

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL060221\
 Data File : VL037116.D
 Acq On : 3 Jun 2021 00:53
 Operator : SY/AP
 Sample : M2548-15
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SGS-6A

Manual Integrations
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Quant Time: Jun 06 20:27:53 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL051821AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue May 18 2021
 QLast Update : Tue May 18 12:00:15 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1224661	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.16	114	3785139	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.07	117	3368815	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.40	95	2456840	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	52298	0.252	ppbv	99
9) Propene	3.01	41	20853m	0.260	ppbv	
11) Trichlorofluoromethane	3.94	101	52240	0.272	ppbv	94
13) Ethanol	3.60	45	253415	23.641	ppbv	96
15) Acetone	3.84	43	1497043	11.934	ppbv	93
17) tert-Butyl alcohol	4.30	59	36994m	0.322	ppbv	
19) Isopropyl Alcohol	3.97	45	1271673	18.859	ppbv #	37
20) Methylene Chloride	4.34	84	97556	1.451	ppbv	94
26) Hexane	5.67	57	94572	0.614	ppbv #	42
27) Carbon Disulfide	4.54	76	34881	0.225	ppbv #	69
29) Chloroform	5.74	83	134484	0.618	ppbv	99
34) 2-Butanone	5.24	43	71581	0.519	ppbv #	84
35) Carbon Tetrachloride	7.01	117	20375m	0.081	ppbv	
38) Trichloroethene	7.82	130	426240m	3.056	ppbv	
41) Tetrahydrofuran	6.02	42	105743m	1.347	ppbv	
50) 4-Methyl-2-Pentanone	8.75	43	26635m	0.117	ppbv	
52) Tetrachloroethene	11.20	164	39427m	0.304	ppbv	
53) Toluene	9.79	91	82877	0.214	ppbv	96
59) m/p-Xylene	12.95	91	103124m	0.262	ppbv	
60) o-Xylene	13.68	91	49090m	0.131	ppbv	
74) 1,2,4-Trimethylbenzene	16.75	105	57295m	0.133	ppbv	
79) Naphthalene	22.20	128	36512m	0.108	ppbv	

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

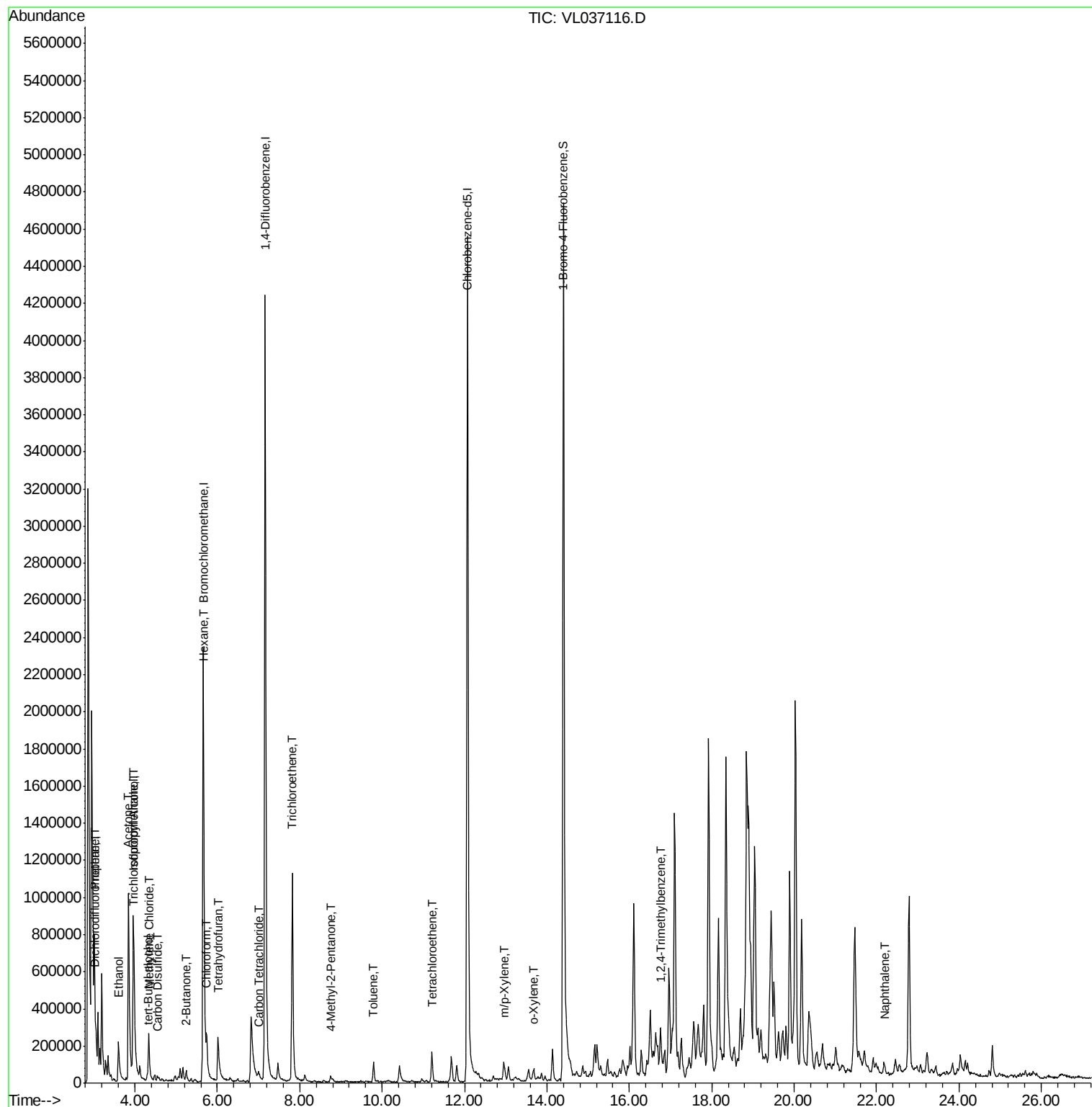
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL060221\
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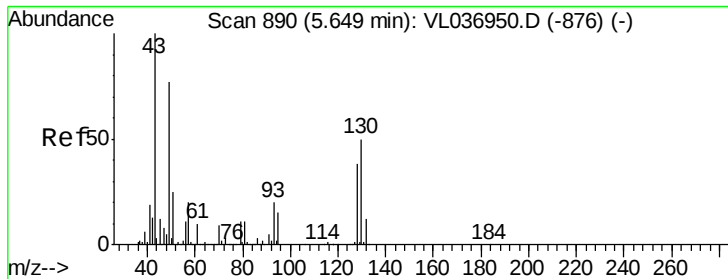
Instrument :
MSVOA_L
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Quant Time: Jun 06 20:27:53 2021
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL051821AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue May
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#1

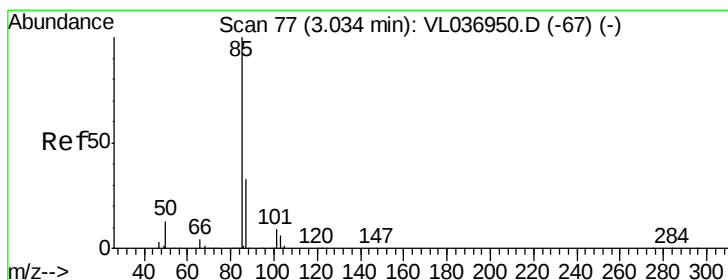
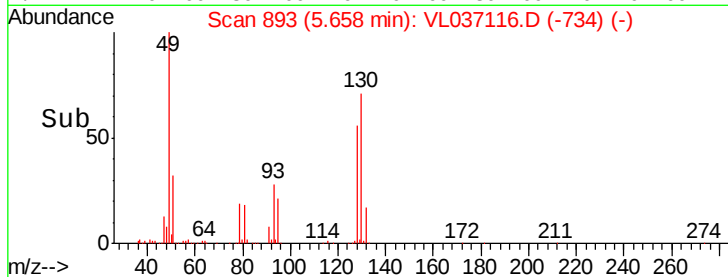
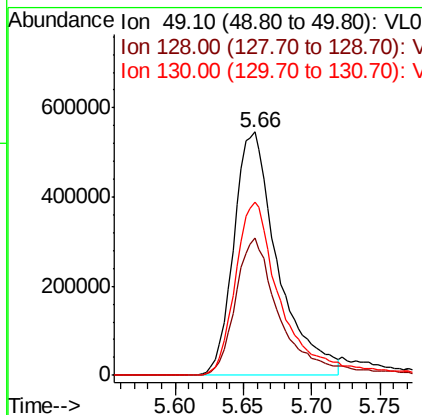
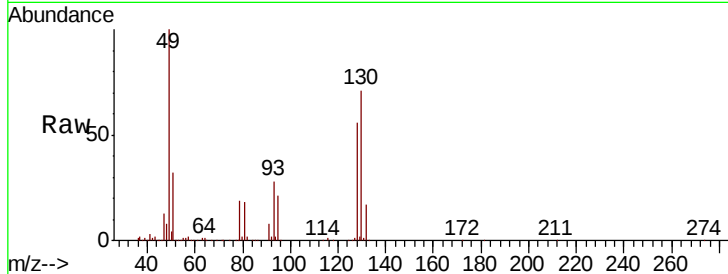
Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.66 min Scan# 893
 Delta R.T. 0.01 min
 Lab File: VL037116.D
 Acq: 3 Jun 2021 00:53

