

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL040721\
 Data File : VL036735.D
 Acq On : 7 Apr 2021 20:43
 Operator : SY/AP
 Sample : M1929-06
 Misc : 400mL/MSVOA L
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 Z18A-SS01

Manual Integrations
 APPROVED

MMDadoda
 4/12/2021 11:16:12 AM

Quant Time: Apr 10 22:55:35 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032521AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Apr 08 2021
 QLast Update : Thu Apr 08 01:58:43 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1290750	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	3206632	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	2716075	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.42	95	2144539	9.91	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.10%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	40484	0.192	ppbv	91
3) Chlorodifluoromethane	2.99	51	50364m	0.209	ppbv	
4) Chloromethane	3.14	50	19845m	0.233	ppbv	
7) Chloroethane	3.56	64	8059m	0.268	ppbv	
9) Propene	3.01	41	71994m	0.936	ppbv	
10) Heptane	8.12	43	25638m	0.131	ppbv	
11) Trichlorofluoromethane	3.95	101	64489	0.301	ppbv	90
13) Ethanol	3.62	45	120680	13.182	ppbv	97
15) Acetone	3.84	43	1397417	11.000	ppbv	98
17) tert-Butyl alcohol	4.31	59	18354	0.166	ppbv #	88
19) Isopropyl Alcohol	3.98	45	91306m	1.307	ppbv	
20) Methylene Chloride	4.34	84	512408	8.615	ppbv	92
24) 1,1-Dichloroethane	5.01	63	27270	0.172	ppbv #	83
26) Hexane	5.69	57	449121	3.204	ppbv #	47
27) Carbon Disulfide	4.55	76	58857	0.426	ppbv #	96
29) Chloroform	5.75	83	30907	0.138	ppbv	90
32) 1,1,1-Trichloroethane	6.51	97	26977m	0.119	ppbv	
34) 2-Butanone	5.25	43	208231m	1.330	ppbv	
35) Carbon Tetrachloride	7.03	117	7420m	0.030	ppbv	
36) Benzene	6.89	78	119865	0.405	ppbv #	81
37) 1,2-Dichloroethane	6.31	62	51914	0.298	ppbv	99
50) 4-Methyl-2-Pentanone	8.75	43	22844m	0.101	ppbv	
52) Tetrachloroethene	11.22	164	562941	5.169	ppbv	97
53) Toluene	9.81	91	574898	1.825	ppbv	100
59) m/p-Xylene	12.97	91	53730m	0.156	ppbv	

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

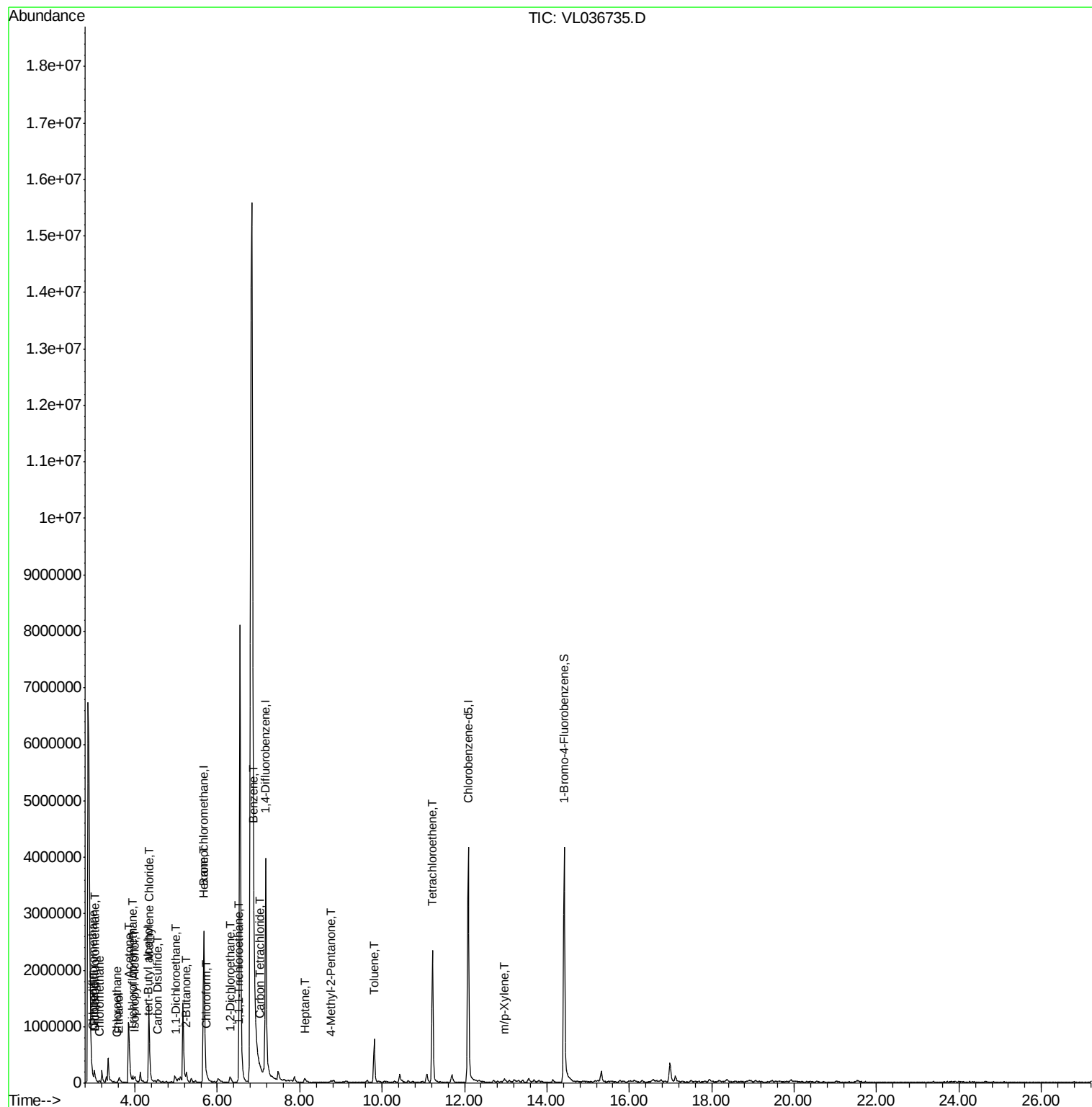
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL040721\
Data File : VL036735.D
Acq On : 7 Apr 2021 20:43
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ALS Vial : 8 Sample Multiplier: 1

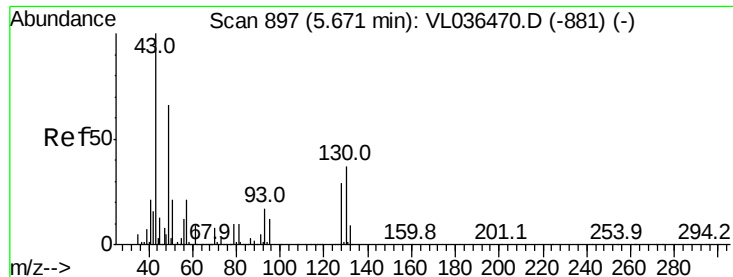
Instrument :
MSVOA_L
ClientSampleId :
Z18A-SS01

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Quant Time: Apr 10 22:55:35 2021
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL032521AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Apr
QLast Update : Thu Apr 08 01:58:43 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: VL036735.D

Acq: 7 Apr 2021 20:43

Instrument :

MSVOA_L

ClientSampleId :

Z18A-SS01

Tot Ion: 49 Resp: 1290750

Ion Ratio Lower Upper

49 100

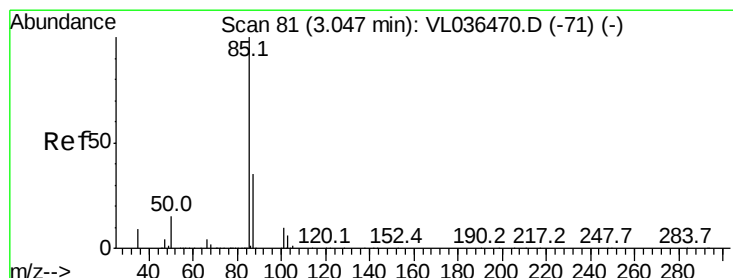
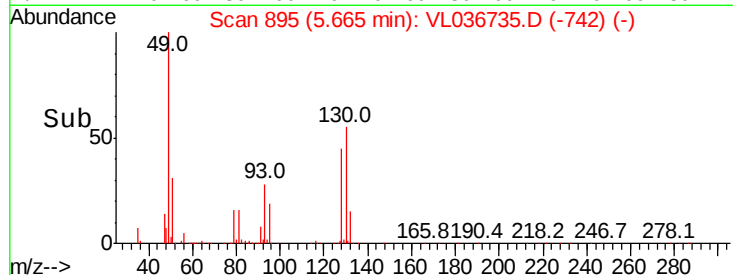
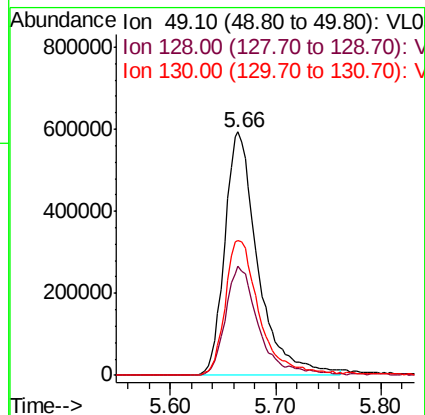
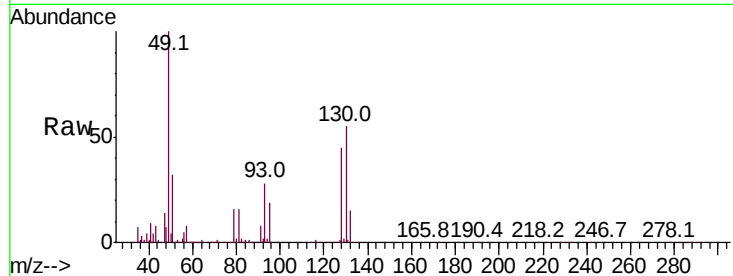
128 46.1 23.5 70.6

130 58.8 29.1 87.4

Manual Integrations
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#2

Dichlorodifluoromethane

Concen: 0.192 ppbv

RT: 3.04 min Scan# 80

Delta R.T. -0.00 min

Lab File: VL036735.D

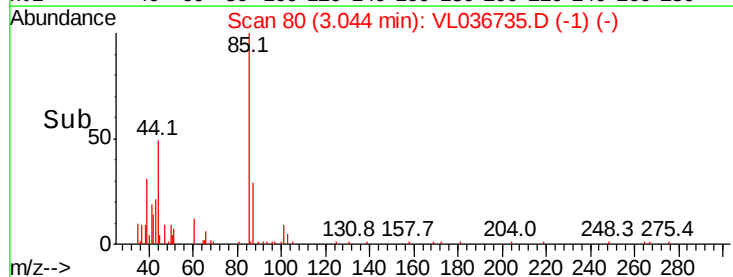
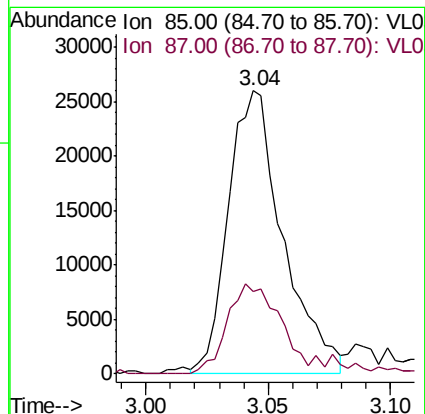
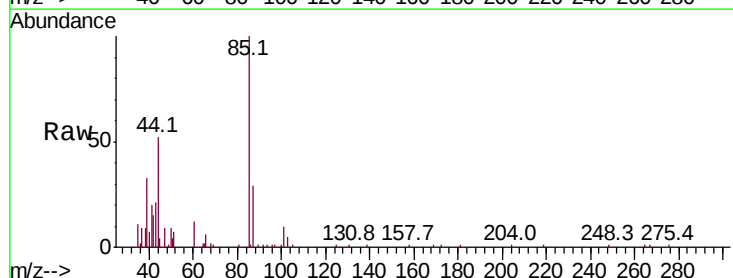
Acq: 7 Apr 2021 20:43

