

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL040621\
 Data File : VL036716.D
 Acq On : 7 Apr 2021 3:02
 Operator : SY/AP
 Sample : M1929-05
 Misc : 400mL/MSVOA L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 FS-OA-04

Manual Integrations
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 4/12/2021 11:11:46 AM

Quant Time: Apr 08 12:27:28 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032521AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Mar 2
 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	1227774	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	2961577	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	2620899	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.42	95	2024946	9.69	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.90%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.05	85	46791	0.234	ppbv	98
3) Chlorodifluoromethane	2.99	51	83237	0.363	ppbv #	86
4) Chloromethane	3.14	50	41149	0.508	ppbv	98
9) Propene	3.01	41	59817m	0.818	ppbv	
11) Trichlorofluoromethane	3.95	101	39720	0.195	ppbv	84
13) Ethanol	3.62	45	294887	33.862	ppbv	93
15) Acetone	3.85	43	1095257m	9.064	ppbv	
19) Isopropyl Alcohol	3.99	45	271289m	4.081	ppbv	
20) Methylene Chloride	4.34	84	1047285	18.510	ppbv	96
26) Hexane	5.69	57	1087983	8.161	ppbv #	47
34) 2-Butanone	5.25	43	119870m	0.829	ppbv	
35) Carbon Tetrachloride	7.02	117	13356m	0.059	ppbv	
36) Benzene	6.89	78	80352	0.294	ppbv	95
44) 2,2,4-Trimethylpentane	7.88	57	60514m	0.126	ppbv	
52) Tetrachloroethene	11.23	164	7831m	0.078	ppbv	
53) Toluene	9.81	91	457847	1.574	ppbv	96
59) m/p-Xylene	12.98	91	80362m	0.242	ppbv	
60) o-Xylene	13.70	91	36007	0.112	ppbv	98
74) 1,2,4-Trimethylbenzene	16.77	105	42392m	0.120	ppbv	

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

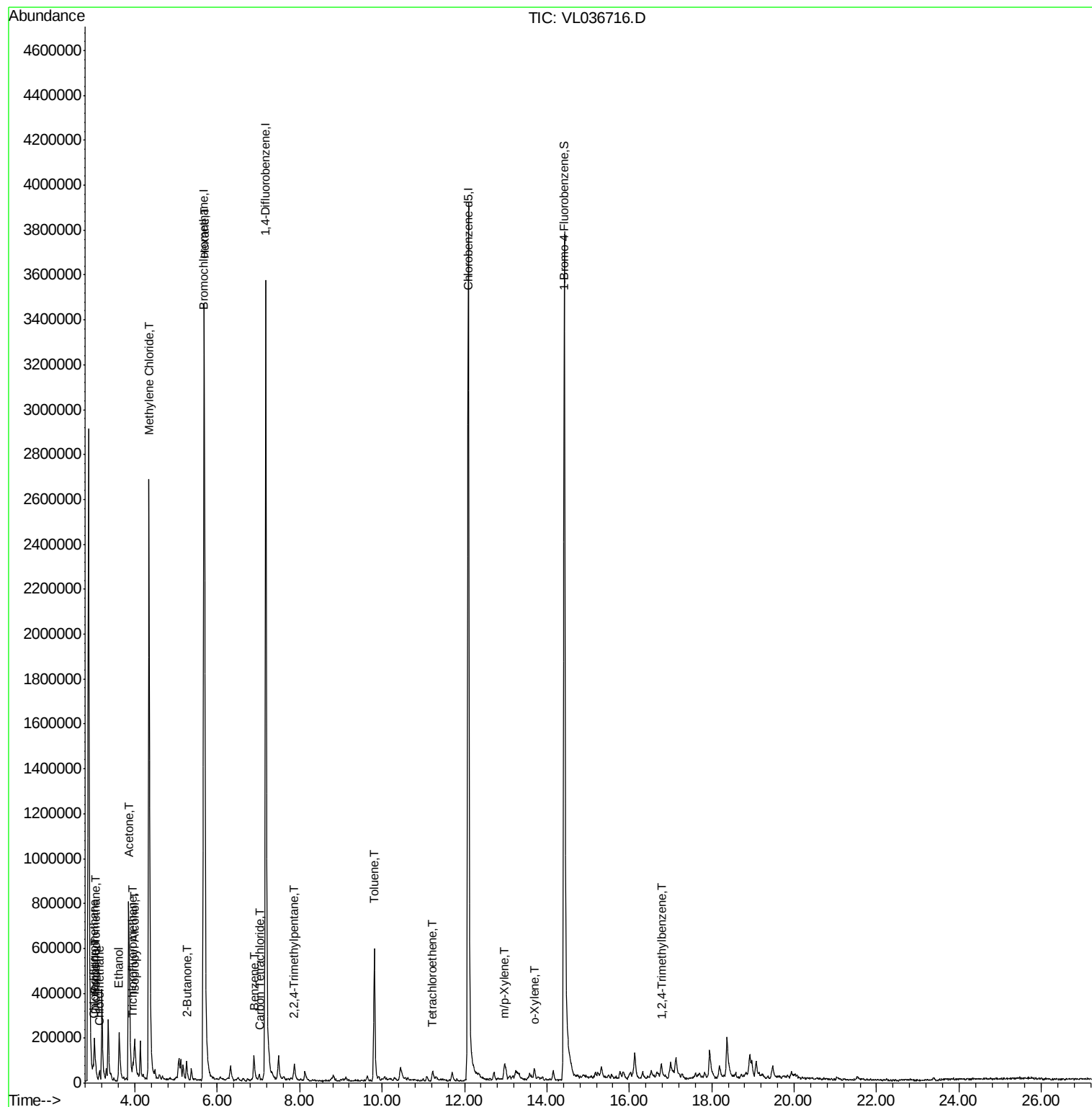
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL040621\
Data File : VL036716.D
Acq On : 7 Apr 2021 3:02
Operator : SY/AP
Sample : M1929-05
Misc : 400mL/MSVOA L
ALS Vial : 6 Sample Multiplier: 1

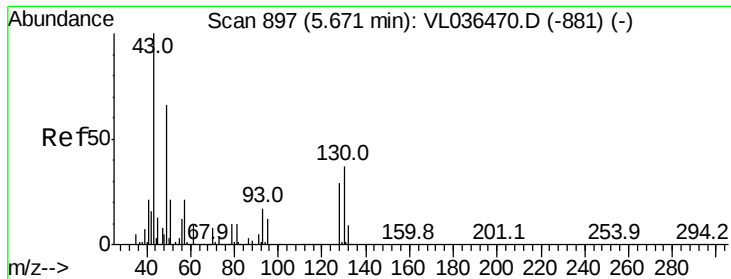
Instrument :
MSVOA_L
ClientSampleId :
FS-OA-04

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Quant Time: Apr 08 12:27:28 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: VL036716.D

Acq: 7 Apr 2021 3:02

Instrument :

MSVOA_L

ClientSampleId :

FS-OA-04

Tot Ion: 49 Resp: 1227774

Ion Ratio Lower Upper

49 100

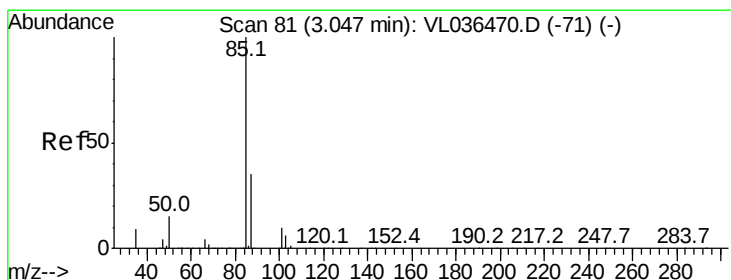
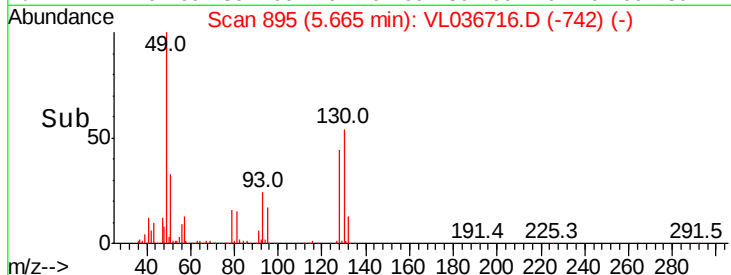
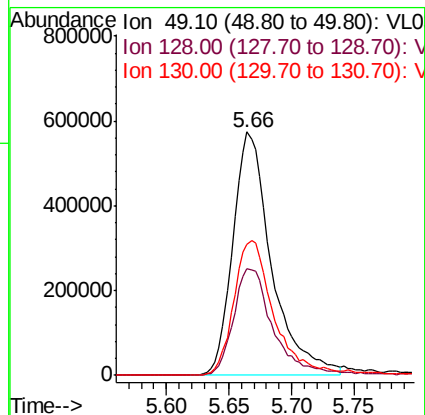
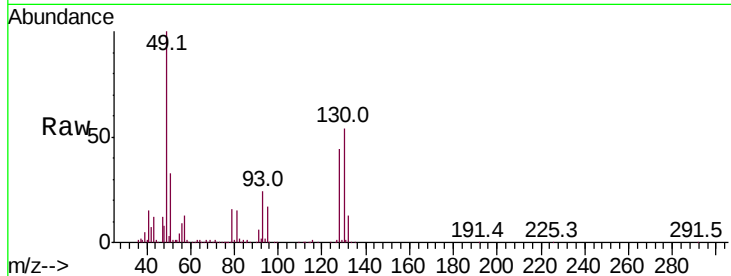
128 46.3 23.5 70.6

