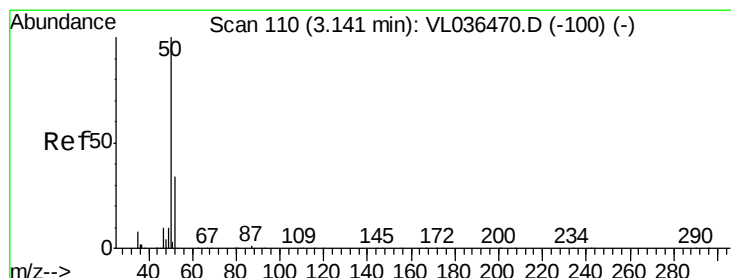
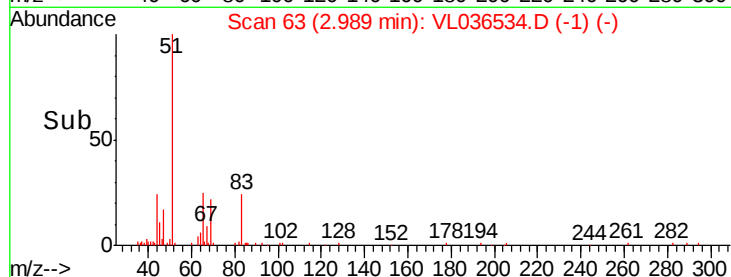
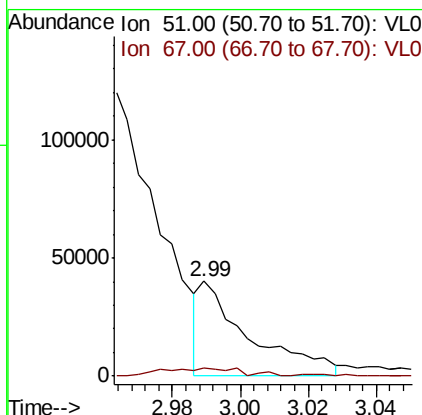
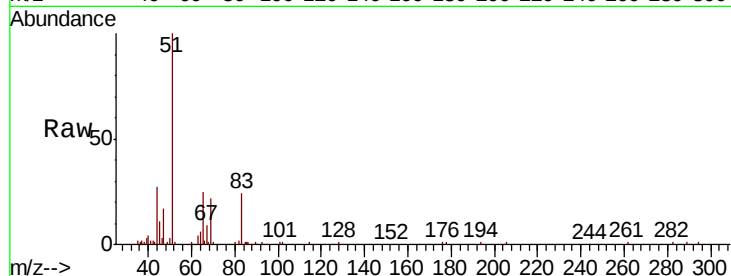
Chlorodifluoromethane
Concen: 0.163 ppbv
RT: 2.99 min Scan# 63
Delta R.T. 0.00 min
Lab File: VL036534.D
Acq: 27 Mar 2021 4:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
51	100		
67	14.3	14.7	22.1#

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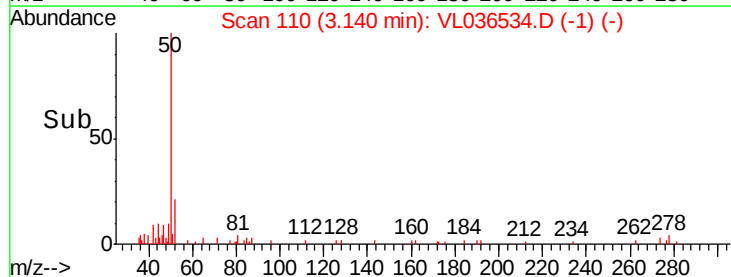
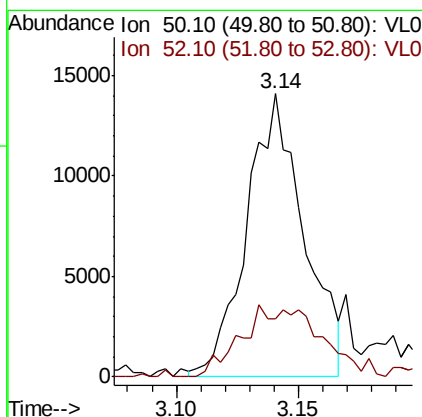
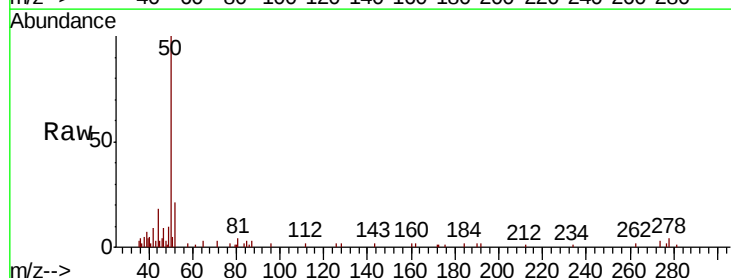
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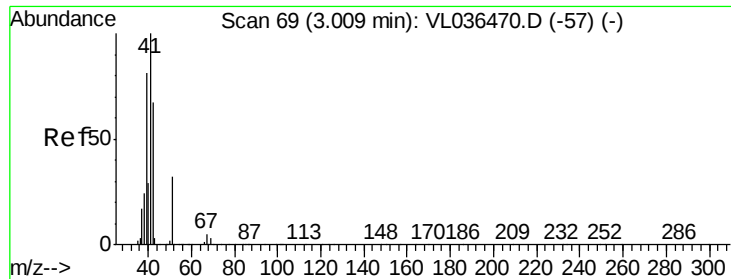


#4

Chloromethane
Concen: 0.257 ppbv
RT: 3.14 min Scan# 110
Delta R.T. -0.00 min
Lab File: VL036534.D
Acq: 27 Mar 2021 4:34