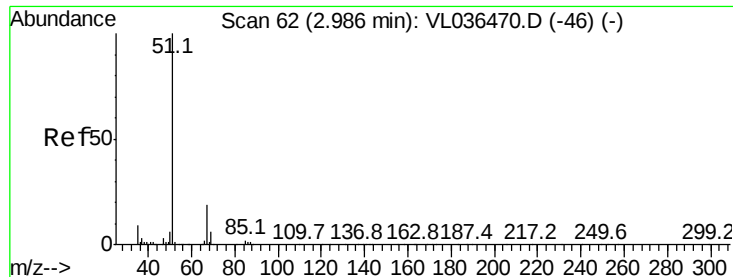
Tgt Ion: 85 Resp: 40484

Ion Ratio Lower Upper

85 100

87 29.8 27.8 41.8





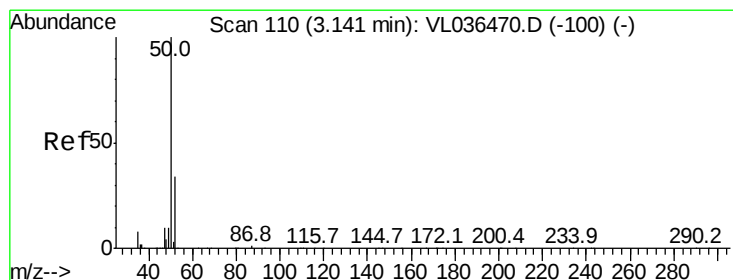
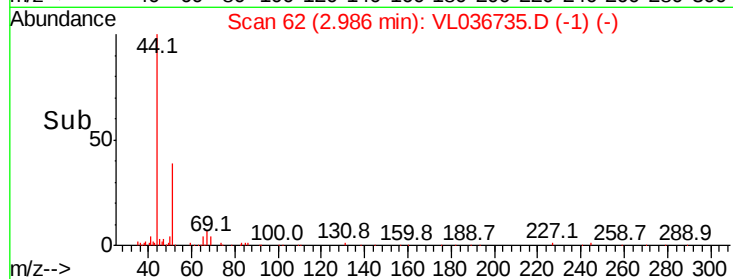
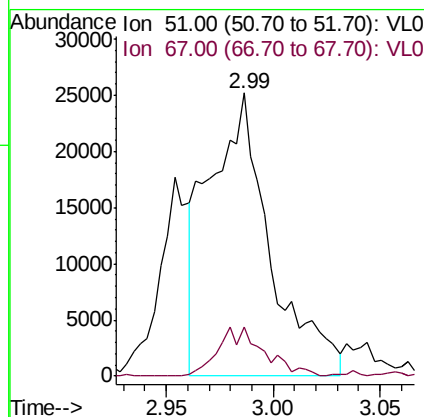
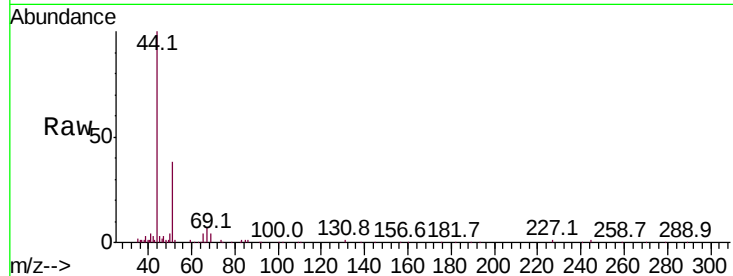
#3
Chlorodifluoromethane
Concen: 0.209 ppbv m
RT: 2.99 min Scan# 62
Delta R.T. -0.00 min
Lab File: VL036735.D
Acq: 7 Apr 2021 20:43

Instrument :
MSVOA_L
ClientSampleId :
Z18A-SS01

Tot Ion	Ratio	Lower	Upper
51	100		
67	13.3	14.7	22.1#

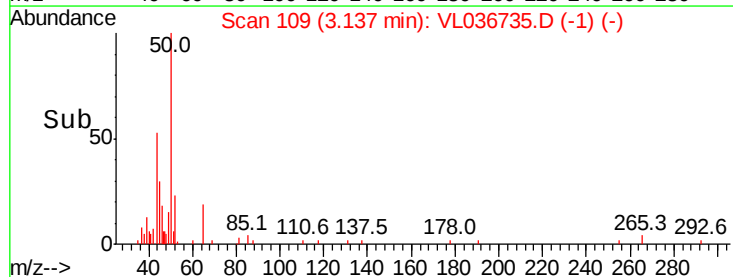
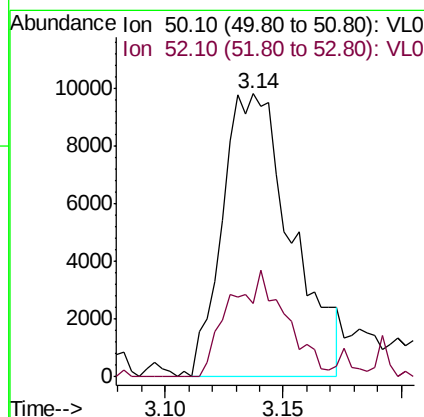
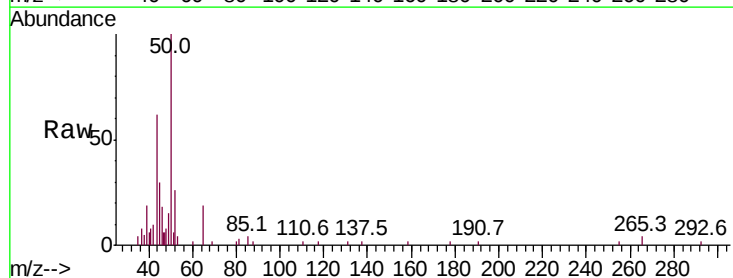
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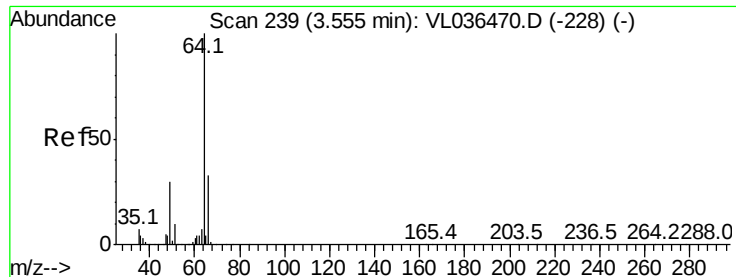
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#4
Chloromethane
Concen: 0.233 ppbv m
RT: 3.14 min Scan# 109
Delta R.T. -0.00 min
Lab File: VL036735.D
Acq: 7 Apr 2021 20:43

Tgt Ion	Ratio	Lower	Upper
50	100		
52	25.7	27.0	40.6#





#7

Chloroethane

Concen: 0.268 ppbv m

RT: 3.56 min Scan# 239

Delta R.T. -0.00 min

Lab File: VL036735.D

Acq: 7 Apr 2021 20:43

Instrument :

MSVOA_L

ClientSampleId :

Z18A-SS01

Tot Ion: 64 Resp: 8059

Ion Ratio Lower Upper

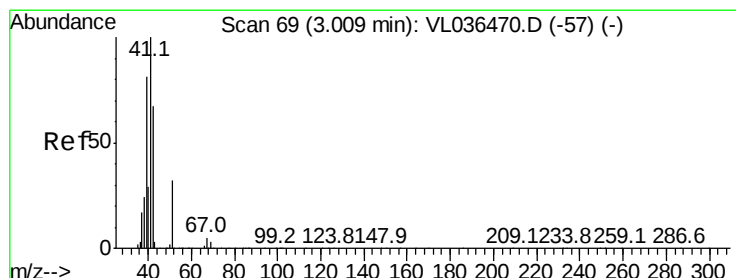
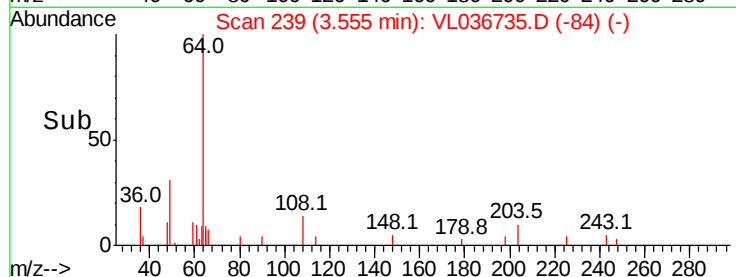
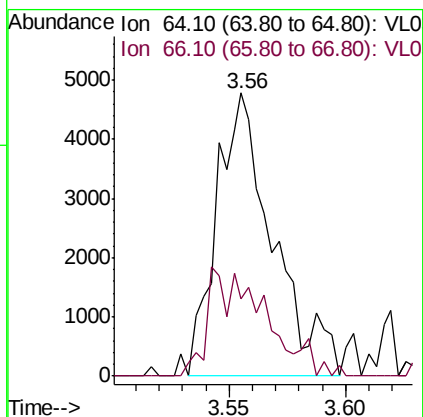
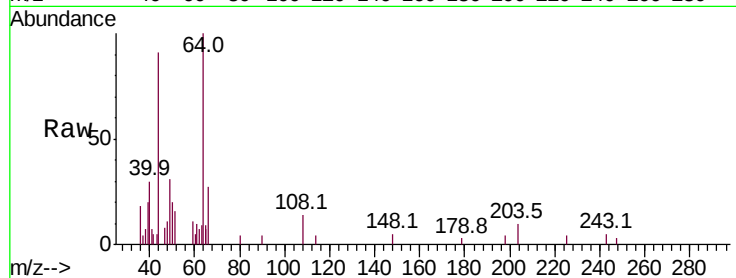
64 100