130 59.5 29.1 87.4

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#2

Dichlorodifluoromethane

Concen: 0.234 ppbv

RT: 3.05 min Scan# 81

Delta R.T. -0.00 min

Lab File: VL036716.D

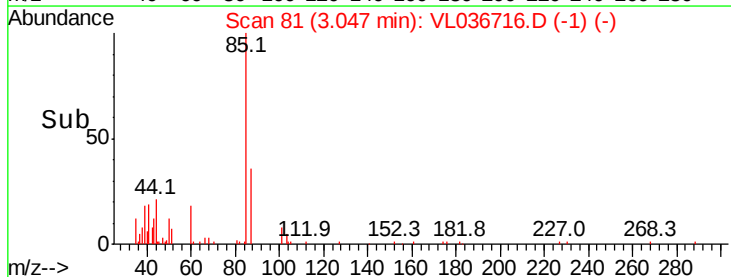
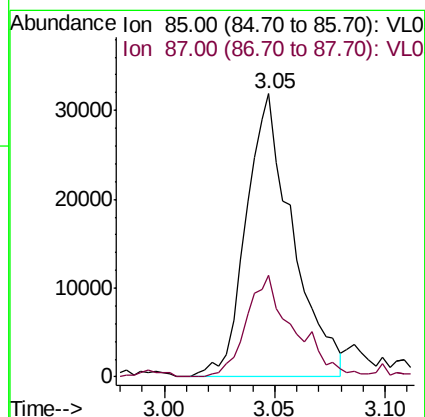
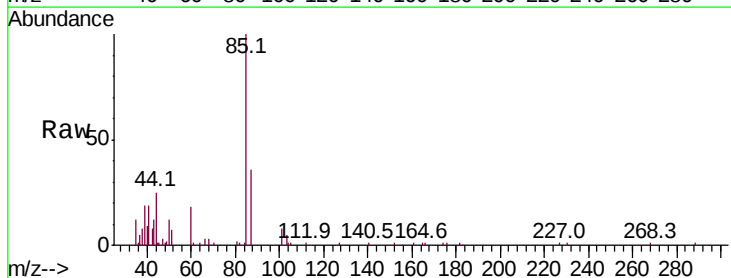
Acq: 7 Apr 2021 3:02

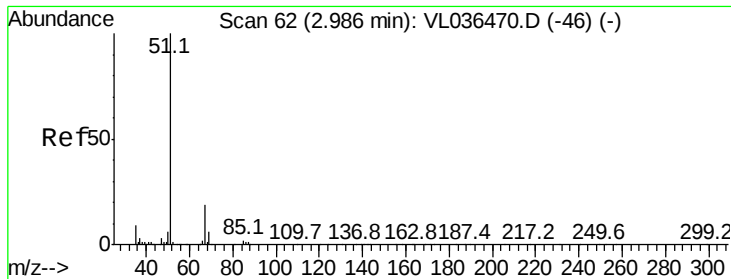
Tgt Ion: 85 Resp: 46791

Ion Ratio Lower Upper

85 100

87 35.8 27.8 41.8





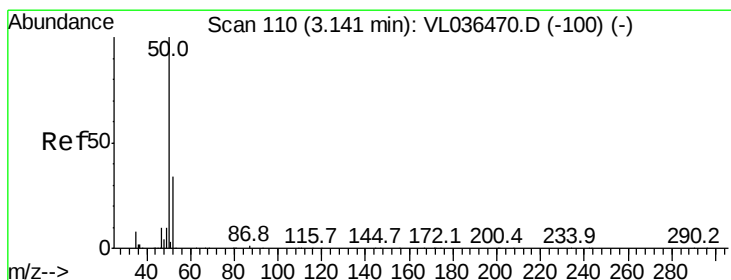
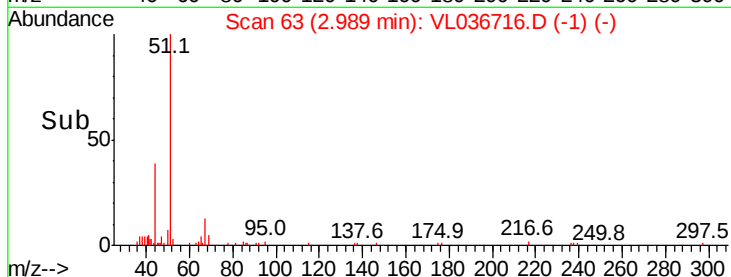
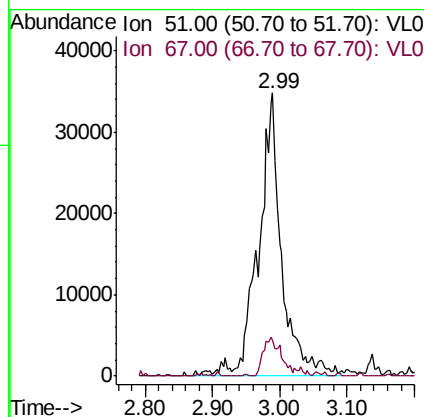
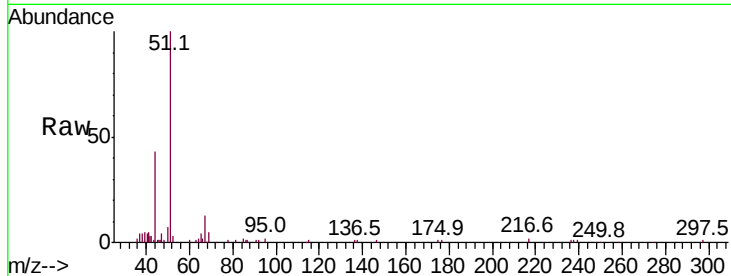
#3
Chlorodifluoromethane
Concen: 0.363 ppbv
RT: 2.99 min Scan# 63
Delta R.T. 0.00 min
Lab File: VL036716.D
Acq: 7 Apr 2021 3:02

Instrument :
MSVOA_L
ClientSampleId :
FS-OA-04

Tot Ion	Ratio	Resp	Lower	Upper
51	100	83237		
67	12.1		14.7	22.1#

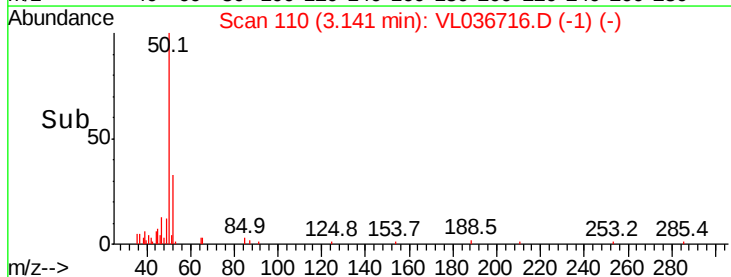
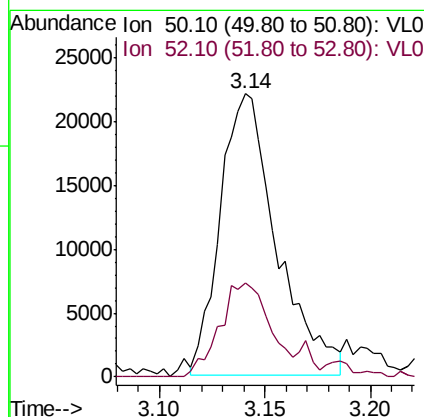
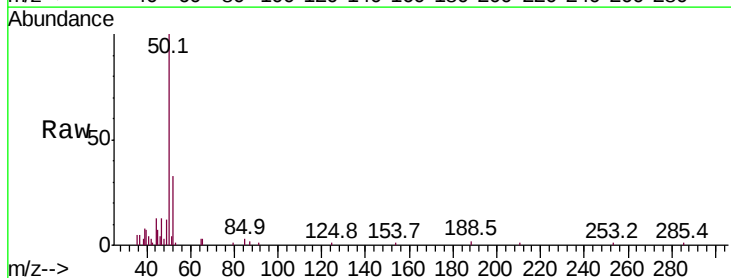
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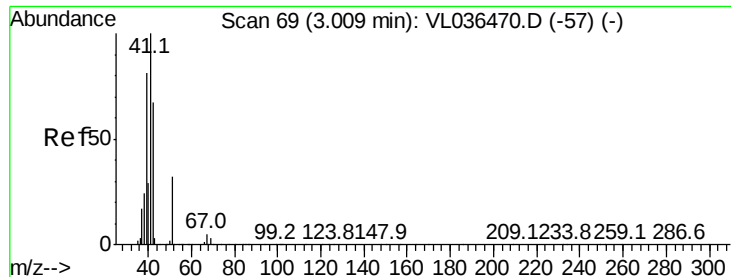
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#4
Chloromethane
Concen: 0.508 ppbv
RT: 3.14 min Scan# 110
Delta R.T. -0.00 min
Lab File: VL036716.D
Acq: 7 Apr 2021 3:02

