

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL012821\
 Data File : VL036281.D
 Acq On : 28 Jan 2021 21:14
 Operator : SY/AP
 Sample : M1245-01DUP 4X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SS-1DUP

Manual Integrations
 APPROVED

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 2/1/2021 1:52:28 PM

Quant Time: Jan 31 17:13:18 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL011321AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Jan 1
 QLast Update : Thu Jan 14 16:13:38 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1620726	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.16	114	3539672	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.08	117	3200744	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.40	95	2686224	10.14	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.40%

Target Compounds

						Ovalue
3) Chlorodifluoromethane	2.98	51	54418	0.273	ppbv	99
4) Chloromethane	3.13	50	45923m	0.467	ppbv	
9) Propene	3.00	41	35520m	0.375	ppbv	
10) Heptane	8.10	43	193620	0.823	ppbv	95
13) Ethanol	3.62	45	10253763	688.926	ppbv	85
15) Acetone	3.84	43	14516314	73.133	ppbv #	89
17) tert-Butyl alcohol	4.31	59	11660692	71.191	ppbv	98
19) Isopropyl Alcohol	3.99	45	1640501	13.709	ppbv #	1
26) Hexane	5.67	57	321414	1.937	ppbv #	66
30) Cyclohexane	7.11	84	68552m	0.541	ppbv	
34) 2-Butanone	5.24	43	98160m	0.377	ppbv	
36) Benzene	6.88	78	240671	0.742	ppbv	94
44) 2,2,4-Trimethylpentane	7.85	57	258884	0.435	ppbv #	83
53) Toluene	9.79	91	2280363	6.285	ppbv	99
58) Ethyl Benzene	12.70	91	430044	0.905	ppbv	90
59) m/p-Xylene	12.95	91	1427437	3.498	ppbv	98
60) o-Xylene	13.68	91	461540	1.173	ppbv	100
72) 4-Ethyltoluene	15.83	105	123471m	0.278	ppbv	
73) 1,3,5-Trimethylbenzene	15.98	105	76843m	0.182	ppbv	
74) 1,2,4-Trimethylbenzene	16.76	105	312004m	0.719	ppbv	

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

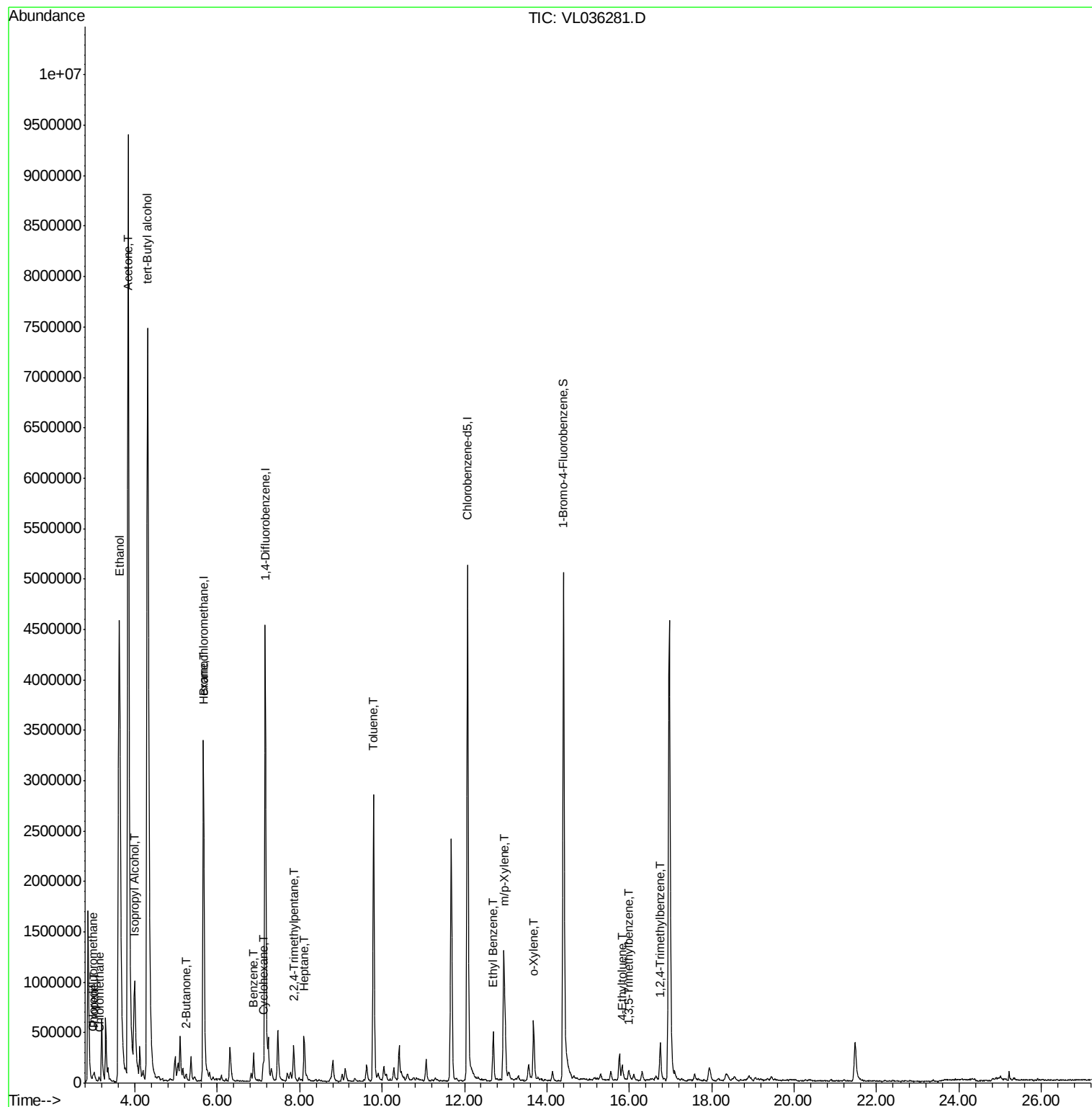
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL012821\
Data File : VL036281.D
Acq On : 28 Jan 2021 21:14
Operator : SY/AP
Sample : M1245-01DUP 4X
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

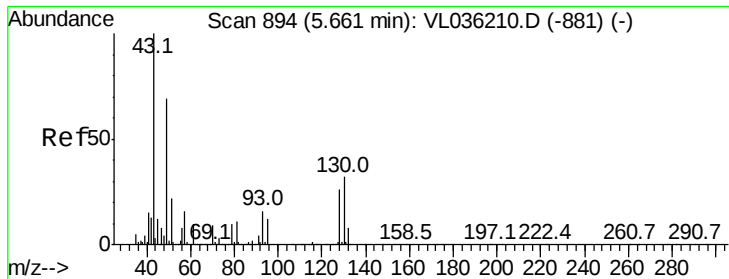
Instrument :
MSVOA_L
ClientSampleId :
SS-1DUP

Manual Integrations
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Quant Time: Jan 31 17:13:18 2021
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL011321AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Jan
QLast Update : Thu Jan 14 16:13:38 2021
Response via : Initial Calibration





#1

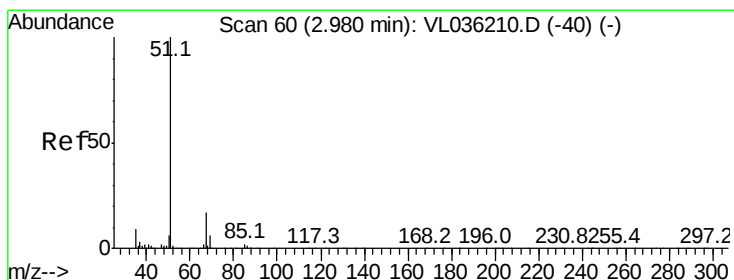
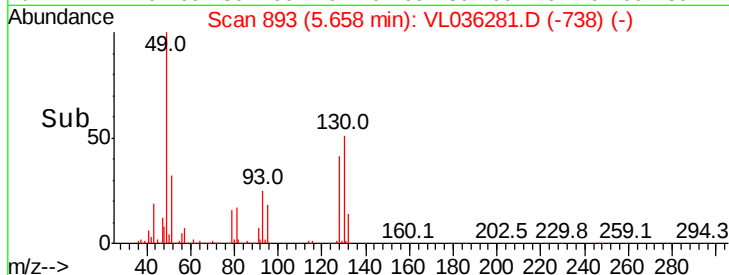
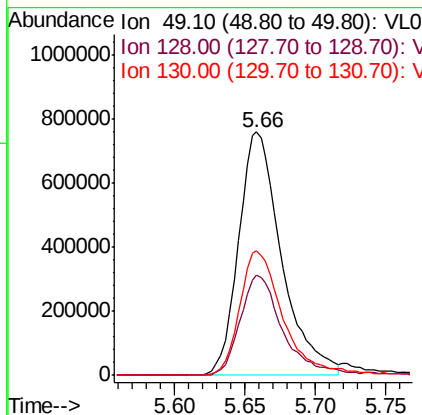
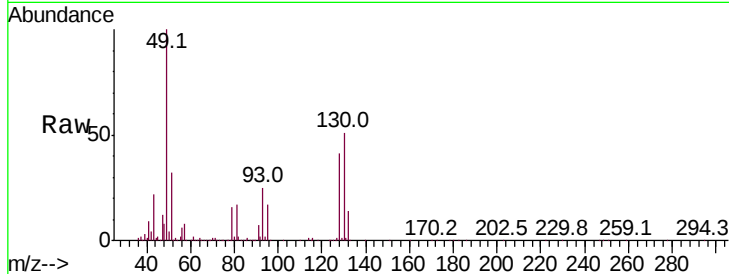
Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.66 min Scan# 893
 Delta R.T. -0.00 min
 Lab File: VL036281.D
 Acq: 28 Jan 2021 21:14