66 27.2 26.2 39.2

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#9

Propene

Concen: 0.936 ppbv m

RT: 3.01 min Scan# 70

Delta R.T. 0.00 min

Lab File: VL036735.D

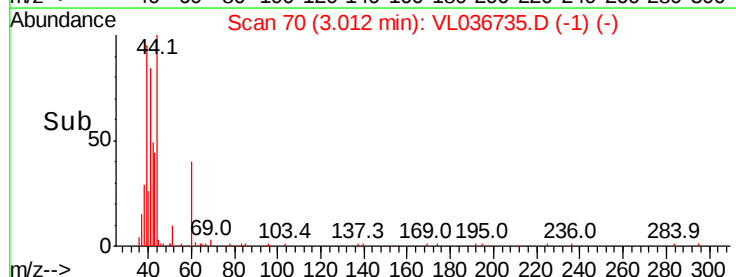
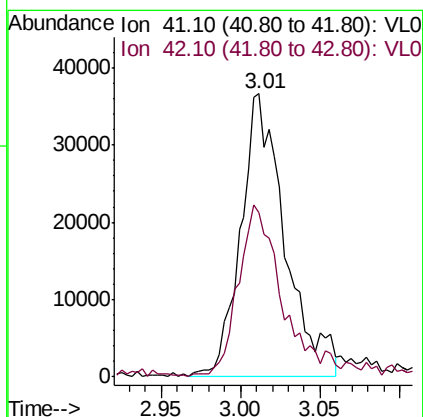
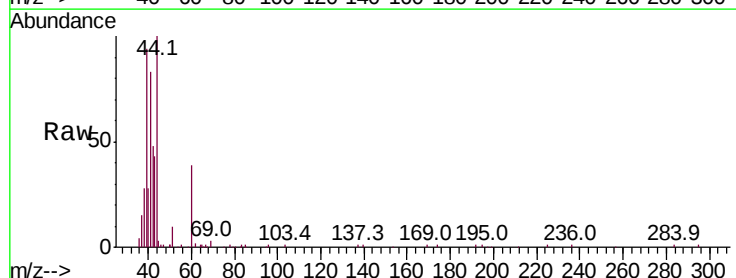
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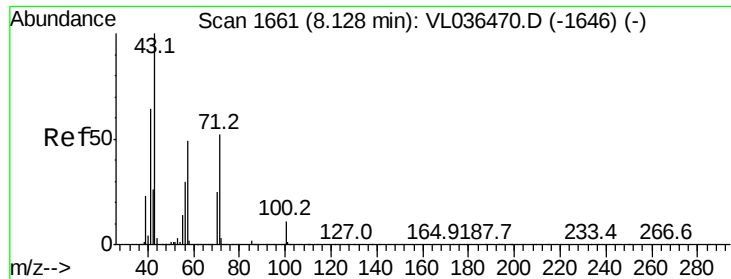
Tgt Ion: 41 Resp: 71994

Ion Ratio Lower Upper

41 100

42 3.9 57.0 85.4#





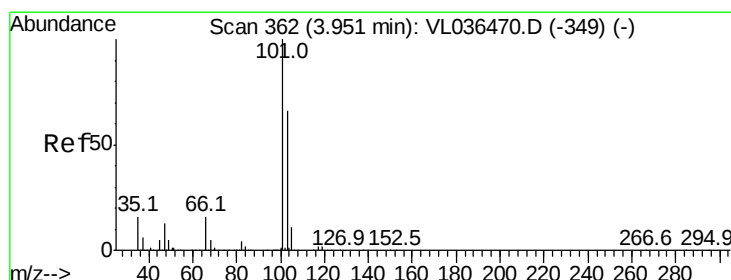
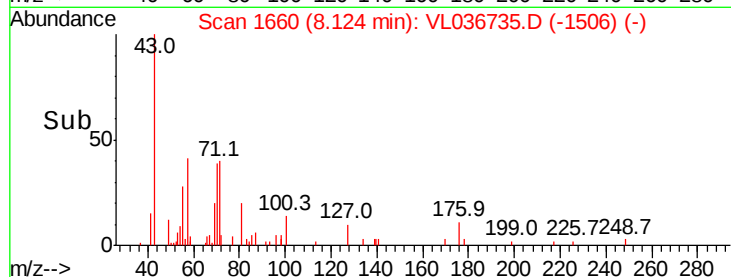
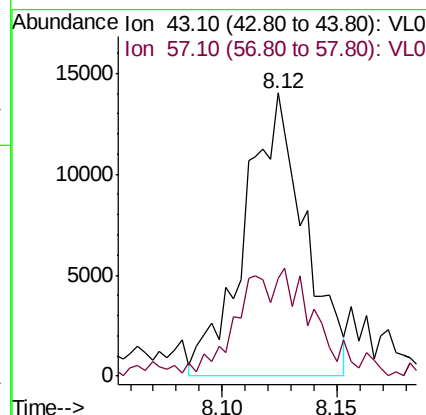
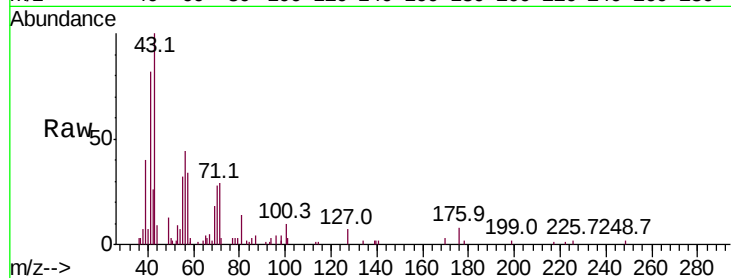
#10
 Heptane
 Concen: 0.131 ppbv m
 RT: 8.12 min Scan# 1660
 Delta R.T. -0.00 min
 Lab File: VL036735.D
 Acq: 7 Apr 2021 20:43

Instrument :
 MSVOA_L
 ClientSampleId :
 Z18A-SS01

Tot Ion: 43 Resp: 25638
 Ion Ratio Lower Upper
 43 100
 57 0.0 39.0 58.6#

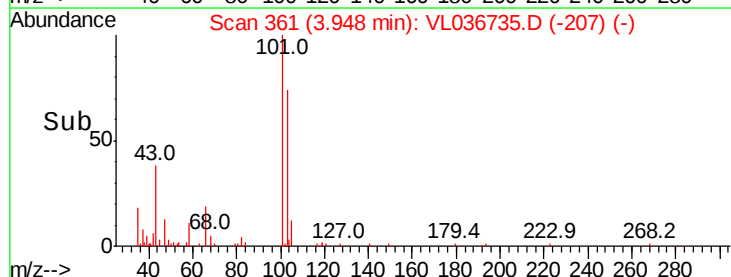
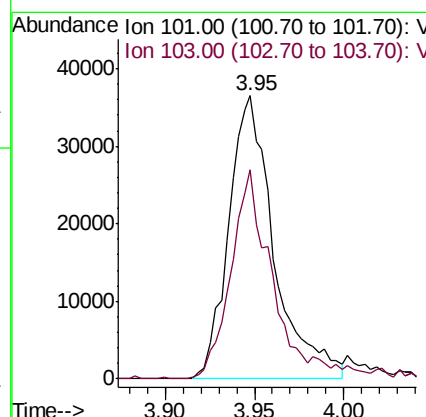
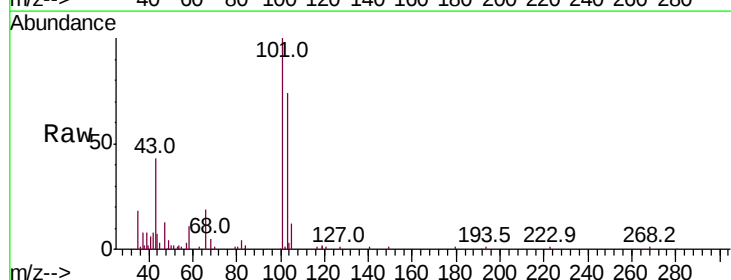
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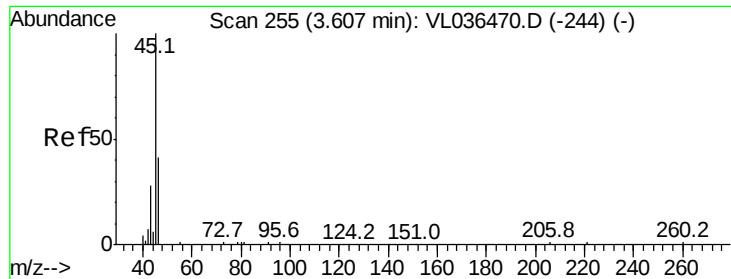
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#11
 Trichlorofluoromethane
 Concen: 0.301 ppbv
 RT: 3.95 min Scan# 361
 Delta R.T. -0.00 min
 Lab File: VL036735.D
 Acq: 7 Apr 2021 20:43

Tgt Ion:101 Resp: 64489
 Ion Ratio Lower Upper
 101 100
 103 73.4 52.5 78.7





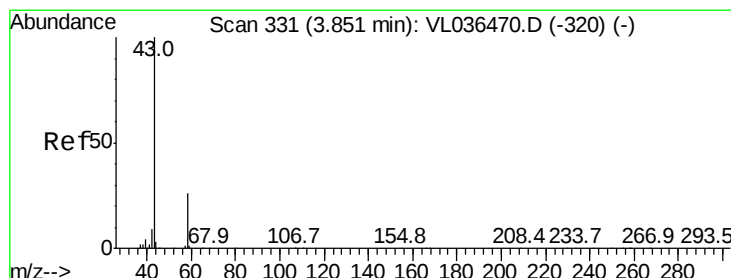
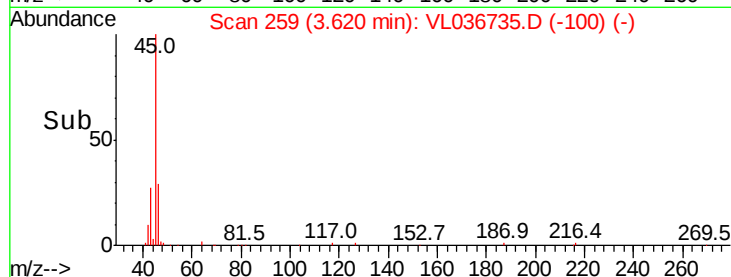
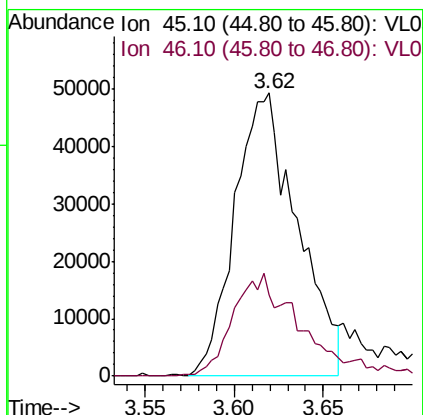
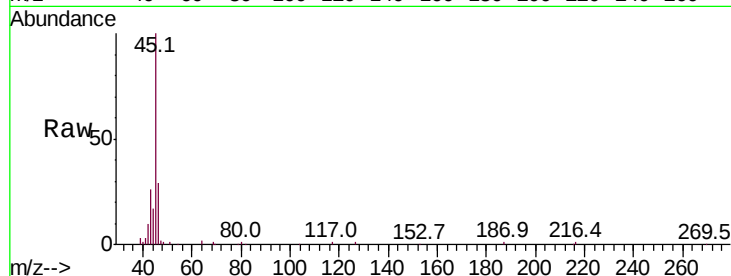
#13
Ethanol
Concen: 13.182 ppbv
RT: 3.62 min Scan# 259
Delta R.T. 0.01 min
Lab File: VL036735.D
Acq: 7 Apr 2021 20:43