Tgt Ion	Ratio	Resp	Lower	Upper
50	100	41149		
52	32.8		27.0	40.6





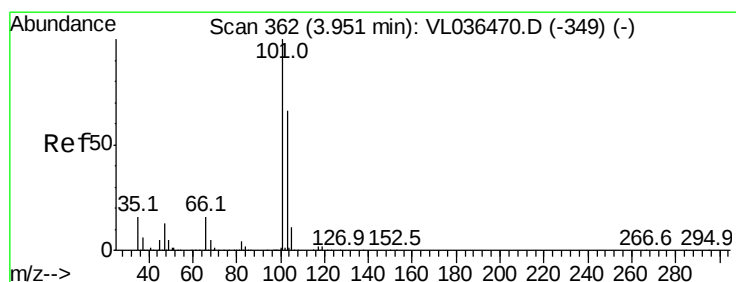
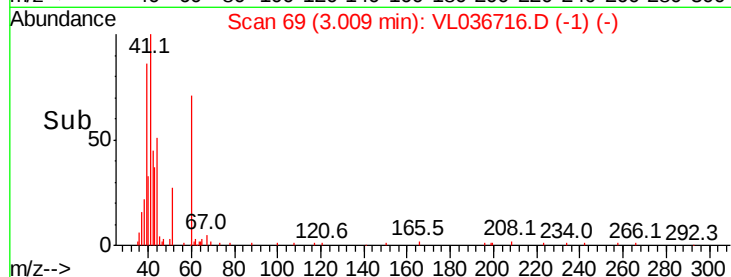
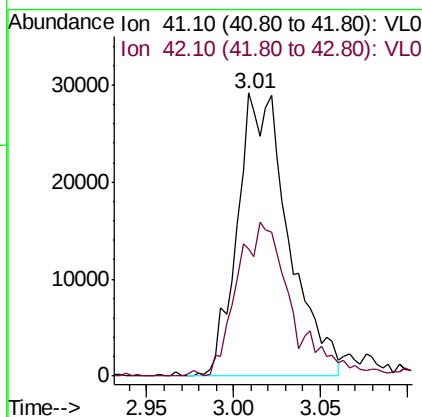
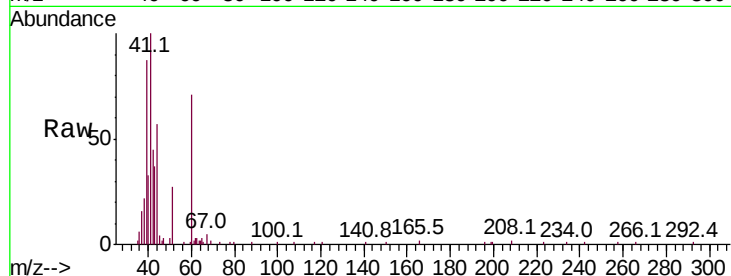
#9
 Propene
 Concen: 0.818 ppbv m
 RT: 3.01 min Scan# 69
 Delta R.T. -0.00 min
 Lab File: VL036716.D
 Acq: 7 Apr 2021 3:02

Instrument :
 MSVOA_L
 ClientSampleId :
 FS-OA-04

Tot Ion: 41 Resp: 59817
 Ion Ratio Lower Upper
 41 100
 42 58.5 57.0 85.4

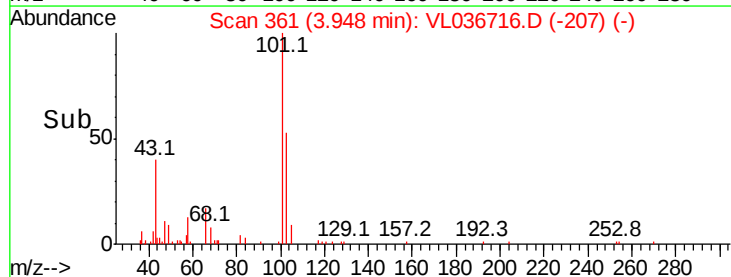
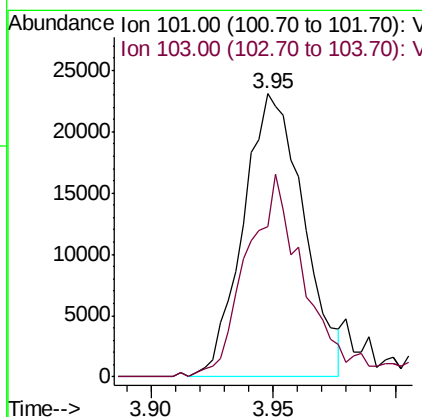
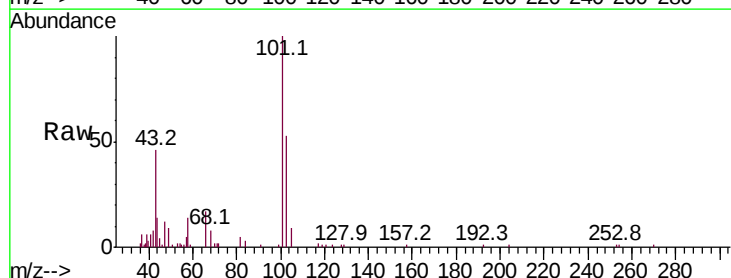
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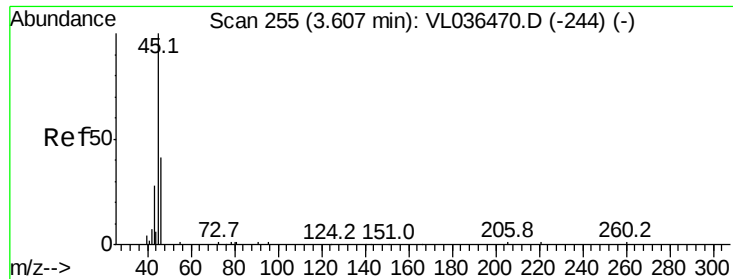
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#11
 Trichlorofluoromethane
 Concen: 0.195 ppbv
 RT: 3.95 min Scan# 361
 Delta R.T. -0.00 min
 Lab File: VL036716.D
 Acq: 7 Apr 2021 3:02

Tgt Ion: 101 Resp: 39720
 Ion Ratio Lower Upper
 101 100
 103 52.9 52.5 78.7





#13

Ethanol

Concen: 33.862 ppbv

RT: 3.62 min Scan# 259

Delta R.T. 0.01 min

Lab File: VL036716.D

Acq: 7 Apr 2021 3:02

Instrument :

MSVOA_L

ClientSampleId :

FS-OA-04

Tot Ion: 45 Resp: 294887

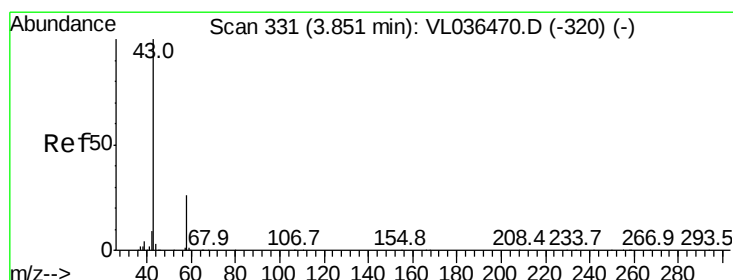
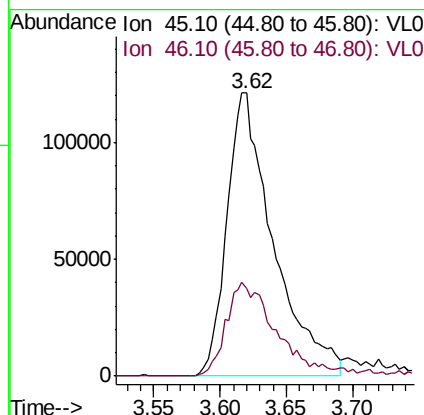
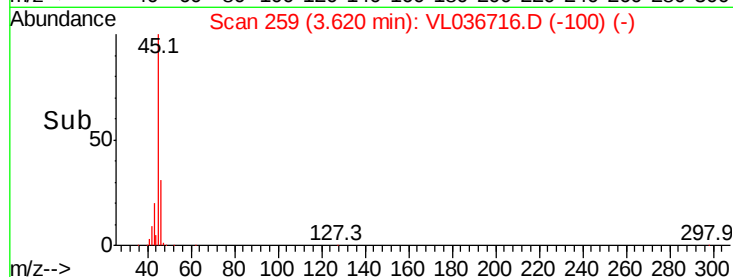
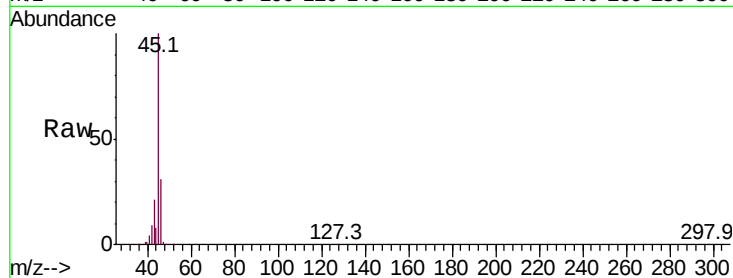
Ion Ratio Lower Upper