Instrument :
 MSVOA_L
 ClientSampled :
 SS-1DUP

Tot Ion	Ratio	Lower	Upper
49	100		
128	41.7	20.1	60.2
130	52.4	25.3	75.9

Manual Integrations
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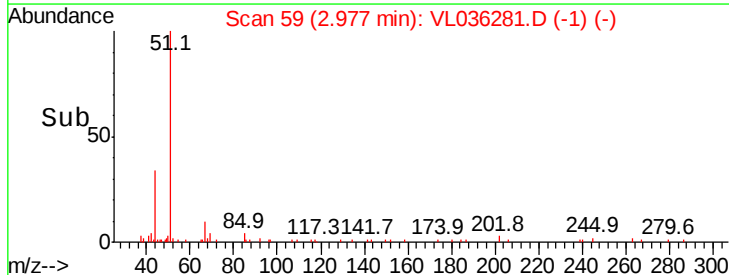
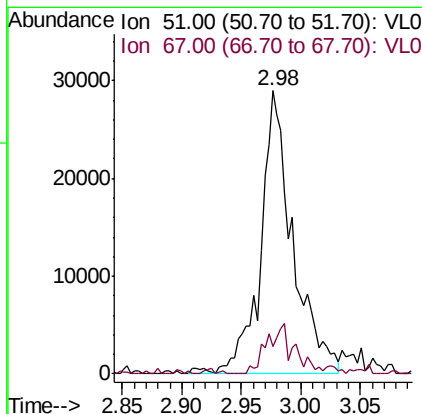
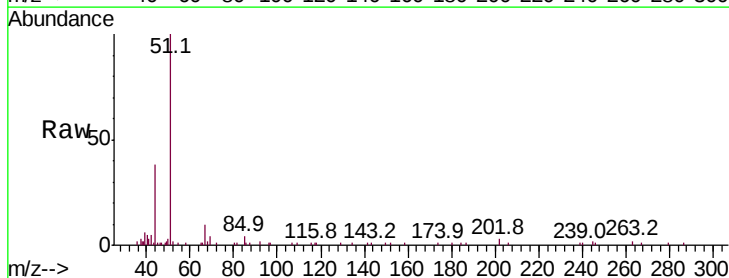
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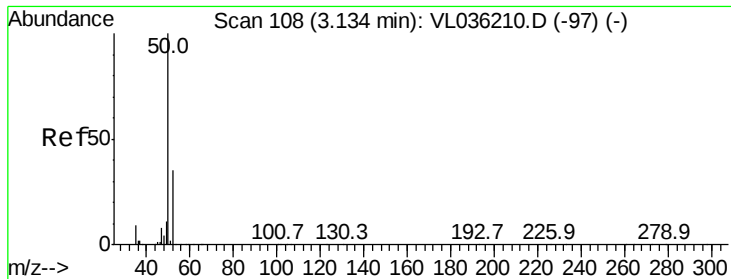


#3

Chlorodifluoromethane
 Concen: 0.273 ppbv
 RT: 2.98 min Scan# 59
 Delta R.T. -0.00 min
 Lab File: VL036281.D
 Acq: 28 Jan 2021 21:14

Tgt Ion	Ratio	Lower	Upper
51	100		
67	17.0	14.0	21.0





#4

Chloromethane

Concen: 0.467 ppbv m

RT: 3.13 min Scan# 107

Delta R.T. -0.00 min

Lab File: VL036281.D

Acq: 28 Jan 2021 21:14

Instrument :

MSVOA_L

ClientSampled :

SS-1DUP

Tot Ion: 50 Resp: 45923

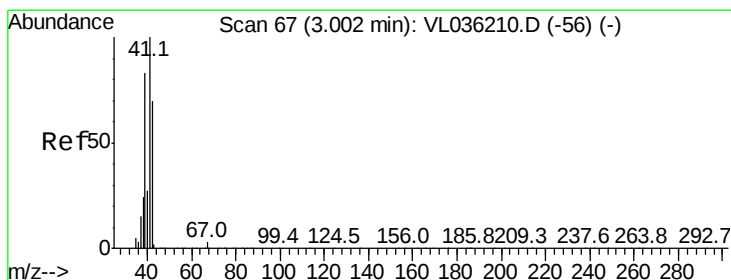
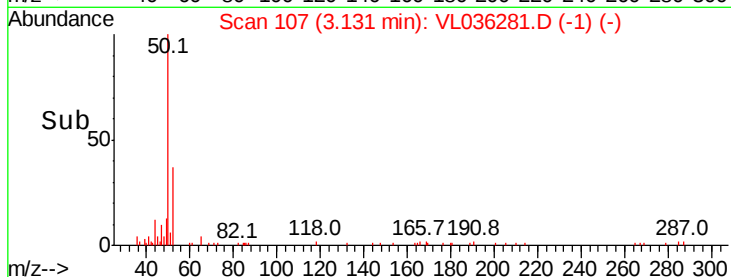
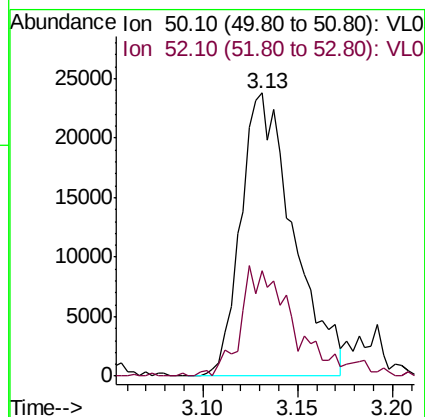
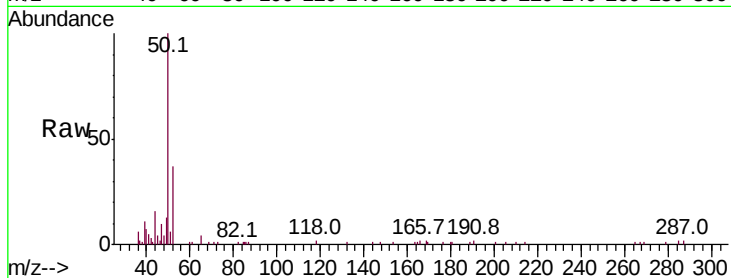
Ion Ratio Lower Upper

50 100

52 37.0 27.8 41.8

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#9

Propene

Concen: 0.375 ppbv m

RT: 3.00 min Scan# 67

Delta R.T. -0.00 min

Lab File: VL036281.D

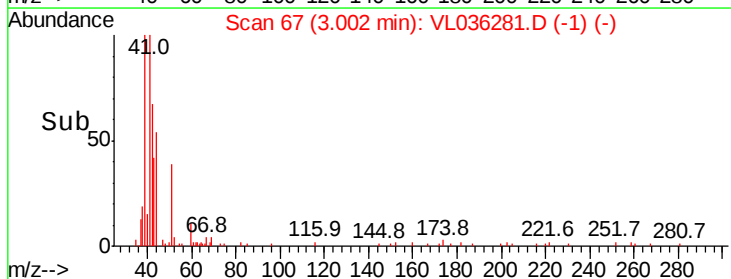
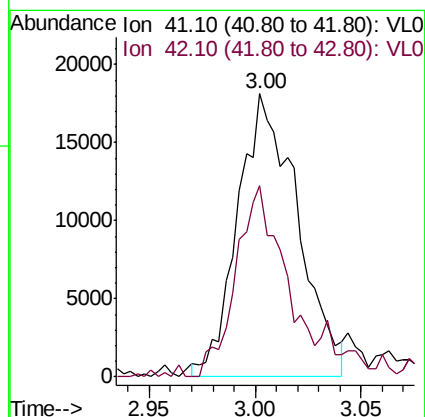
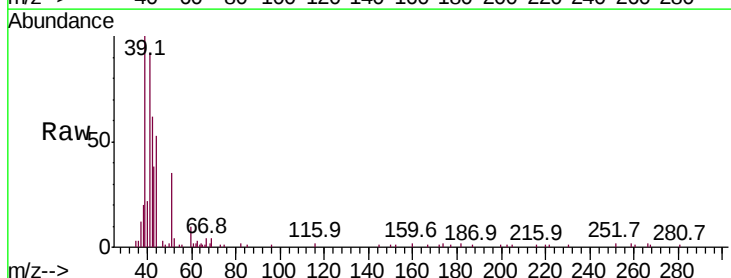
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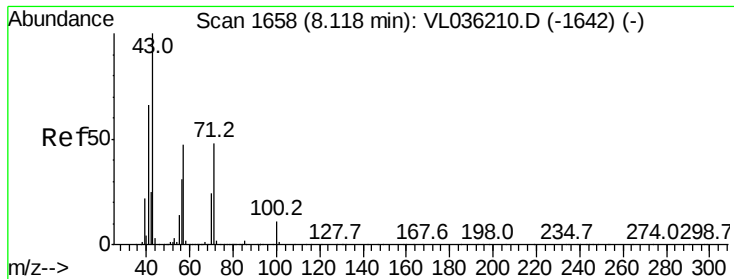
Tgt Ion: 41 Resp: 35520

