

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL083118\
 Data File : VL032441.D
 Acq On : 31 Aug 2018 15:04
 Operator : SY/AP
 Sample : J4472-01
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SS-1

Manual Integrations
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 9/4/2018 8:25:58 AM

Quant Time: Sep 02 22:08:27 2018

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL083118AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 31

QLast Update : Fri Aug 31 21:33:46 2018

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.80	49	1795442	10.00	ppbv	-0.01
33) 1,4-Difluorobenzene	7.34	114	3455811	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.29	117	3336015	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.62	95	2581773	10.42	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.20%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	3.10	85	58286	0.254	ppbv	90
3) Chlorodifluoromethane	3.04	51	195370	1.202	ppbv	95
4) Chloromethane	3.20	50	46004	0.467	ppbv	91
9) Propene	3.06	41	5224947	79.697	ppbv	99
10) Heptane	8.29	43	23776	0.101	ppbv	87
11) Trichlorofluoromethane	4.04	101	221309	1.069	ppbv	97
13) Ethanol	3.68	45	817125	39.985	ppbv	98
15) Acetone	3.93	43	1133148	7.008	ppbv	98
17) tert-Butyl alcohol	4.41	59	34266	1.377	ppbv #	100
19) Isopropyl Alcohol	4.06	45	1100977	10.380	ppbv	100
20) Methylene Chloride	4.44	84	415108	6.733	ppbv	97
26) Hexane	5.82	57	860693	5.034	ppbv #	49
27) Carbon Disulfide	4.67	76	23195m	0.147	ppbv	
29) Chloroform	5.89	83	28285	0.109	ppbv #	81
30) Cyclohexane	7.29	84	28665m	0.229	ppbv	
32) 1,1,1-Trichloroethane	6.66	97	15587	0.064	ppbv	98
34) 2-Butanone	5.37	43	441577	1.924	ppbv	100
35) Carbon Tetrachloride	7.18	117	22436m	0.097	ppbv	
36) Benzene	7.04	78	531217	1.806	ppbv	98
38) Trichloroethene	8.01	130	35287	0.316	ppbv #	87
44) 2,2,4-Trimethylpentane	8.04	57	148700	0.262	ppbv #	78
50) 4-Methyl-2-Pentanone	8.93	43	90948	0.263	ppbv	98
52) Tetrachloroethene	11.42	164	64802	0.711	ppbv	84
53) Toluene	9.99	91	661081	2.151	ppbv	99
58) Ethyl Benzene	12.91	91	66332	0.166	ppbv	94
59) m/p-Xylene	13.17	91	183236	0.515	ppbv	99
60) o-Xylene	13.90	91	86714	0.248	ppbv	97
61) Styrene	13.73	104	63123	0.279	ppbv	96
73) 1,3,5-Trimethylbenzene	16.20	105	49617m	0.130	ppbv	
74) 1,2,4-Trimethylbenzene	16.97	105	126130	0.302	ppbv #	73
76) 1,4-Dichlorobenzene	17.36	146	6618105	28.753	ppbv	99
79) Naphthalene	22.47	128	112905m	0.332	ppbv	

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

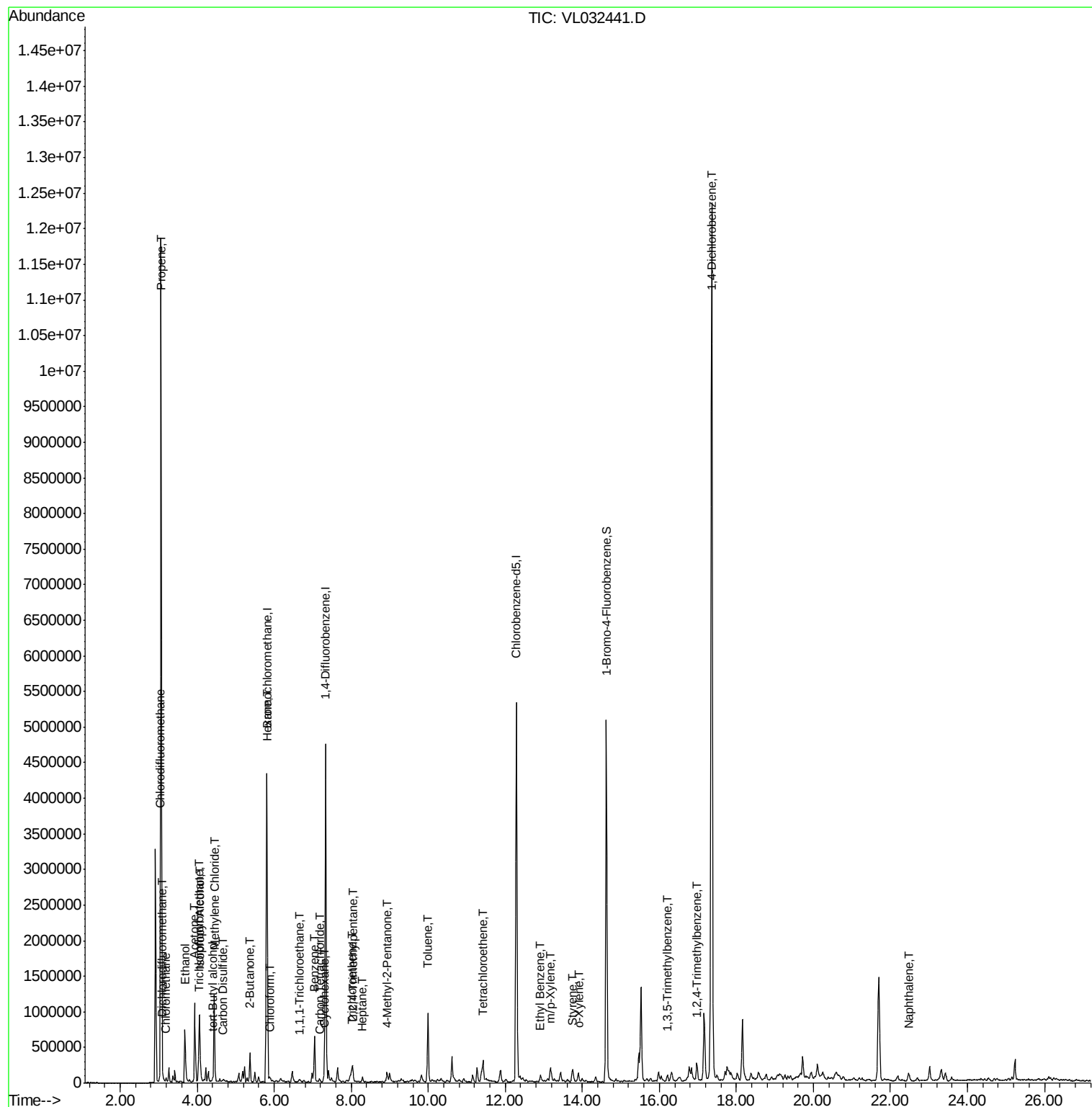
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_L\DATA\VL083118\
Data File : VL032441.D
Acq On : 31 Aug 2018 15:04
Operator : SY/AP
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Misc : 400ml/MSVOA_L
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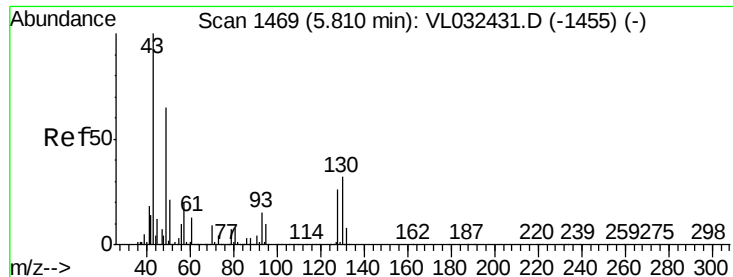
Instrument :
MSVOA_L
ClientSampleId :
SS-1

Manual Integrations
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9/4/2018 8:25:58 AM

Quant Time: Sep 02 22:08:27 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_L\METHODS\VL083118AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Fri Aug 31 21:33:46 2018
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.80 min Scan# 1465

Delta R.T. -0.01 min

Lab File: VL032441.D

Acq: 31 Aug 2018 15:04

Instrument :

MSVOA_L

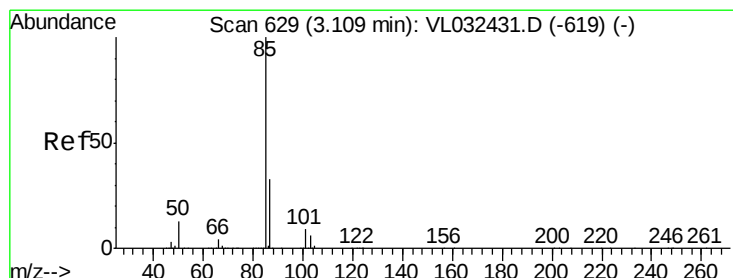
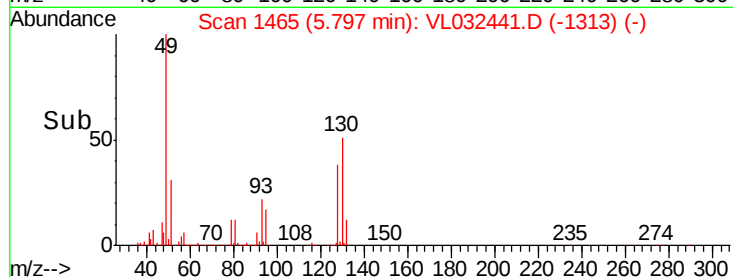
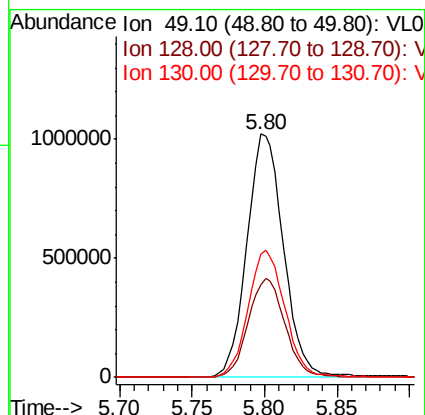
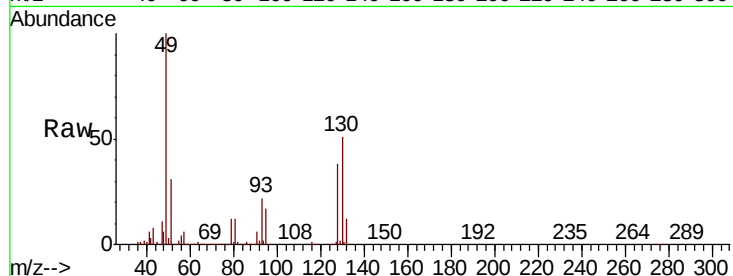
ClientSampled :