Tgt Ion	Ratio	Lower	Upper
50	100		
52	21.0	27.0	40.6#





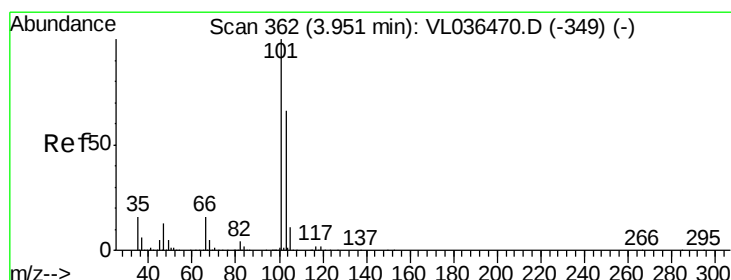
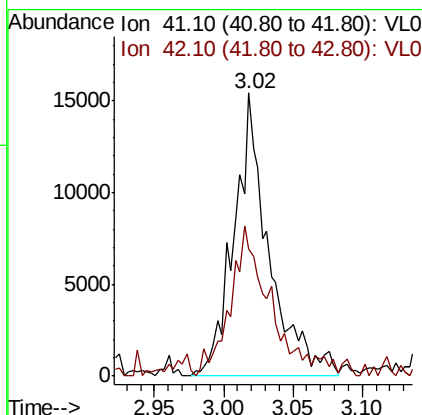
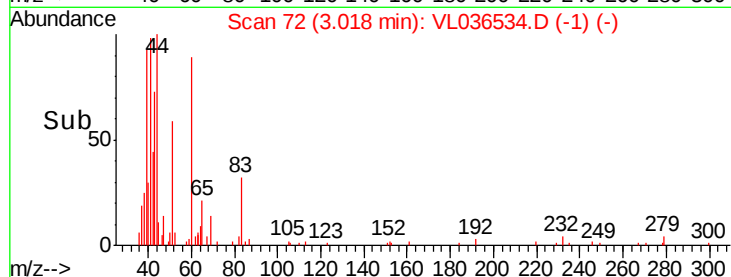
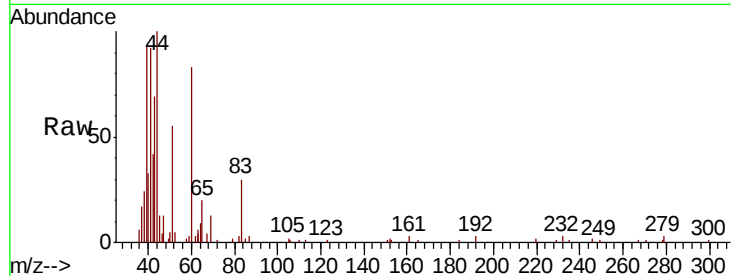
#9
 Propene
 Concen: 0.335 ppbv m
 RT: 3.02 min Scan# 72
 Delta R.T. 0.01 min
 Lab File: VL036534.D
 Acq: 27 Mar 2021 4:34

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion: 41 Resp: 26928
 Ion Ratio Lower Upper
 41 100
 42 33.0 57.0 85.4#

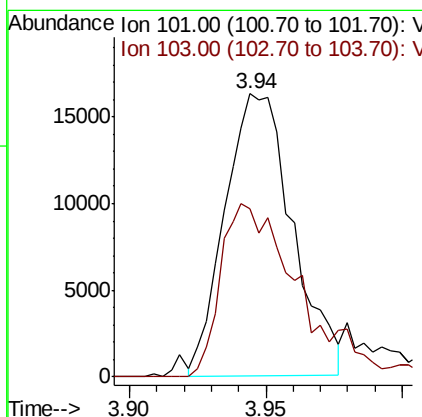
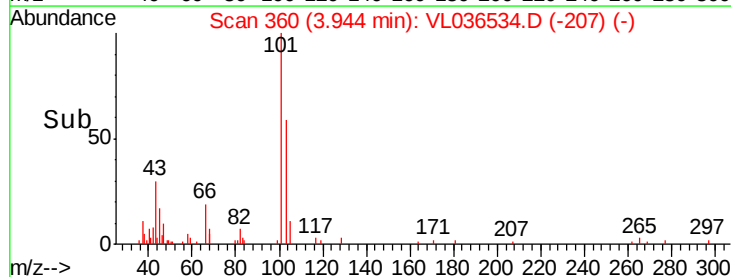
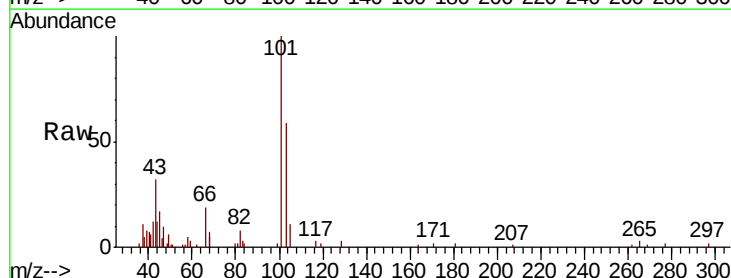
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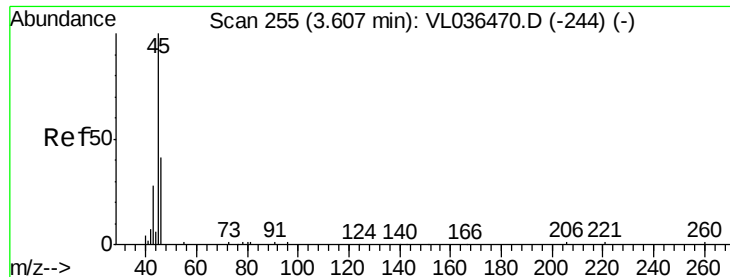
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#11
 Trichlorofluoromethane
 Concen: 0.125 ppbv
 RT: 3.94 min Scan# 360
 Delta R.T. -0.01 min
 Lab File: VL036534.D
 Acq: 27 Mar 2021 4:34