Ion Ratio Lower Upper

41 100

42 67.8 57.1 85.7





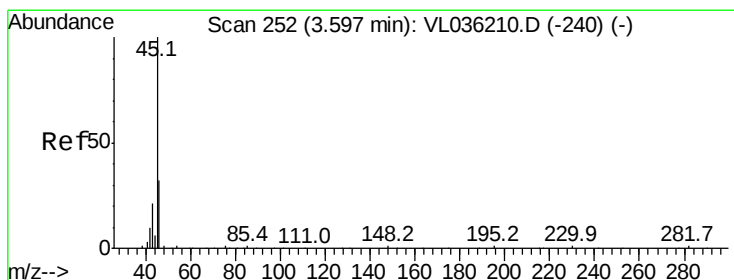
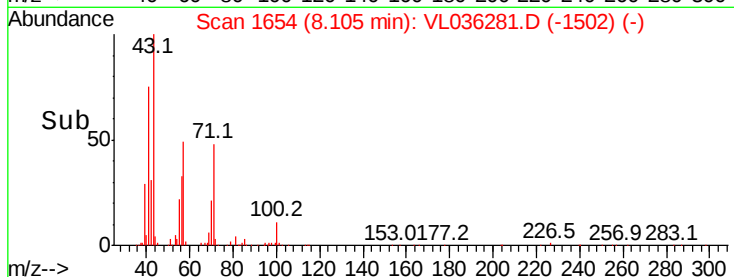
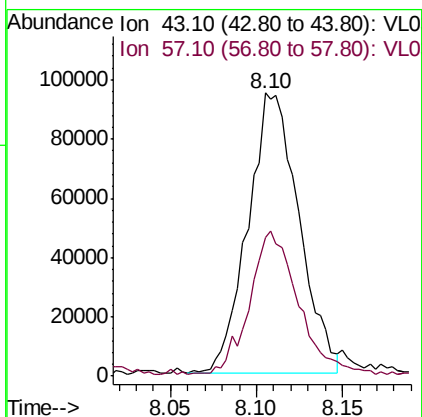
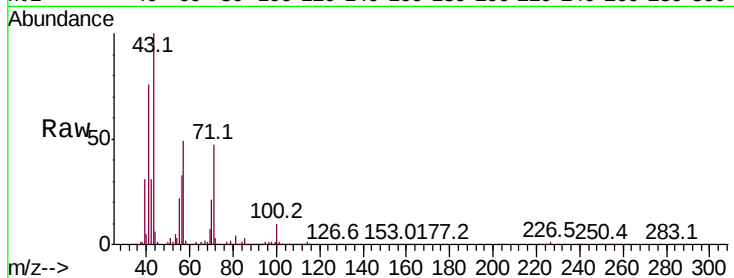
#10
Heptane
Concen: 0.823 ppbv
RT: 8.10 min Scan# 1654
Delta R.T. -0.01 min
Lab File: VL036281.D
Acq: 28 Jan 2021 21:14

Instrument :
MSVOA_L
ClientSampled :
SS-1DUP

Tot Ion: 43 Resp: 193620
Ion Ratio Lower Upper
43 100
57 50.8 38.1 57.1

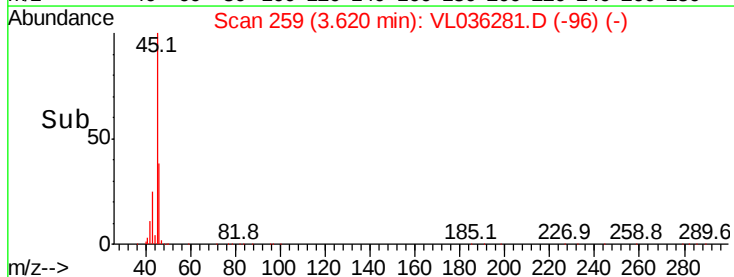
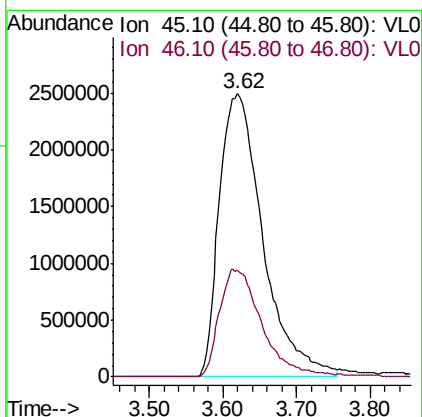
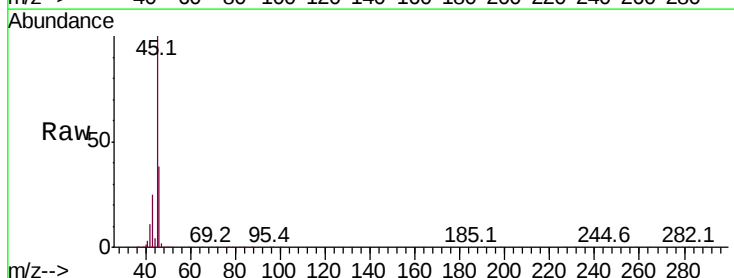
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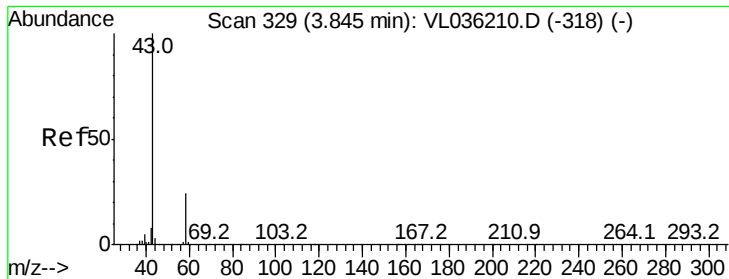
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#13
Ethanol
Concen: 688.926 ppbv
RT: 3.62 min Scan# 259
Delta R.T. 0.02 min
Lab File: VL036281.D
Acq: 28 Jan 2021 21:14

Tgt Ion: 45 Resp: 10253763
Ion Ratio Lower Upper
45 100
46 38.0 19.2 77.0





#15

Acetone

Concen: 73.133 ppbv

RT: 3.84 min Scan# 326

Delta R.T. -0.01 min

Lab File: VL036281.D

Acq: 28 Jan 2021 21:14

Instrument :

MSVOA_L

ClientSampleId :

SS-1DUP

Tot Ion: 43 Resp:14516314

Ion Ratio Lower Upper

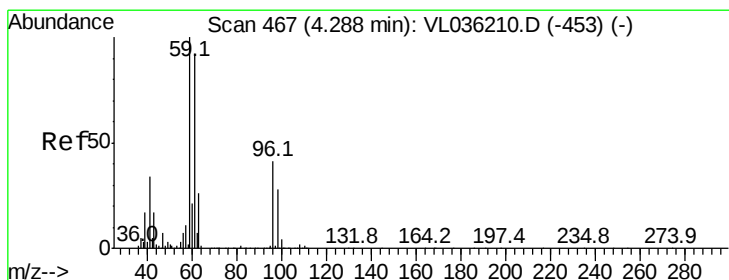
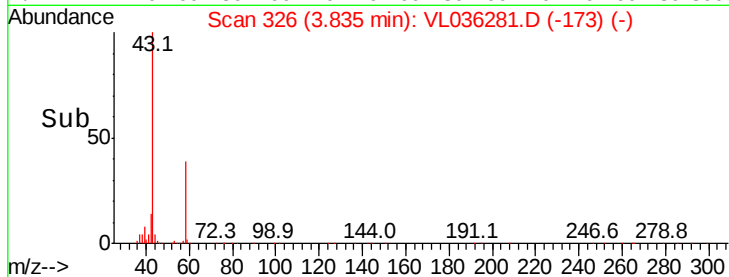
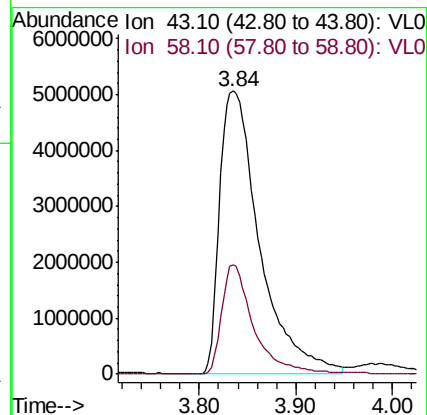
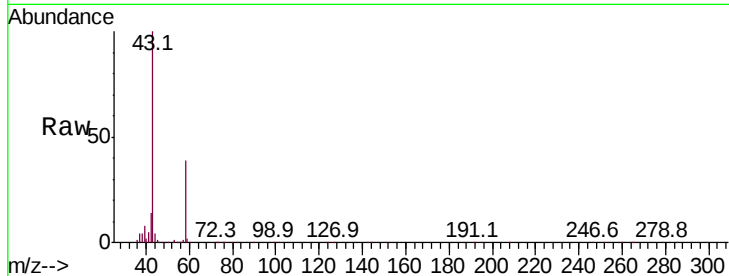
43 100