SS-1

Tgt Ion:	49	Resp:	1795442
Ion	Ratio	Lower	Upper
49	100		
128	41.0	20.7	62.1
130	53.0	26.6	79.7

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#2

Dichlorodifluoromethane

Concen: 0.254 ppbv

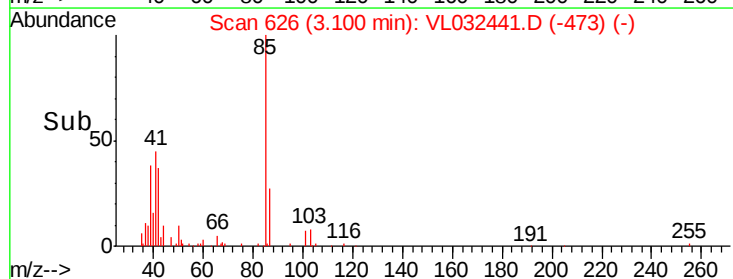
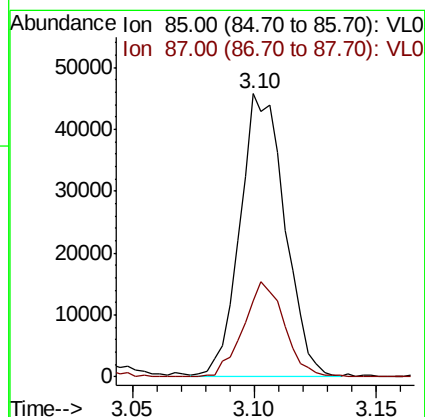
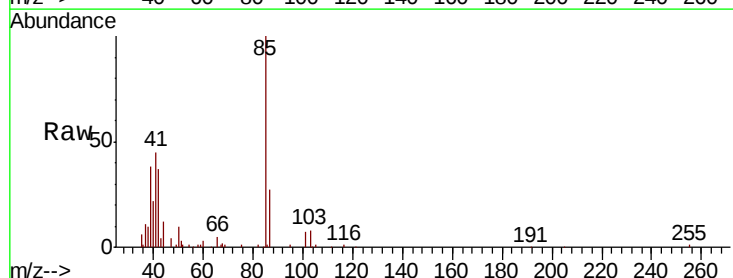
RT: 3.10 min Scan# 626

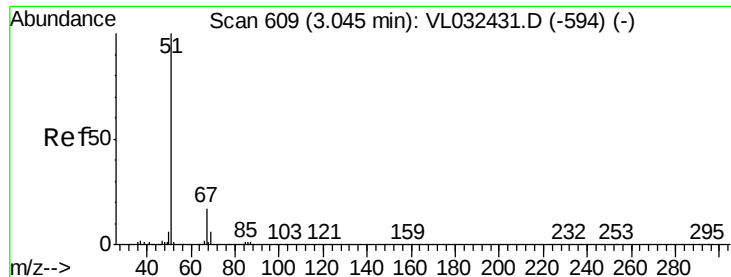
Delta R.T. -0.01 min

Lab File: VL032441.D

Acq: 31 Aug 2018 15:04

Tgt Ion:	85	Resp:	58286
Ion	Ratio	Lower	Upper
85	100		
87	27.1	26.2	39.4





#3

Chlorodifluoromethane

Concen: 1.202 ppbv

RT: 3.04 min Scan# 607

Delta R.T. -0.01 min

Lab File: VL032441.D

Acq: 31 Aug 2018 15:04

Instrument :

MSVOA_L

ClientSampleId :

SS-1

Tgt Ion: 51 Resp: 195370

Ion Ratio Lower Upper

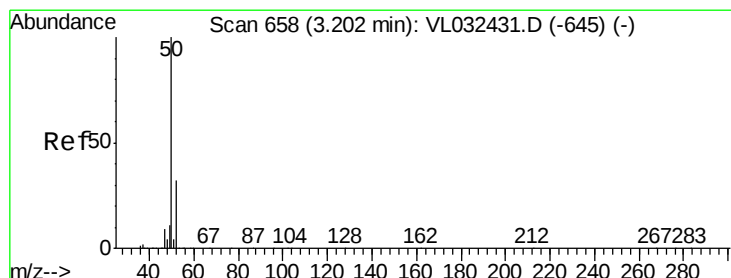
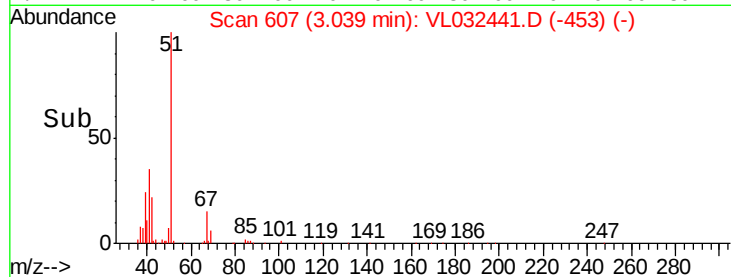
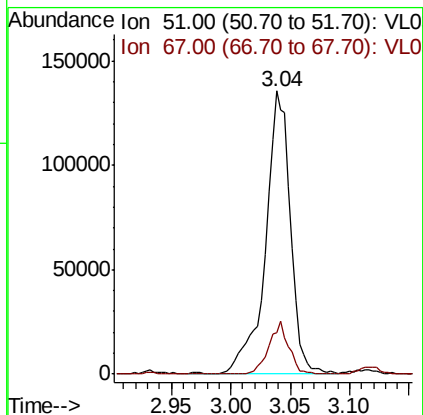
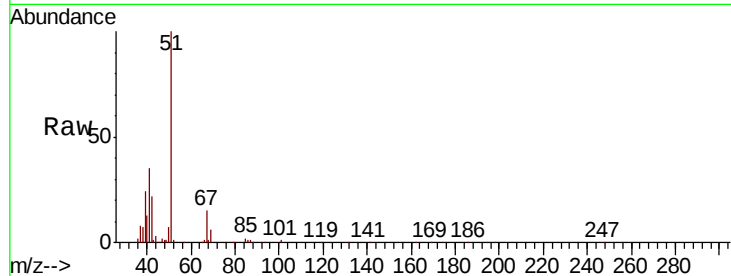
51 100

67 15.0 13.8 20.8

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#4

Chloromethane

Concen: 0.467 ppbv

RT: 3.20 min Scan# 656

Delta R.T. -0.01 min

Lab File: VL032441.D

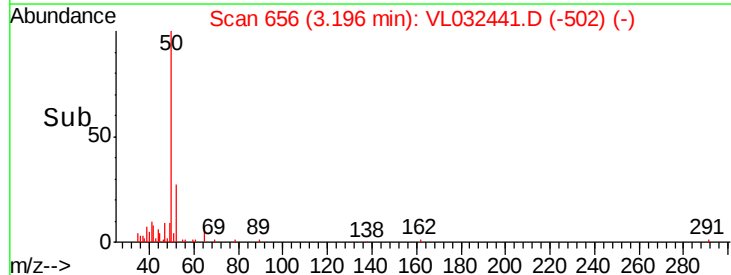
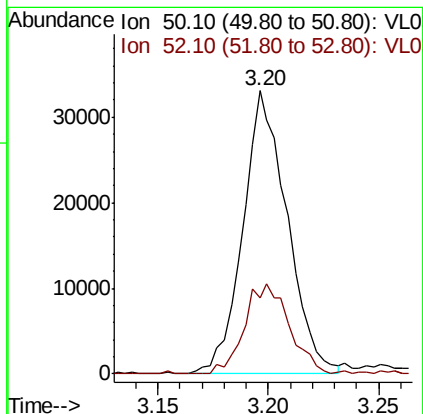
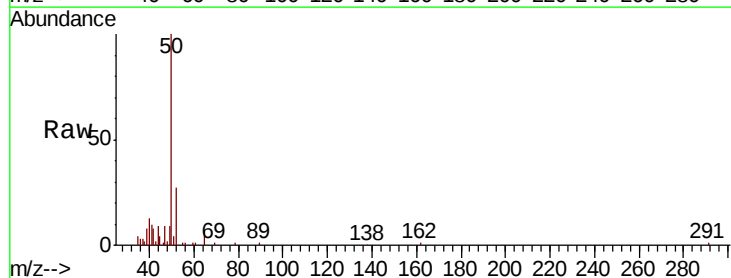
Acq: 31 Aug 2018 15:04

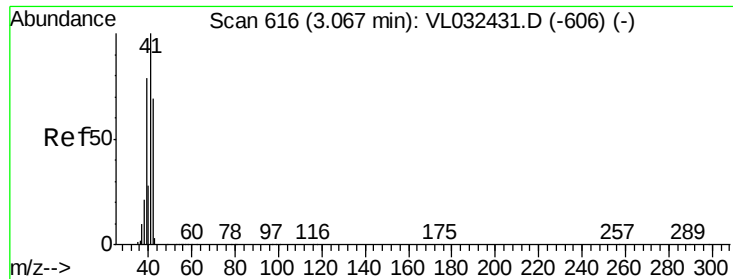
Tgt Ion: 50 Resp: 46004

Ion Ratio Lower Upper

50 100

52 27.0 25.6 38.4





#9

Propene

Concen: 79.697 ppbv

RT: 3.06 min Scan# 615

Delta R.T. -0.00 min

Lab File: VL032441.D

Acq: 31 Aug 2018 15:04

Instrument :

MSVOA_L

ClientSampled :