Instrument :
MSVOA_L
ClientSampleId :
Z18A-SS01

Tot Ion	Ratio	Lower	Upper
45	100		
46	39.5	16.6	66.2

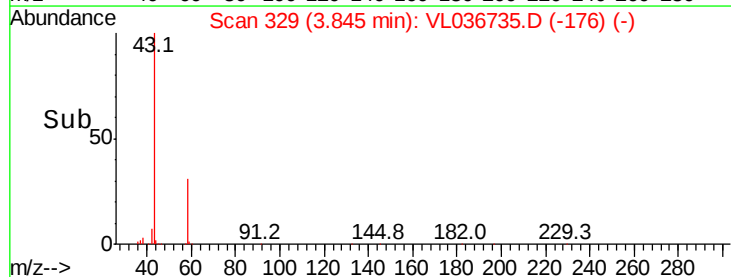
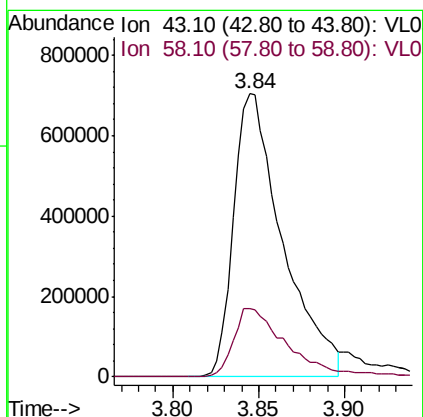
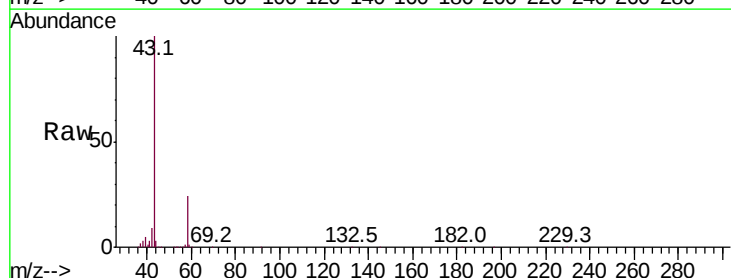
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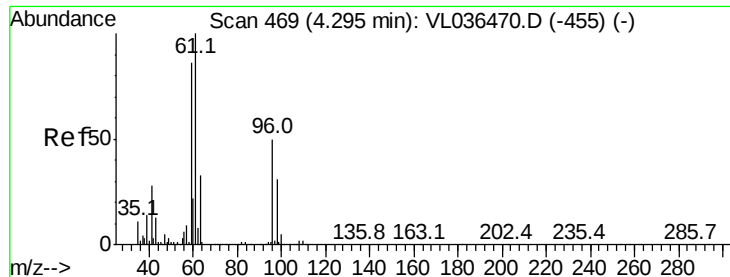
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#15
Acetone
Concen: 11.000 ppbv
RT: 3.84 min Scan# 329
Delta R.T. -0.01 min
Lab File: VL036735.D
Acq: 7 Apr 2021 20:43

Tgt Ion	Ratio	Lower	Upper
43	100		
58	27.3	21.2	31.8





#17

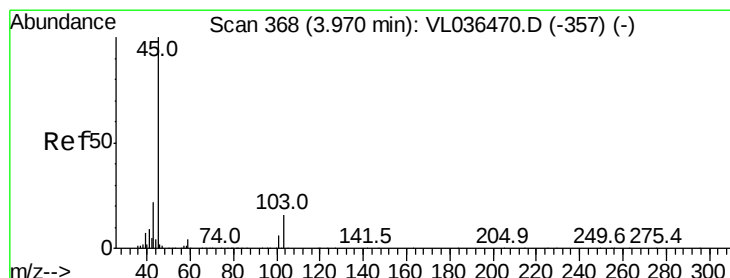
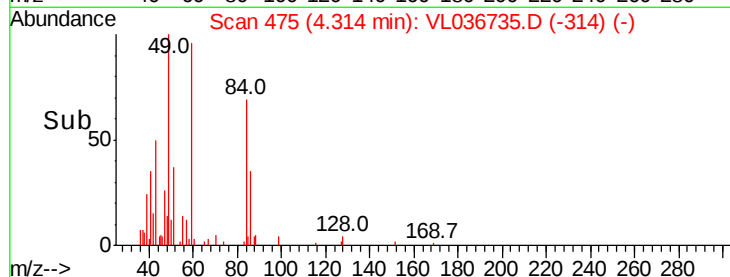
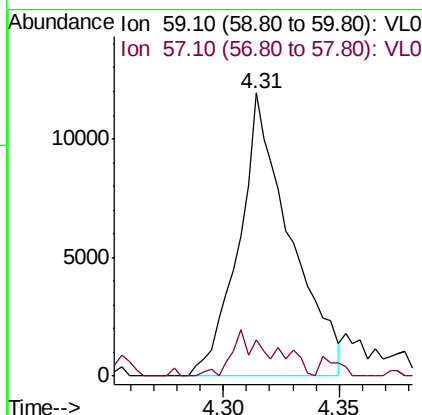
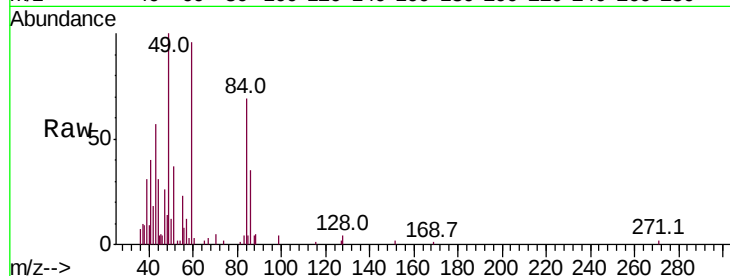
tert-Butyl alcohol
Concen: 0.166 ppbv
RT: 4.31 min Scan# 475
Delta R.T. 0.02 min
Lab File: VL036735.D
Acq: 7 Apr 2021 20:43

Instrument :
MSVOA_L
ClientSampled :
Z18A-SS01

Tot Ion: 59 Resp: 18354
Ion Ratio Lower Upper
59 100
57 15.3 8.6 12.8#

Manual Integrations
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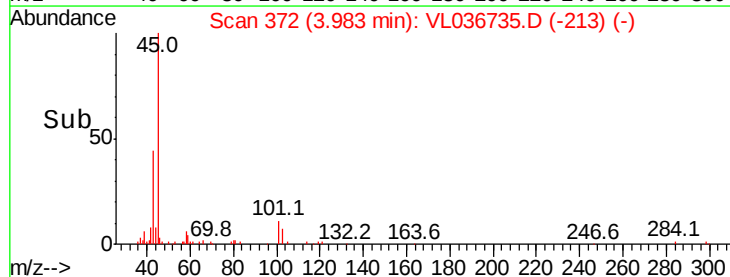
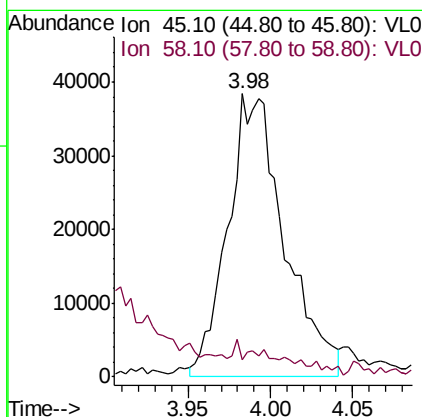
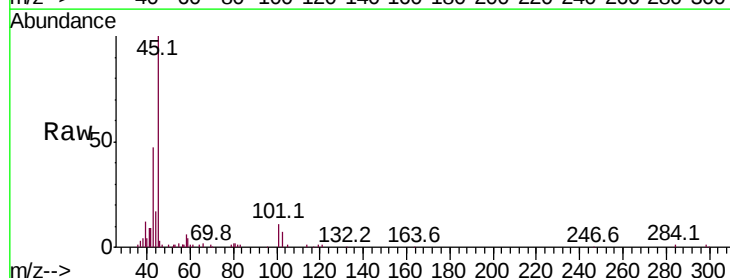
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4/12/2021 11:16:12 AM

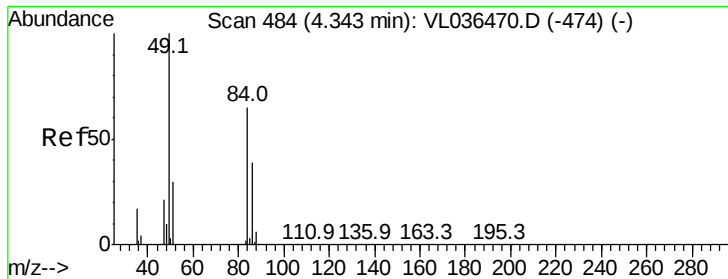


#19

Isopropyl Alcohol
Concen: 1.307 ppbv m
RT: 3.98 min Scan# 372
Delta R.T. 0.01 min
Lab File: VL036735.D
Acq: 7 Apr 2021 20:43

Tgt Ion: 45 Resp: 91306
Ion Ratio Lower Upper
45 100
58 0.0 2.9 4.3#





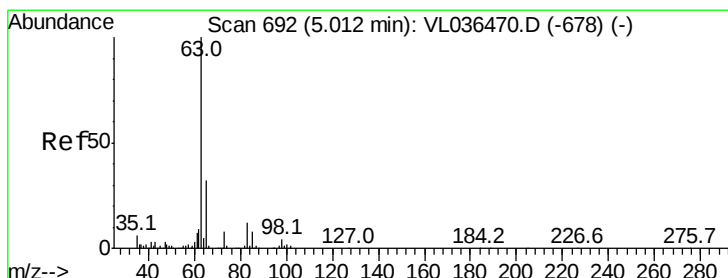
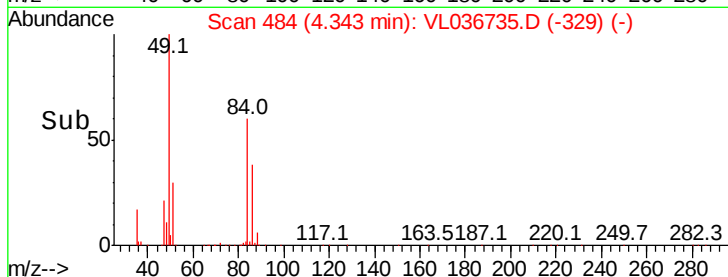
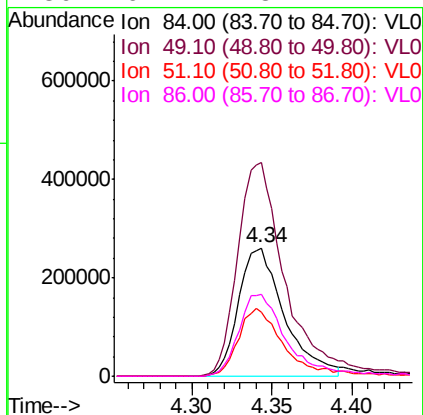
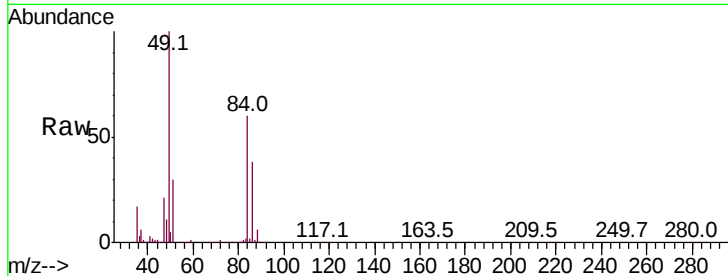
#20
Methvlene Chloride
Concen: 8.615 ppbv
RT: 4.34 min Scan# 484
Delta R.T. -0.00 min
Lab File: VL036735.D
Acq: 7 Apr 2021 20:43