58 31.8 20.9 31.3#

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#17

tert-Butyl alcohol

Concen: 71.191 ppbv

RT: 4.31 min Scan# 474

Delta R.T. 0.02 min

Lab File: VL036281.D

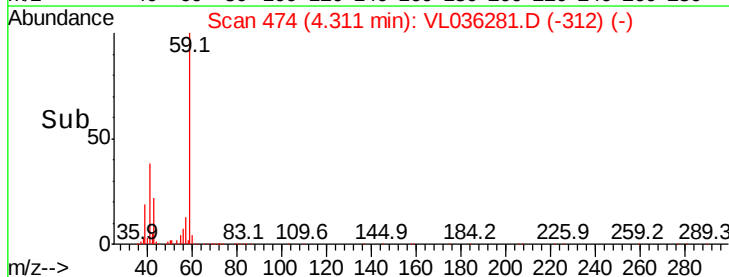
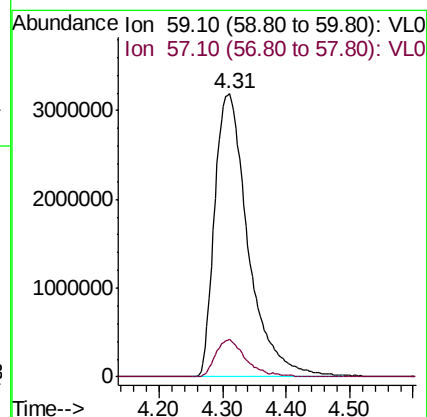
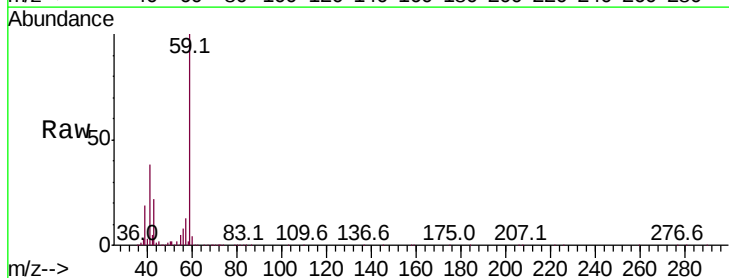
Acq: 28 Jan 2021 21:14

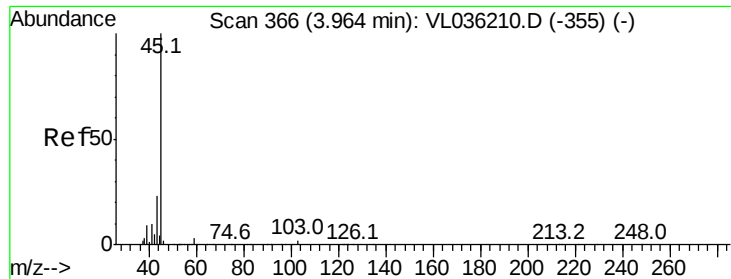
Tgt Ion: 59 Resp:11660692

Ion Ratio Lower Upper

59 100

57 12.2 9.2 13.8





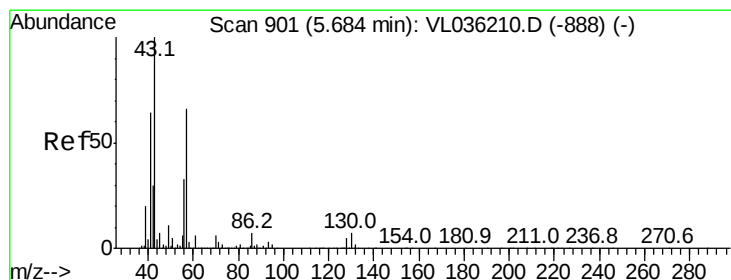
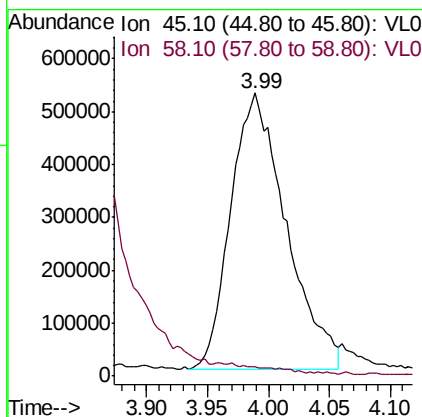
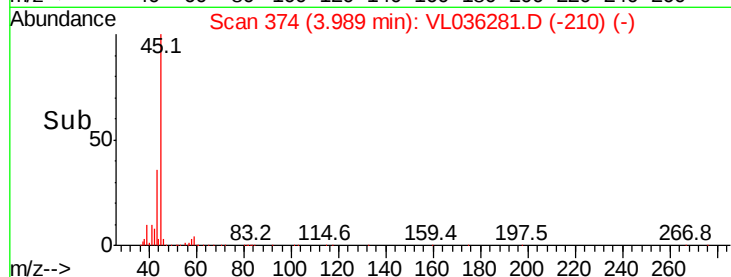
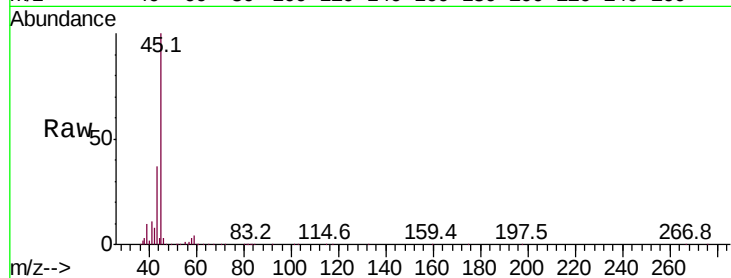
#19
Isopropyl Alcohol
Concen: 13.709 ppbv
RT: 3.99 min Scan# 374
Delta R.T. 0.03 min
Lab File: VL036281.D
Acq: 28 Jan 2021 21:14

Instrument :
MSVOA_L
ClientSampled :
SS-1DUP

Tot Ion: 45 Resp: 1640501
Ion Ratio Lower Upper
45 100
58 281.5 1.9 2.9#

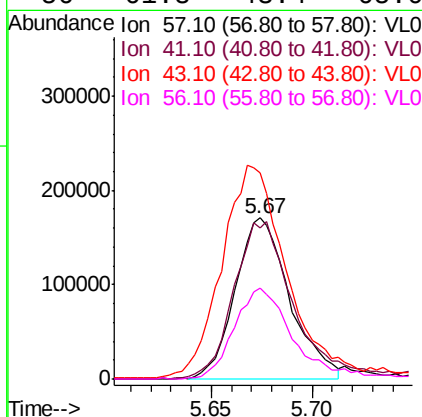
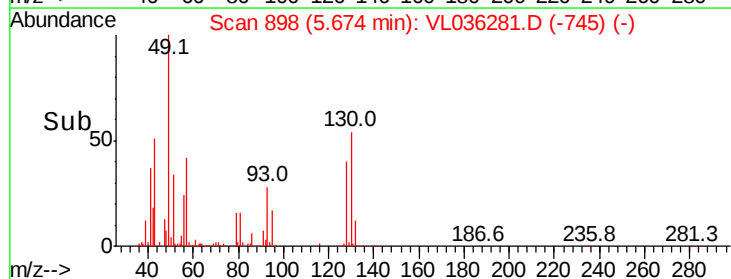
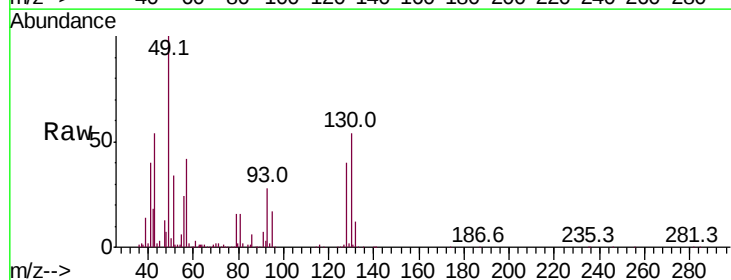
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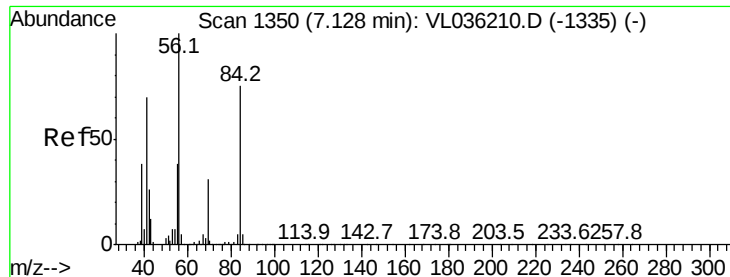
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#26
Hexane
Concen: 1.937 ppbv
RT: 5.67 min Scan# 898
Delta R.T. -0.01 min
Lab File: VL036281.D
Acq: 28 Jan 2021 21:14

Tgt Ion: 57 Resp: 321414
Ion Ratio Lower Upper
57 100
41 108.2 83.0 124.6
43 163.6 202.4 303.6#
56 61.8 43.4 65.0