45 100

46 37.2 16.6 66.2

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#15

Acetone

Concen: 9.064 ppbv m

RT: 3.85 min Scan# 330

Delta R.T. -0.00 min

Lab File: VL036716.D

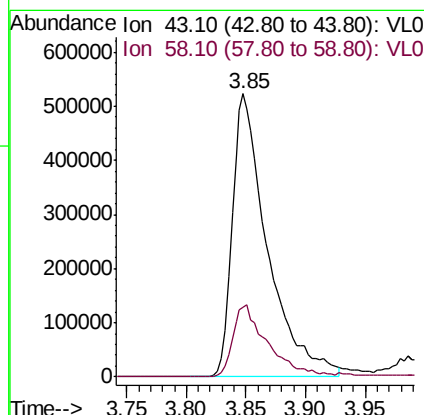
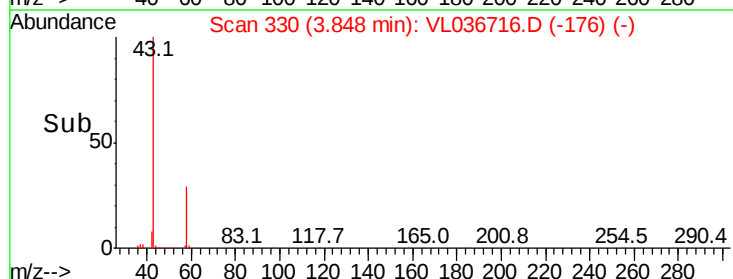
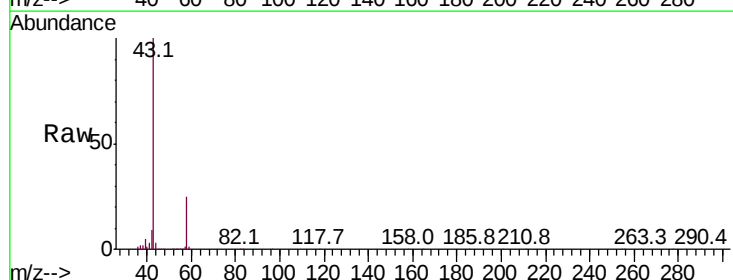
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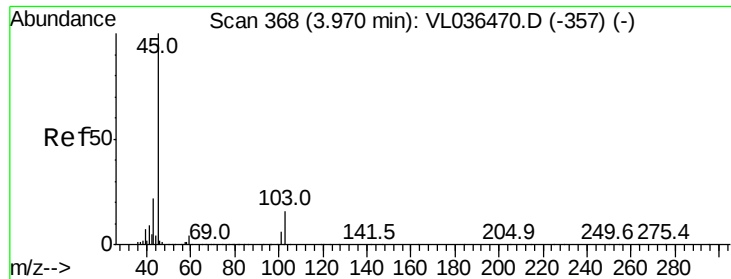
Tgt Ion: 43 Resp: 1095257

Ion Ratio Lower Upper

43 100

58 26.5 21.2 31.8





#19

Isopropyl Alcohol

Concen: 4.081 ppbv m

RT: 3.99 min Scan# 373

Delta R.T. 0.02 min

Lab File: VL036716.D

Acq: 7 Apr 2021 3:02

Instrument :

MSVOA_L

ClientSampled :

FS-OA-04

Tot Ion: 45 Resp: 271289

Ion Ratio Lower Upper

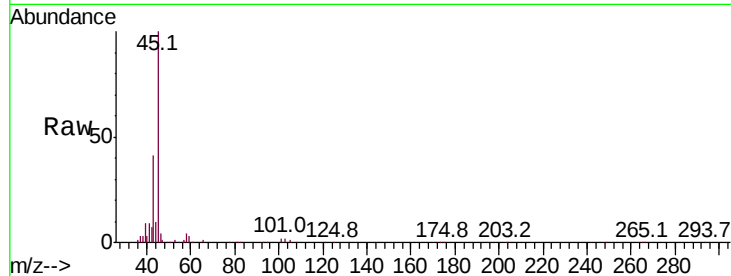
45 100

58 0.0 2.9 4.3#

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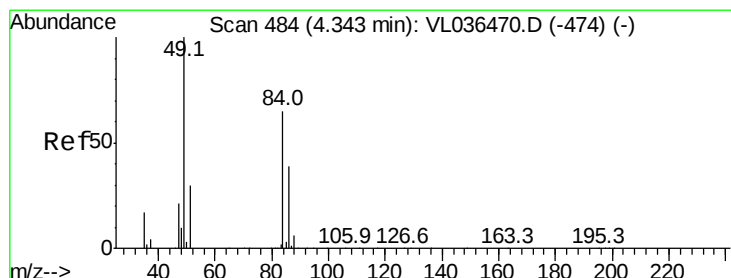
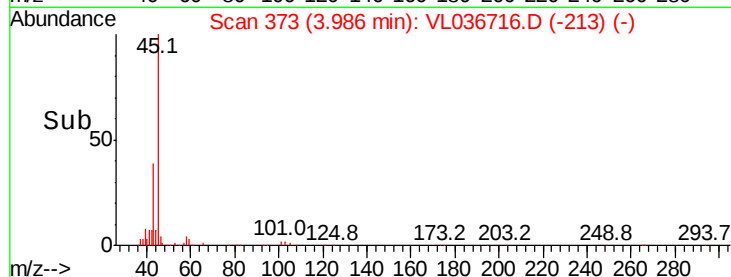
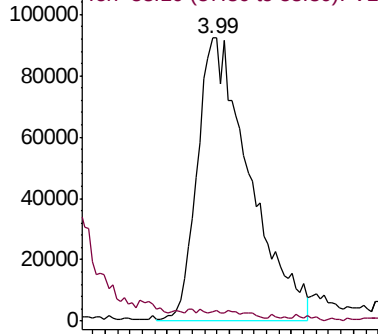
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Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#20

Methylene Chloride

Concen: 18.510 ppbv

RT: 4.34 min Scan# 484

Delta R.T. -0.00 min

Lab File: VL036716.D

Acq: 7 Apr 2021 3:02

Tgt Ion: 84 Resp: 1047285

Ion Ratio Lower Upper

84 100

49 159.1 122.9 184.3

51 48.1 36.9 55.3

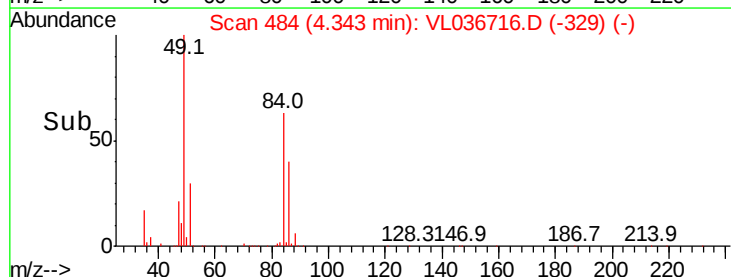
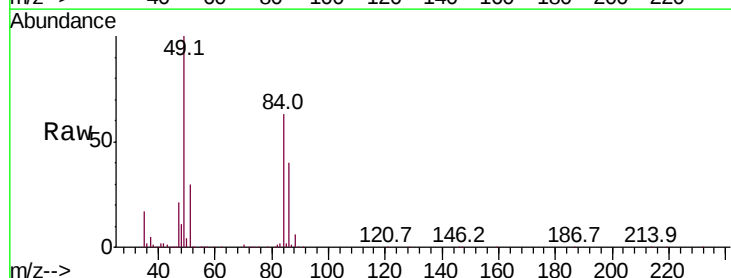
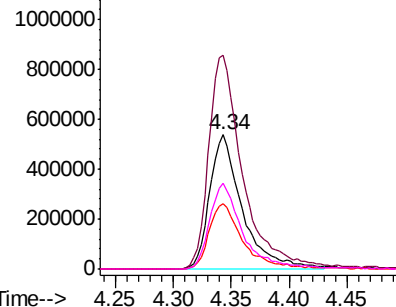
86 64.1 48.2 72.4

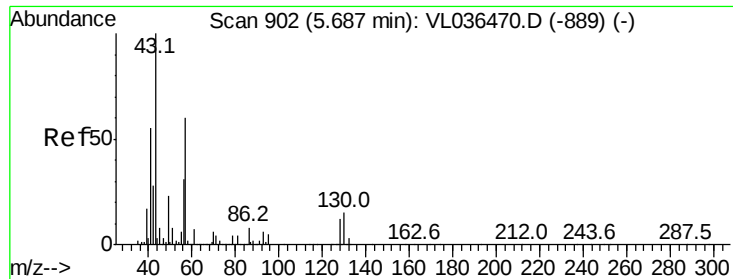
Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0