Instrument :
MSVOA_L
ClientSampleId :
Z18A-SS01

Tot Ion	84	Resp	512408
Ion Ratio	Lower	Upper	
84	100		
49	166.9	122.9	184.3
51	50.3	36.9	55.3
86	64.2	48.2	72.4

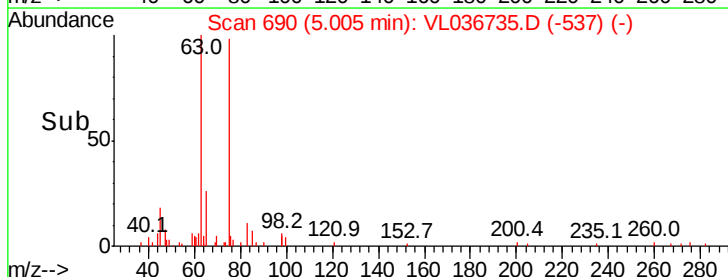
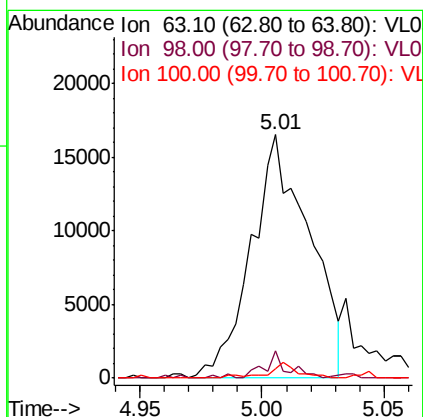
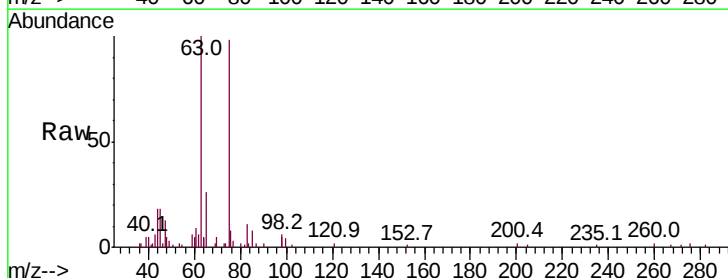
Manual Integrations
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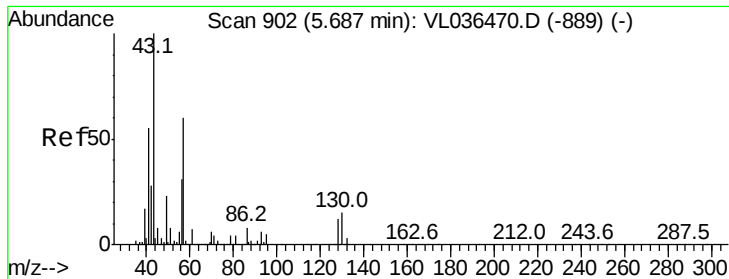
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#24
1,1-Dichloroethane
Concen: 0.172 ppbv
RT: 5.01 min Scan# 690
Delta R.T. -0.01 min
Lab File: VL036735.D
Acq: 7 Apr 2021 20:43

Tgt Ion	63	Resp	27270
Ion Ratio	Lower	Upper	
63	100		
98	11.1	2.1	6.2#
100	4.1	0.9	2.8#





#26

Hexane

Concen: 3.204 ppbv

RT: 5.69 min Scan# 902

Delta R.T. -0.00 min

Lab File: VL036735.D

Acq: 7 Apr 2021 20:43

Instrument :

MSVOA_L

ClientSampled :

Z18A-SS01

Tot Ion: 57 Resp: 449121

Ion Ratio Lower Upper

57 100

41 103.2 77.2 115.8

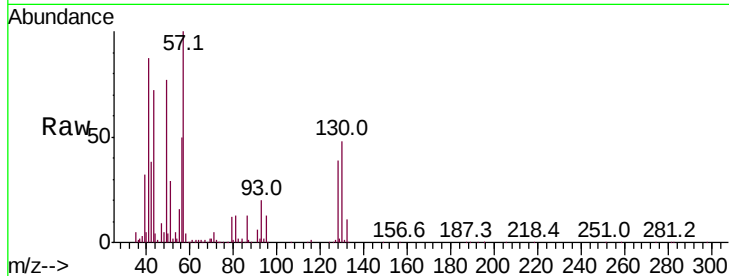
43 81.7 173.8 260.6#

56 60.4 43.8 65.6

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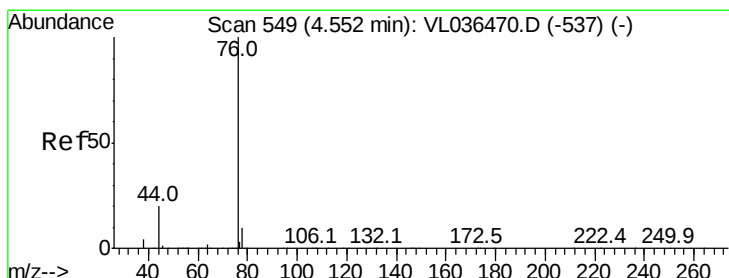
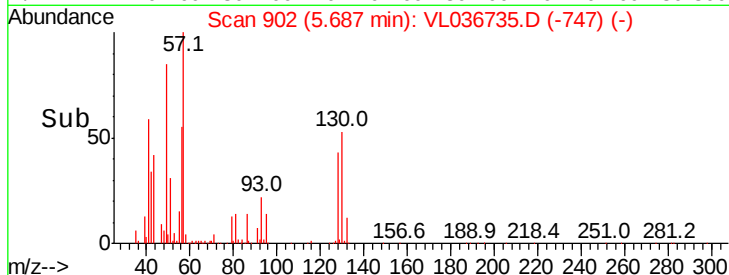
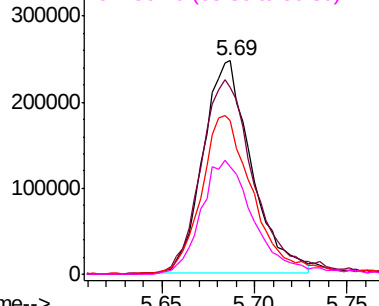


Abundance Ion 57.10 (56.80 to 57.80): VL0

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



#27

Carbon Disulfide

Concen: 0.426 ppbv

RT: 4.55 min Scan# 548

Delta R.T. -0.00 min

Lab File: VL036735.D

Acq: 7 Apr 2021 20:43

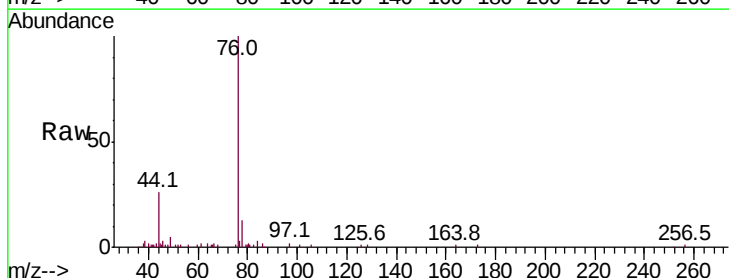
Tgt Ion: 76 Resp: 58857

Ion Ratio Lower Upper

76 100

44 20.7 17.5 26.3

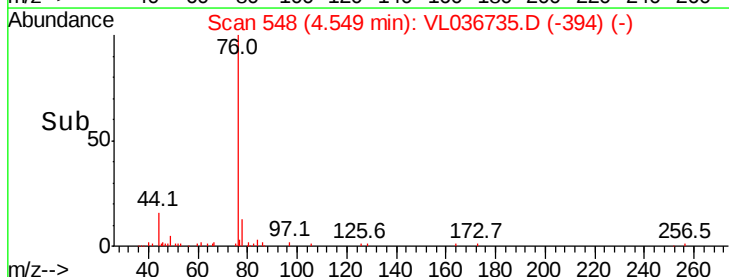
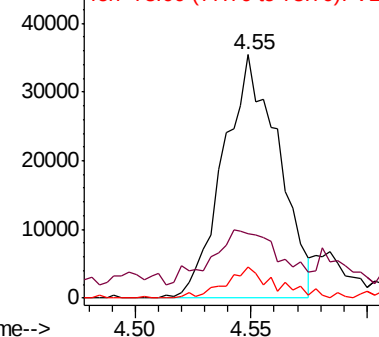
78 13.4 8.6 13.0#

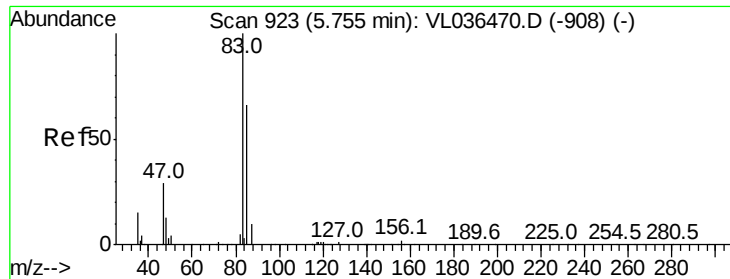


Abundance Ion 76.00 (75.70 to 76.70): VL0

Ion 44.10 (43.80 to 44.80): VL0

Ion 78.00 (77.70 to 78.70): VL0





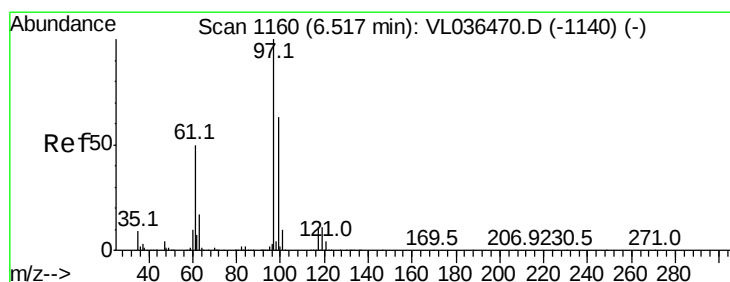
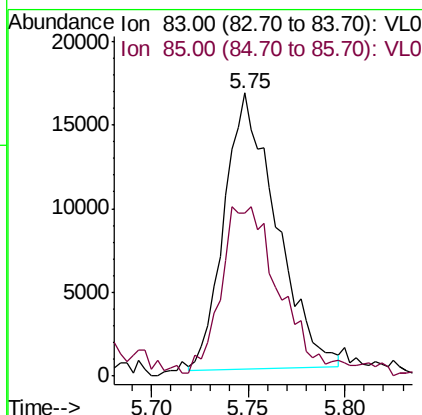
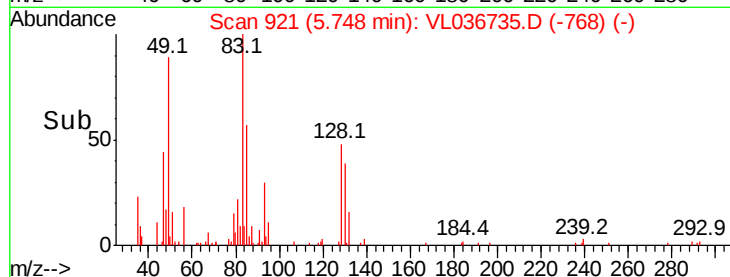
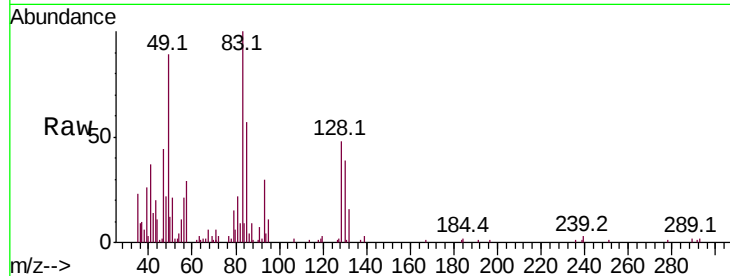
#29
Chloroform
Concen: 0.138 ppbv
RT: 5.75 min Scan# 921
Delta R.T. -0.01 min
Lab File: VL036735.D
Acq: 7 Apr 2021 20:43