Tgt Ion: 101 Resp: 28069
 Ion Ratio Lower Upper
 101 100
 103 61.1 52.5 78.7





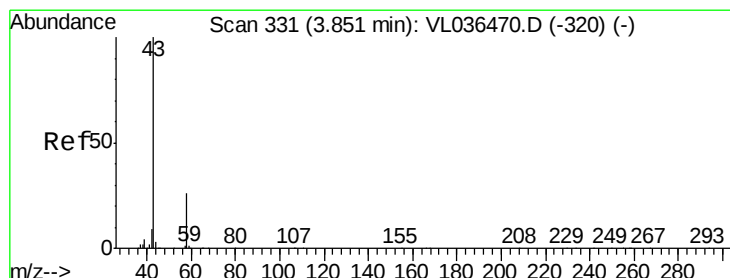
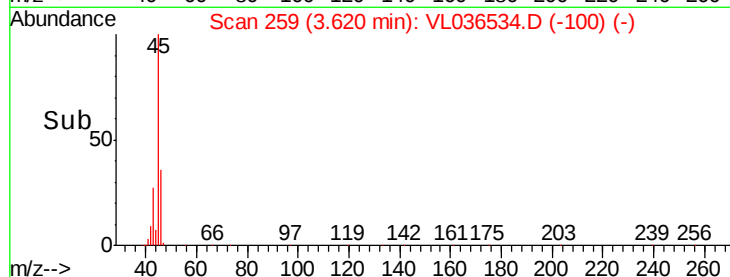
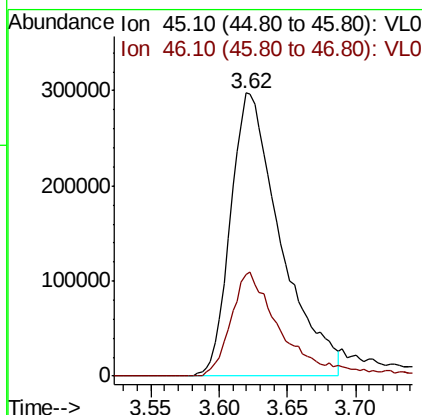
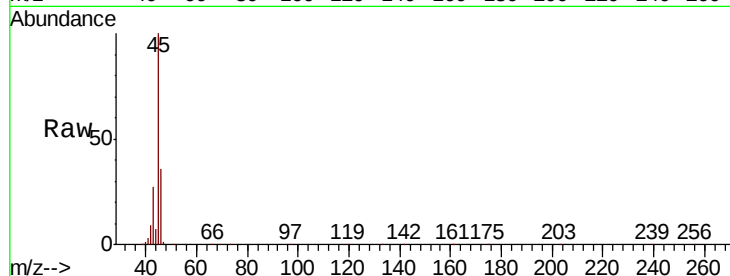
#13
Ethanol
Concen: 79.229 ppbv
RT: 3.62 min Scan# 259
Delta R.T. 0.01 min
Lab File: VL036534.D
Acq: 27 Mar 2021 4:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
45	100		
46	38.3	16.6	66.2

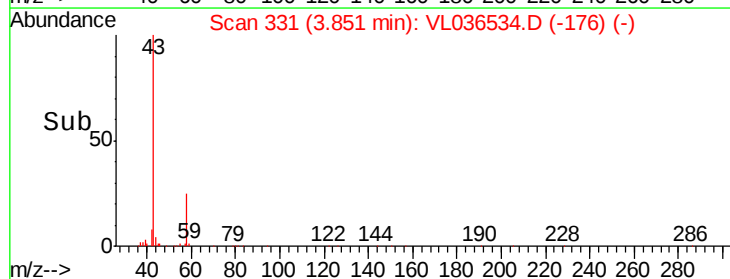
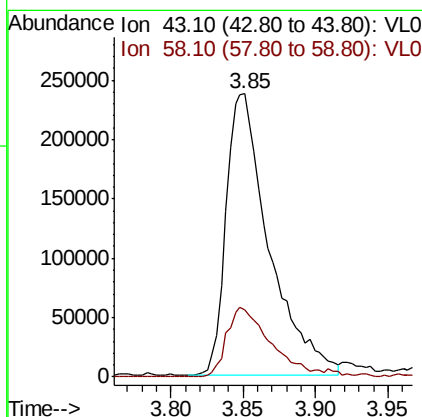
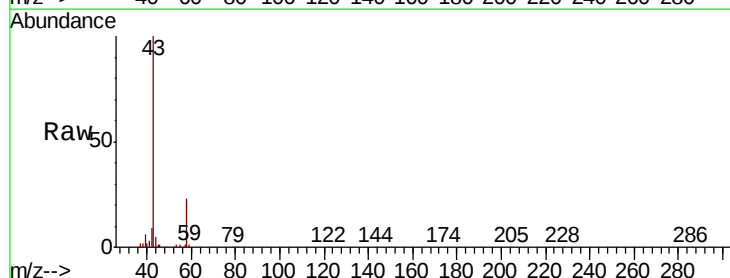
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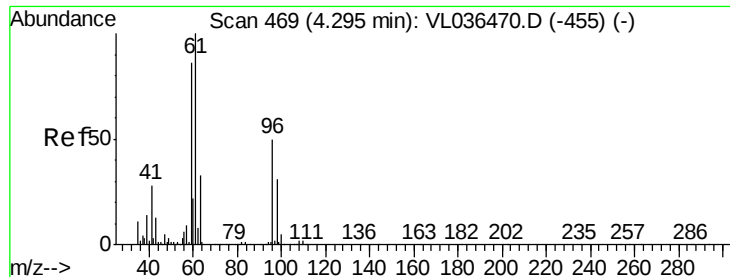
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#15
Acetone
Concen: 3.675 ppbv
RT: 3.85 min Scan# 331
Delta R.T. -0.00 min
Lab File: VL036534.D
Acq: 27 Mar 2021 4:34