Instrument :
 MSVOA_L
 ClientSampleId :
 SGS-6A

Tot Ion	Ratio	Lower	Upper
49	100		
128	59.0	26.9	80.7
130	76.3	33.8	101.4

Manual Integrations
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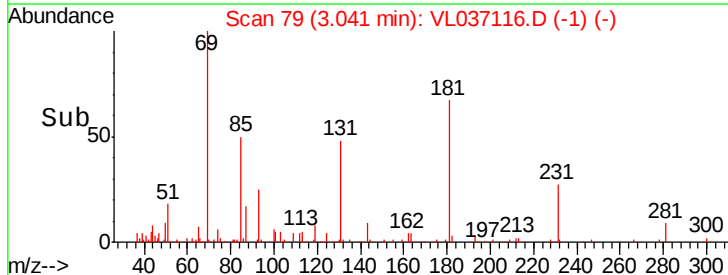
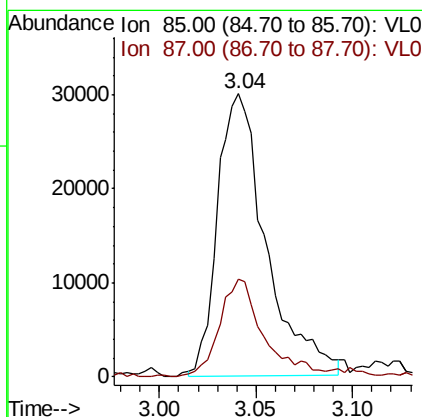
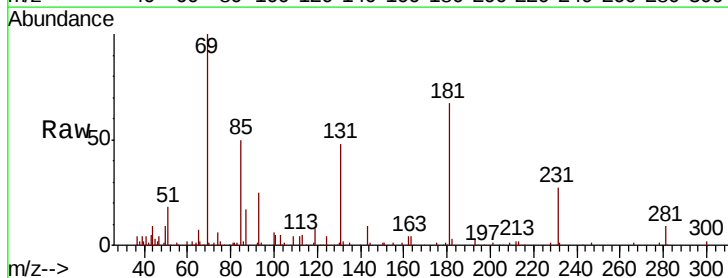
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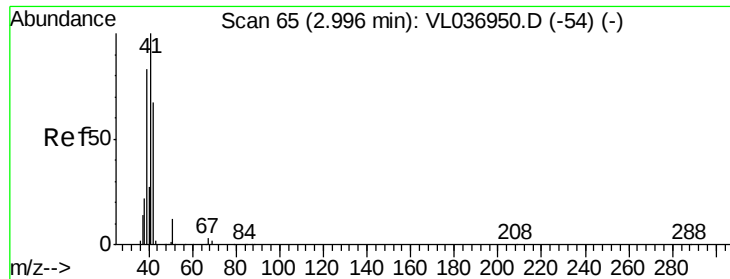


#2

Dichlorodifluoromethane
 Concen: 0.252 ppbv
 RT: 3.04 min Scan# 79
 Delta R.T. 0.01 min
 Lab File: VL037116.D
 Acq: 3 Jun 2021 00:53

Tgt Ion	Ratio	Lower	Upper
85	100		
87	33.9	26.6	39.8





#9

Propene

Concen: 0.260 ppbv m

RT: 3.01 min Scan# 70

Delta R.T. 0.02 min

Lab File: VL037116.D

Acq: 3 Jun 2021 00:53

Instrument :

MSVOA_L

ClientSampleId :

SGS-6A

Tot Ion: 41 Resp: 20853

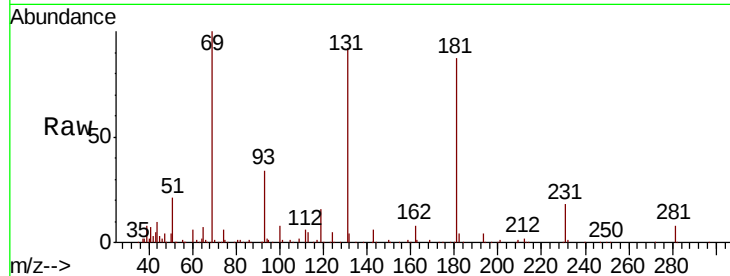
Ion Ratio Lower Upper

41 100

42 633.8 53.9 80.9#

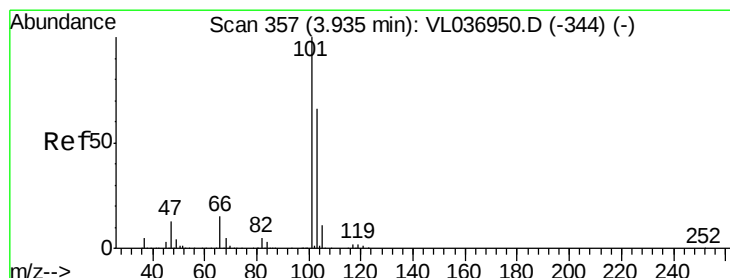
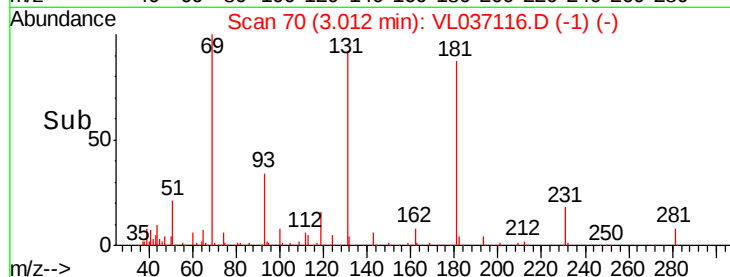
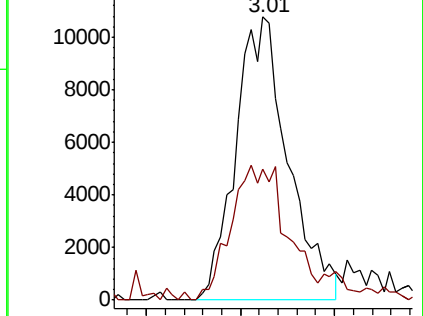
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Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#11

Trichlorofluoromethane

Concen: 0.272 ppbv

RT: 3.94 min Scan# 360

Delta R.T. 0.01 min

Lab File: VL037116.D

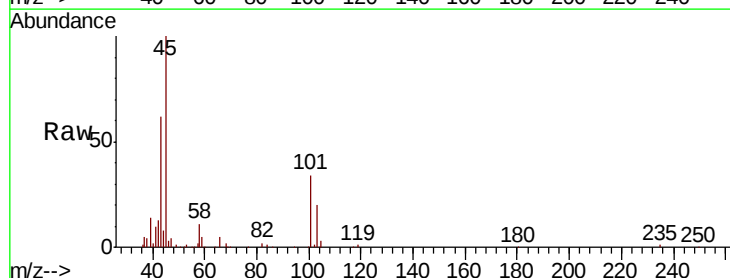
Acq: 3 Jun 2021 00:53

Tgt Ion: 101 Resp: 52240

Ion Ratio Lower Upper

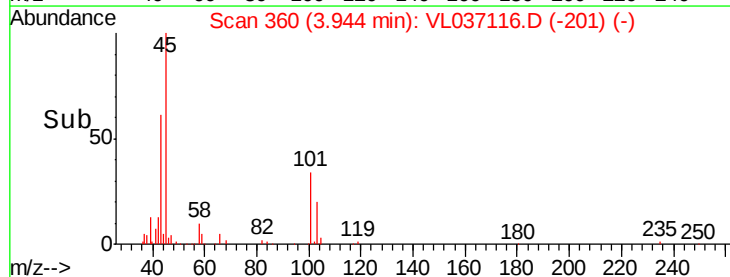
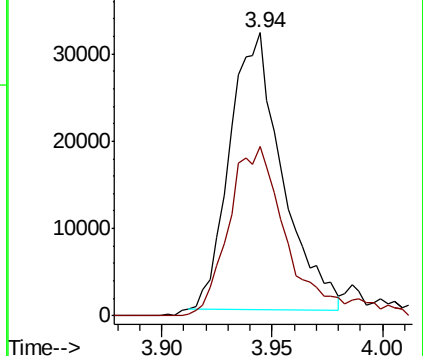
101 100

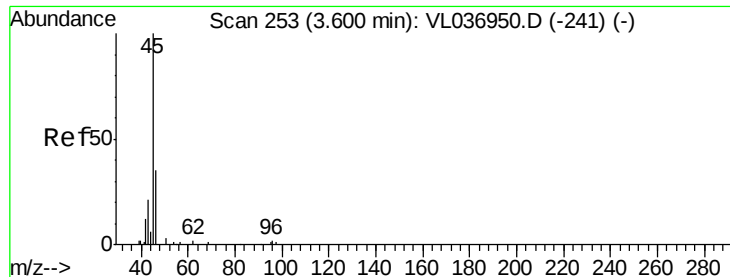
103 60.9 52.6 79.0



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V





#13

Ethanol

Concen: 23.641 ppbv

RT: 3.60 min Scan# 253

Delta R.T. 0.00 min

Lab File: VL037116.D

Acq: 3 Jun 2021 00:53

Instrument :

MSVOA_L

ClientSampleId :

SGS-6A

Tot Ion: 45 Resp: 253415

Ion Ratio Lower Upper

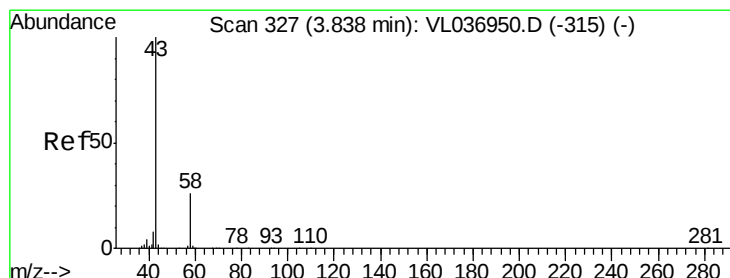
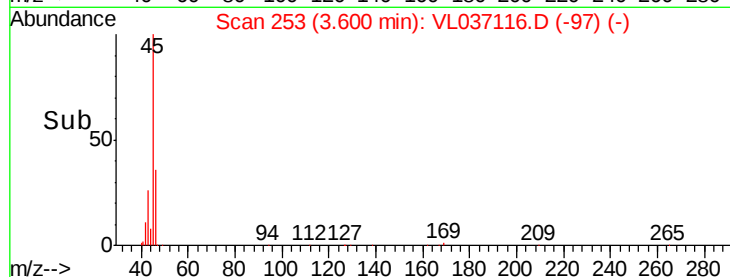
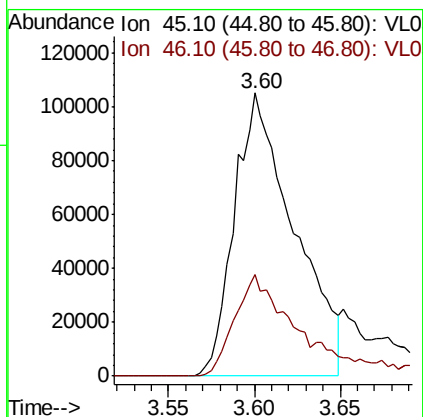
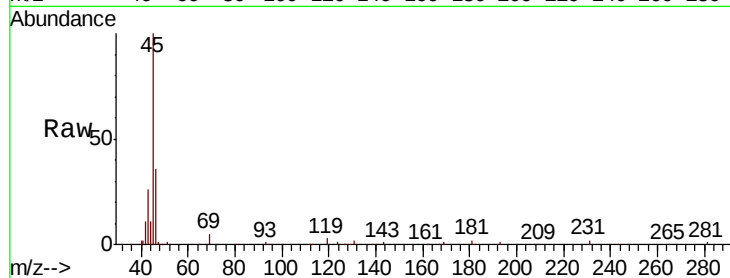
45 100