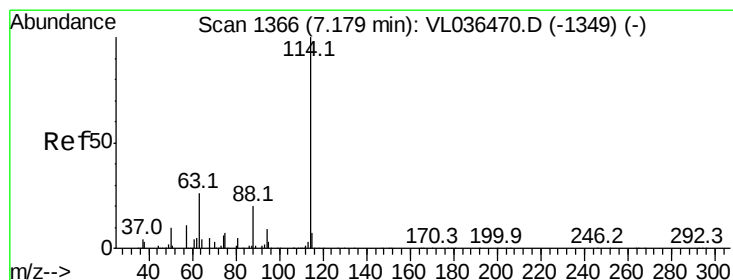
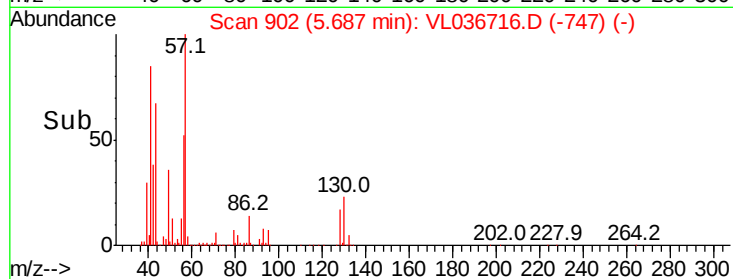
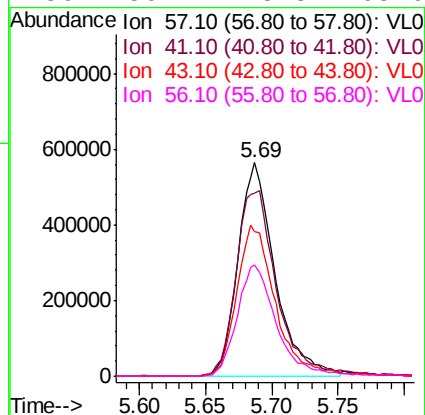
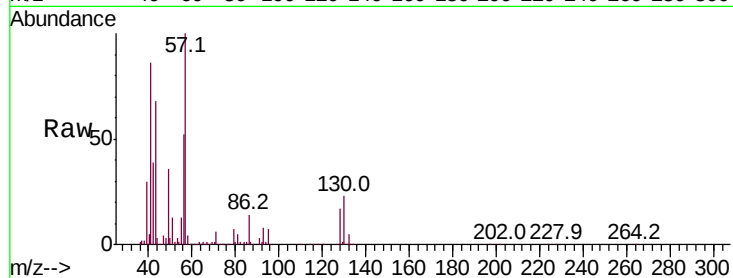
#26
Hexane
Concen: 8.161 ppbv
RT: 5.69 min Scan# 902
Delta R.T. -0.00 min
Lab File: VL036716.D
Acq: 7 Apr 2021 3:02

Instrument :
MSVOA_L
ClientSampleId :
FS-OA-04

Tot Ion: 57 Resp: 1087983
Ion Ratio Lower Upper
57 100
41 97.8 77.2 115.8
43 74.6 173.8 260.6#
56 56.2 43.8 65.6

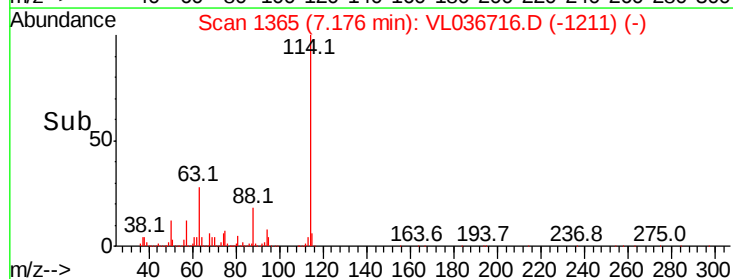
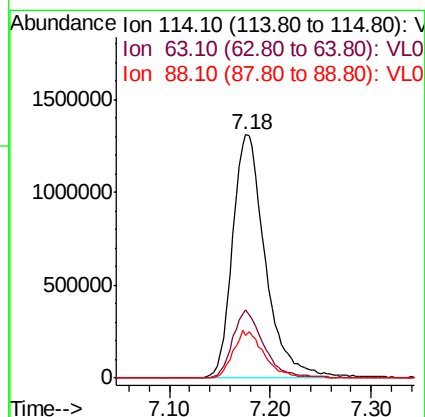
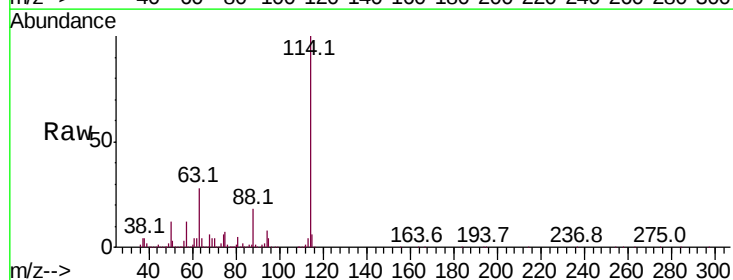
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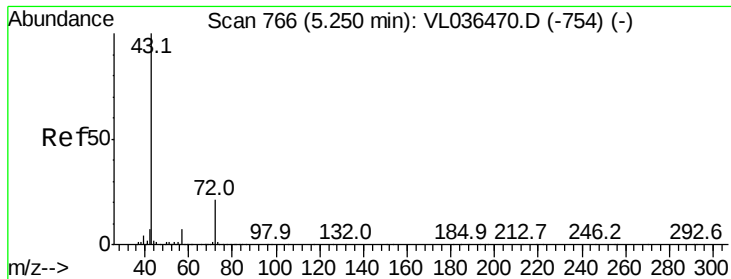
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#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.18 min Scan# 1365
Delta R.T. -0.00 min
Lab File: VL036716.D
Acq: 7 Apr 2021 3:02

Tgt Ion: 114 Resp: 2961577
Ion Ratio Lower Upper
114 100
63 26.7 22.4 33.6
88 18.7 15.4 23.0





#34

2-Butanone

Concen: 0.829 ppbv m

RT: 5.25 min Scan# 767

Delta R.T. 0.00 min

Lab File: VL036716.D

Acq: 7 Apr 2021 3:02

Instrument :

MSVOA_L

ClientSampleId :

FS-OA-04

Tot Ion: 43 Resp: 119870

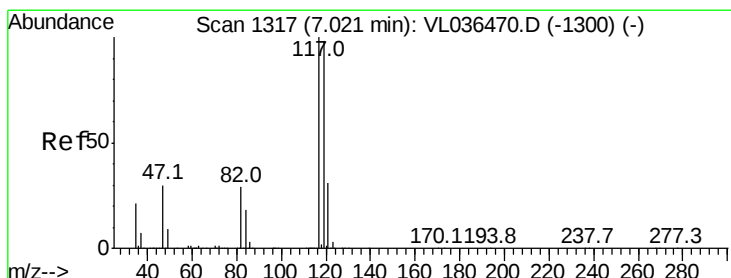
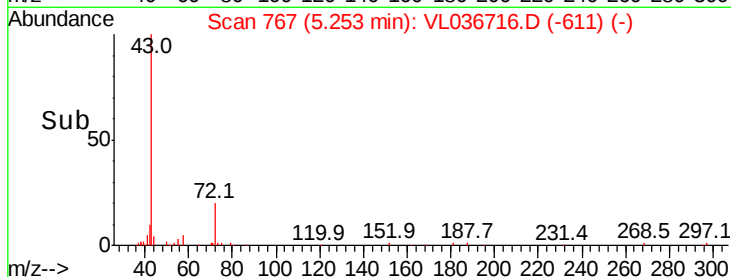
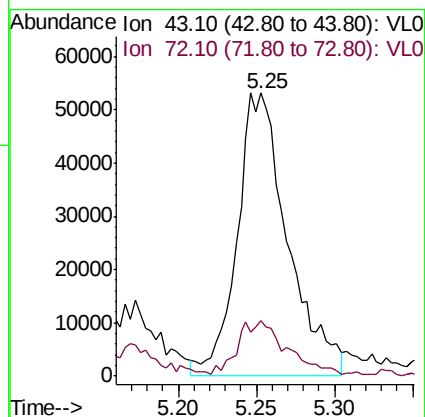
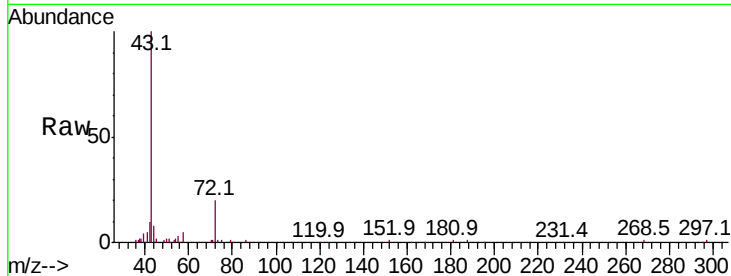
Ion Ratio Lower Upper