Tgt Ion	Ratio	Lower	Upper
43	100		
58	26.5	21.2	31.8





#17

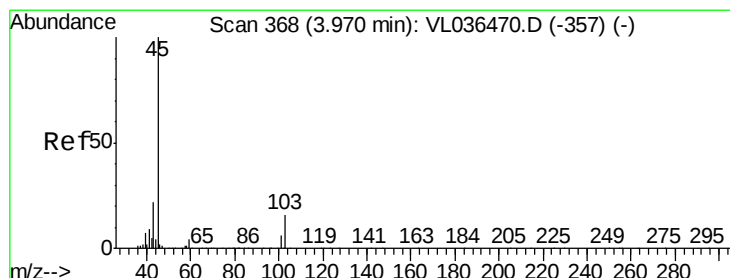
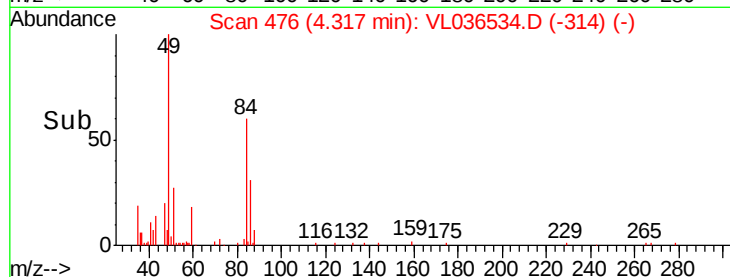
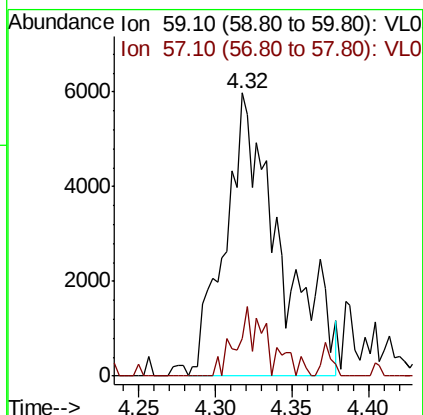
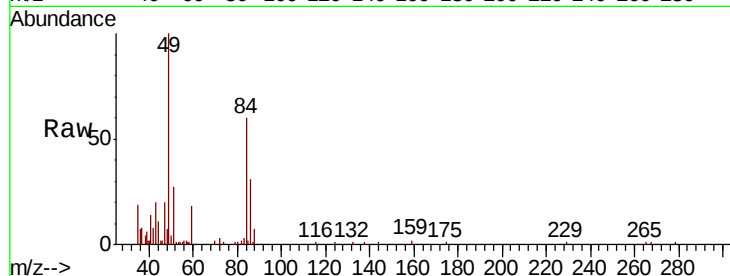
tert-Butyl alcohol
Concen: 0.128 ppbv m
RT: 4.32 min Scan# 476
Delta R.T. 0.02 min
Lab File: VL036534.D
Acq: 27 Mar 2021 4:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 59 Resp: 14779
Ion Ratio Lower Upper
59 100
57 0.0 8.6 12.8#

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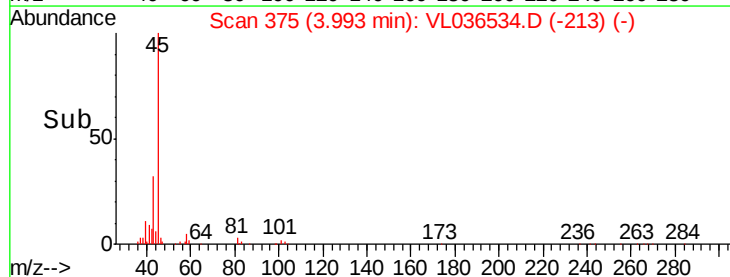
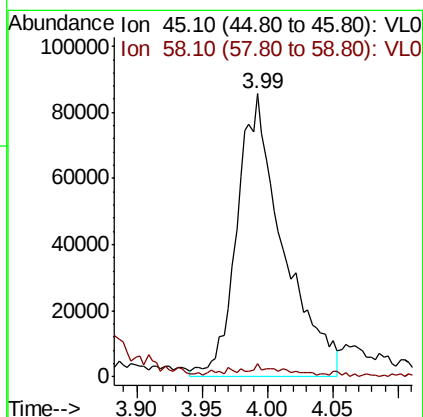
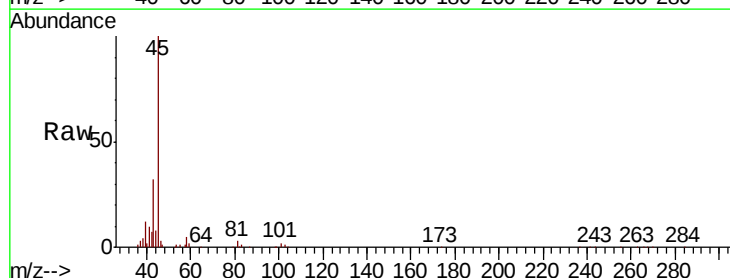
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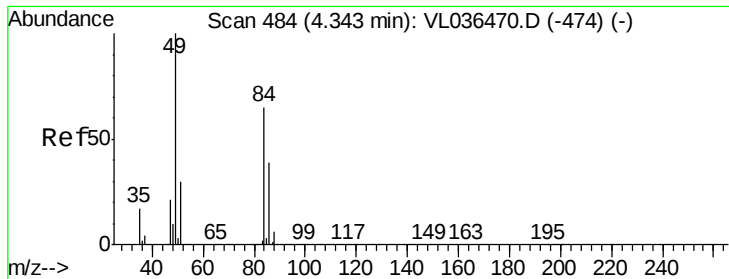


#19

Isopropyl Alcohol
Concen: 2.883 ppbv m
RT: 3.99 min Scan# 375
Delta R.T. 0.02 min
Lab File: VL036534.D
Acq: 27 Mar 2021 4:34