SS-1

Tgt Ion: 41 Resp: 5224947

Ion Ratio Lower Upper

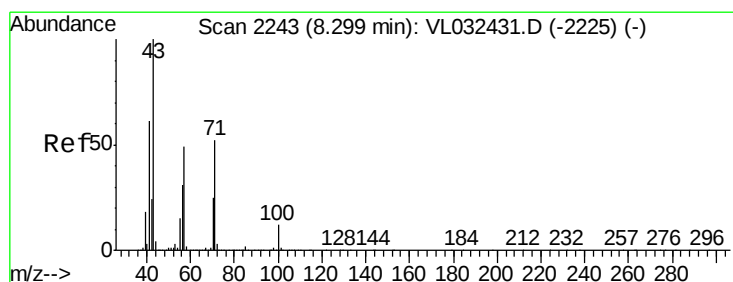
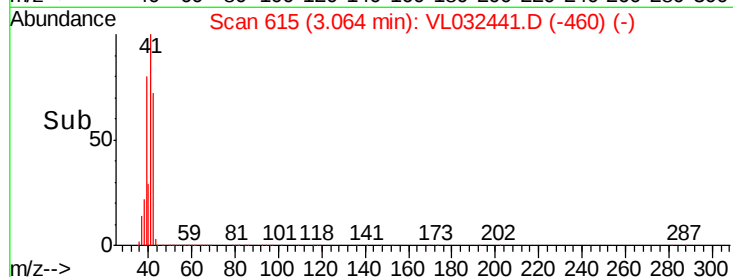
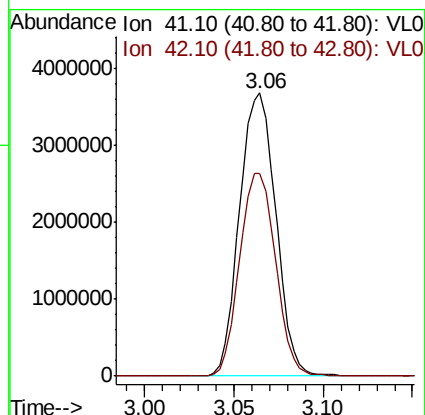
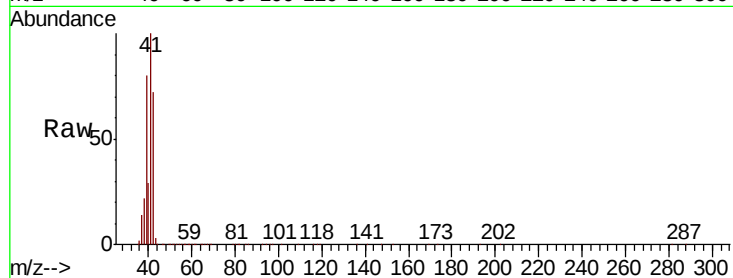
41 100

42 71.3 56.6 84.8

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#10

Heptane

Concen: 0.101 ppbv

RT: 8.29 min Scan# 2240

Delta R.T. -0.01 min

Lab File: VL032441.D

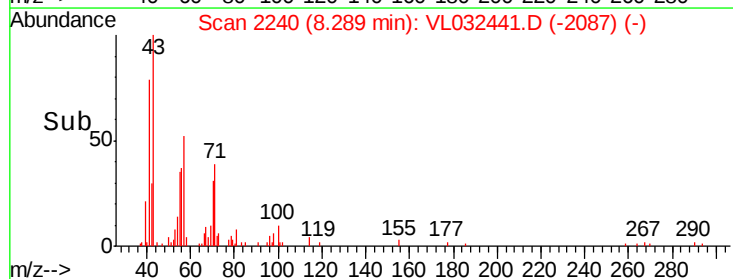
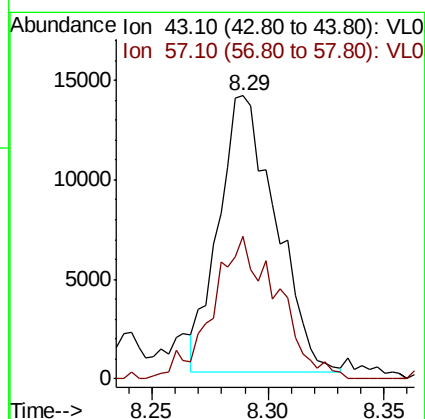
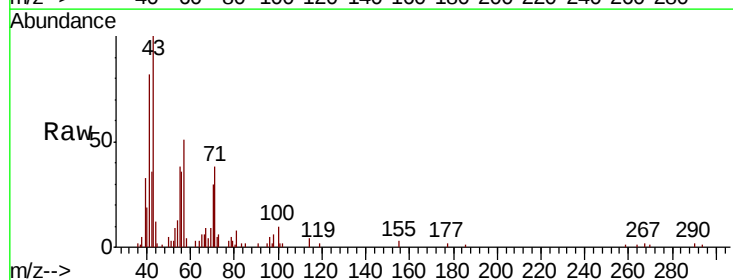
Acq: 31 Aug 2018 15:04

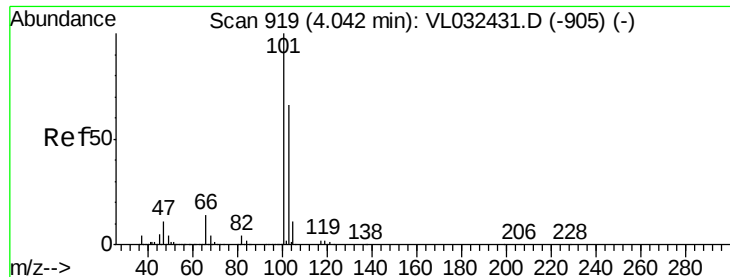
Tgt Ion: 43 Resp: 23776

Ion Ratio Lower Upper

43 100

57 58.7 39.6 59.4





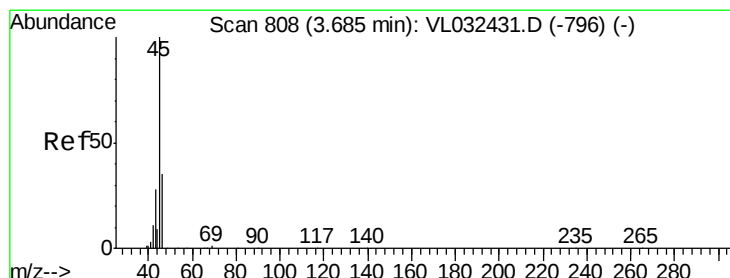
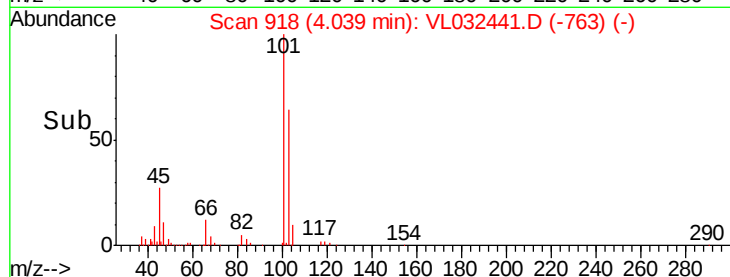
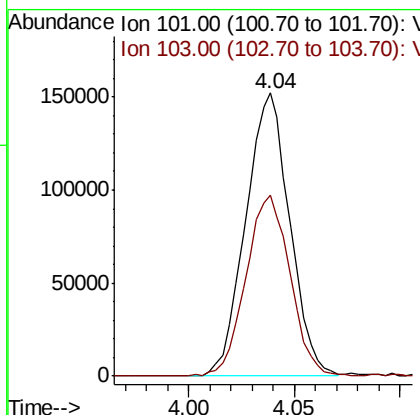
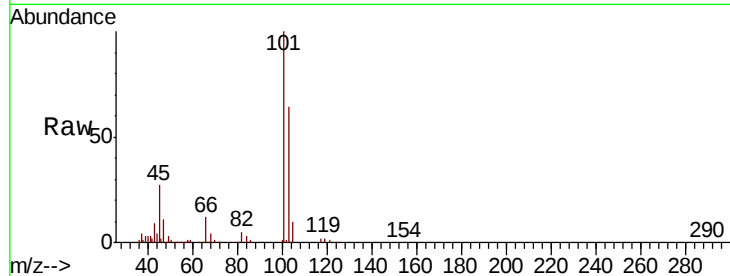
#11
 Trichlorofluoromethane
 Concen: 1.069 ppbv
 RT: 4.04 min Scan# 918
 Delta R.T. -0.00 min
 Lab File: VL032441.D
 Acq: 31 Aug 2018 15:04

Instrument :
 MSVOA_L
 ClientSampleId :
 SS-1

Tgt Ion	Ratio	Lower	Upper
101	100		
103	64.0	52.8	79.2

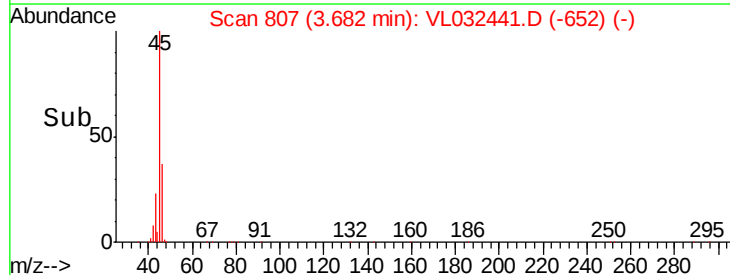
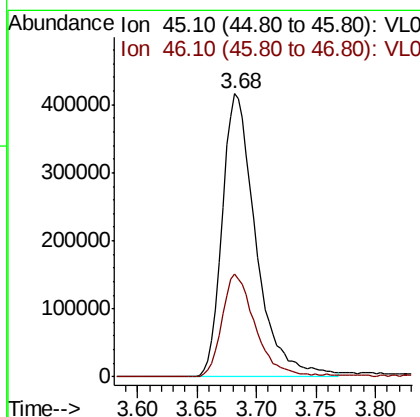
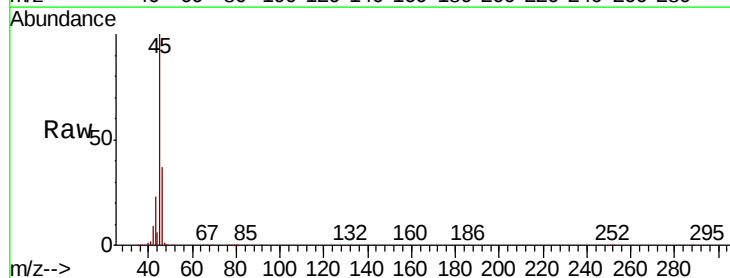
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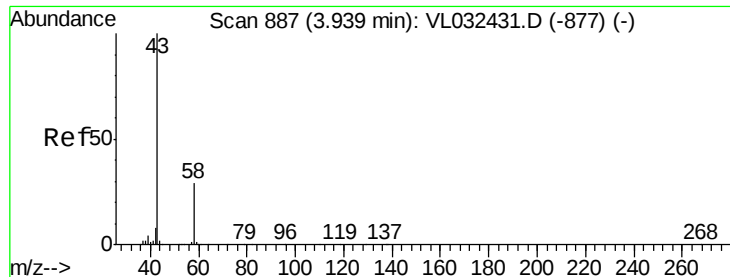
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#13
 Ethanol
 Concen: 39.985 ppbv
 RT: 3.68 min Scan# 807
 Delta R.T. -0.00 min
 Lab File: VL032441.D
 Acq: 31 Aug 2018 15:04