46 43.5 16.3 65.3

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#15

Acetone

Concen: 11.934 ppbv

RT: 3.84 min Scan# 328

Delta R.T. 0.00 min

Lab File: VL037116.D

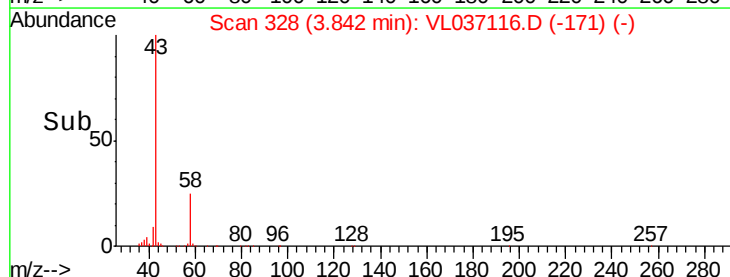
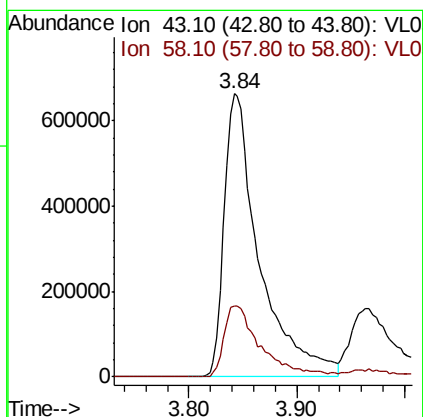
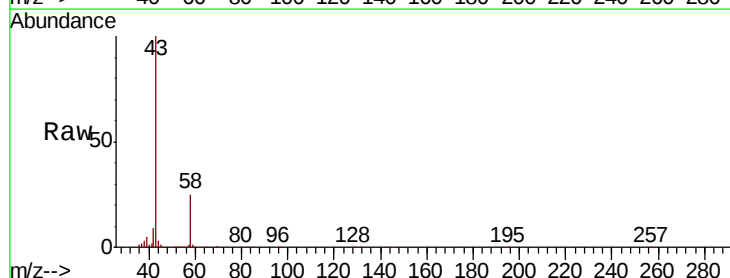
Acq: 3 Jun 2021 00:53

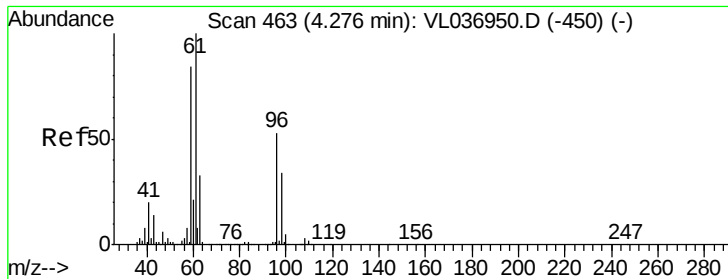
Tgt Ion: 43 Resp: 1497043

Ion Ratio Lower Upper

43 100

58 26.4 24.0 36.0





#17

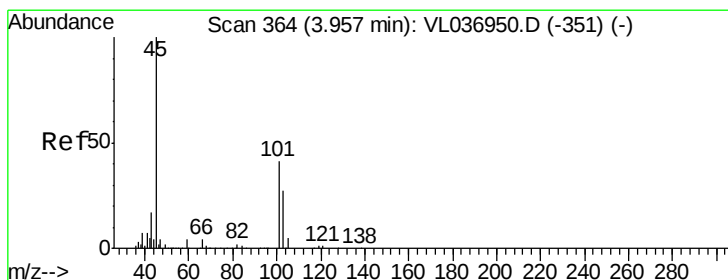
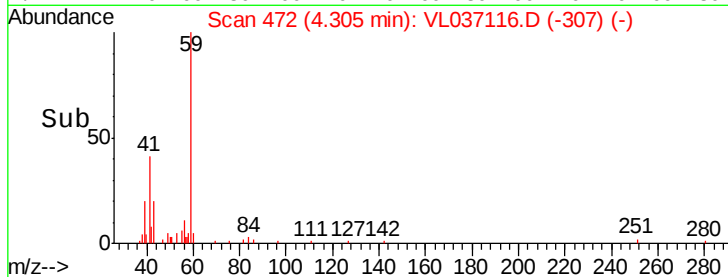
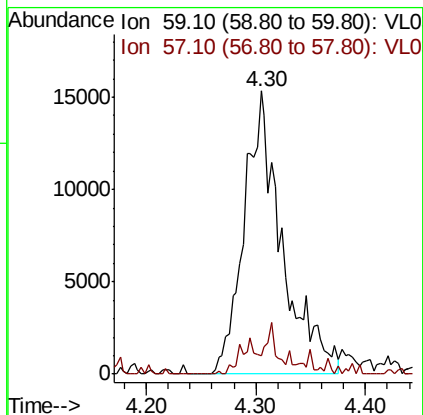
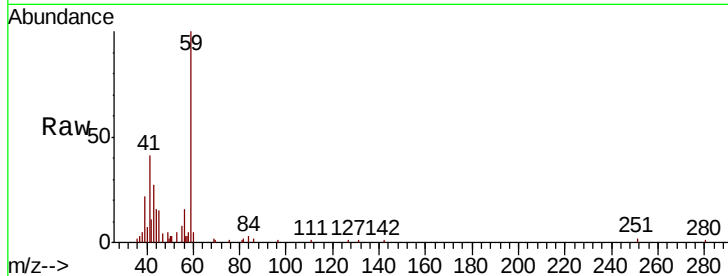
tert-Butyl alcohol
 Concen: 0.322 ppbv m
 RT: 4.30 min Scan# 472
 Delta R.T. 0.03 min
 Lab File: VL037116.D
 Acq: 3 Jun 2021 00:53

Instrument :
 MSVOA_L
 ClientSampleId :
 SGS-6A

Tot Ion: 59 Resp: 36994
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.3 12.5#

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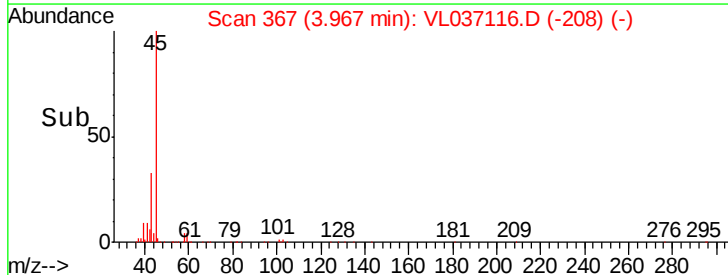
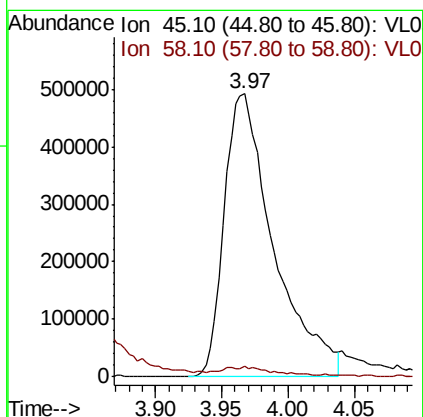
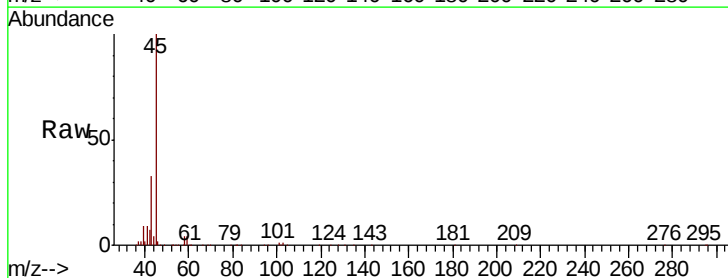
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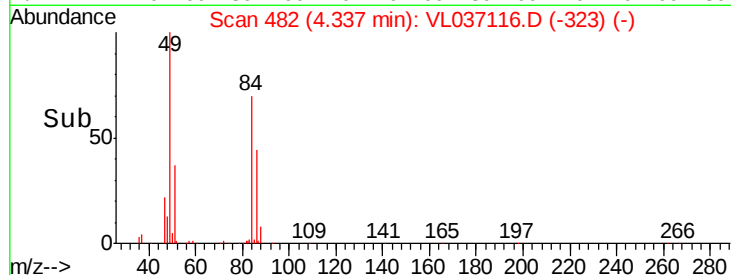
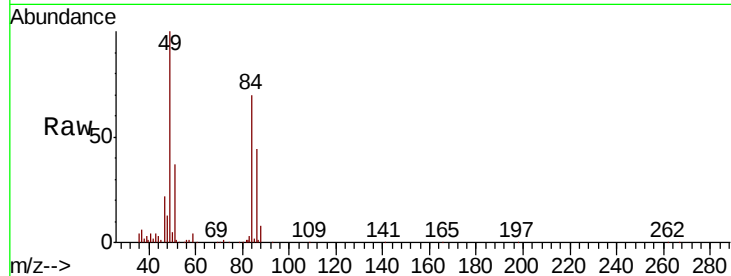
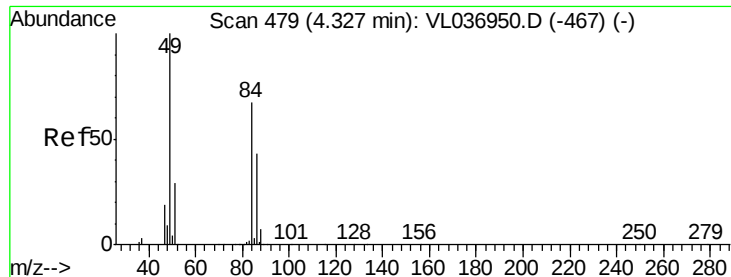