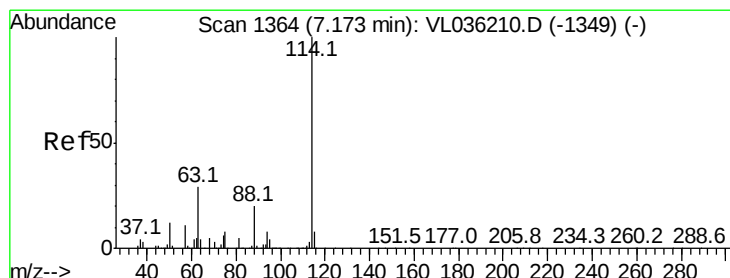
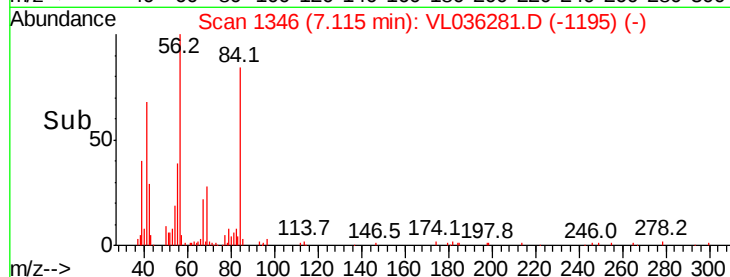
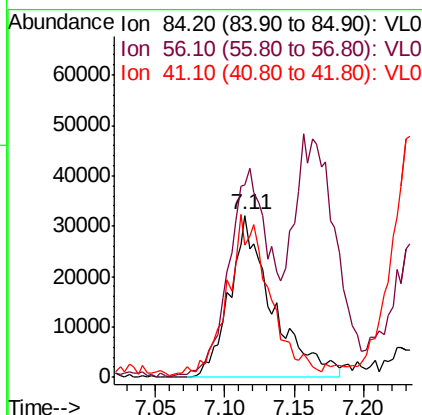
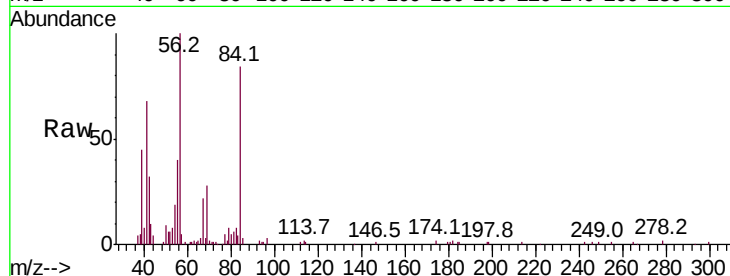
#30
Cvclohexane
Concen: 0.541 ppbv m
RT: 7.11 min Scan# 1346
Delta R.T. -0.01 min
Lab File: VL036281.D
Acq: 28 Jan 2021 21:14

Instrument :
MSVOA_L
ClientSampled :
SS-1DUP

Tot Ion	Ratio	Lower	Upper
84	100		
56	125.7	119.4	179.0
41	97.4	79.4	119.0

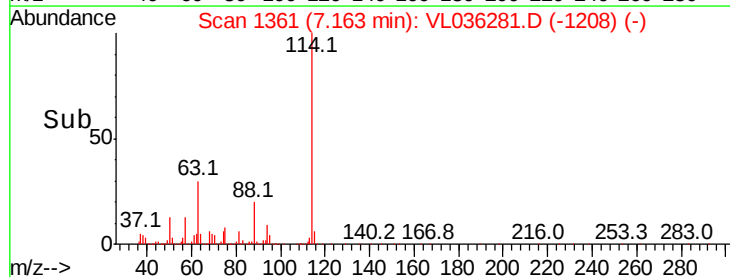
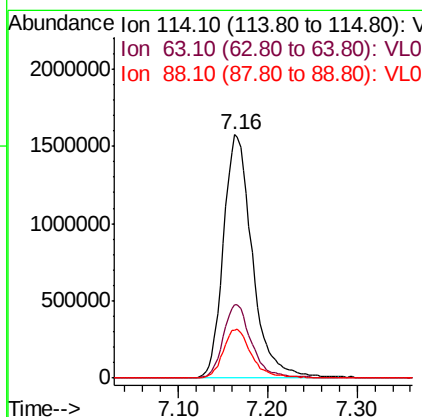
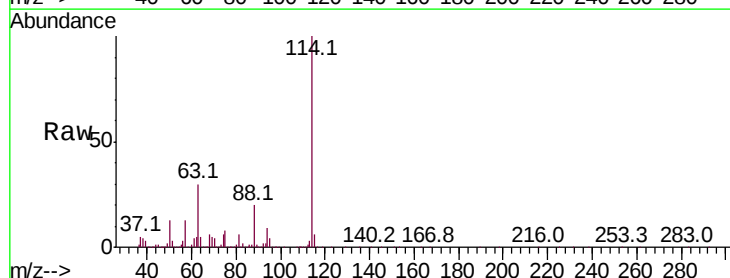
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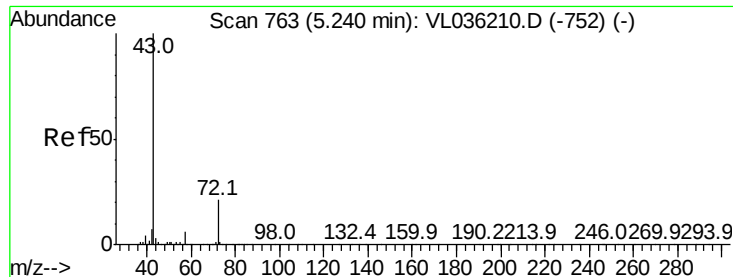
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#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.16 min Scan# 1361
Delta R.T. -0.01 min
Lab File: VL036281.D
Acq: 28 Jan 2021 21:14

Tgt Ion	Ratio	Lower	Upper
114	100		
63	29.9	24.7	37.1
88	19.9	16.6	24.8





#34

2-Butanone

Concen: 0.377 ppbv m

RT: 5.24 min Scan# 762

Delta R.T. -0.00 min

Lab File: VL036281.D

Acq: 28 Jan 2021 21:14

Instrument :

MSVOA_L

ClientSampled :

SS-1DUP

Tot Ion: 43 Resp: 98160

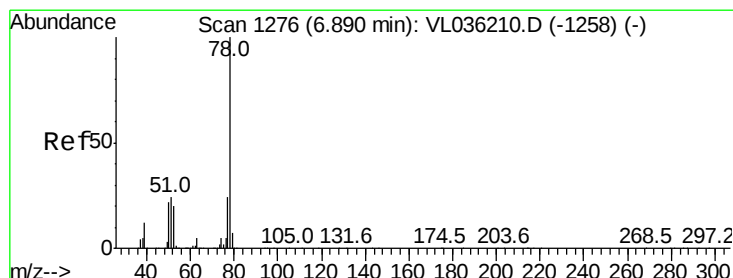
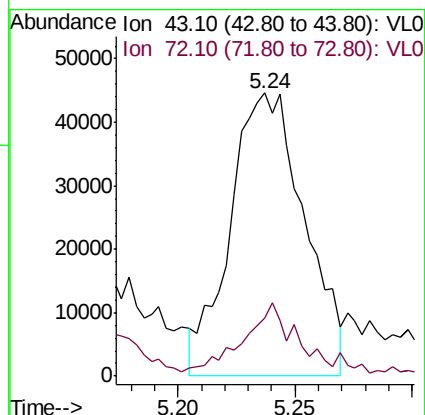
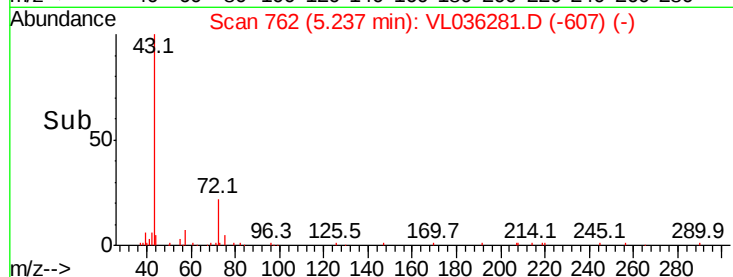
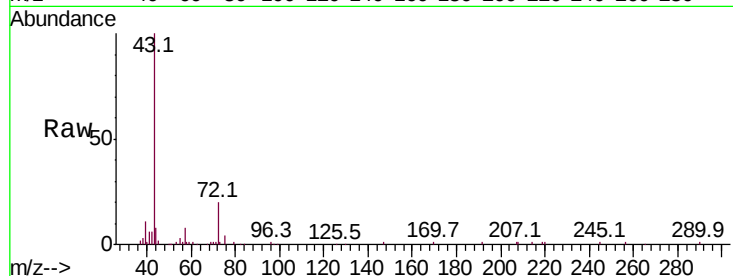
Ion Ratio Lower Upper

43 100

72 0.0 16.1 24.1#

Manual Integrations
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#36

Benzene

Concen: 0.742 ppbv

RT: 6.88 min Scan# 1273

Delta R.T. -0.01 min

Lab File: VL036281.D

Acq: 28 Jan 2021 21:14

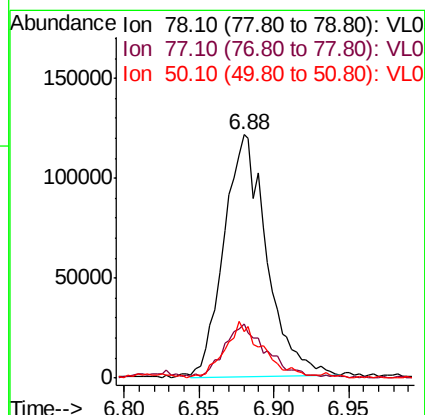
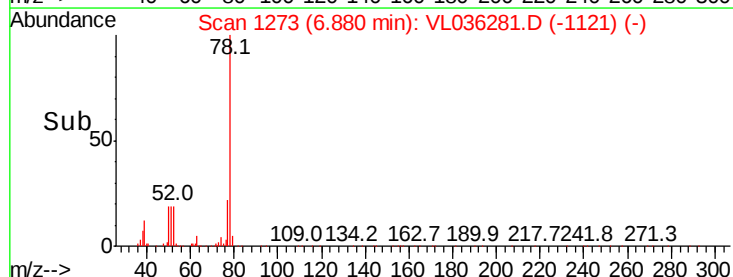
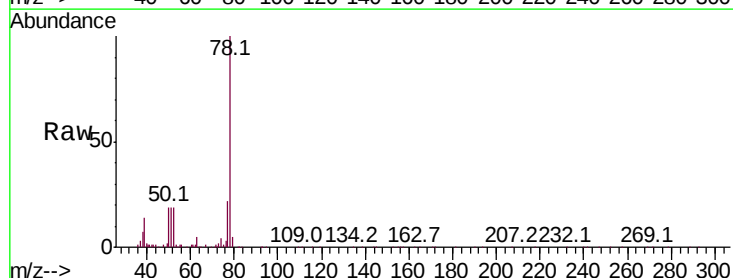
Tgt Ion: 78 Resp: 240671