Tgt Ion	Ratio	Lower	Upper
45	100		
46	36.5	14.2	56.8





#15

Acetone

Concen: 7.008 ppbv

RT: 3.93 min Scan# 885

Delta R.T. -0.01 min

Lab File: VL032441.D

Acq: 31 Aug 2018 15:04

Instrument :

MSVOA_L

ClientSampleId :

SS-1

Tgt Ion: 43 Resp: 1133148

Ion Ratio Lower Upper

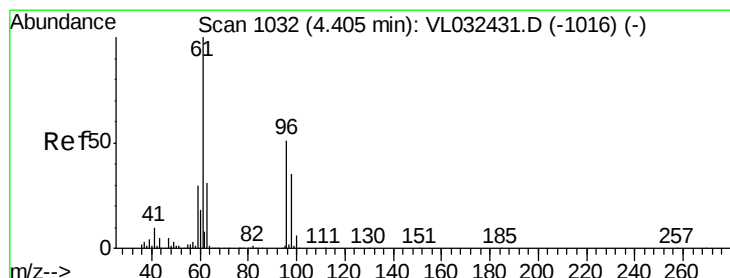
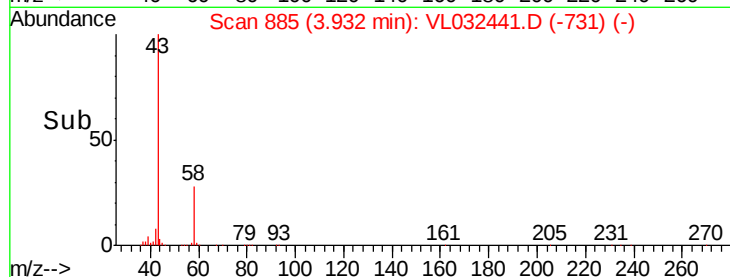
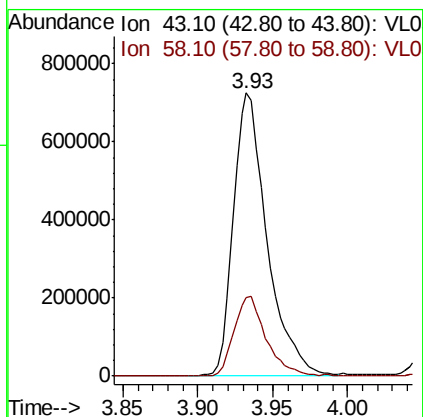
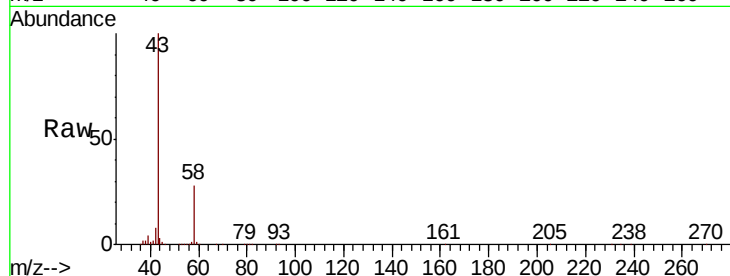
43 100

58 27.1 22.6 33.8

Manual Integrations
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#17

tert-Butyl alcohol

Concen: 1.377 ppbv

RT: 4.41 min Scan# 1032

Delta R.T. 0.00 min

Lab File: VL032441.D

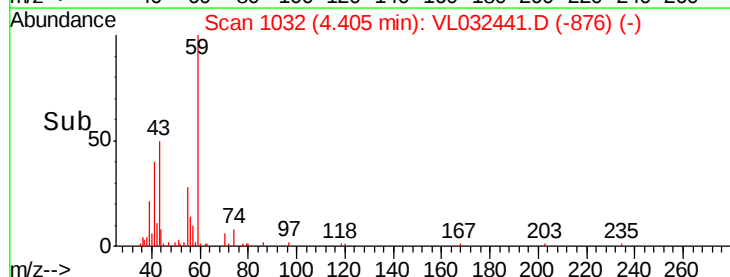
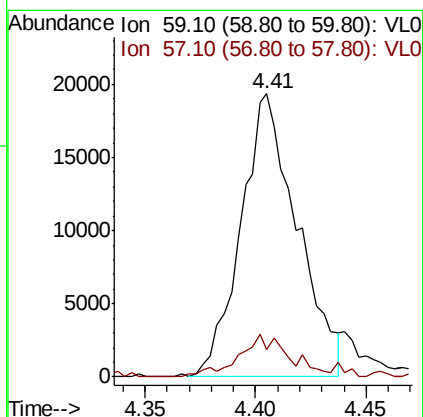
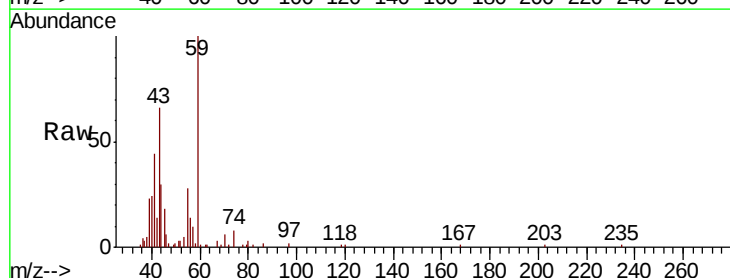
Acq: 31 Aug 2018 15:04

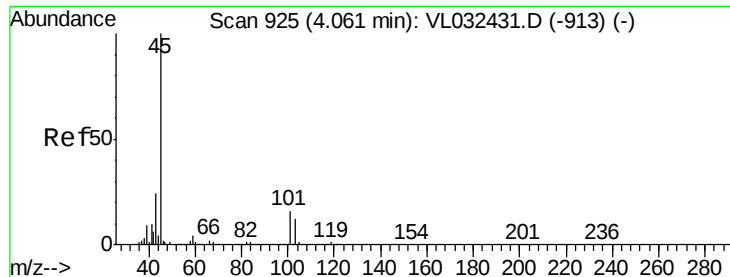
Tgt Ion: 59 Resp: 34266

Ion Ratio Lower Upper

59 100

57 14.9 0.0 0.0#





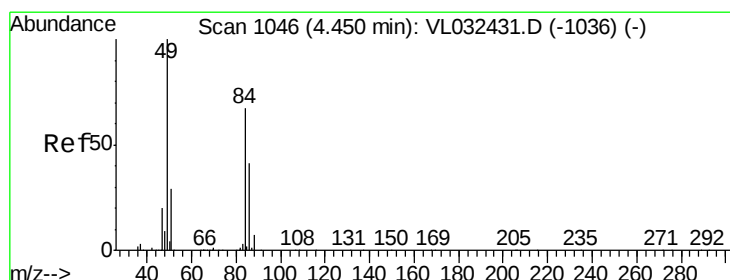
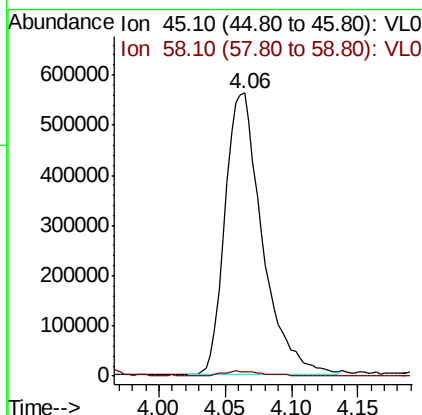
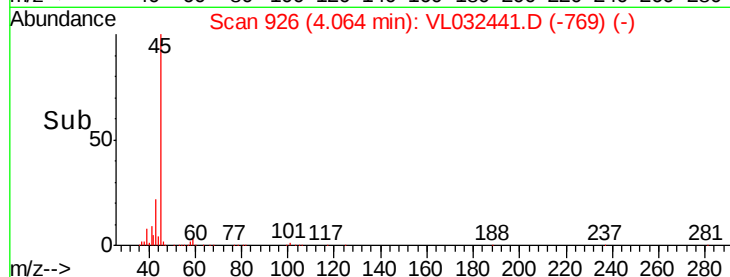
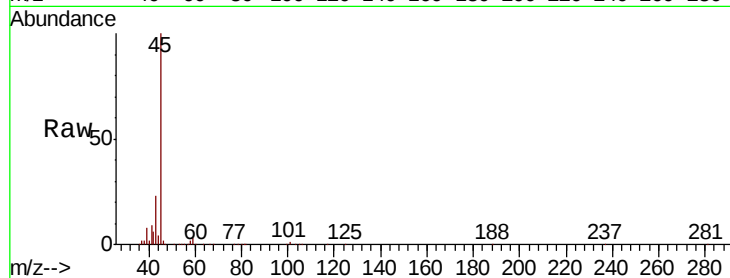
#19
Isopropyl Alcohol
Concen: 10.380 ppbv
RT: 4.06 min Scan# 926
Delta R.T. 0.00 min
Lab File: VL032441.D
Acq: 31 Aug 2018 15:04