#19

Isopropyl Alcohol
 Concen: 18.859 ppbv
 RT: 3.97 min Scan# 367
 Delta R.T. 0.01 min
 Lab File: VL037116.D
 Acq: 3 Jun 2021 00:53

Tgt Ion: 45 Resp: 1271673
 Ion Ratio Lower Upper
 45 100
 58 4.4 37.2 55.8#





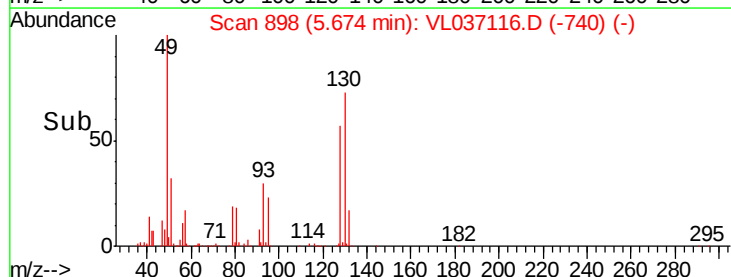
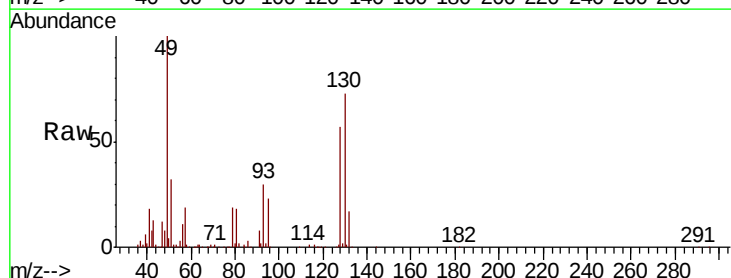
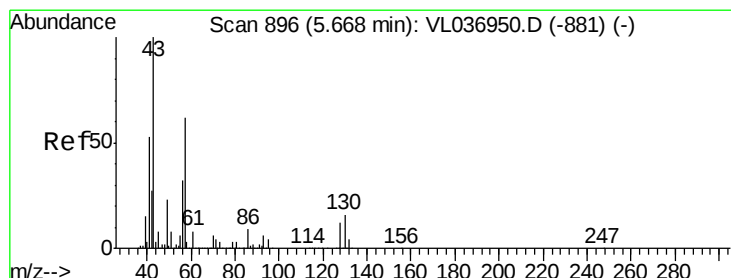
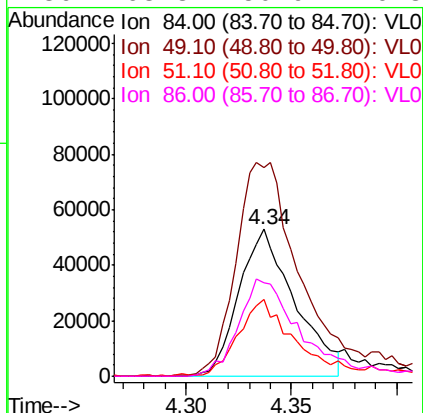
#20
Methvlene Chloride
Concen: 1.451 ppbv
RT: 4.34 min Scan# 482
Delta R.T. 0.01 min
Lab File: VL037116.D
Acq: 3 Jun 2021 00:53

Tot Ion	84	Resp	97556
Ion	Ratio	Lower	Upper
84	100		
49	141.4	119.8	179.6
51	51.9	35.1	52.7
86	63.3	50.9	76.3

Instrument :
MSVOA_L
ClientSampleId :
SGS-6A

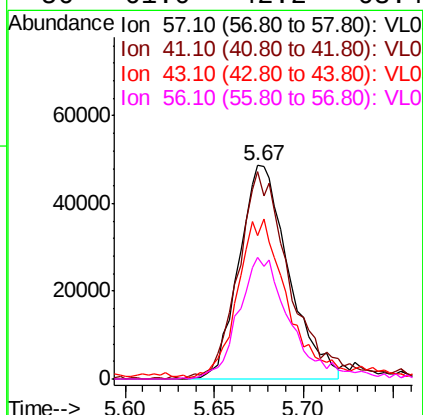
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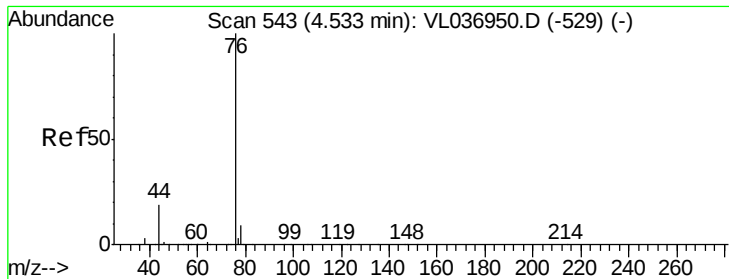
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#26
Hexane
Concen: 0.614 ppbv
RT: 5.67 min Scan# 898
Delta R.T. 0.01 min
Lab File: VL037116.D
Acq: 3 Jun 2021 00:53

Tgt Ion	57	Resp	94572
Ion	Ratio	Lower	Upper
57	100		
41	107.8	70.5	105.7#
43	75.7	165.8	248.8#
56	61.0	42.2	63.4





#27

Carbon Disulfide

Concen: 0.225 ppbv

RT: 4.54 min Scan# 546

Delta R.T. 0.01 min

Lab File: VL037116.D

Acq: 3 Jun 2021 00:53

Instrument :

MSVOA_L

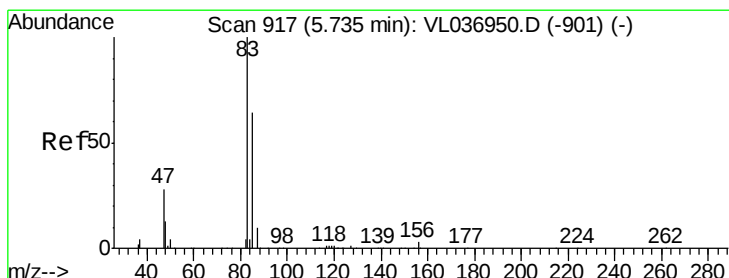
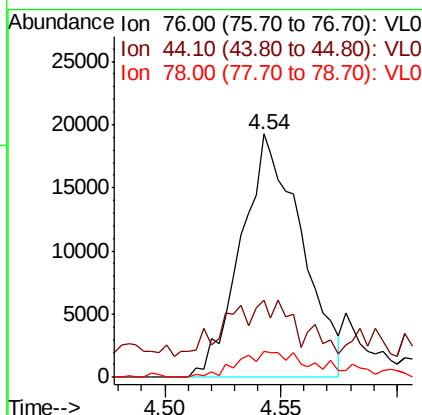
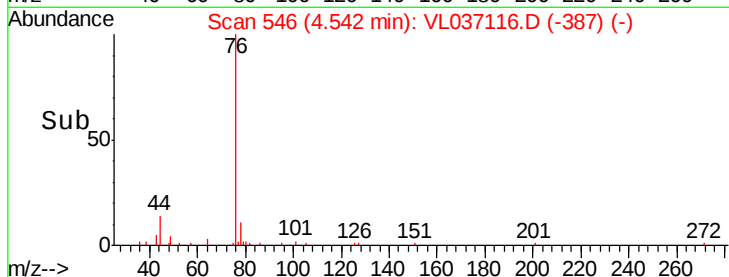
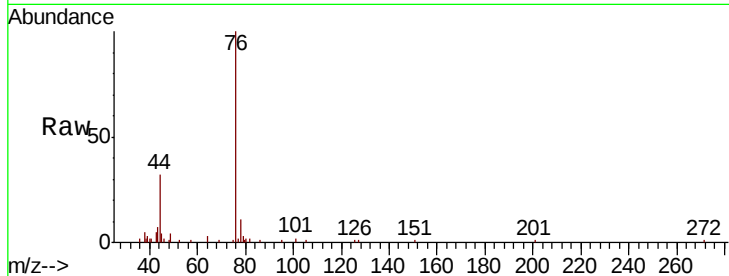
ClientSampleId :

SGS-6A

Tot Ion:	76	Resp:	34881
Ion Ratio	Lower	Upper	
76	100		
44	37.2	15.5	23.3#
78	15.3	7.8	11.6#

Manual Integrations
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#29

Chloroform

Concen: 0.618 ppbv

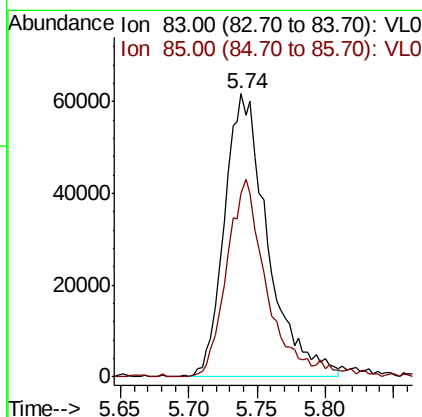
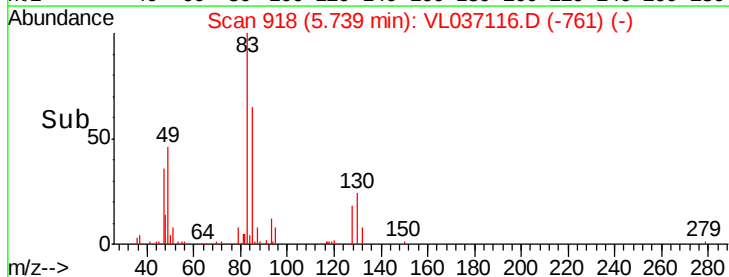
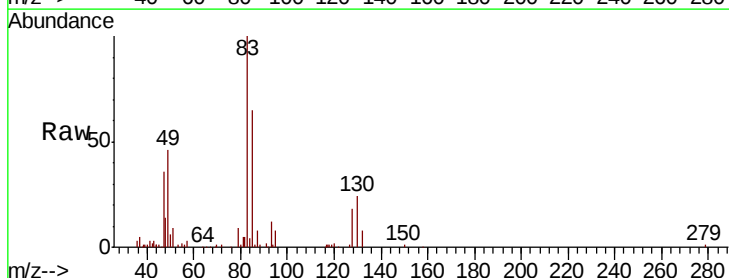
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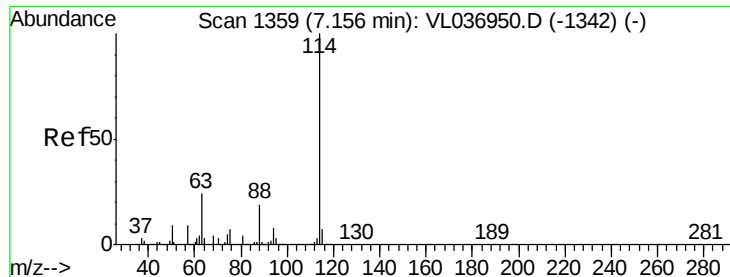
Delta R.T. 0.00 min