Tgt Ion: 45 Resp: 210723
Ion Ratio Lower Upper
45 100
58 4.4 2.9 4.3#





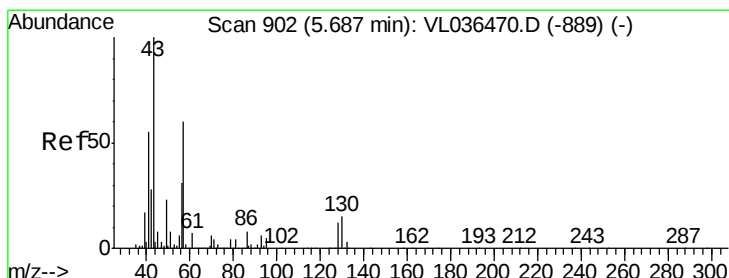
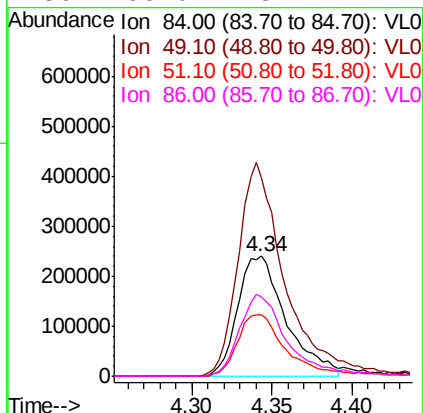
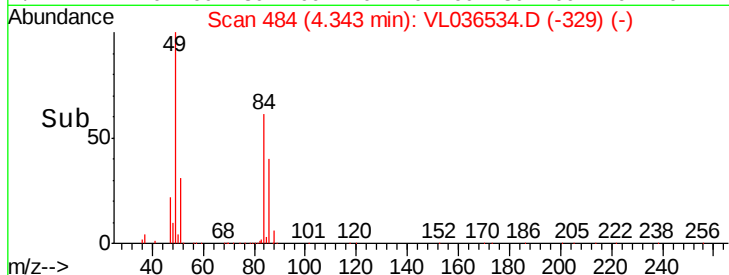
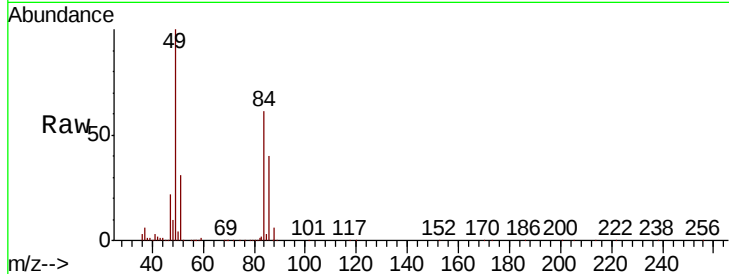
#20
Methvlene Chloride
Concen: 7.984 ppbv
RT: 4.34 min Scan# 484
Delta R.T. -0.00 min
Lab File: VL036534.D
Acq: 27 Mar 2021 4:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	84	Resp	496701
Ion Ratio	Lower	Upper	
84	100		
49	165.3	122.9	184.3
51	51.0	36.9	55.3
86	66.0	48.2	72.4

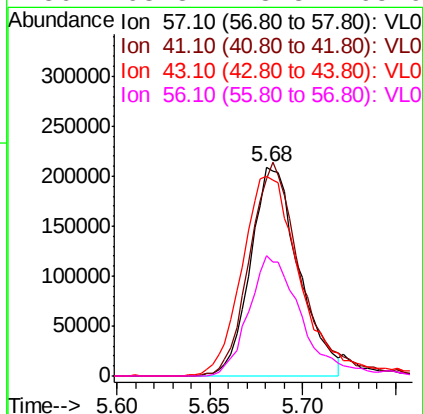
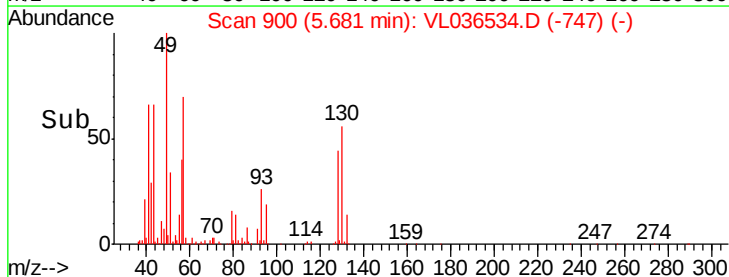
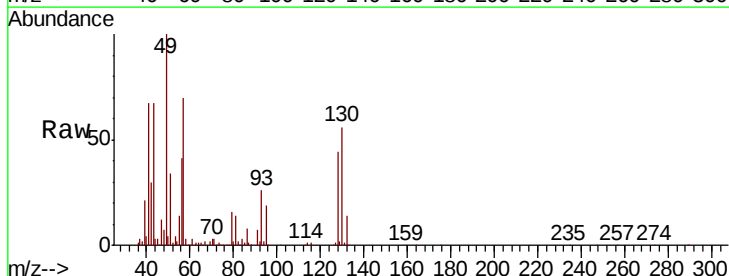
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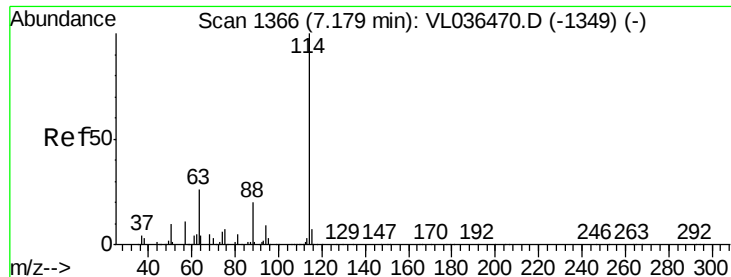
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#26
Hexane
Concen: 2.594 ppbv
RT: 5.68 min Scan# 900
Delta R.T. -0.01 min
Lab File: VL036534.D
Acq: 27 Mar 2021 4:34

Tgt Ion	57	Resp	380310
Ion Ratio	Lower	Upper	
57	100		
41	111.8	77.2	115.8
43	118.2	173.8	260.6#
56	63.8	43.8	65.6