Instrument :
MSVOA_L
ClientSampled :
SS-1

Tgt Ion: 45 Resp: 1100977
Ion Ratio Lower Upper
45 100
58 2.4 2.0 3.0

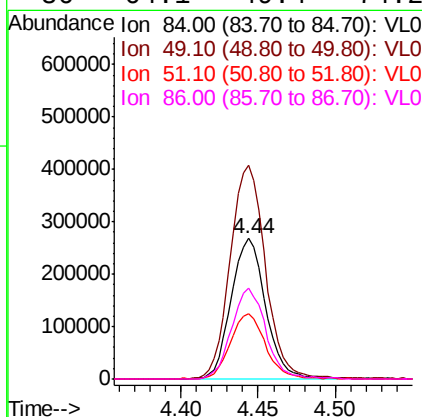
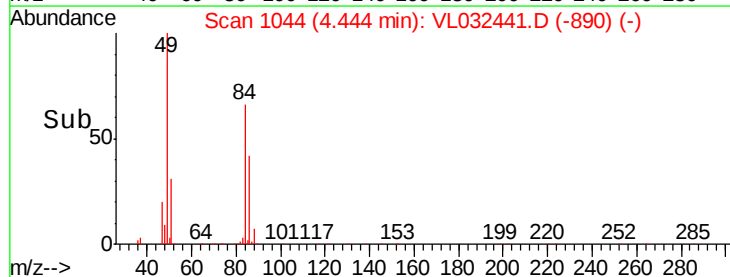
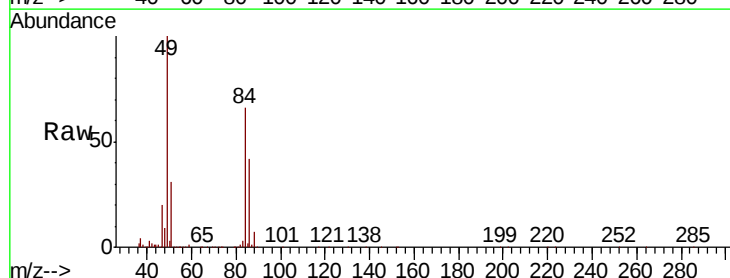
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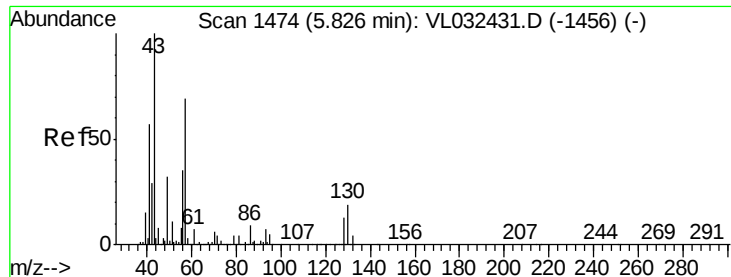
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#20
Methylene Chloride
Concen: 6.733 ppbv
RT: 4.44 min Scan# 1044
Delta R.T. -0.01 min
Lab File: VL032441.D
Acq: 31 Aug 2018 15:04

Tgt Ion: 84 Resp: 415108
Ion Ratio Lower Upper
84 100
49 151.7 119.1 178.7
51 46.7 35.2 52.8
86 64.1 49.4 74.2





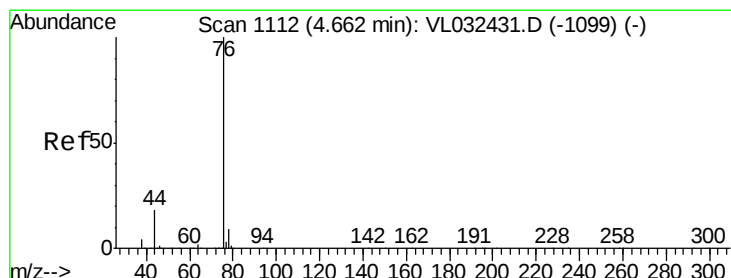
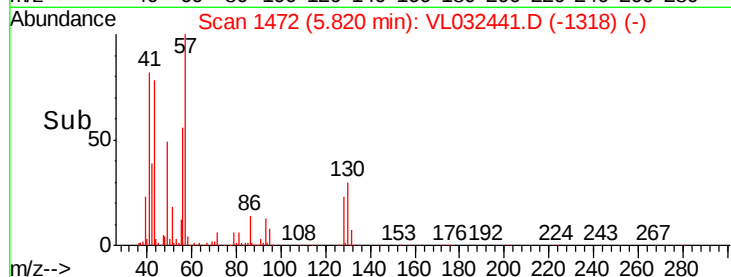
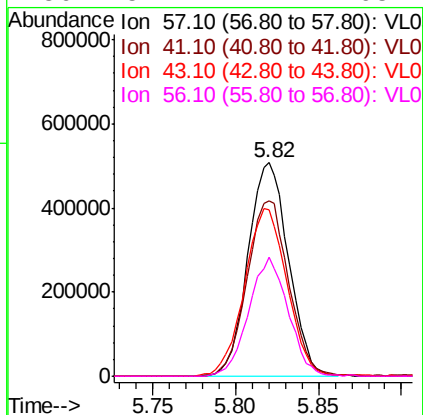
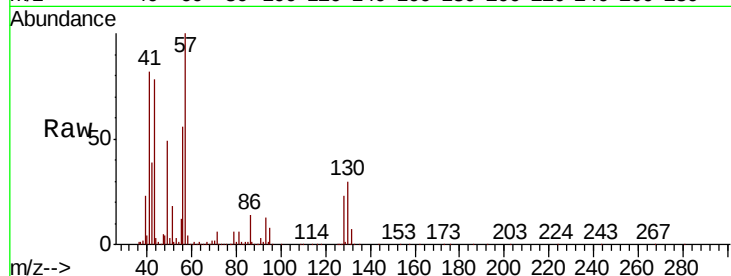
#26
Hexane
Concen: 5.034 ppbv
RT: 5.82 min Scan# 1472
Delta R.T. -0.01 min
Lab File: VL032441.D
Acq: 31 Aug 2018 15:04

Instrument :
MSVOA_L
ClientSampleId :
SS-1

Tgt Ion	Ratio	Resp	Lower	Upper
57	100	860693		
41	84.7	69.0	103.4	
43	82.7	172.1	258.1#	
56	54.2	42.2	63.2	

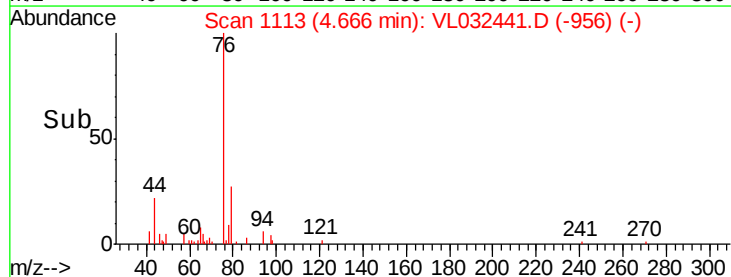
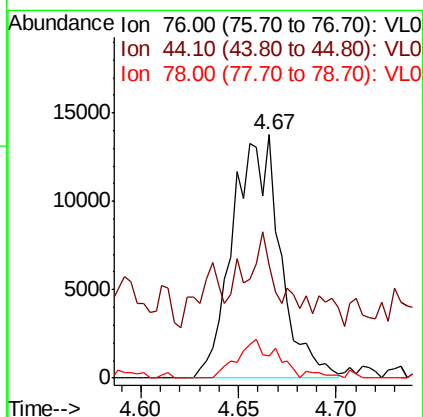
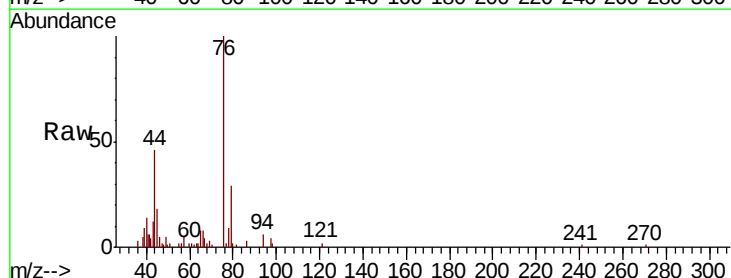
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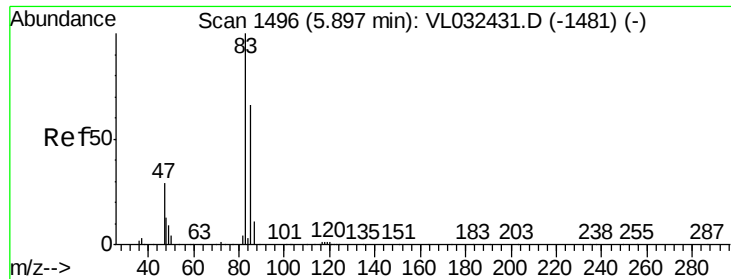
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#27
Carbon Disulfide
Concen: 0.147 ppbv m
RT: 4.67 min Scan# 1113
Delta R.T. 0.00 min
Lab File: VL032441.D
Acq: 31 Aug 2018 15:04

Tgt Ion	Ratio	Resp	Lower	Upper
76	100	23195		
44	11.7	14.0	21.0#	
78	0.0	7.5	11.3#	





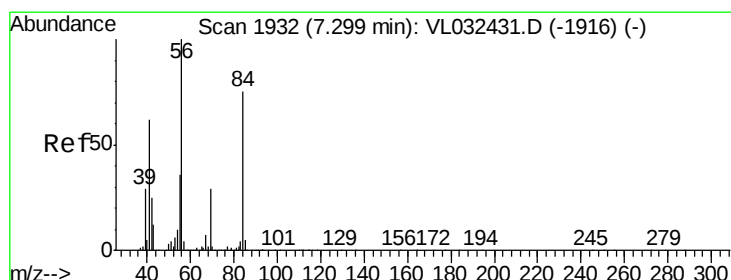
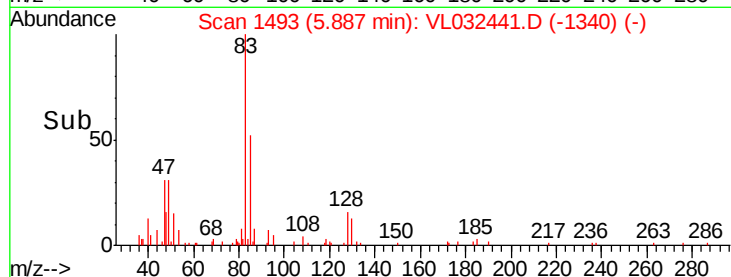
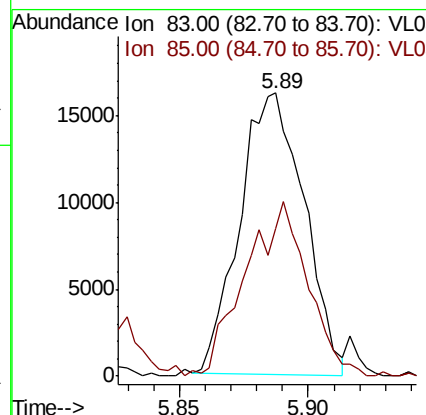
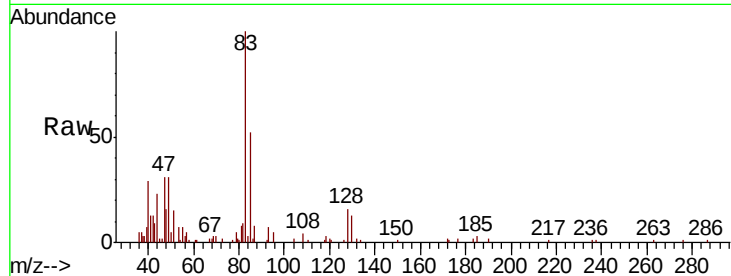
#29
Chloroform
Concen: 0.109 ppbv
RT: 5.89 min Scan# 1493
Delta R.T. -0.01 min
Lab File: VL032441.D
Acq: 31 Aug 2018 15:04