Lab File: VL037116.D

Acq: 3 Jun 2021 00:53

Tgt Ion:	83	Resp:	134484
Ion Ratio	Lower	Upper	
83	100		
85	65.0	51.1	76.7





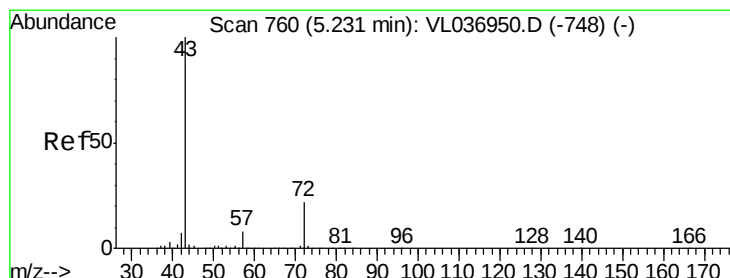
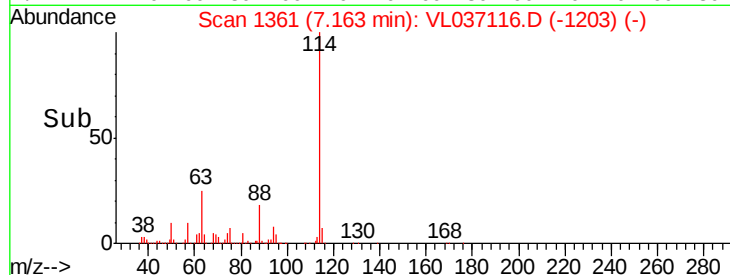
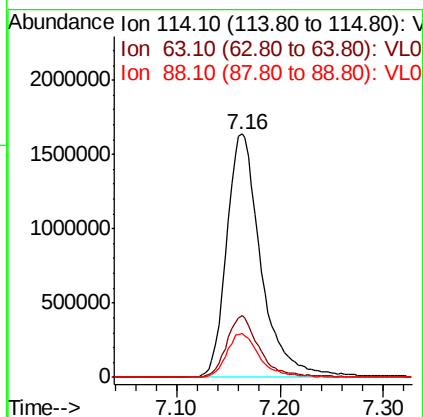
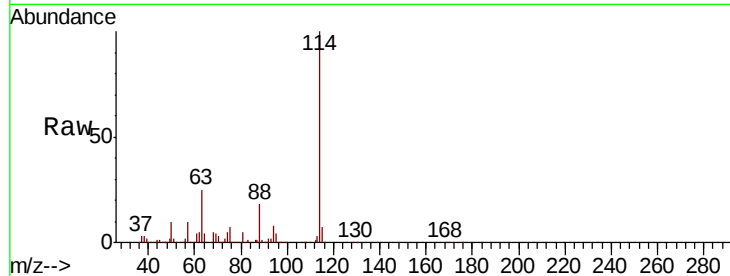
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.16 min Scan# 1361
 Delta R.T. 0.01 min
 Lab File: VL037116.D
 Acq: 3 Jun 2021 00:53

Instrument :
 MSVOA_L
 ClientSampleId :
 SGS-6A

Tot Ion	Ratio	Lower	Upper
114	100		
63	24.4	19.6	29.4
88	17.8	14.6	21.8

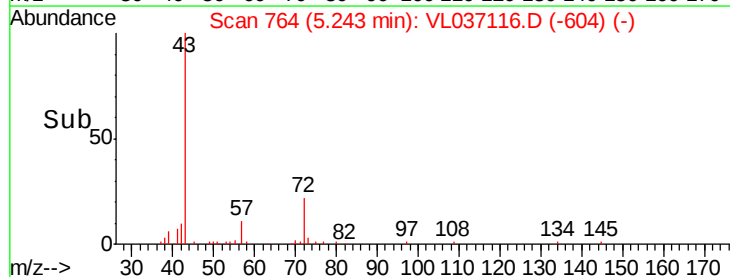
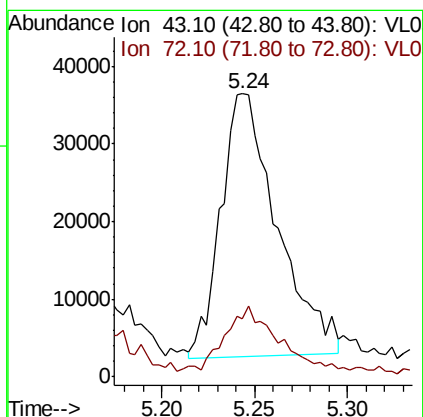
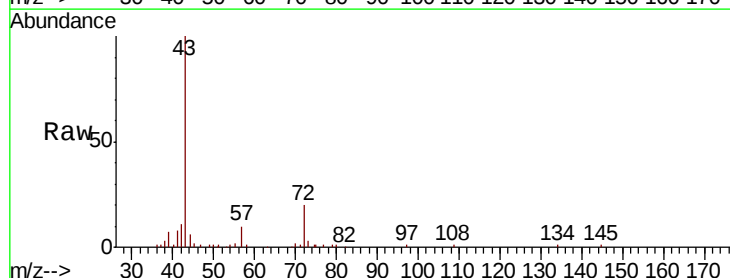
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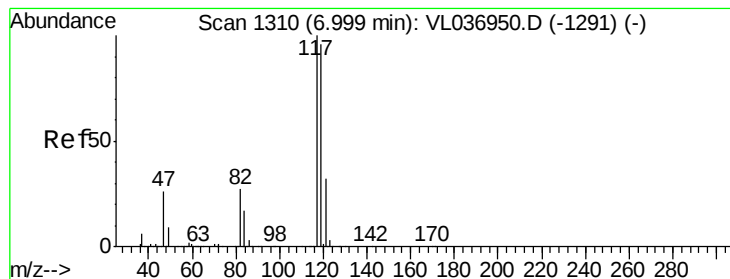
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#34
 2-Butanone
 Concen: 0.519 ppbv
 RT: 5.24 min Scan# 764
 Delta R.T. 0.01 min
 Lab File: VL037116.D
 Acq: 3 Jun 2021 00:53

Tgt Ion	Ratio	Lower	Upper
43	100		
72	31.6	19.0	28.4





#35

Carbon Tetrachloride

Concen: 0.081 ppbv m

RT: 7.01 min Scan# 1313

Delta R.T. 0.01 min

Lab File: VL037116.D

Acq: 3 Jun 2021 00:53

Instrument :

MSVOA_L

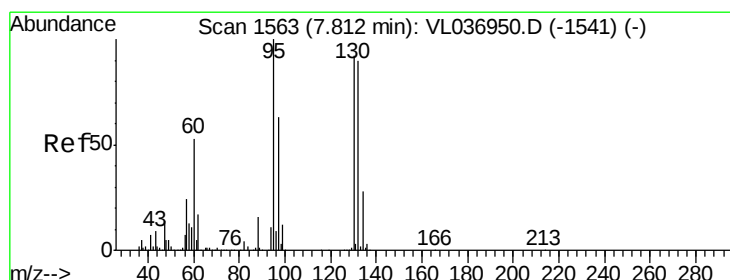
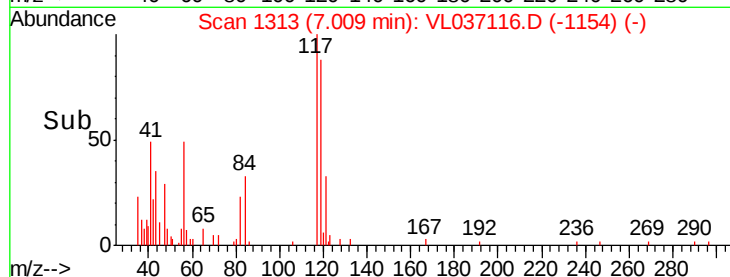
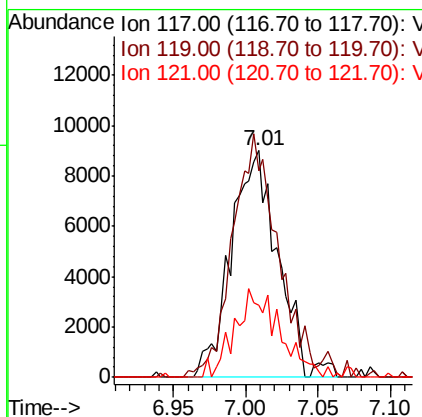
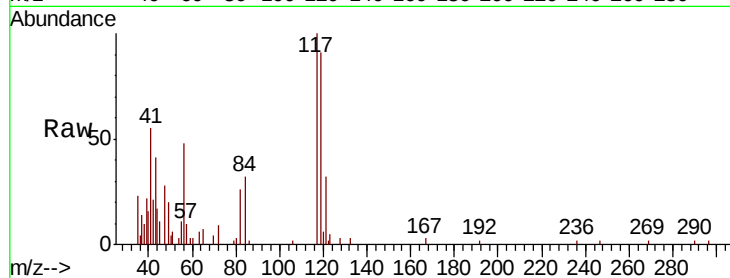
ClientSampleId :