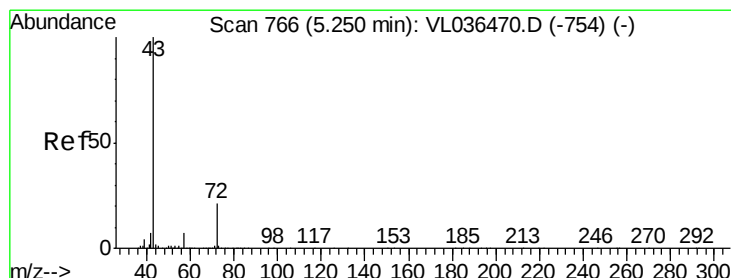
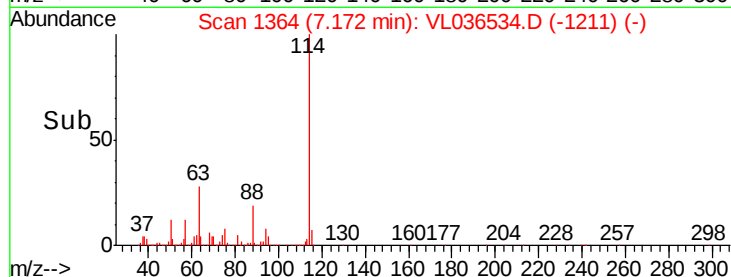
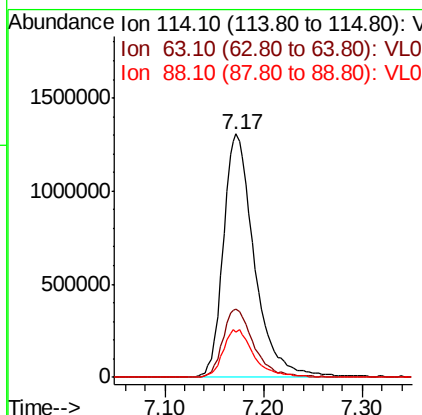
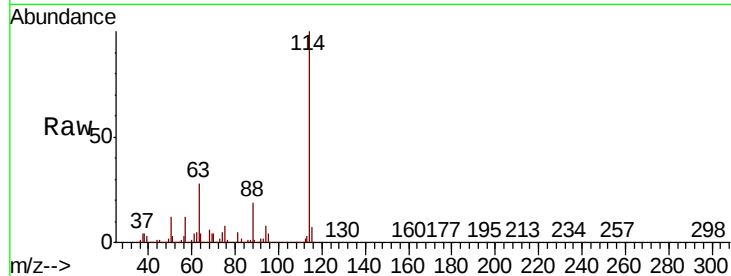
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.17 min Scan# 1364
 Delta R.T. -0.01 min
 Lab File: VL036534.D
 Acq: 27 Mar 2021 4:34

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
114	100		
63	28.2	22.4	33.6
88	19.5	15.4	23.0

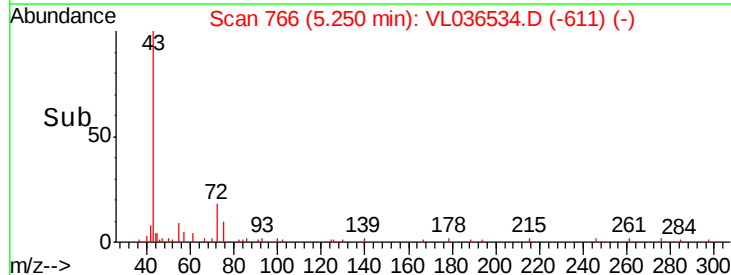
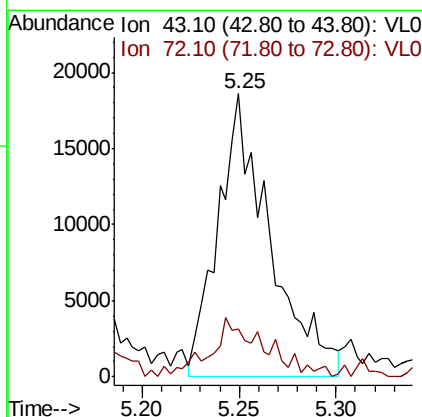
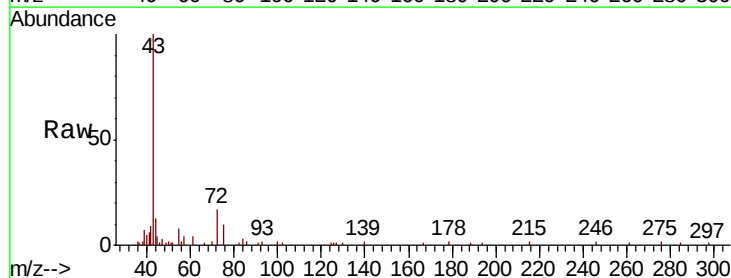
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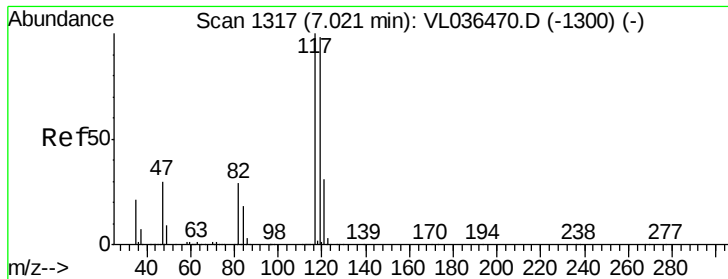
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#34
 2-Butanone
 Concen: 0.246 ppbv m
 RT: 5.25 min Scan# 766
 Delta R.T. -0.00 min
 Lab File: VL036534.D
 Acq: 27 Mar 2021 4:34

Tgt Ion	Ratio	Lower	Upper
43	100		
72	22.1	17.0	25.6





#35

Carbon Tetrachloride

Concen: 0.042 ppbv m

RT: 7.02 min Scan# 1317

Delta R.T. -0.00 min

Lab File: VL036534.D

Acq: 27 Mar 2021 4:34

Instrument :