43 100

72 19.8 17.0 25.6

Manual Integrations
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#35

Carbon Tetrachloride

Concen: 0.059 ppbv m

RT: 7.02 min Scan# 1316

Delta R.T. -0.00 min

Lab File: VL036716.D

Acq: 7 Apr 2021 3:02

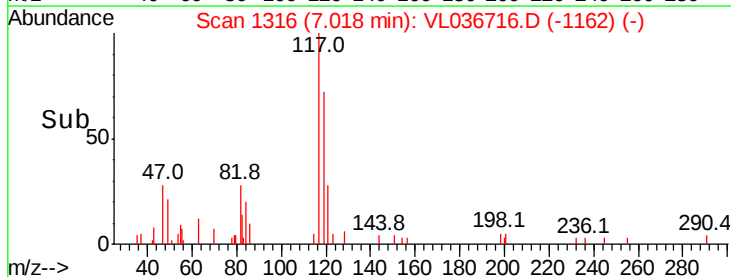
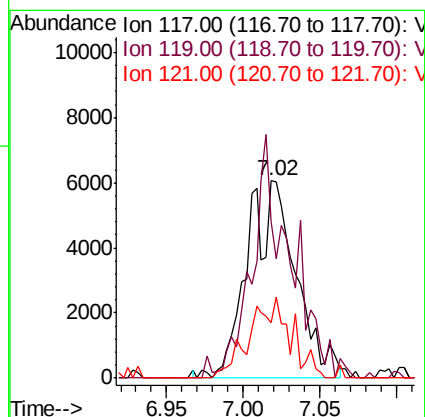
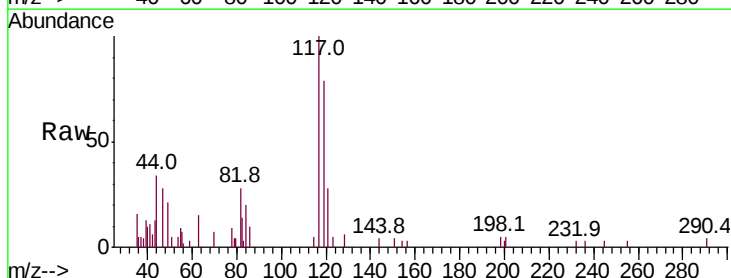
Tgt Ion: 117 Resp: 13356

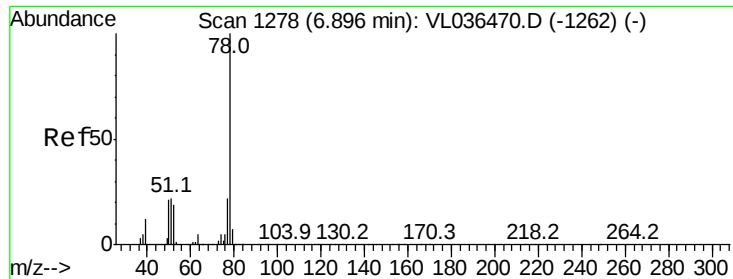
Ion Ratio Lower Upper

117 100

119 79.4 78.2 117.2

121 27.9 24.5 36.7





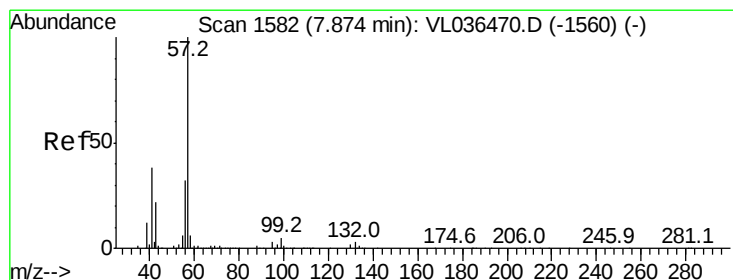
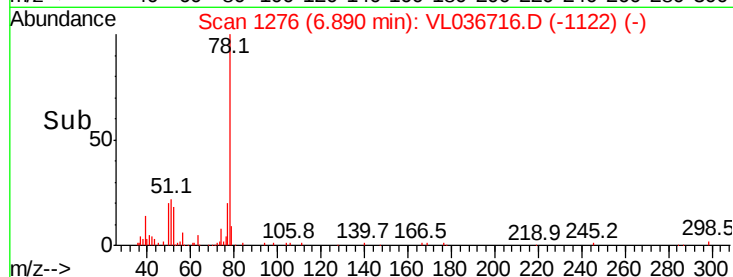
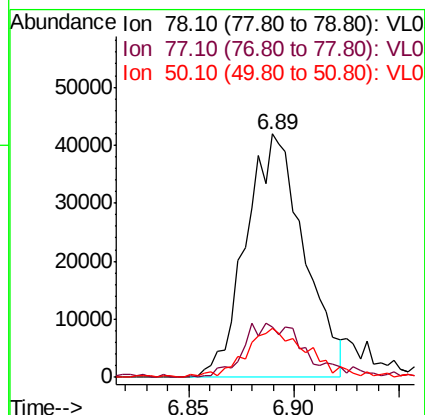
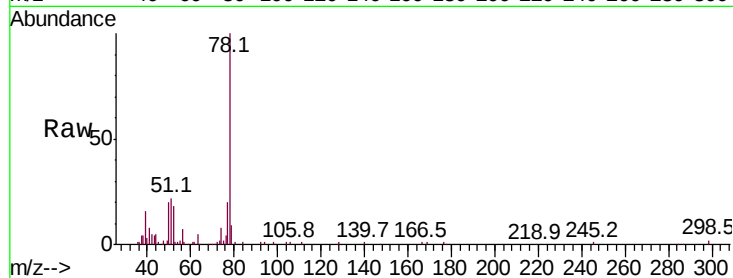
#36
Benzene
Concen: 0.294 ppbv
RT: 6.89 min Scan# 1276
Delta R.T. -0.01 min
Lab File: VL036716.D
Acq: 7 Apr 2021 3:02

Instrument :
MSVOA_L
ClientSampled :
FS-OA-04

Tot Ion	Ratio	Lower	Upper
78	100		
77	19.9	18.0	27.0
50	18.1	16.5	24.7

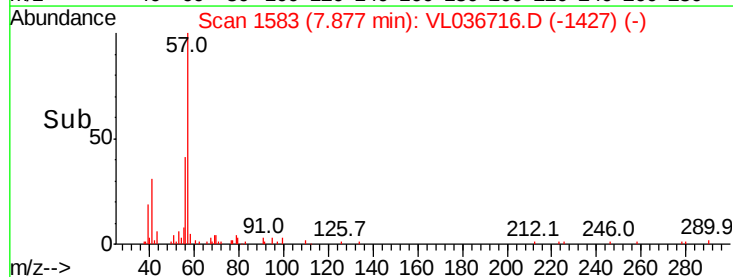
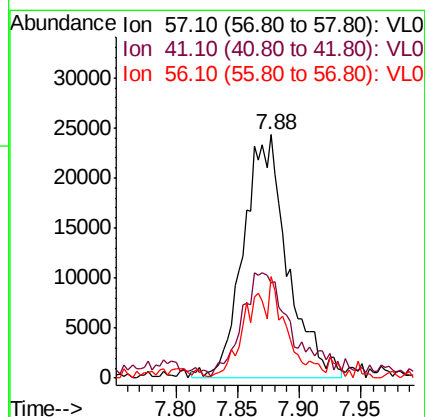
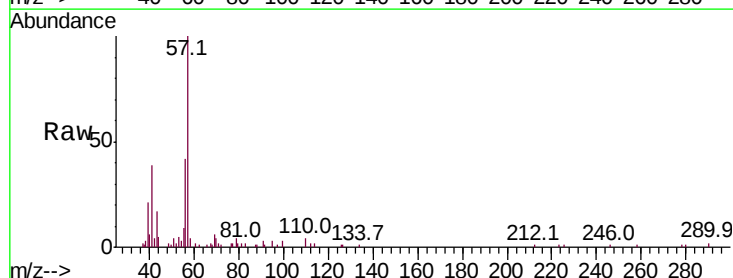
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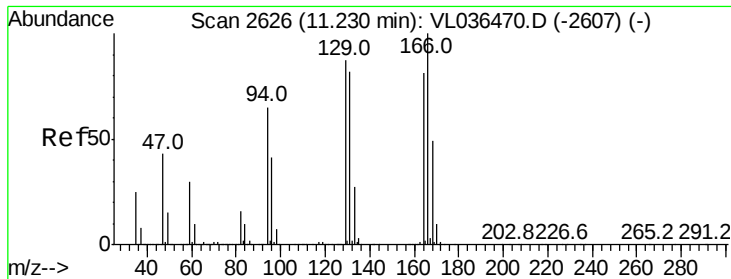
MMDadoda
4/12/2021 11:11:46 AM



#44
2,2,4-Trimethylpentane
Concen: 0.126 ppbv m
RT: 7.88 min Scan# 1583
Delta R.T. 0.00 min
Lab File: VL036716.D
Acq: 7 Apr 2021 3:02

Tgt Ion	Ratio	Lower	Upper
57	100		
41	55.5	28.8	43.2#
56	0.0	26.1	39.1#





#52

Tetrachloroethene

Concen: 0.078 ppbv m

RT: 11.23 min Scan# 2627

Delta R.T. 0.00 min

Lab File: VL036716.D

Acq: 7 Apr 2021 3:02

Instrument :