SGS-6A

Tot Ion:	117	Resp:	20375
Ion Ratio	Lower	Upper	
117	100		
119	91.4	76.6	114.8
121	31.8	25.8	38.6

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#38

Trichloroethene

Concen: 3.056 ppbv m

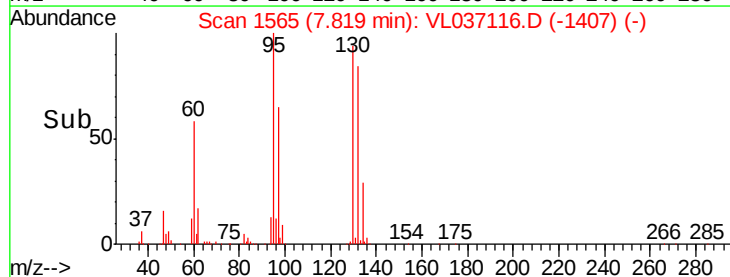
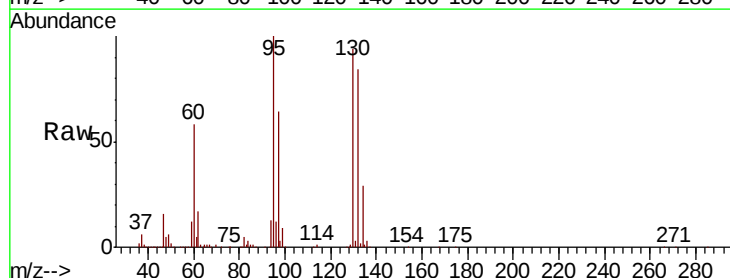
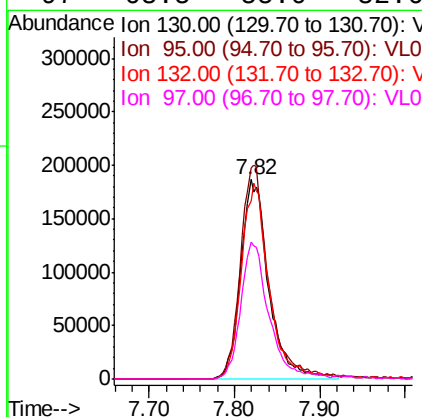
RT: 7.82 min Scan# 1565

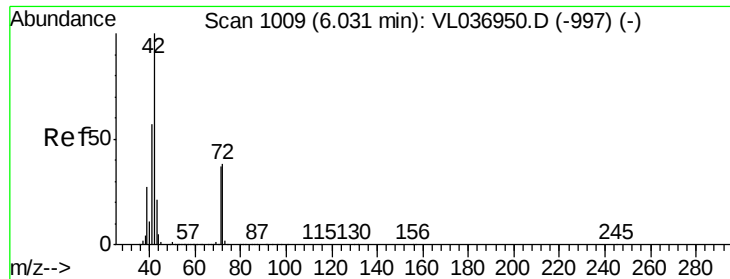
Delta R.T. 0.01 min

Lab File: VL037116.D

Acq: 3 Jun 2021 00:53

Tgt Ion:	130	Resp:	426240
Ion Ratio	Lower	Upper	
130	100		
95	106.2	86.9	130.3
132	89.5	78.4	117.6
97	68.5	55.0	82.6





#41

Tetrahydrofuran

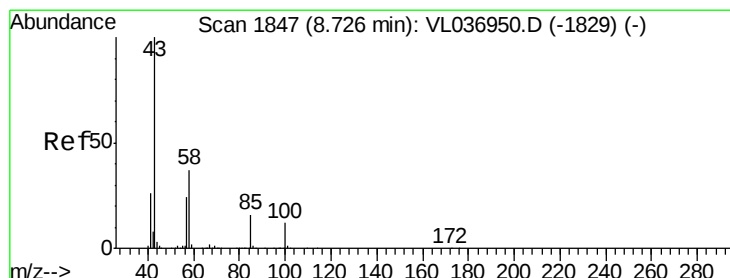
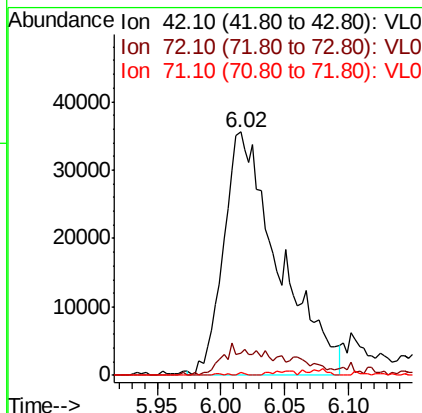
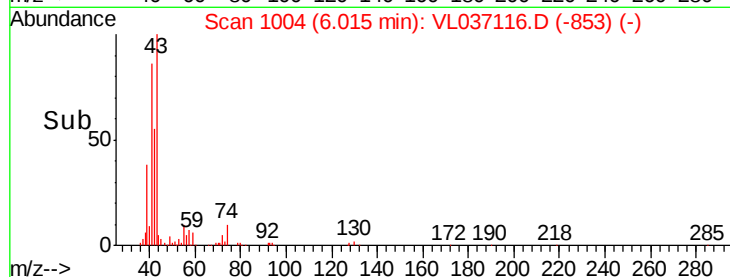
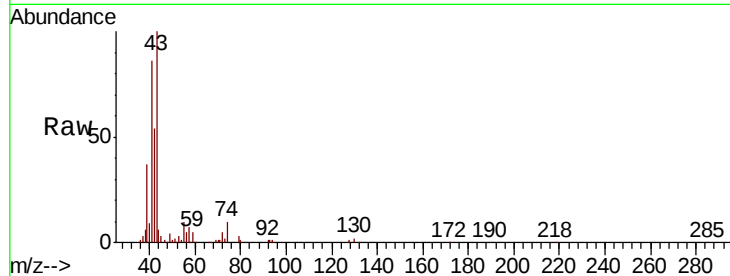
Concen: 1.347 ppbv m
RT: 6.02 min Scan# 1004
Delta R.T. -0.02 min
Lab File: VL037116.D
Acq: 3 Jun 2021 00:53

Instrument :
MSVOA_L
ClientSampleId :
SGS-6A

Tot Ion	Ratio	Lower	Upper
42	100		
72	0.0	31.4	47.2#
71	0.0	30.4	45.6#

Manual Integrations
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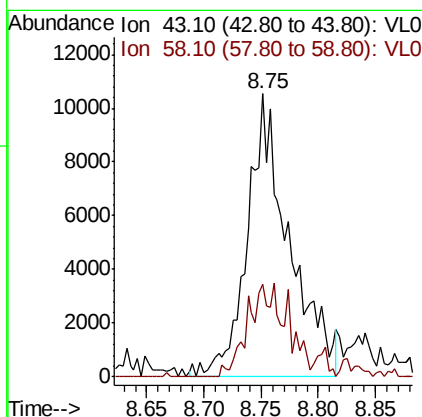
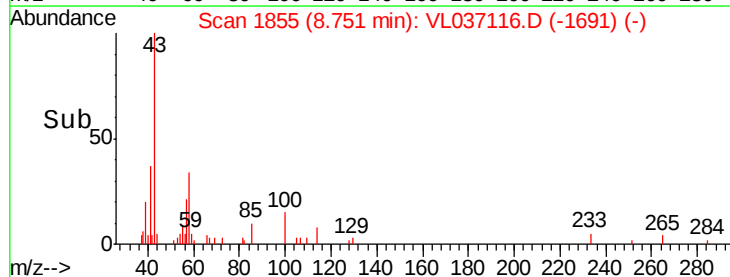
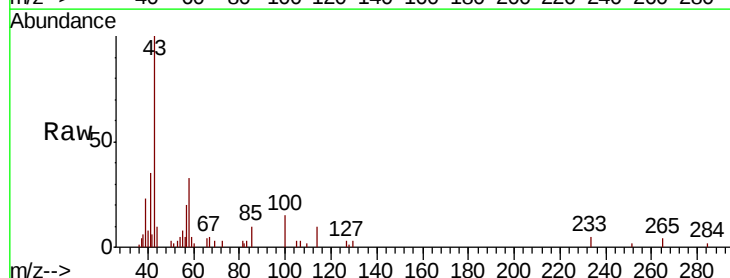


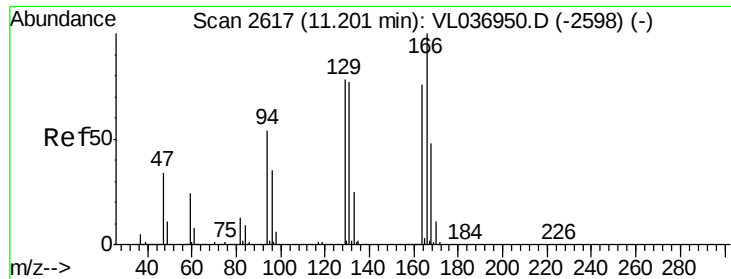
#50

4-Methyl-2-Pentanone

Concen: 0.117 ppbv m
RT: 8.75 min Scan# 1855
Delta R.T. 0.03 min
Lab File: VL037116.D
Acq: 3 Jun 2021 00:53

Tgt Ion	Ratio	Lower	Upper
43	100		
58	0.0	29.4	44.2#





#52

Tetrachloroethene

Concen: 0.304 ppbv m

RT: 11.20 min Scan# 2618

Delta R.T. 0.00 min

Lab File: VL037116.D

Acq: 3 Jun 2021 00:53

Instrument :

MSVOA_L

ClientSampleId :