Instrument :
MSVOA_L
ClientSampled :
SS-1

Tgt Ion: 83 Resp: 28285
Ion Ratio Lower Upper
83 100
85 50.8 52.5 78.7#

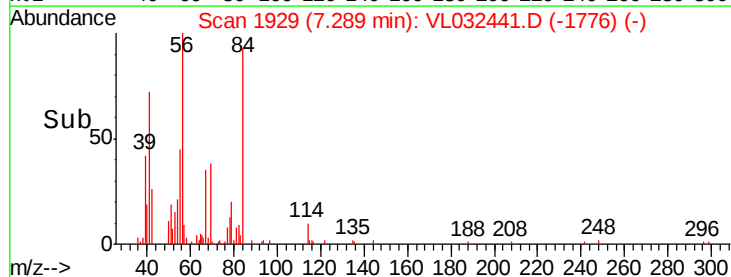
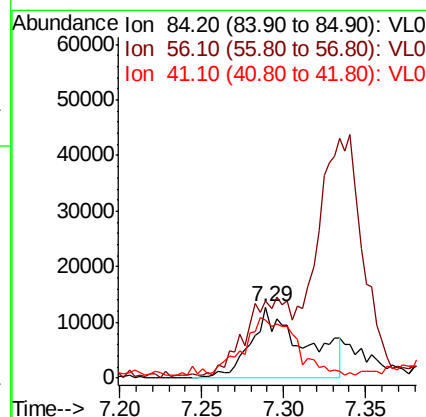
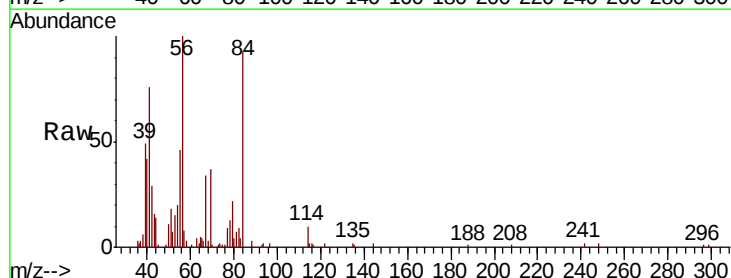
Manual Integrations
APPROVED

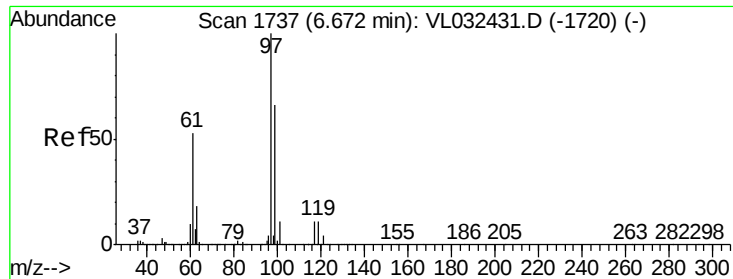
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#30
Cyclohexane
Concen: 0.229 ppbv m
RT: 7.29 min Scan# 1929
Delta R.T. -0.01 min
Lab File: VL032441.D
Acq: 31 Aug 2018 15:04

Tgt Ion: 84 Resp: 28665
Ion Ratio Lower Upper
84 100
56 0.0 113.5 170.3#
41 0.0 68.1 102.1#





#32

1,1,1-Trichloroethane

Concen: 0.064 ppbv

RT: 6.66 min Scan# 1734

Delta R.T. -0.01 min

Lab File: VL032441.D

Acq: 31 Aug 2018 15:04

Instrument :

MSVOA_L

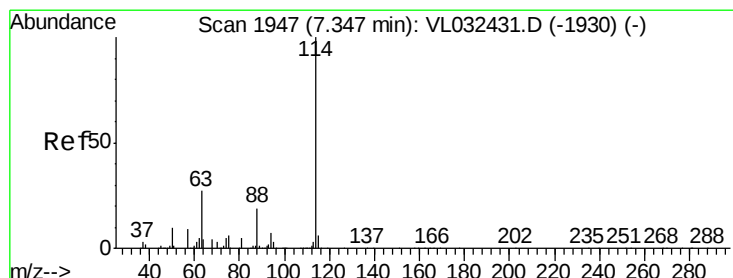
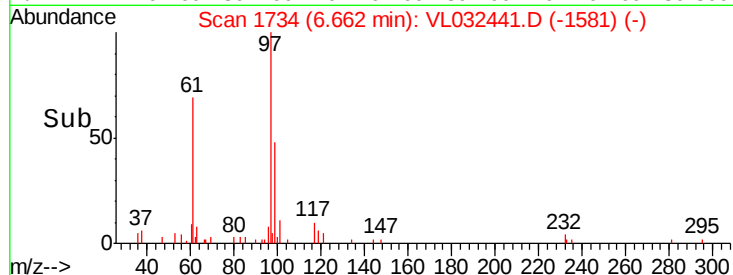
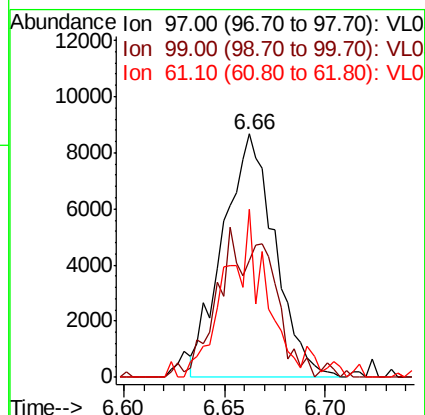
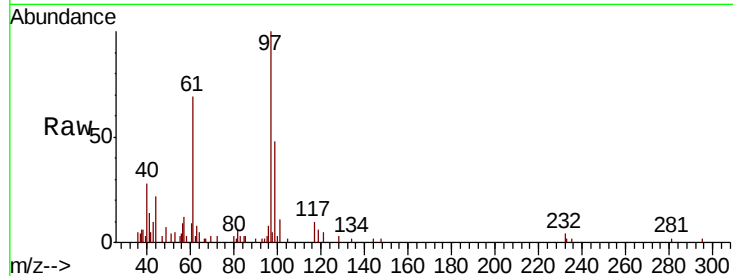
ClientSampled :

SS-1

Tgt Ion:	97	Resp:	15587
Ion Ratio	Lower	Upper	
97	100		
99	65.0	52.1	78.1
61	55.7	42.5	63.7

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#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

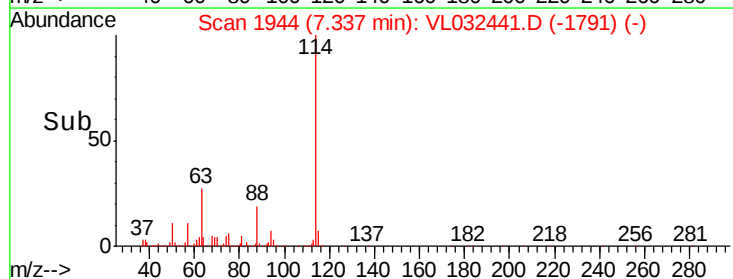
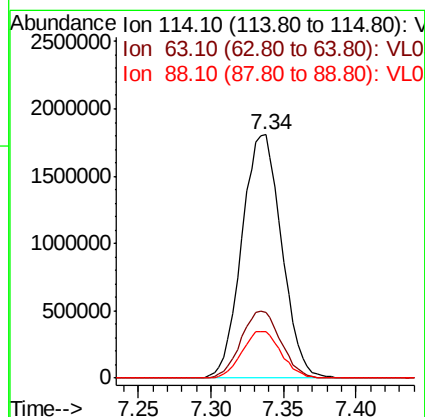
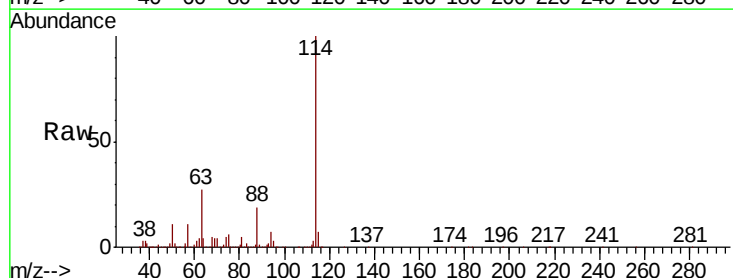
RT: 7.34 min Scan# 1944

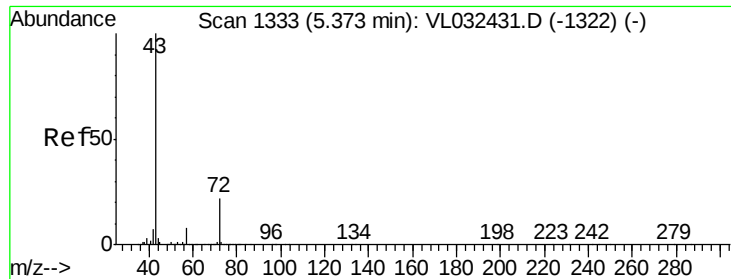
Delta R.T. -0.01 min

Lab File: VL032441.D

Acq: 31 Aug 2018 15:04

Tgt Ion:	114	Resp:	3455811
Ion Ratio	Lower	Upper	
114	100		
63	27.5	22.2	33.4
88	18.8	15.0	22.4