MSVOA_L

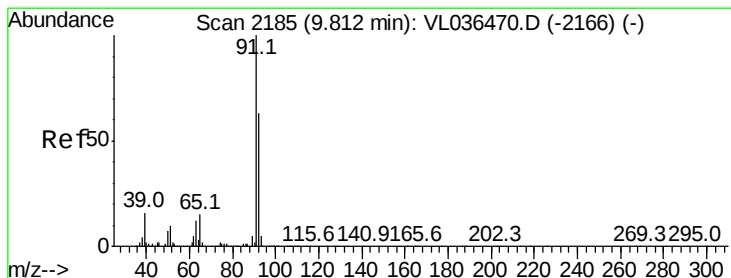
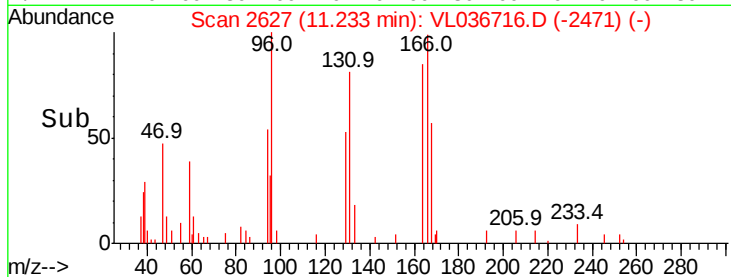
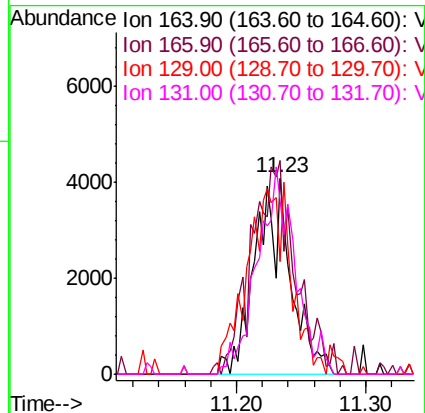
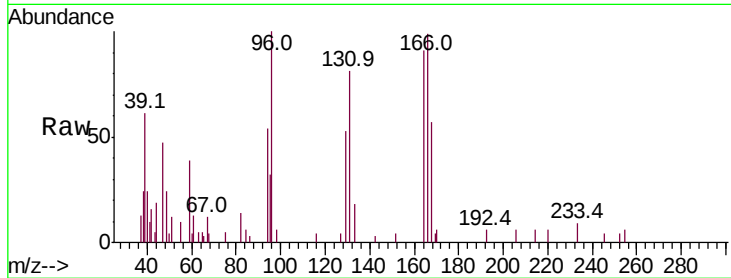
ClientSampleId :

FS-OA-04

Tot Ion:	164	Resp:	7831
Ion Ratio	Lower	Upper	
164	100		
166	109.0	98.3	147.5
129	57.6	85.8	128.8#
131	88.9	80.9	121.3

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#53

Toluene

Concen: 1.574 ppbv

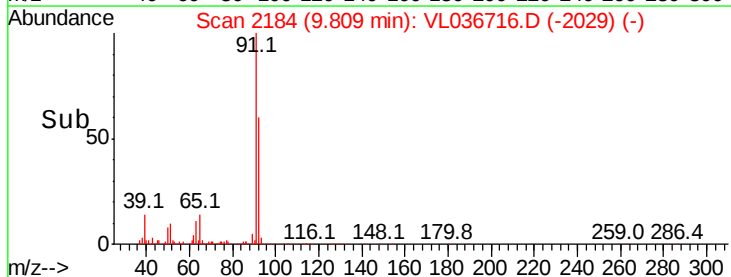
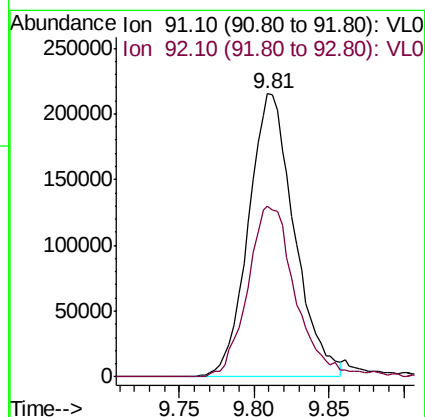
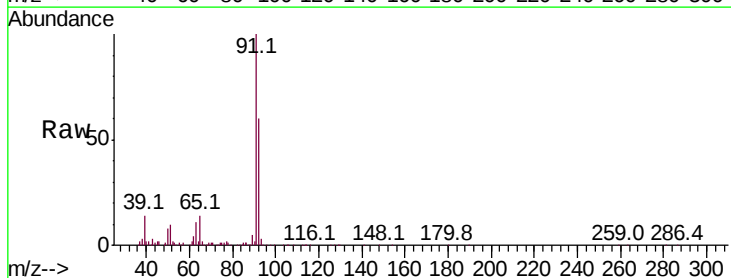
RT: 9.81 min Scan# 2184

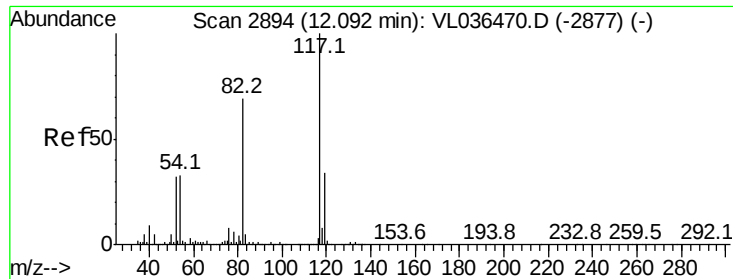
Delta R.T. -0.00 min

Lab File: VL036716.D

Acq: 7 Apr 2021 3:02

Tgt Ion:	91	Resp:	457847
Ion Ratio	Lower	Upper	
91	100		
92	64.1	48.8	73.2





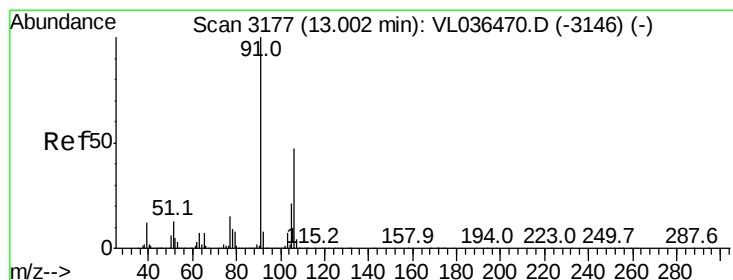
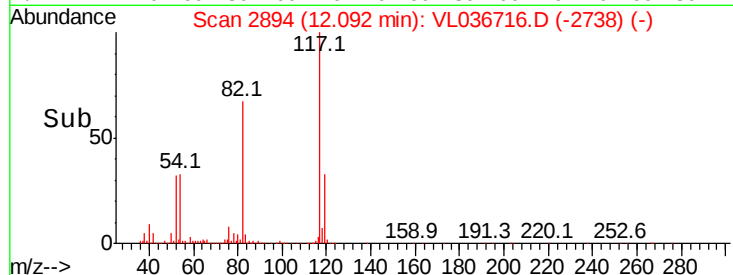
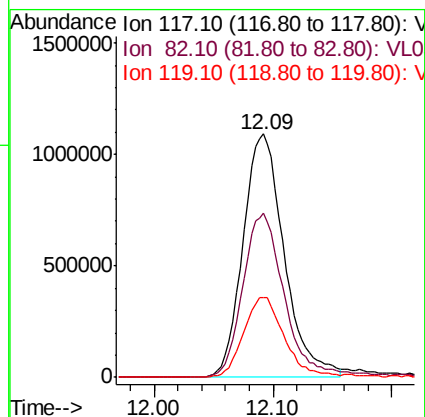
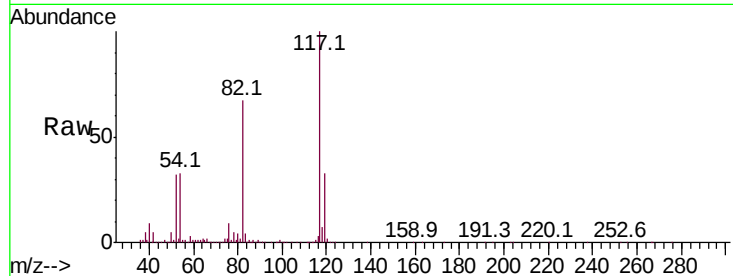
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.09 min Scan# 2894
Delta R.T. -0.00 min
Lab File: VL036716.D
Acq: 7 Apr 2021 3:02