SGS-6A

Tot Ion:164 Resp: 39427

Ion Ratio Lower Upper

164 100

166 103.7 105.5 158.3#

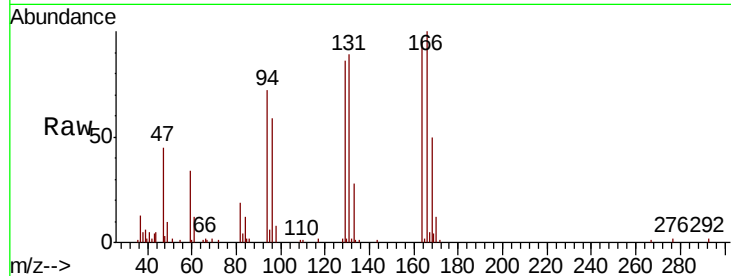
129 88.8 81.8 122.8

131 92.3 81.2 121.8

Manual Integrations
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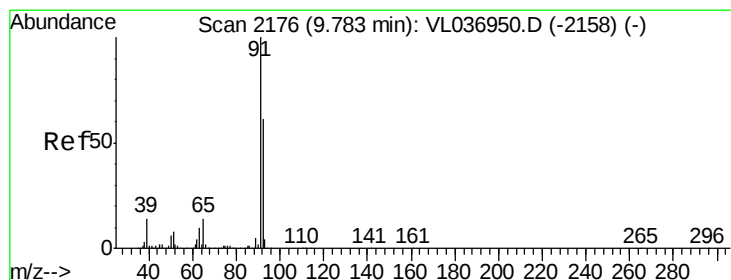
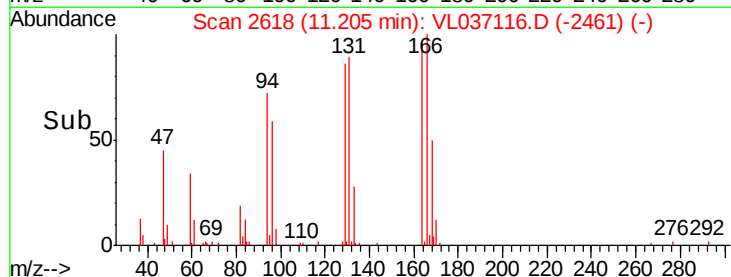
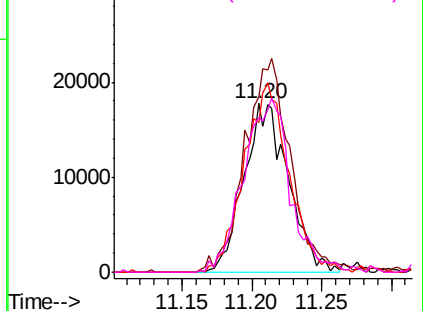


Abundance Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V



#53

Toluene

Concen: 0.214 ppbv

RT: 9.79 min Scan# 2179

Delta R.T. 0.01 min

Lab File: VL037116.D

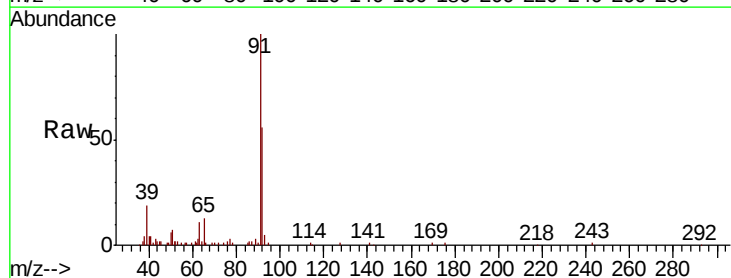
Acq: 3 Jun 2021 00:53

Tgt Ion: 91 Resp: 82877

Ion Ratio Lower Upper

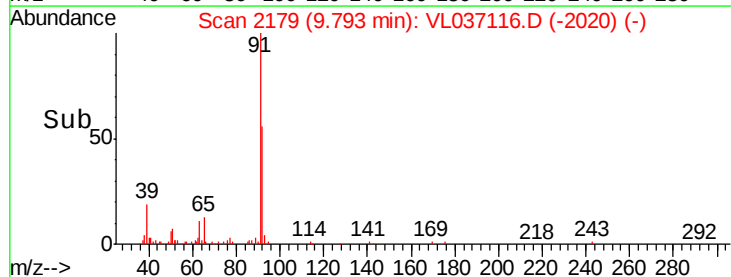
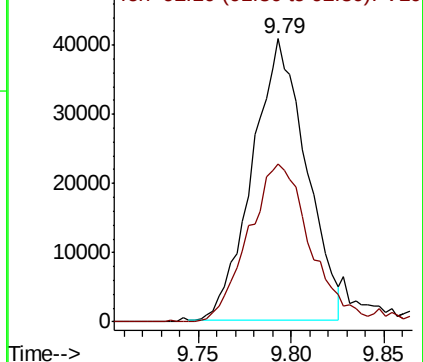
91 100

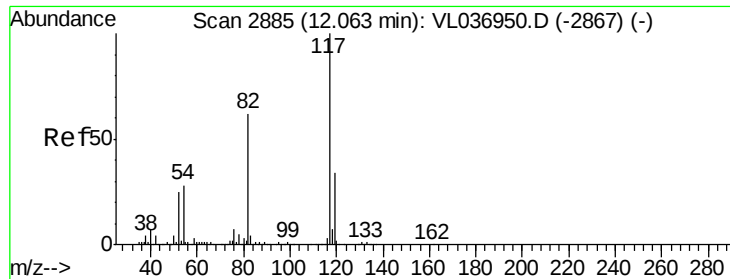
92 65.2 49.5 74.3



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0





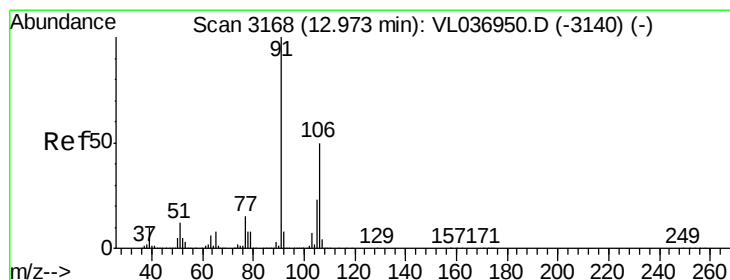
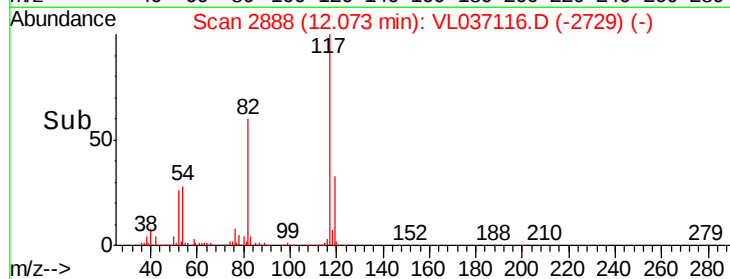
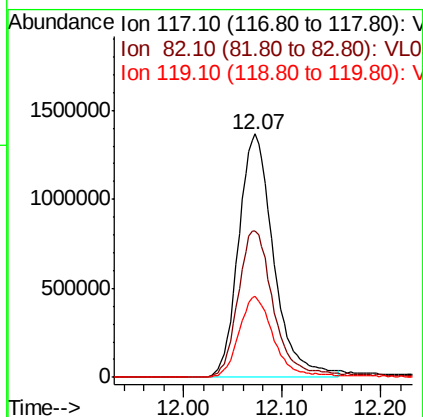
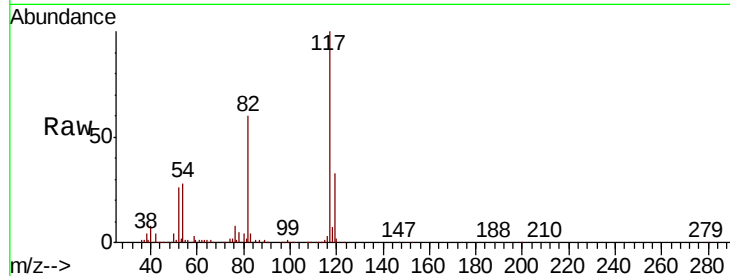
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.07 min Scan# 2888
Delta R.T. 0.01 min
Lab File: VL037116.D
Acq: 3 Jun 2021 00:53

Instrument :
MSVOA_L
ClientSampled :
SGS-6A

Tot Ion	Ratio	Lower	Upper
117	100		
82	62.8	52.6	79.0
119	34.3	46.6	70.0#

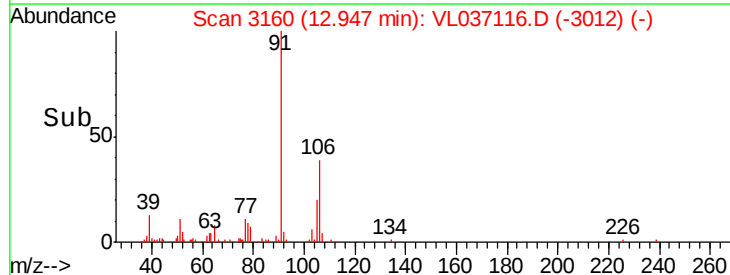
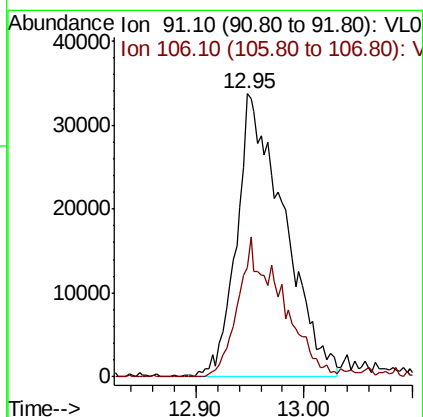
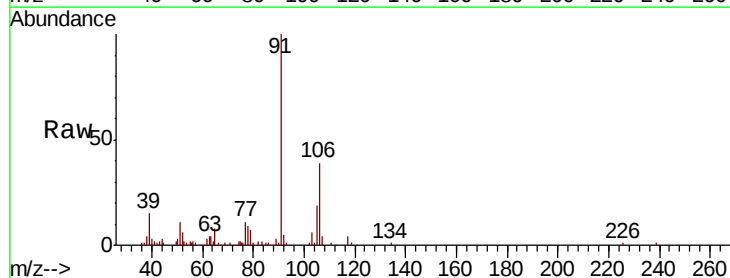
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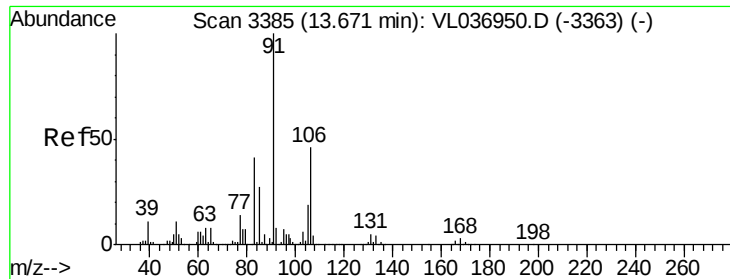
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#59
m/p-Xylene
Concen: 0.262 ppbv m
RT: 12.95 min Scan# 3160
Delta R.T. -0.03 min
Lab File: VL037116.D
Acq: 3 Jun 2021 00:53