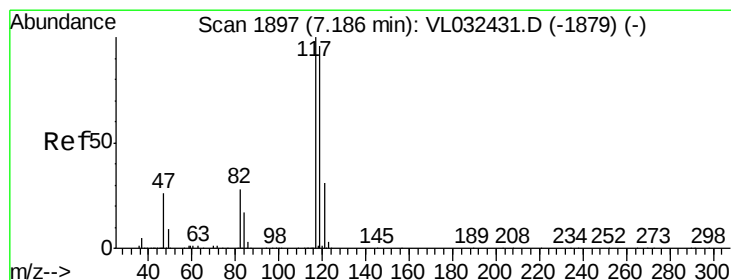
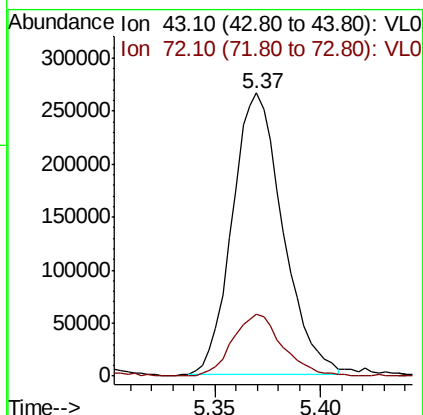
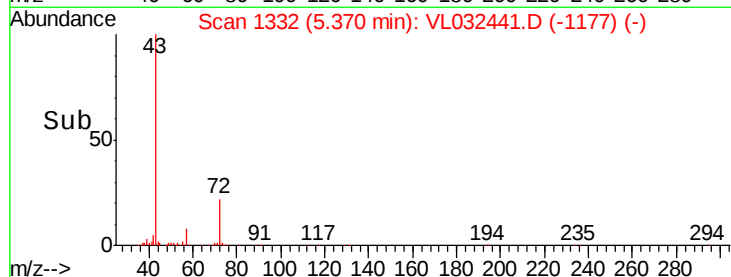
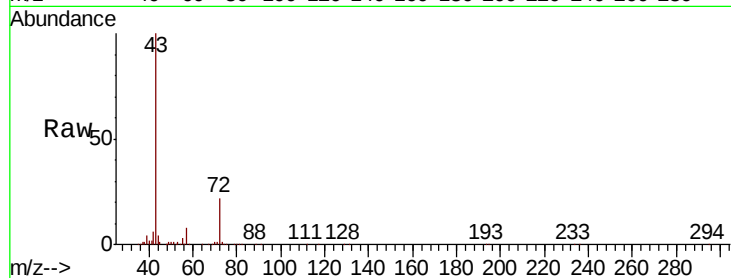
#34
2-Butanone
Concen: 1.924 ppbv
RT: 5.37 min Scan# 1332
Delta R.T. -0.00 min
Lab File: VL032441.D
Acq: 31 Aug 2018 15:04

Instrument :
MSVOA_L
ClientSampleId :
SS-1

Tgt Ion	Ratio	Lower	Upper
43	100		
72	22.0	17.8	26.6

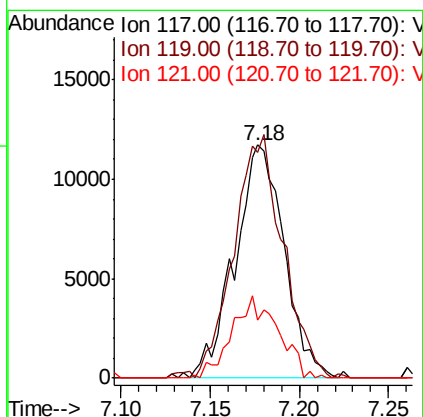
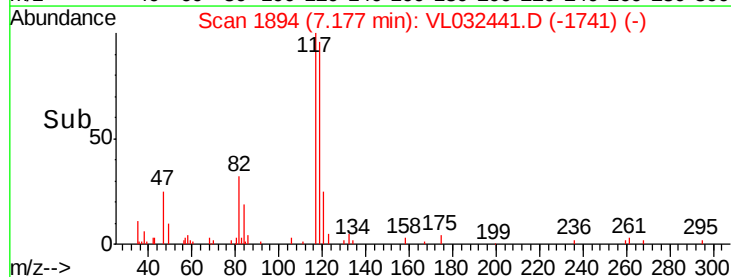
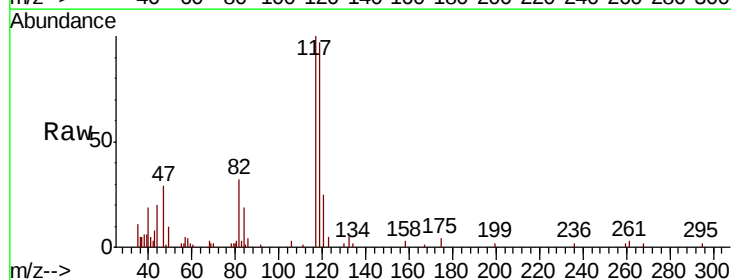
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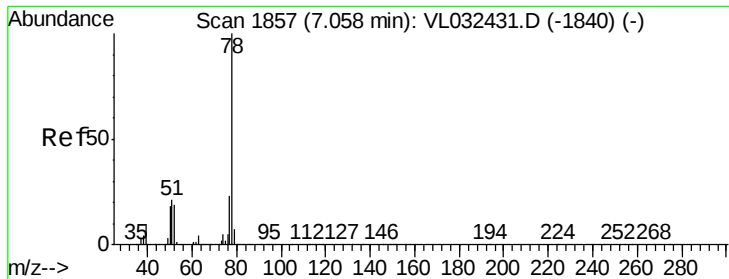
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#35
Carbon Tetrachloride
Concen: 0.097 ppbv m
RT: 7.18 min Scan# 1894
Delta R.T. -0.01 min
Lab File: VL032441.D
Acq: 31 Aug 2018 15:04

Tgt Ion	Ratio	Lower	Upper
117	100		
119	96.8	76.6	115.0
121	24.8	24.6	36.8





#36

Benzene

Concen: 1.806 ppbv

RT: 7.04 min Scan# 1853

Delta R.T. -0.01 min

Lab File: VL032441.D

Acq: 31 Aug 2018 15:04

Instrument :

MSVOA_L

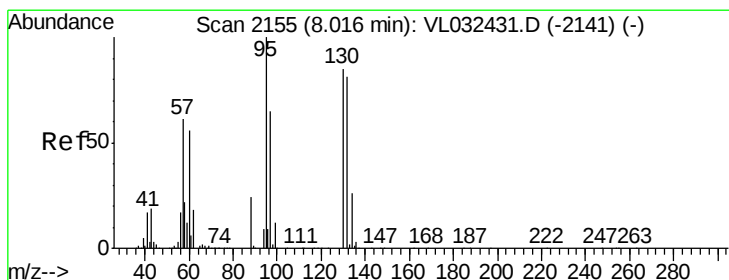
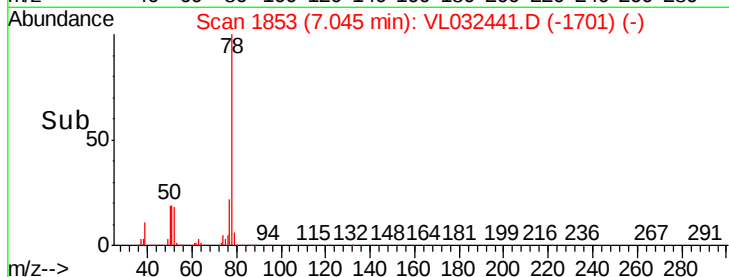
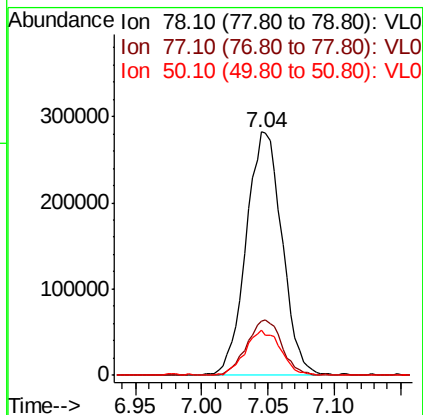
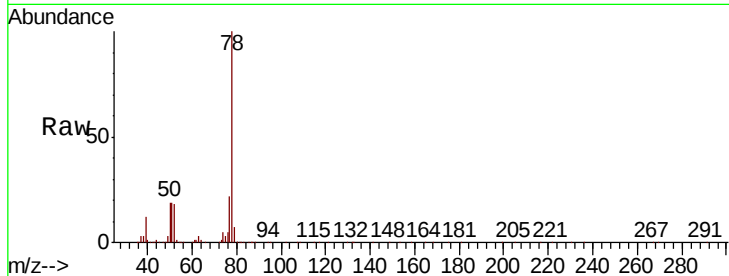
ClientSampled :

SS-1

Tgt Ion:	78	Resp:	531217
Ion Ratio	Lower	Upper	
78	100		
77	22.1	18.4	27.6
50	18.5	14.4	21.6