Instrument :
MSVOA_L
ClientSampleId :
Z18A-SS01

Tot Ion	83	Resp	30907
Ion Ratio	100	Lower	Upper
85	58.2	52.6	78.8

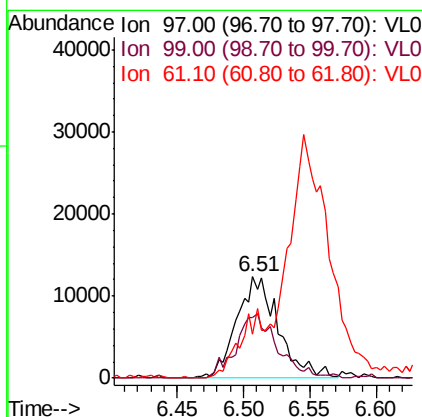
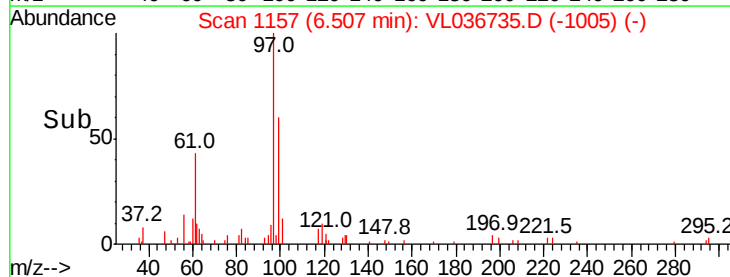
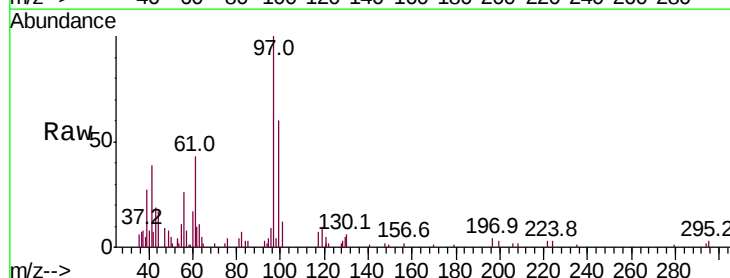
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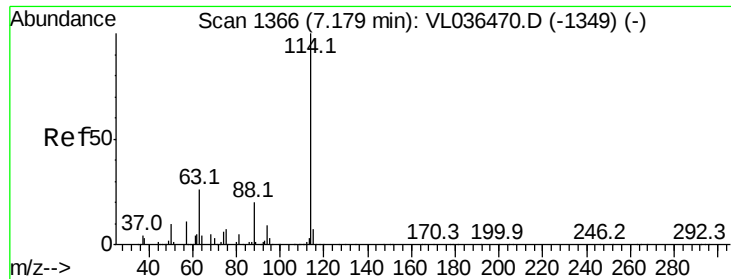
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#32
1,1,1-Trichloroethane
Concen: 0.119 ppbv m
RT: 6.51 min Scan# 1157
Delta R.T. -0.01 min
Lab File: VL036735.D
Acq: 7 Apr 2021 20:43

Tgt Ion	97	Resp	26977
Ion Ratio	100	Lower	Upper
99	63.0	51.4	77.0
61	0.0	40.6	60.8#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.17 min Scan# 1364

Delta R.T. -0.01 min

Lab File: VL036735.D

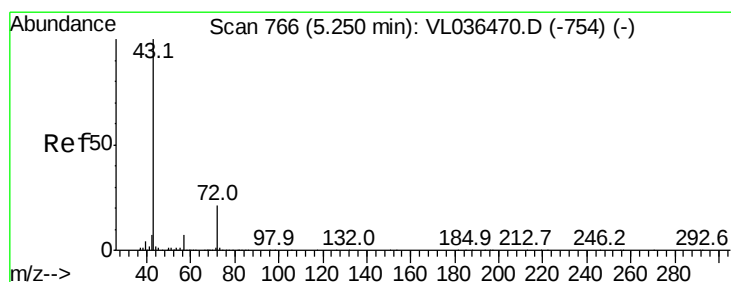
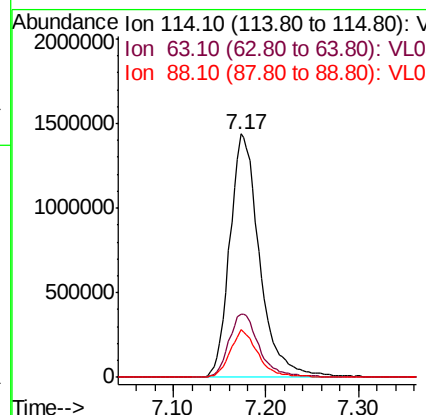
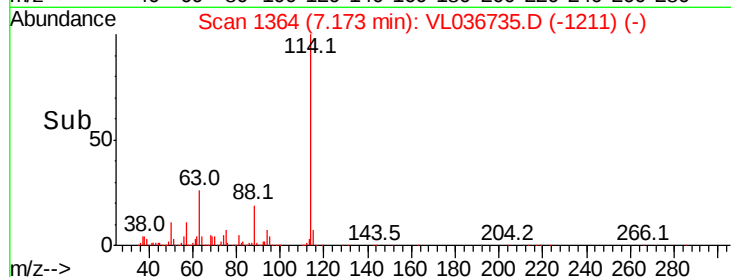
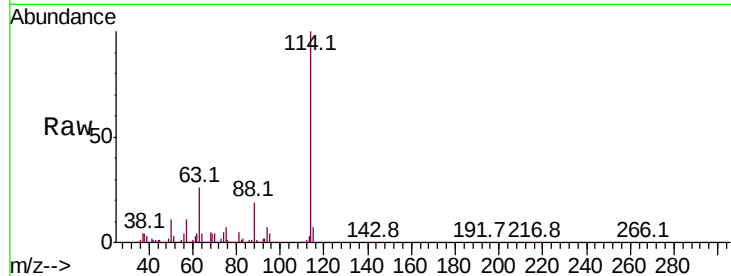
Acq: 7 Apr 2021 20:43

Instrument :
MSVOA_L
ClientSampleId :
Z18A-SS01

Tot Ion	Ratio	Lower	Upper
114	100		
63	26.7	22.4	33.6
88	18.5	15.4	23.0

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#34

2-Butanone

Concen: 1.330 ppbv m

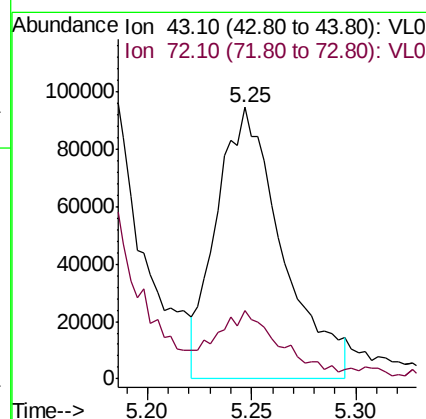
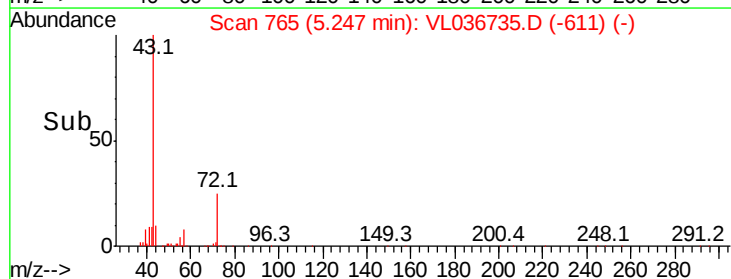
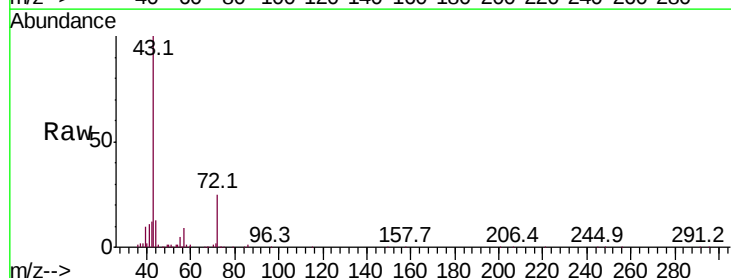
RT: 5.25 min Scan# 765

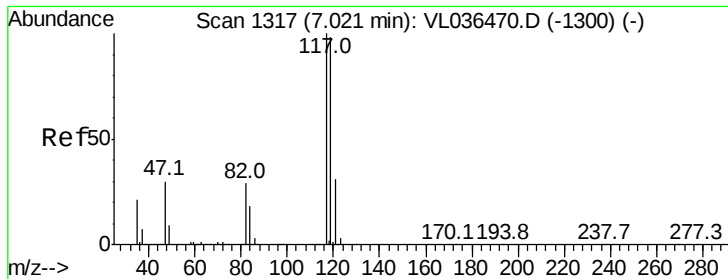
Delta R.T. -0.00 min

Lab File: VL036735.D

Acq: 7 Apr 2021 20:43

Tgt Ion	Ratio	Lower	Upper
43	100		
72	26.7	17.0	25.6#





#35

Carbon Tetrachloride

Concen: 0.030 ppbv m

RT: 7.03 min Scan# 1319

Delta R.T. 0.01 min

Lab File: VL036735.D

Acq: 7 Apr 2021 20:43

Instrument :