MSVOA_L

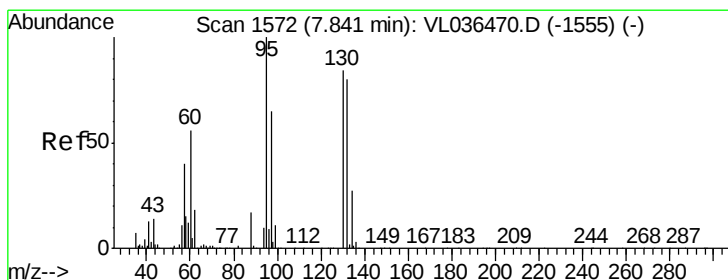
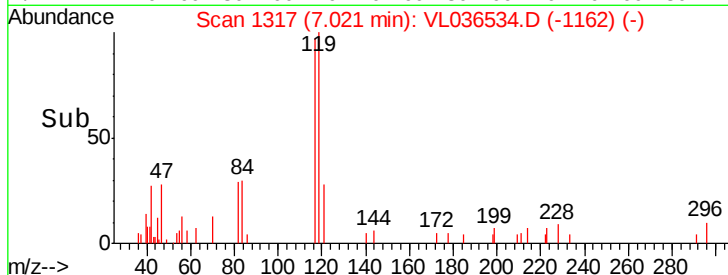
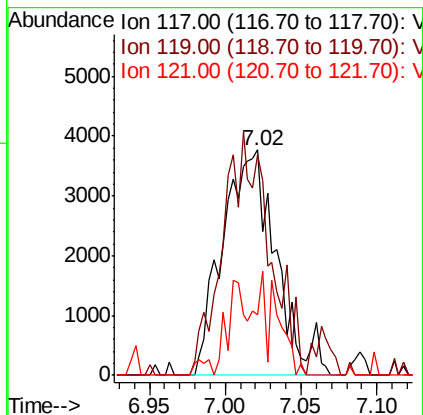
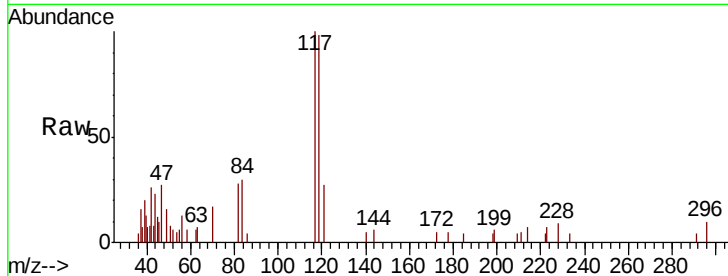
ClientSampleId :

VSTDCCC010EC

Tot Ion:	117	Resp:	9224
Ion Ratio	Lower	Upper	
117	100		
119	97.8	78.2	117.2
121	27.0	24.5	36.7

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#38

Trichloroethene

Concen: 0.574 ppbv m

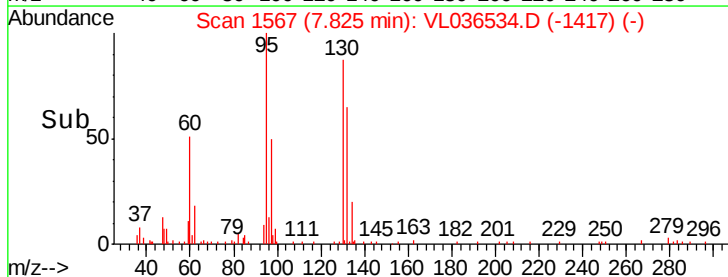
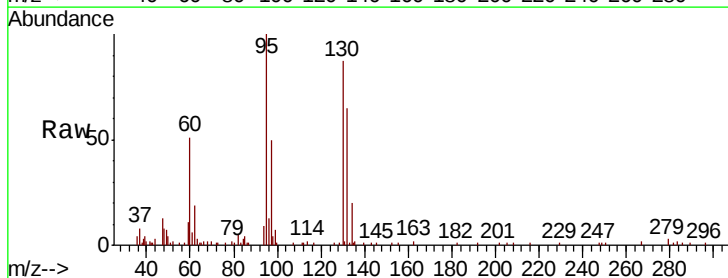
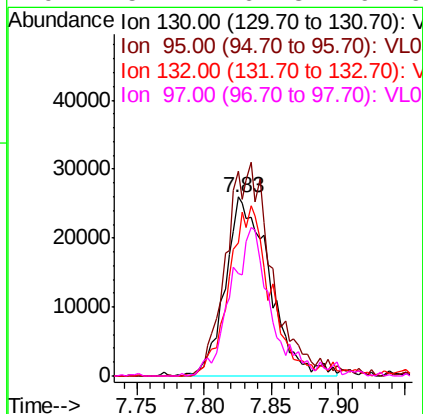
RT: 7.83 min Scan# 1567

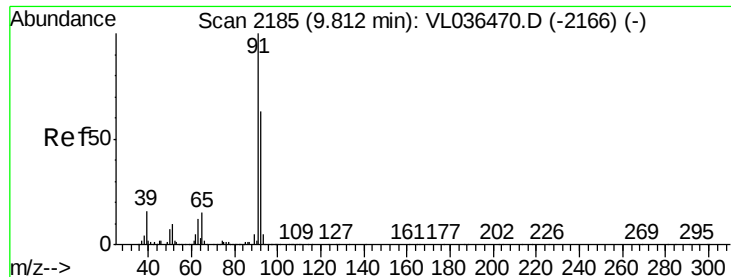
Delta R.T. -0.02 min

Lab File: VL036534.D

Acq: 27 Mar 2021 4:34

Tgt Ion:	130	Resp:	59392
Ion Ratio	Lower	Upper	
130	100		
95	114.9	95.7	143.5
132	74.7	76.2	114.4#
97	57.1	61.8	92.6#