Instrument :
MSVOA_L
ClientSampleId :
FS-OA-04

Tot Ion	Ratio	Lower	Upper
117	100		
82	69.6	57.4	86.0
119	33.8	47.4	71.0#

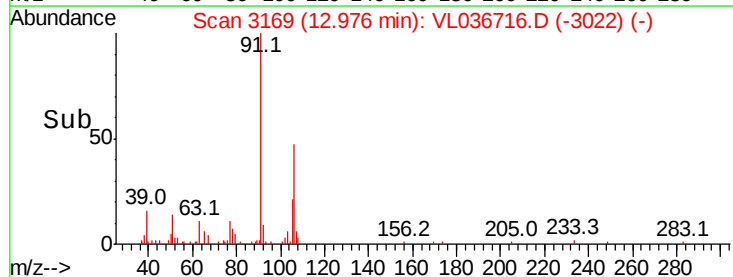
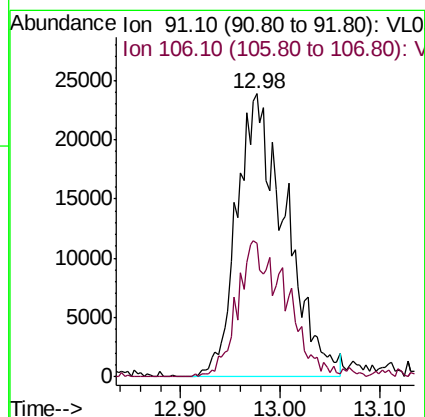
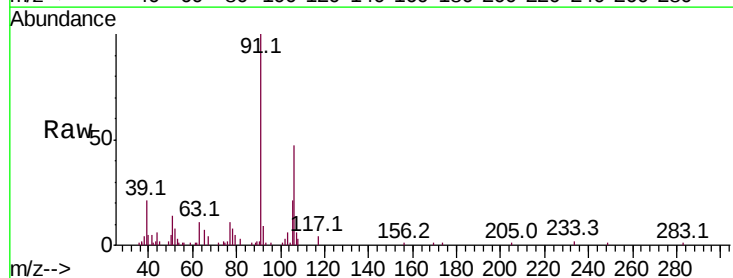
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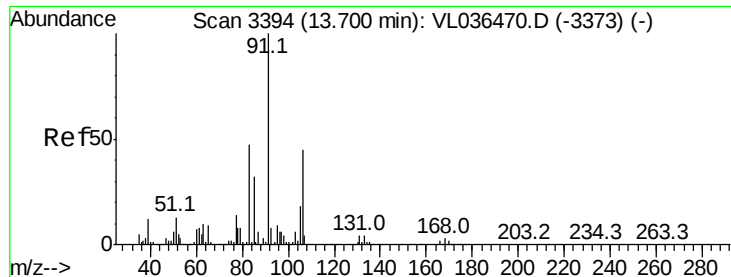
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4/12/2021 11:11:46 AM



#59
m/p-Xylene
Concen: 0.242 ppbv m
RT: 12.98 min Scan# 3169
Delta R.T. -0.03 min
Lab File: VL036716.D
Acq: 7 Apr 2021 3:02

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





#60

o-Xylene

Concen: 0.112 ppbv

RT: 13.70 min Scan# 3393

Delta R.T. -0.00 min

Lab File: VL036716.D

Acq: 7 Apr 2021 3:02

Instrument :

MSVOA_L

ClientSampleId :

FS-OA-04

Tot Ion: 91 Resp: 36007

Ion Ratio Lower Upper

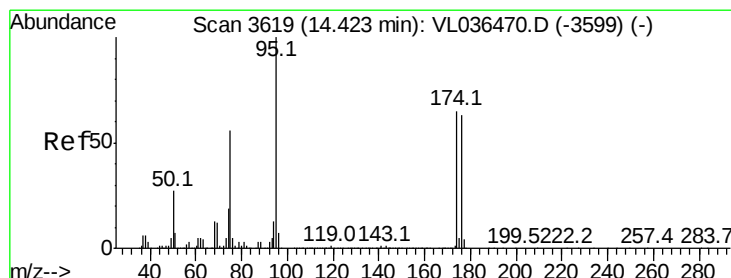
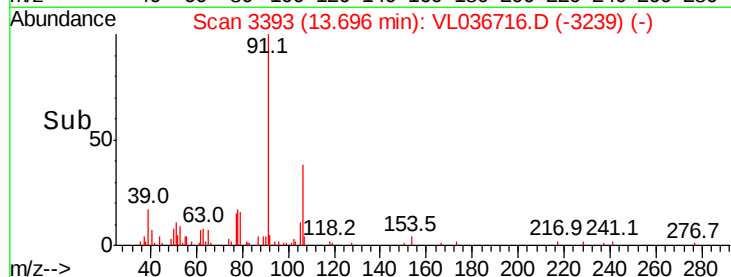
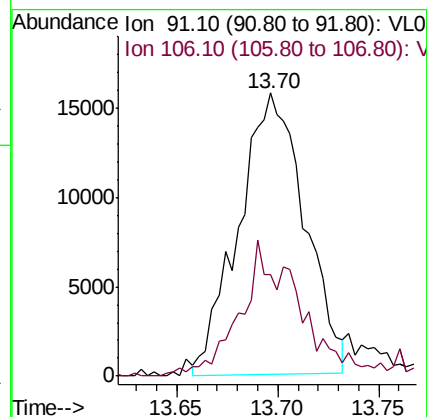
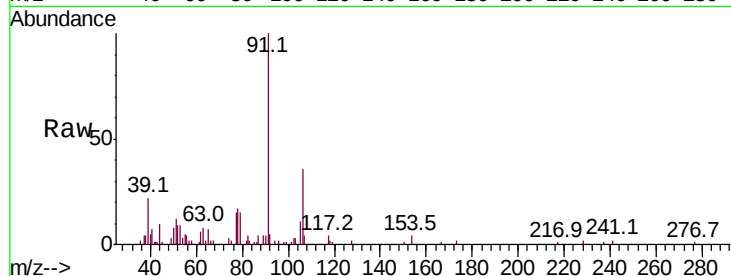
91 100

106 45.9 22.3 66.9

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#68

1-Bromo-4-Fluorobenzene

Concen: 9.694 ppbv

RT: 14.42 min Scan# 3619

Delta R.T. -0.00 min

Lab File: VL036716.D

Acq: 7 Apr 2021 3:02

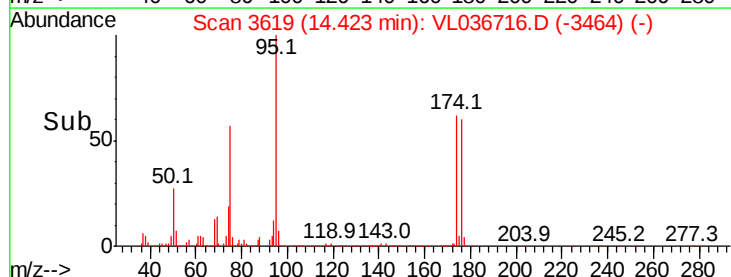
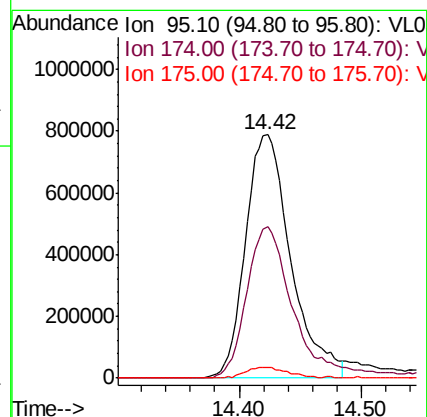
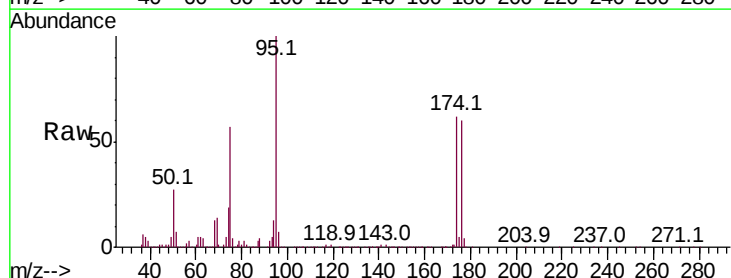
Tgt Ion: 95 Resp: 2024946

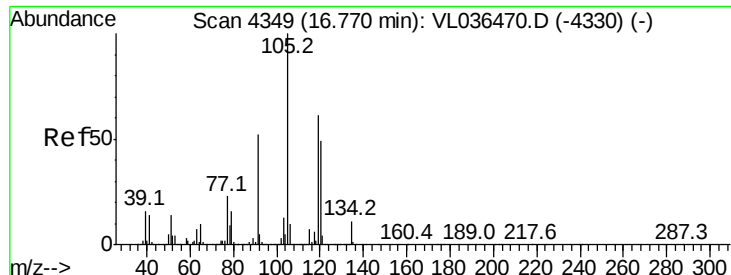
Ion Ratio Lower Upper

95 100

174 67.2 51.0 76.6

175 4.6 3.9 5.9





#74

1,2,4-Trimethylbenzene

Concen: 0.120 ppbv m

RT: 16.77 min Scan# 4350

Delta R.T. 0.00 min

Lab File: VL036716.D

Acq: 7 Apr 2021 3:02

Instrument :

MSVOA_L

ClientSampleId :

FS-OA-04

Tot Ion	Ratio	Resp Lower	Upper
105	100		
120	31.6	39.2	58.8#
91	17.8	42.6	64.0#
77	13.6	18.6	28.0#

Manual Integrations
APPROVED

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4/12/2021 11:11:46 AM