Tgt Ion	Ratio	Lower	Upper
91	100		
106	0.0	37.4	56.2#





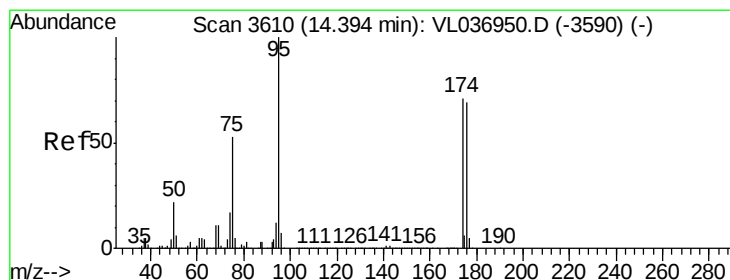
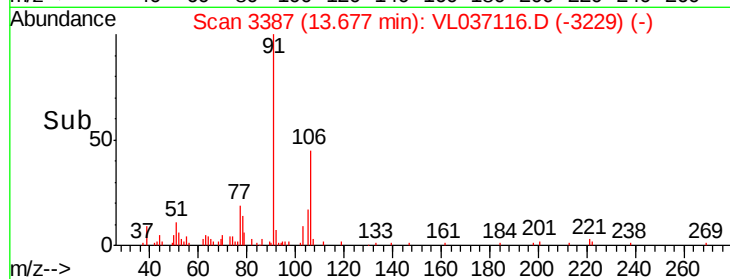
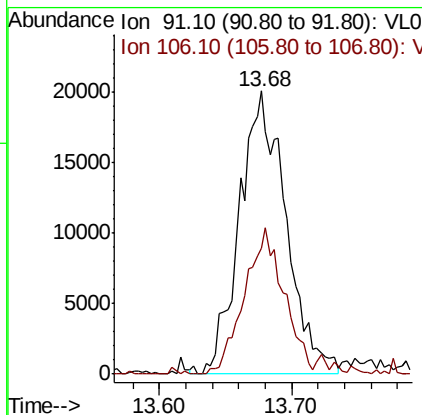
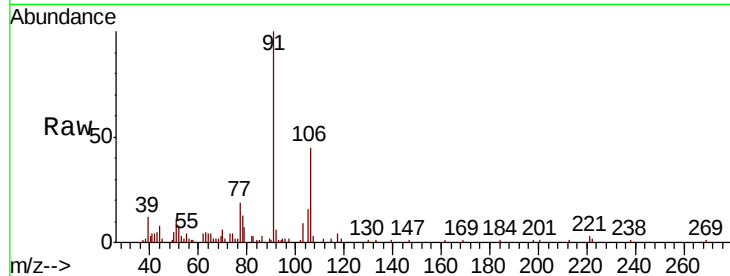
#60
o-Xylene
Concen: 0.131 ppbv m
RT: 13.68 min Scan# 3387
Delta R.T. 0.01 min
Lab File: VL037116.D
Acq: 3 Jun 2021 00:53

Instrument :
MSVOA_L
ClientSampleId :
SGS-6A

Tot Ion: 91 Resp: 49090
Ion Ratio Lower Upper
91 100
106 46.5 23.4 70.3

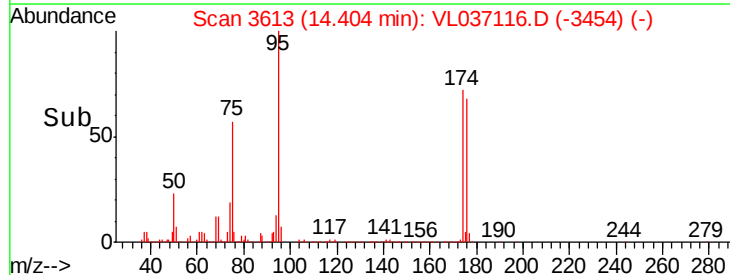
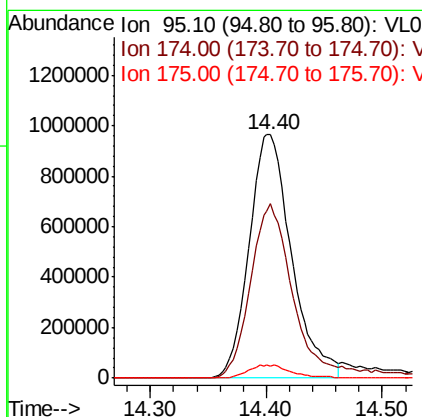
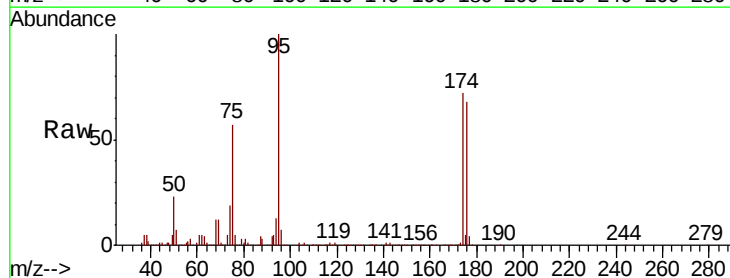
Manual Integrations
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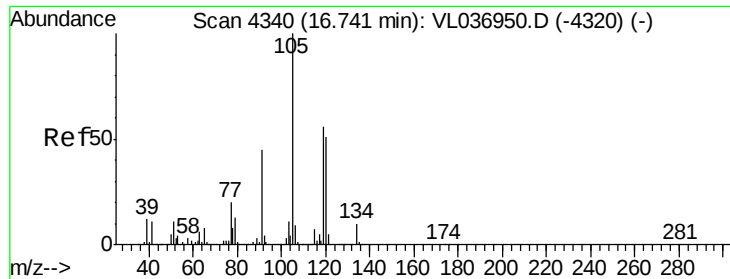
MMDadoda
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#68
1-Bromo-4-Fluorobenzene
Concen: 9.708 ppbv
RT: 14.40 min Scan# 3613
Delta R.T. 0.01 min
Lab File: VL037116.D
Acq: 3 Jun 2021 00:53

Tgt Ion: 95 Resp: 2456840
Ion Ratio Lower Upper
95 100
174 76.4 58.4 87.6
175 5.7 4.4 6.6





#74

1,2,4-Trimethylbenzene

Concen: 0.133 ppbv m

RT: 16.75 min Scan# 4344

Delta R.T. 0.01 min

Lab File: VL037116.D

Acq: 3 Jun 2021 00:53

Instrument :

MSVOA_L

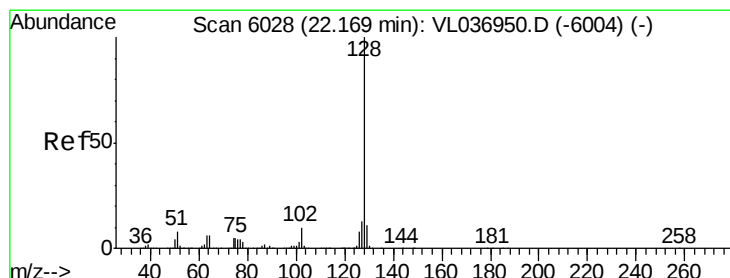
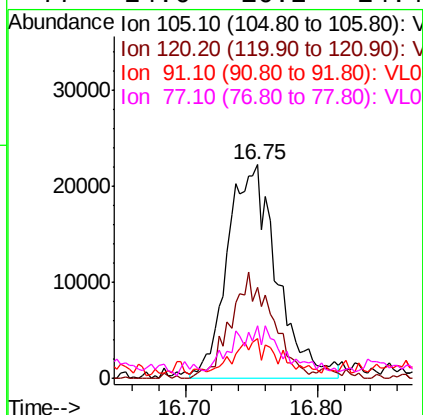
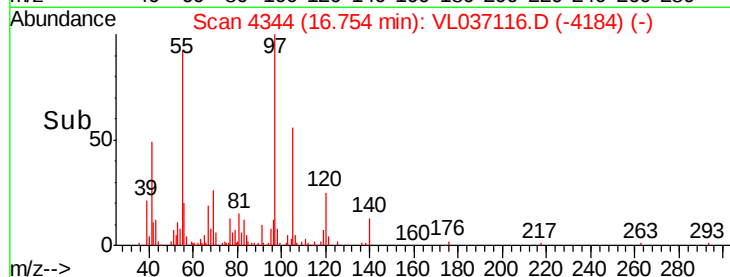
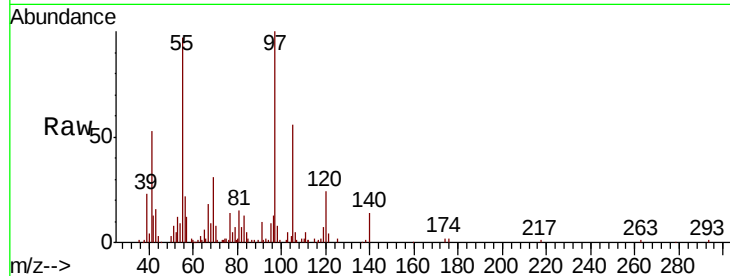
ClientSampleId :

SGS-6A

Tot Ion	Ratio	Lower	Upper
105	100		
120	42.9	40.6	61.0
91	18.6	37.4	56.0#
77	24.6	16.2	24.4#

Manual Integrations
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#79

Naphthalene

Concen: 0.108 ppbv m

RT: 22.20 min Scan# 6037

Delta R.T. 0.03 min

Lab File: VL037116.D

Acq: 3 Jun 2021 00:53

Tgt Ion	Ratio	Lower	Upper
128	100		
127	18.0	10.4	15.6#
129	12.7	9.0	13.6