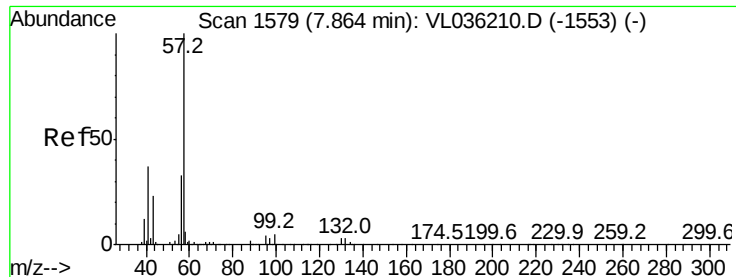
Ion Ratio Lower Upper

78 100

77 21.7 19.4 29.0

50 18.9 17.4 26.2





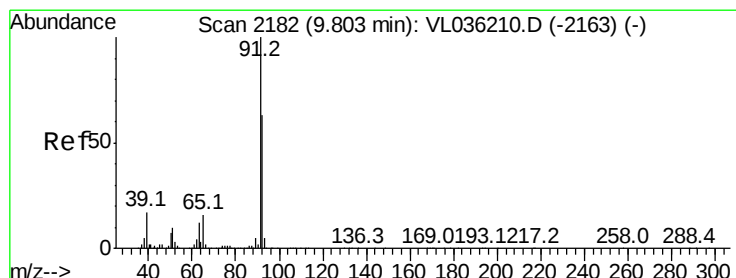
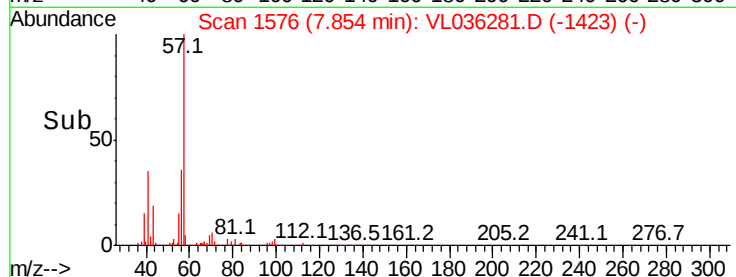
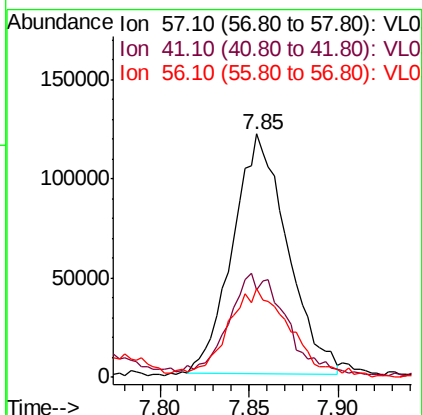
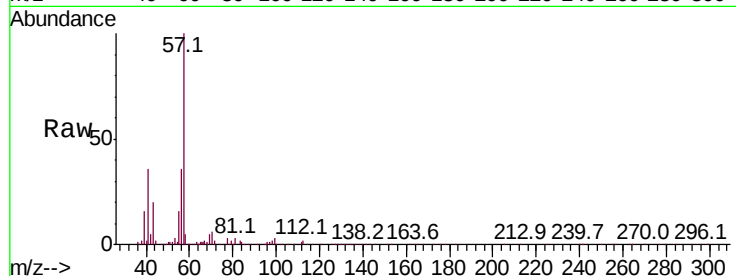
#44
2,2,4-Trimethylpentane
Concen: 0.435 ppbv
RT: 7.85 min Scan# 1576
Delta R.T. -0.01 min
Lab File: VL036281.D
Acq: 28 Jan 2021 21:14

Instrument :
MSVOA_L
ClientSampleId :
SS-1DUP

Tot Ion	Ratio	Lower	Upper
57	100		
41	44.4	28.5	42.7#
56	42.2	25.5	38.3#

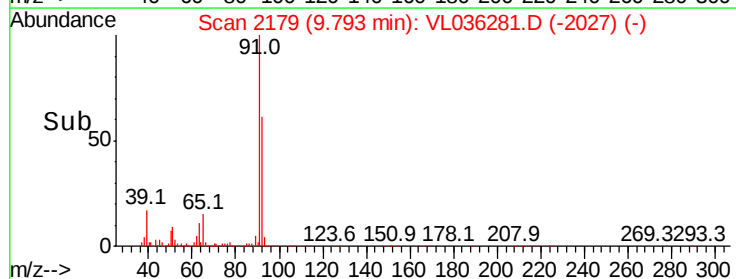
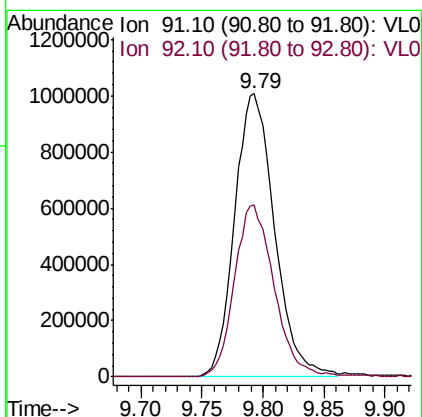
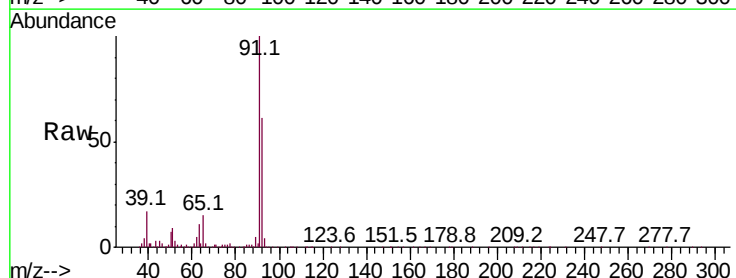
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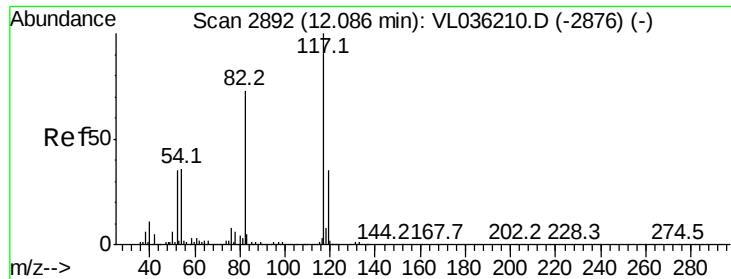
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#53
Toluene
Concen: 6.285 ppbv
RT: 9.79 min Scan# 2179
Delta R.T. -0.01 min
Lab File: VL036281.D
Acq: 28 Jan 2021 21:14

Tgt Ion	Ratio	Lower	Upper
91	100		
92	61.0	48.5	72.7





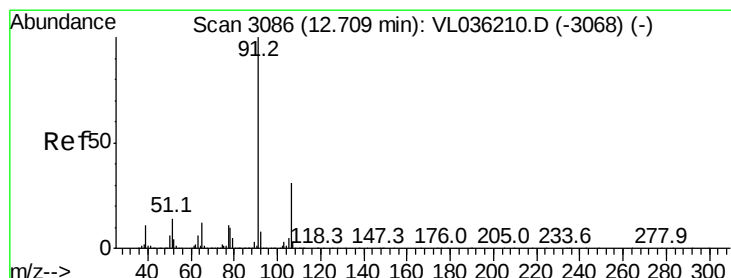
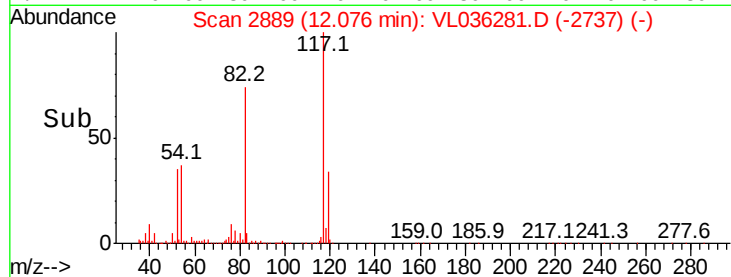
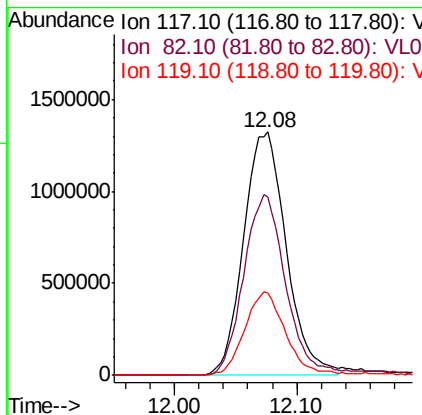
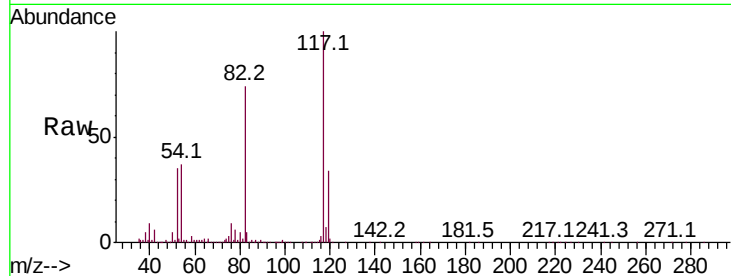
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.08 min Scan# 2889
Delta R.T. -0.01 min
Lab File: VL036281.D
Acq: 28 Jan 2021 21:14