MSVOA_L

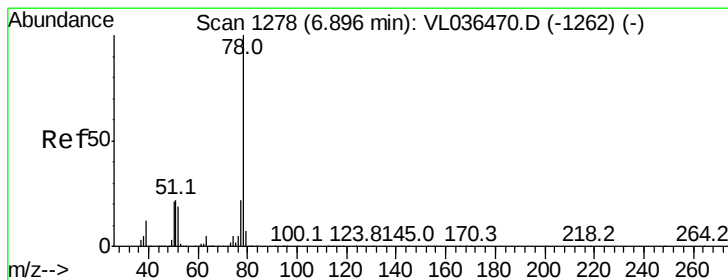
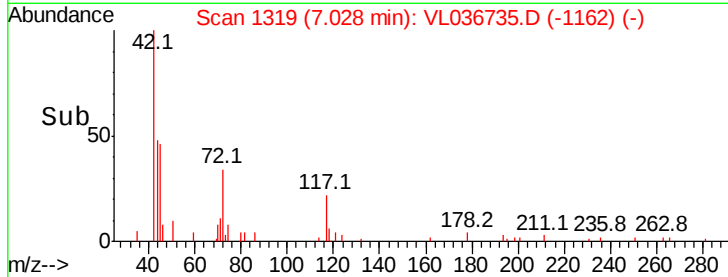
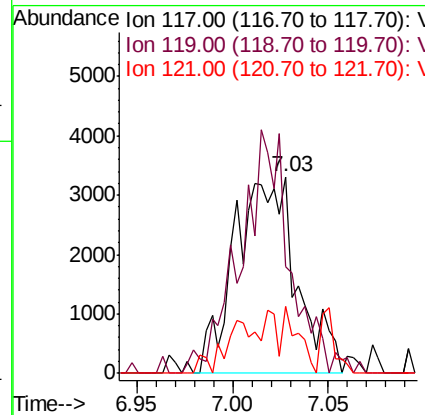
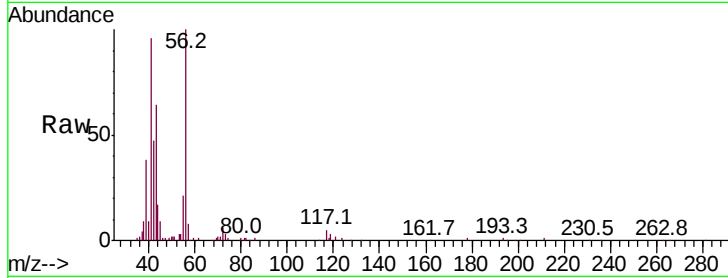
ClientSampled :

Z18A-SS01

Tot Ion:	117	Resp:	7420
Ion Ratio	Lower	Upper	
117	100		
119	54.0	78.2	117.2#
121	33.9	24.5	36.7

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#36

Benzene

Concen: 0.405 ppbv

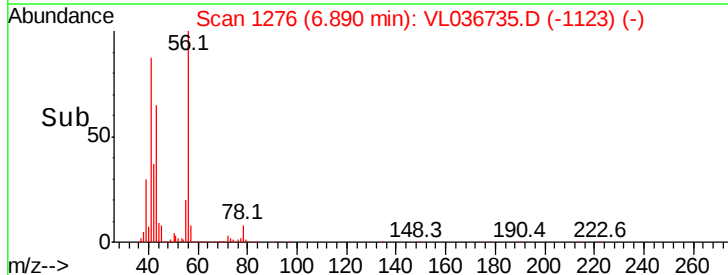
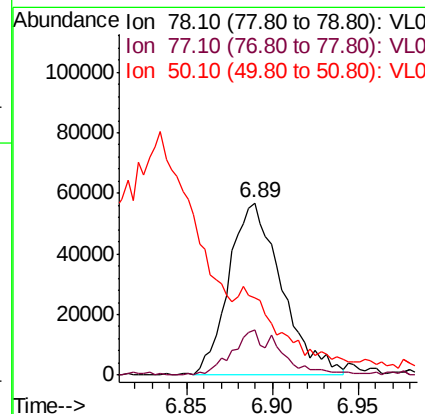
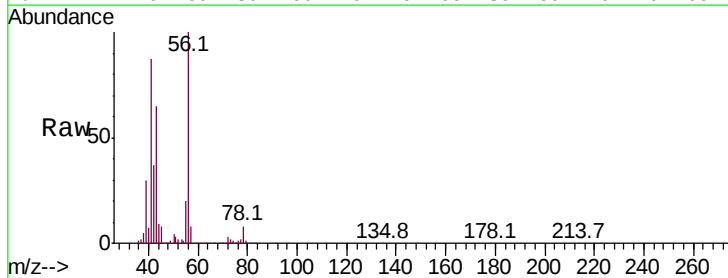
RT: 6.89 min Scan# 1276

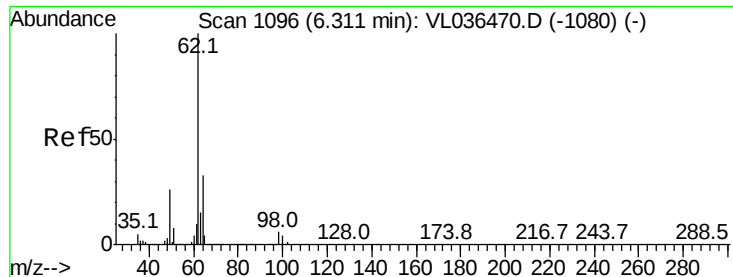
Delta R.T. -0.01 min

Lab File: VL036735.D

Acq: 7 Apr 2021 20:43

Tgt Ion:	78	Resp:	119865
Ion Ratio	Lower	Upper	
78	100		
77	25.9	18.0	27.0
50	35.2	16.5	24.7#





#37

1,2-Dichloroethane

Concen: 0.298 ppbv

RT: 6.31 min Scan# 1095

Delta R.T. -0.00 min

Lab File: VL036735.D

Acq: 7 Apr 2021 20:43

Instrument :

MSVOA_L

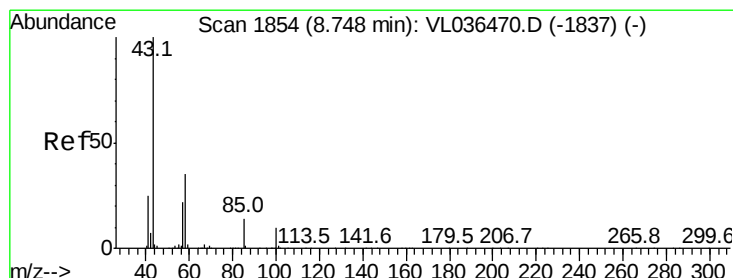
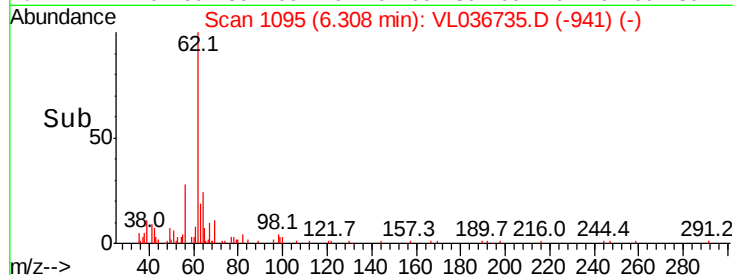
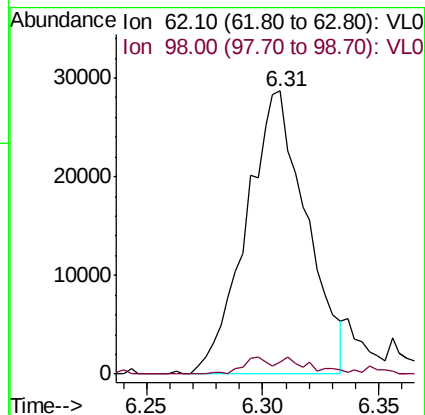
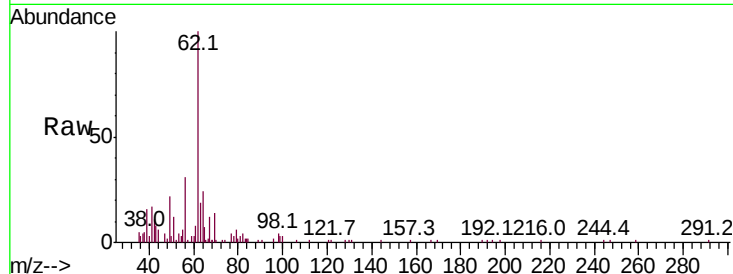
ClientSampleId :

Z18A-SS01

Tot Ion	Ratio	Resp	Lower	Upper
62	100	51914		
98	5.6	4.9	7.3	

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#50

4-Methyl-2-Pentanone

Concen: 0.101 ppbv m

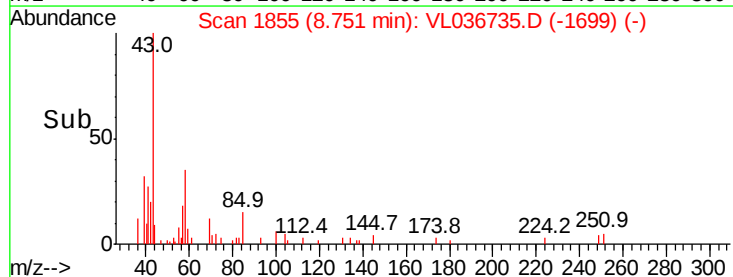
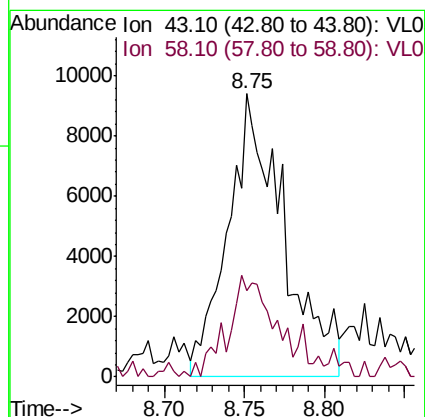
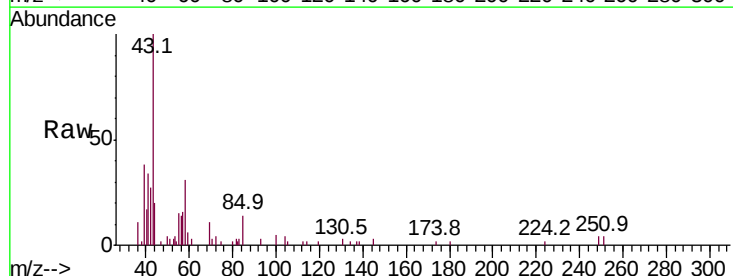
RT: 8.75 min Scan# 1855

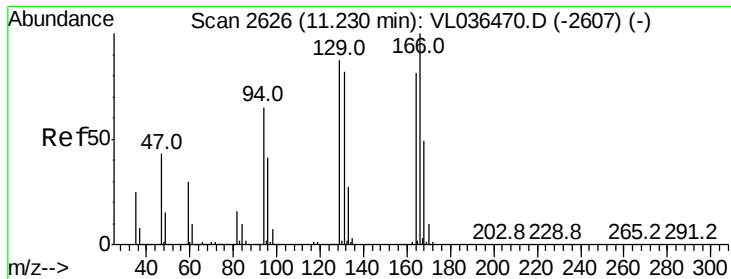
Delta R.T. 0.00 min

Lab File: VL036735.D

Acq: 7 Apr 2021 20:43

Tgt Ion	Ratio	Resp	Lower	Upper
43	100	22844		
58	34.2	28.2	42.2	





#52

Tetrachloroethene

Concen: 5.169 ppbv

RT: 11.22 min Scan# 2624

Delta R.T. -0.01 min

Lab File: VL036735.D

Acq: 7 Apr 2021 20:43

Instrument :

MSVOA_L

ClientSampleId :