#53

Toluene

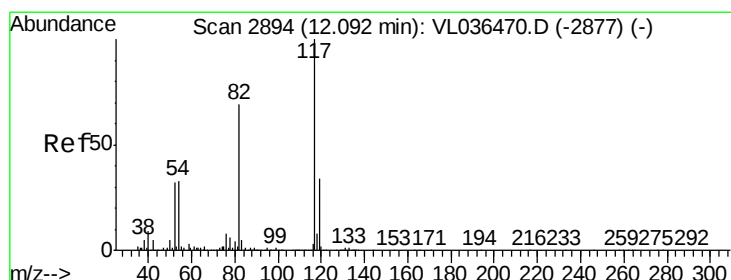
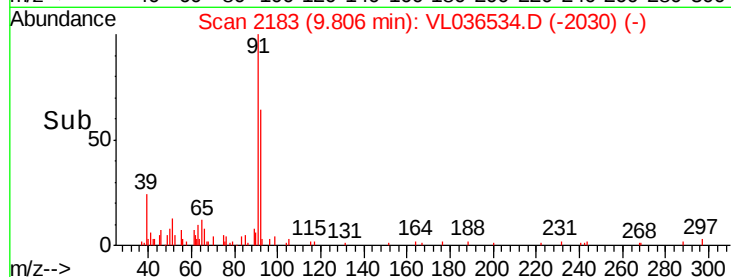
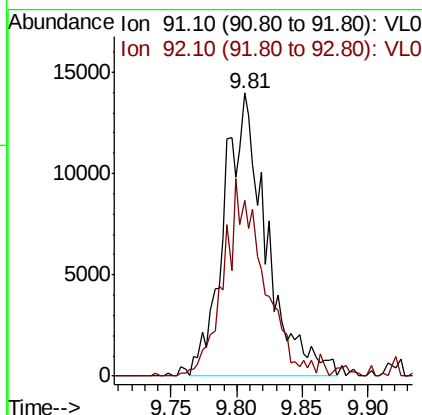
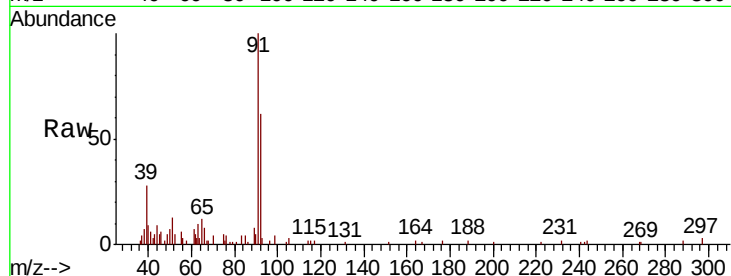
Concen: 0.111 ppbv m
RT: 9.81 min Scan# 2183
Delta R.T. -0.01 min
Lab File: VL036534.D
Acq: 27 Mar 2021 4:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ion	Ratio	Lower	Upper
91	100			
92	0.0	48.8	73.2#	

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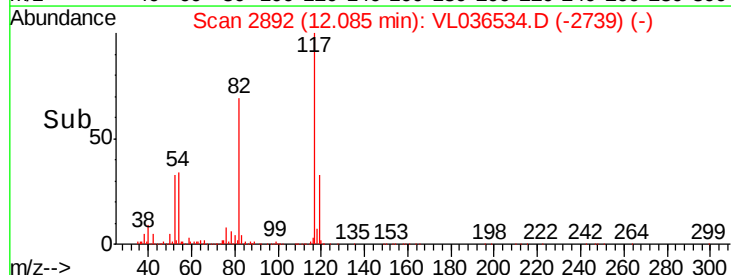
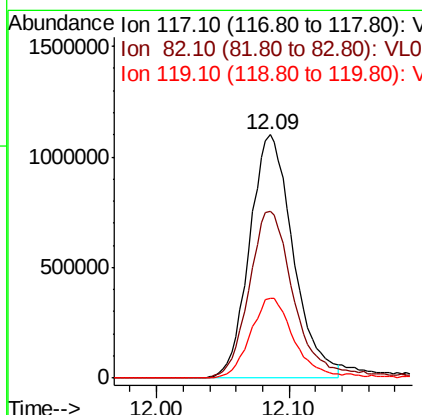
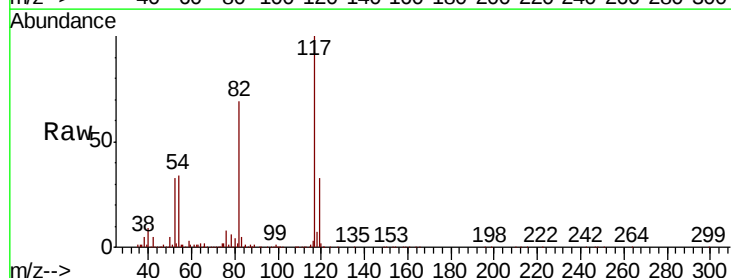


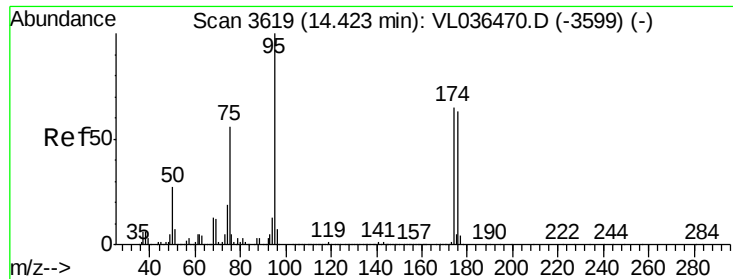
#55

Chlorobenzene-d5

Concen: 10.000 ppbv
RT: 12.09 min Scan# 2892
Delta R.T. -0.01 min
Lab File: VL036534.D
Acq: 27 Mar 2021 4:34

Tgt Ion	Ion	Ratio	Lower	Upper
117	100			
82	72.6	57.4	86.0	
119	34.2	47.4	71.0#	





#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.713 ppbv
 RT: 14.42 min Scan# 3617
 Delta R.T. -0.01 min
 Lab File: VL036534.D
 Acq: 27 Mar 2021 4:34

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
95	100		
174	64.6	51.0	76.6
175	4.7	3.9	5.9

Manual Integrations
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