Instrument :
MSVOA_L
ClientSampleId :
SS-1DUP

Tot Ion:117 Resp: 3200744
Ion Ratio Lower Upper
117 100
82 76.2 59.7 89.5
119 34.2 28.6 43.0

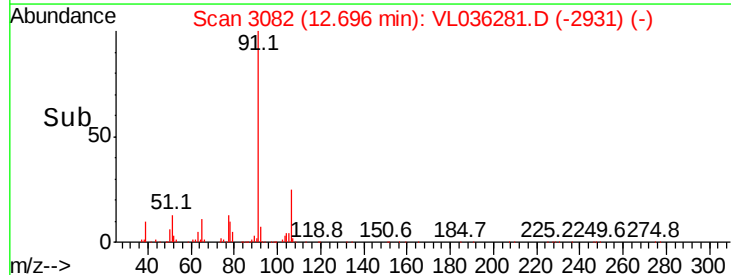
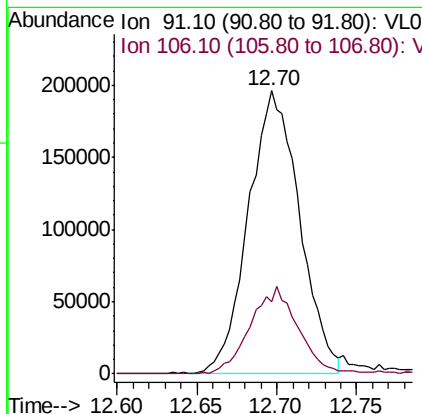
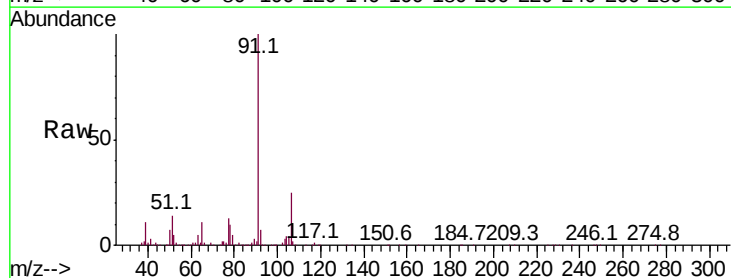
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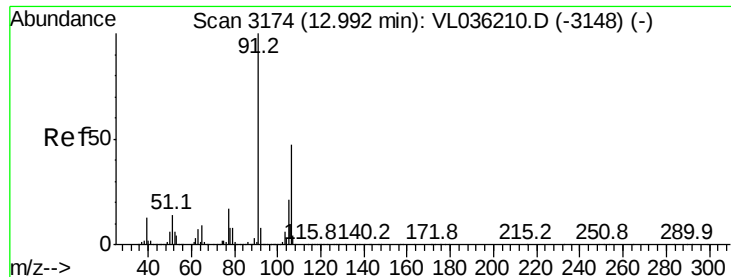
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#58
Ethyl Benzene
Concen: 0.905 ppbv
RT: 12.70 min Scan# 3082
Delta R.T. -0.01 min
Lab File: VL036281.D
Acq: 28 Jan 2021 21:14

Tgt Ion: 91 Resp: 430044
Ion Ratio Lower Upper
91 100
106 25.4 24.8 37.2





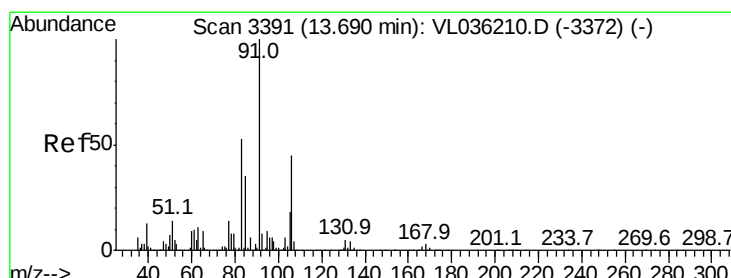
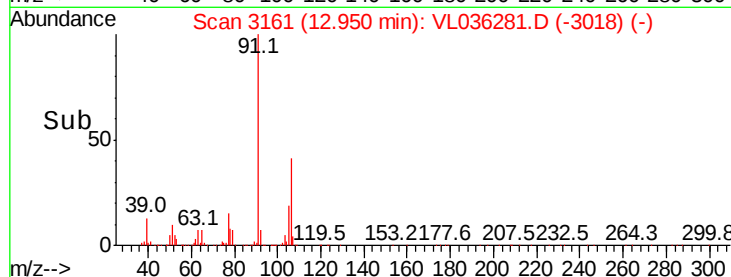
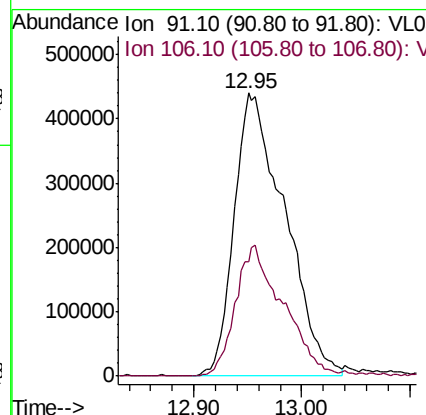
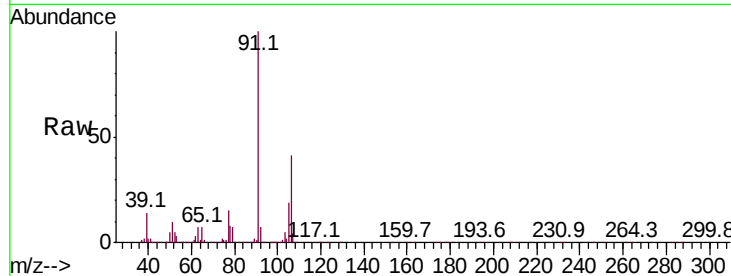
#59
m/p-Xylene
Concen: 3.498 ppbv
RT: 12.95 min Scan# 3161
Delta R.T. -0.04 min
Lab File: VL036281.D
Acq: 28 Jan 2021 21:14

Instrument :
MSVOA_L
ClientSampleId :
SS-1DUP

Tot Ion: 91 Resp: 1427437
Ion Ratio Lower Upper
91 100
106 44.2 34.6 51.8

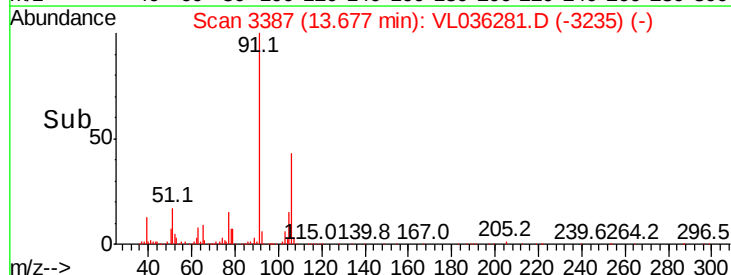
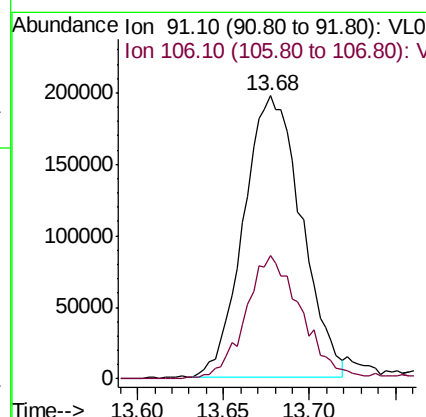
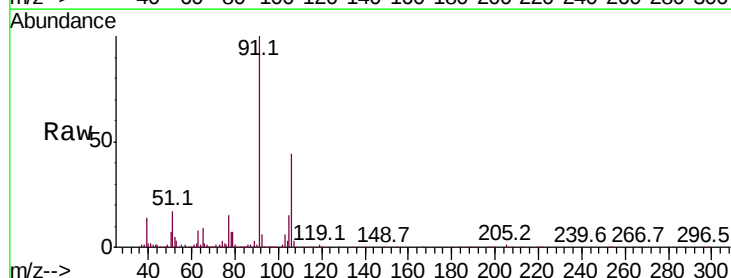
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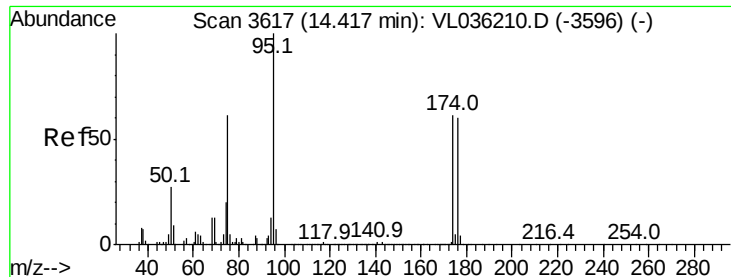
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#60
o-Xylene
Concen: 1.173 ppbv
RT: 13.68 min Scan# 3387
Delta R.T. -0.01 min
Lab File: VL036281.D
Acq: 28 Jan 2021 21:14