Z18A-SS01

Tot Ion:164 Resp: 562941

Ion Ratio Lower Upper

164 100

166 121.9 98.3 147.5

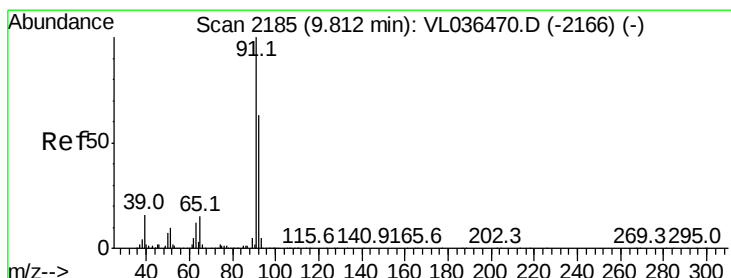
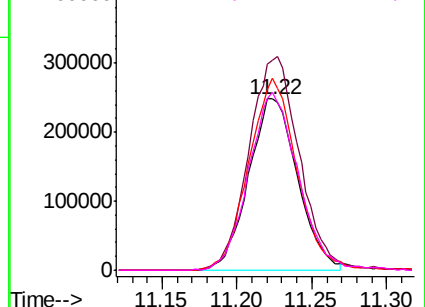
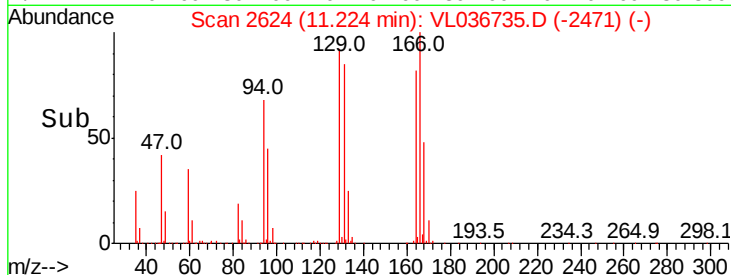
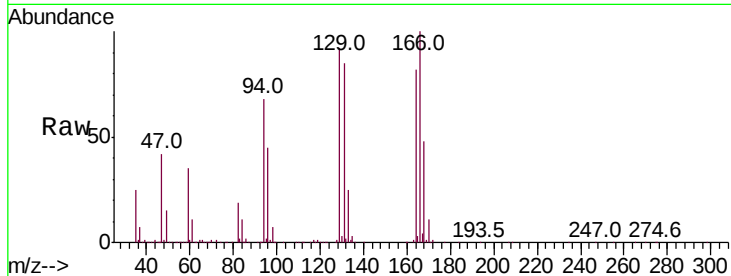
129 111.8 85.8 128.8

131 103.7 80.9 121.3

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#53

Toluene

Concen: 1.825 ppbv

RT: 9.81 min Scan# 2183

Delta R.T. -0.01 min

Lab File: VL036735.D

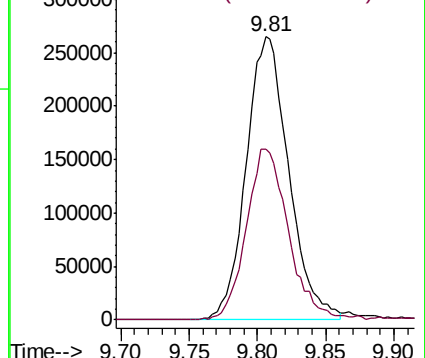
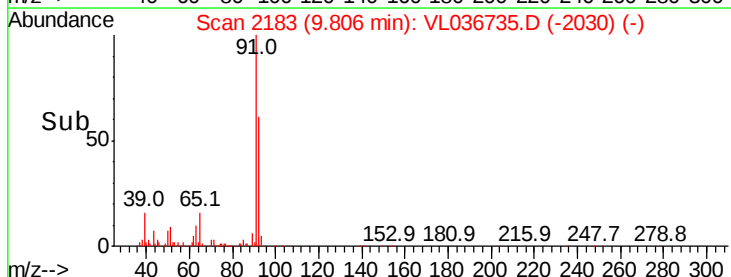
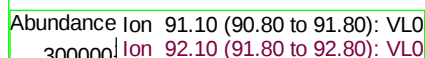
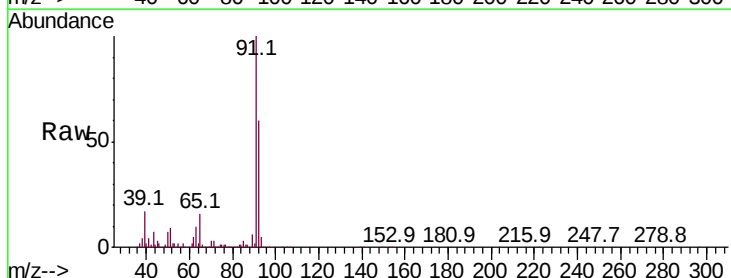
Acq: 7 Apr 2021 20:43

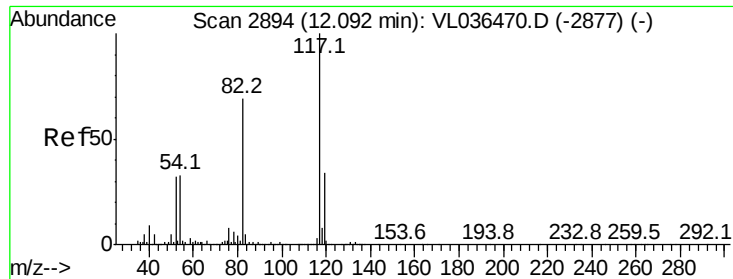
Tgt Ion: 91 Resp: 574898

Ion Ratio Lower Upper

91 100

92 60.8 48.8 73.2





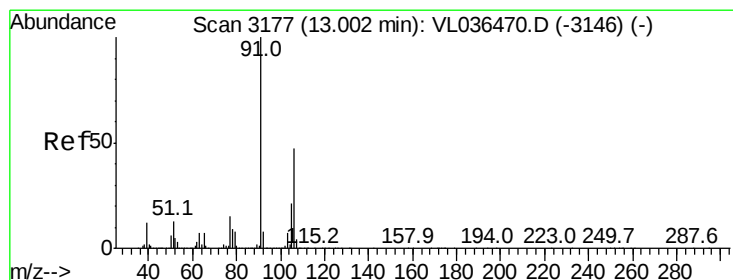
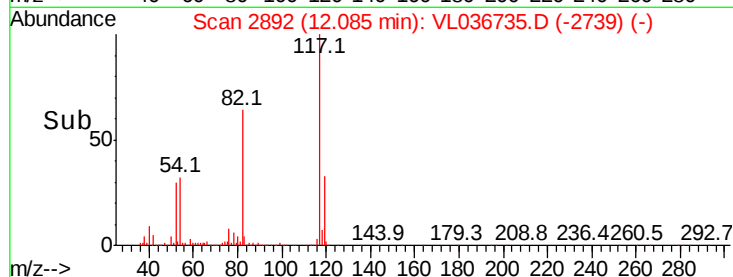
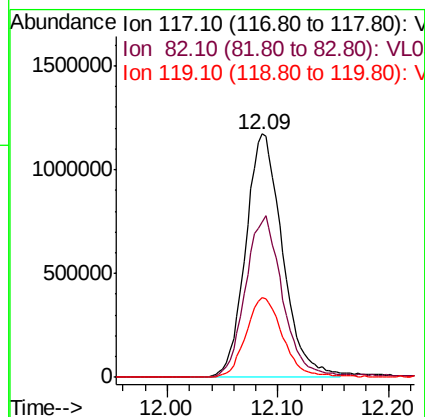
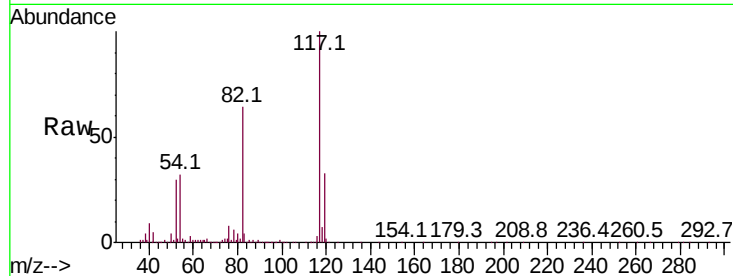
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.09 min Scan# 2892
Delta R.T. -0.01 min
Lab File: VL036735.D
Acq: 7 Apr 2021 20:43

Instrument :
MSVOA_L
ClientSampleId :
Z18A-SS01

Tot Ion	Ratio	Lower	Upper
117	100		
82	68.0	57.4	86.0
119	33.6	47.4	71.0#

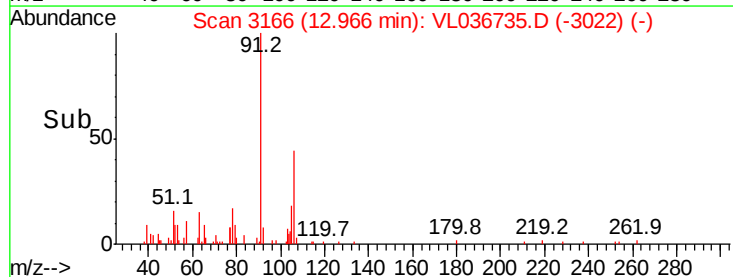
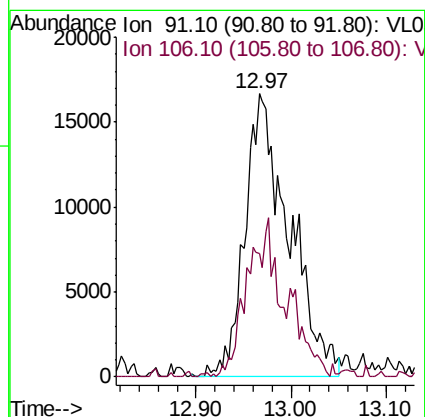
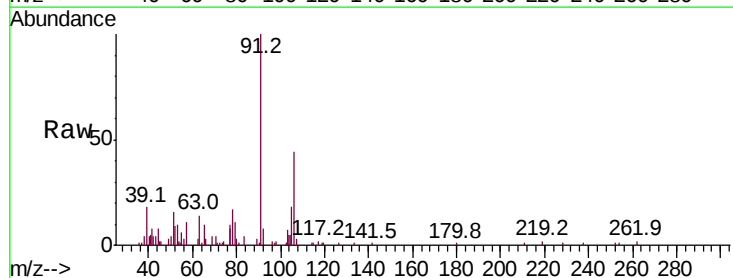
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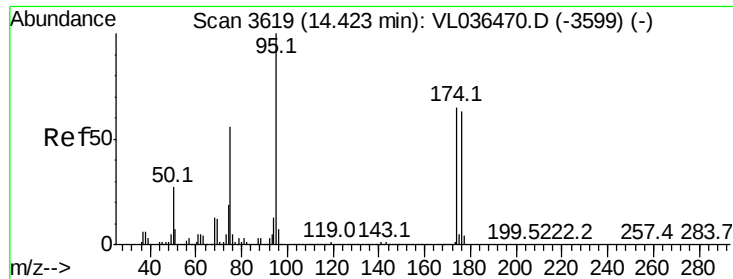
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#59
m/p-Xylene
Concen: 0.156 ppbv m
RT: 12.97 min Scan# 3166
Delta R.T. -0.04 min
Lab File: VL036735.D
Acq: 7 Apr 2021 20:43

Tgt Ion	Ratio	Lower	Upper
91	100		
106	0.0	35.3	52.9#





#68

1-Bromo-4-Fluorobenzene

Concen: 9.907 ppbv

RT: 14.42 min Scan# 3617

Delta R.T. -0.01 min

Lab File: VL036735.D

Acq: 7 Apr 2021 20:43

Instrument :

MSVOA_L

ClientSampleId :

Z18A-SS01

Tot Ion: 95 Resp: 2144539

Ion Ratio Lower Upper

95 100

174 63.1 51.0 76.6

175 4.7 3.9 5.9

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