Tgt Ion: 91 Resp: 461540
Ion Ratio Lower Upper
91 100
106 43.8 21.9 65.8





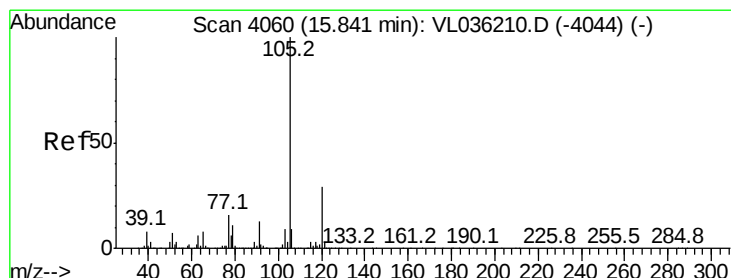
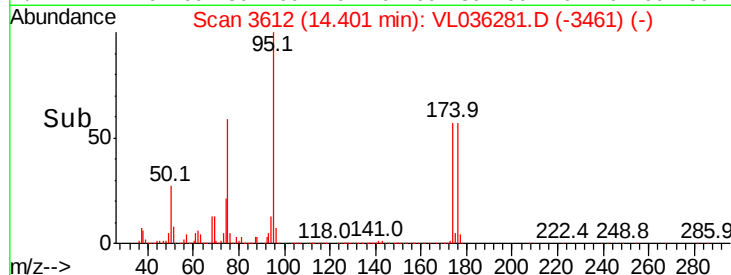
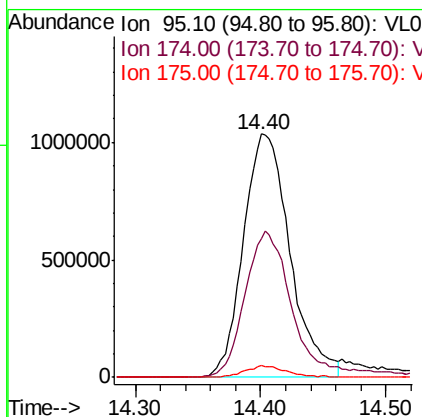
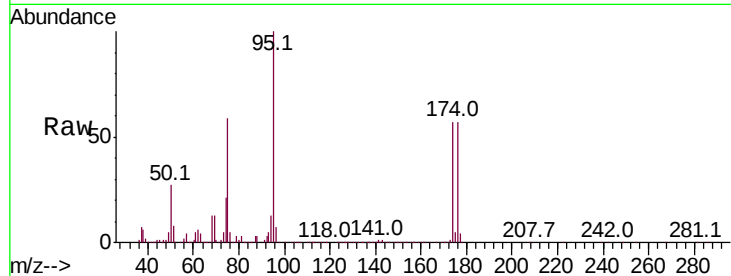
#68
1-Bromo-4-Fluorobenzene
Concen: 10.139 ppbv
RT: 14.40 min Scan# 3612
Delta R.T. -0.02 min
Lab File: VL036281.D
Acq: 28 Jan 2021 21:14

Instrument :
MSVOA_L
ClientSampled :
SS-1DUP

Tot Ion: 95 Resp: 2686224
Ion Ratio Lower Upper
95 100
174 63.8 49.4 74.0
175 4.3 3.8 5.8

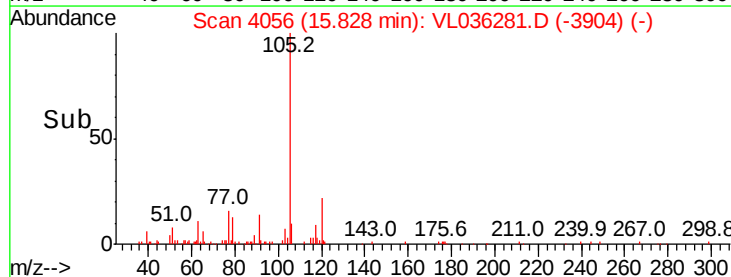
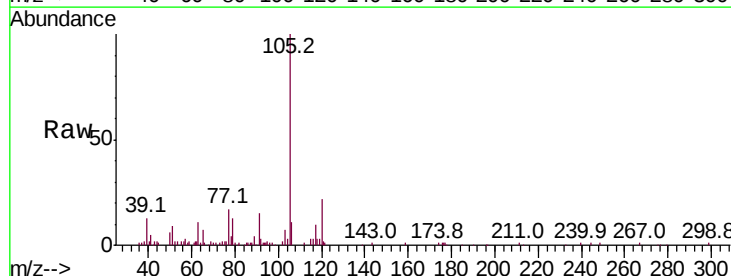
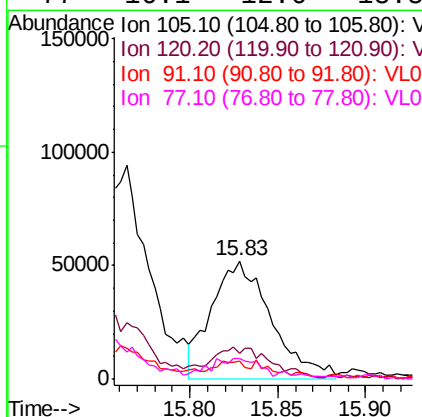
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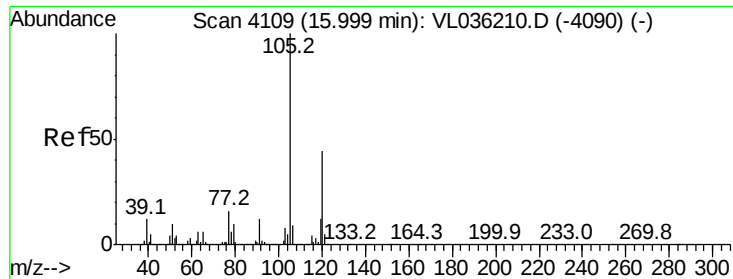
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#72
4-Ethyltoluene
Concen: 0.278 ppbv m
RT: 15.83 min Scan# 4056
Delta R.T. -0.01 min
Lab File: VL036281.D
Acq: 28 Jan 2021 21:14

Tgt Ion: 105 Resp: 123471
Ion Ratio Lower Upper
105 100
120 31.2 23.7 35.5
91 0.0 11.9 17.9#
77 16.1 12.6 18.8





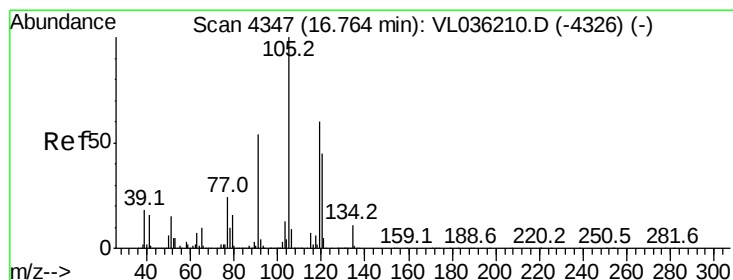
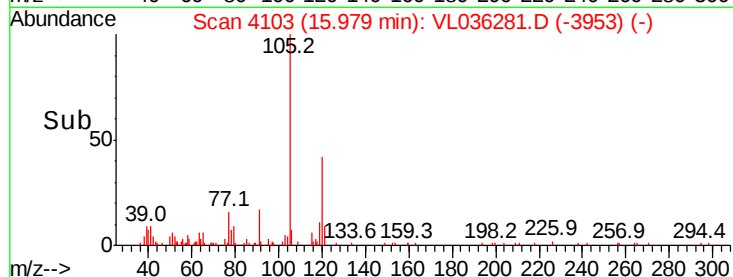
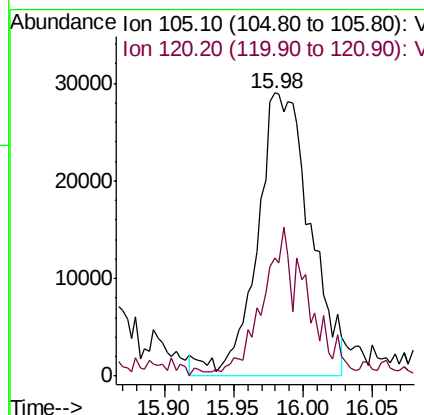
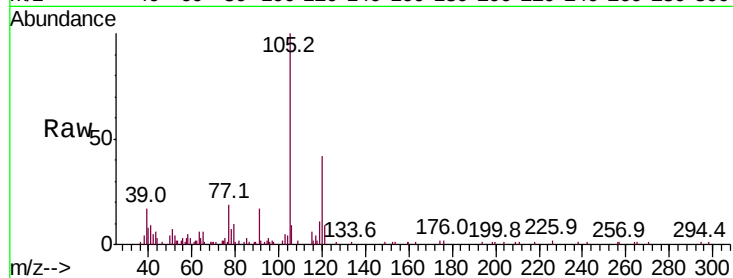
#73
 1,3,5-Trimethylbenzene
 Concen: 0.182 ppbv m
 RT: 15.98 min Scan# 4103
 Delta R.T. -0.02 min
 Lab File: VL036281.D
 Acq: 28 Jan 2021 21:14

Instrument :
 MSVOA_L
 ClientSampleId :
 SS-1DUP

Tot Ion	Ratio	Lower	Upper
105	100		
120	41.9	35.5	53.3

Manual Integrations
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#74
 1,2,4-Trimethylbenzene
 Concen: 0.719 ppbv m
 RT: 16.76 min Scan# 4345
 Delta R.T. -0.01 min
 Lab File: VL036281.D
 Acq: 28 Jan 2021 21:14

Tgt Ion	Ratio	Lower	Upper
105	100		
120	37.9	36.2	54.2
91	11.1	43.3	64.9#
77	17.0	19.1	28.7#