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#38

Trichloroethene

Concen: 0.316 ppbv

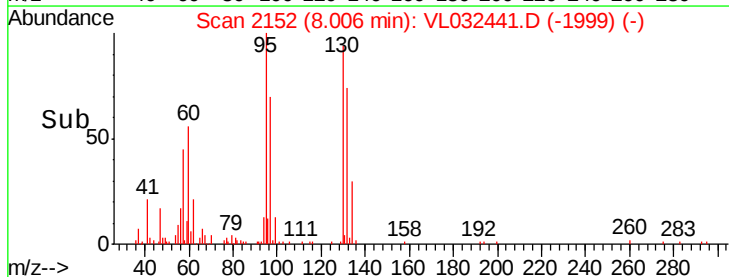
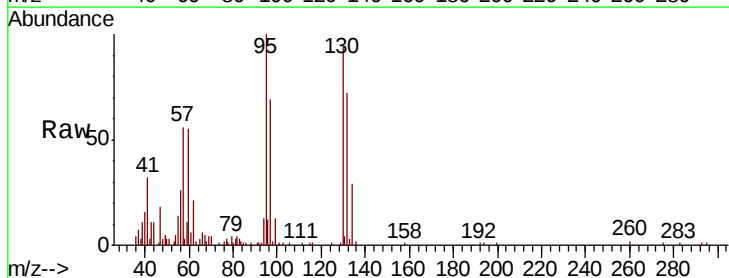
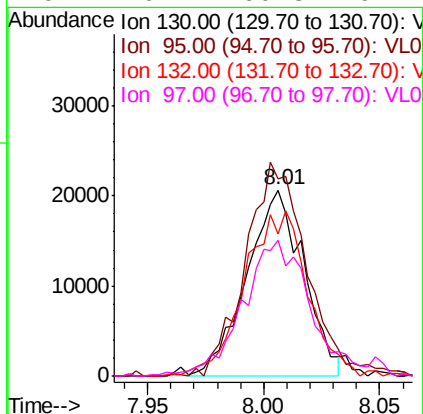
RT: 8.01 min Scan# 2152

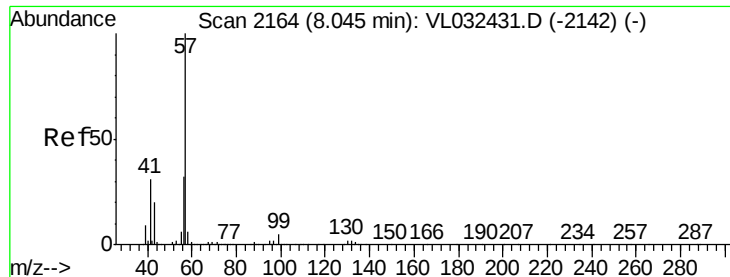
Delta R.T. -0.01 min

Lab File: VL032441.D

Acq: 31 Aug 2018 15:04

Tgt Ion:	130	Resp:	35287
Ion Ratio	Lower	Upper	
130	100		
95	106.8	94.2	141.4
132	74.8	76.2	114.4#
97	70.7	60.8	91.2





#44

2,2,4-Trimethylpentane

Concen: 0.262 ppbv

RT: 8.04 min Scan# 2161

Delta R.T. -0.01 min

Lab File: VL032441.D

Acq: 31 Aug 2018 15:04

Instrument :

MSVOA_L

ClientSampleId :

SS-1

Tgt Ion: 57 Resp: 148700
Ion Ratio Lower Upper

57 100

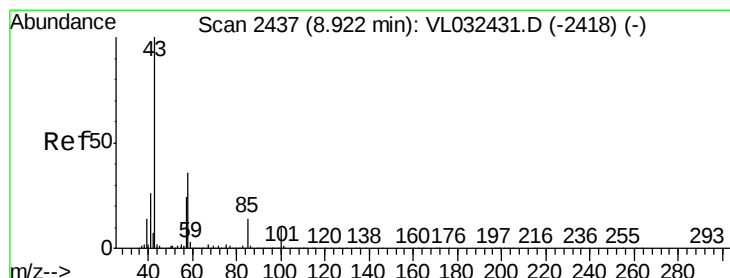
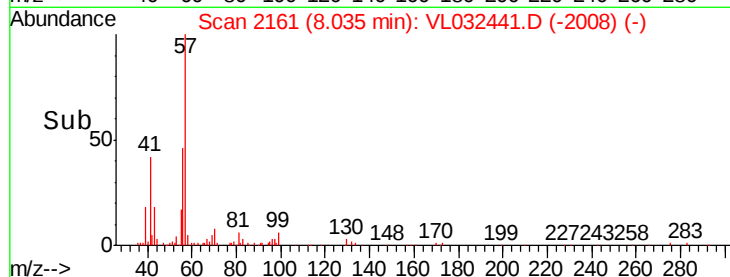
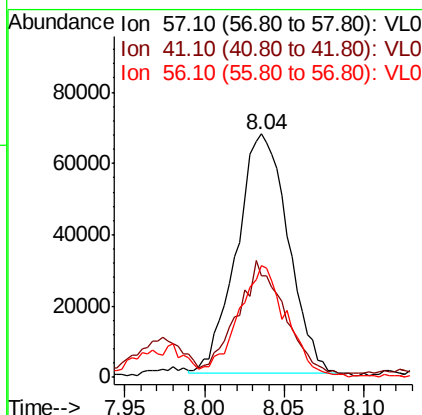
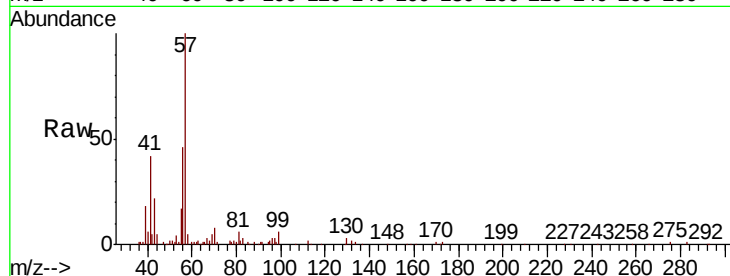
41 44.0 24.4 36.6#

56 42.8 25.7 38.5#

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#50

4-Methyl-2-Pentanone

Concen: 0.263 ppbv

RT: 8.93 min Scan# 2439

Delta R.T. 0.01 min

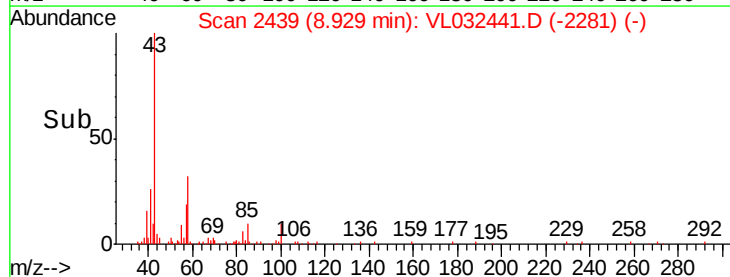
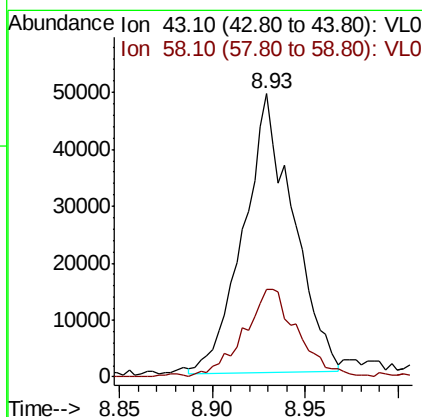
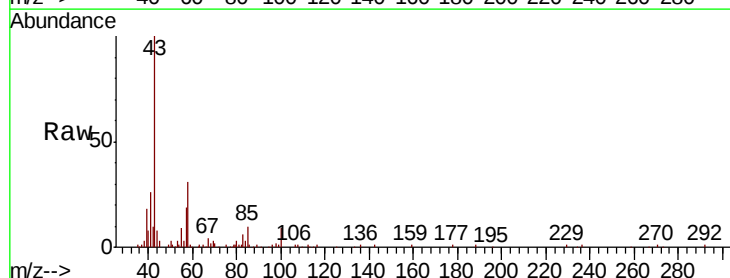
Lab File: VL032441.D

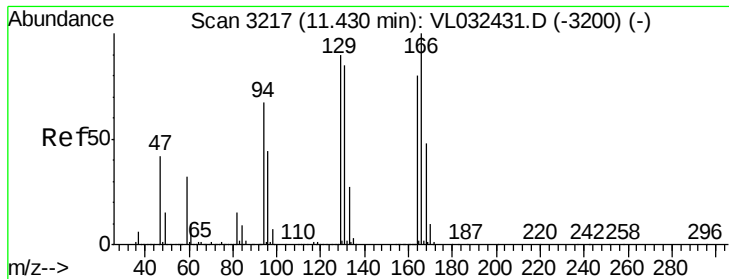
Acq: 31 Aug 2018 15:04

Tgt Ion: 43 Resp: 90948
Ion Ratio Lower Upper

43 100

58 35.0 29.0 43.4





#52

Tetrachloroethene

Concen: 0.711 ppbv

RT: 11.42 min Scan# 3215

Delta R.T. -0.01 min

Lab File: VL032441.D

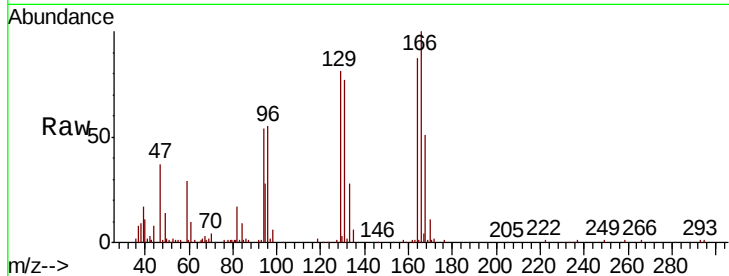
Acq: 31 Aug 2018 15:04

Instrument :

MSVOA_L

ClientSampled :

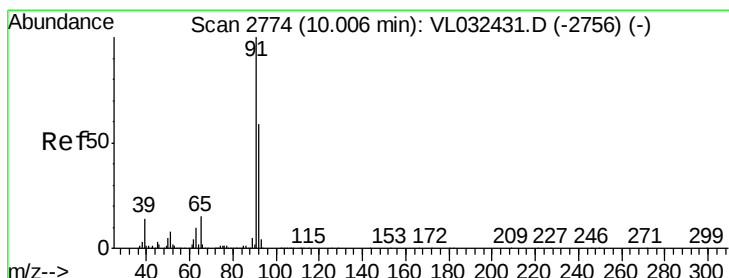
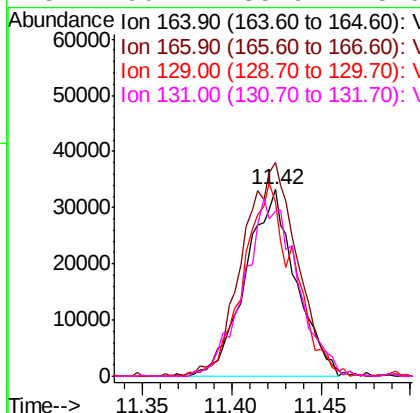
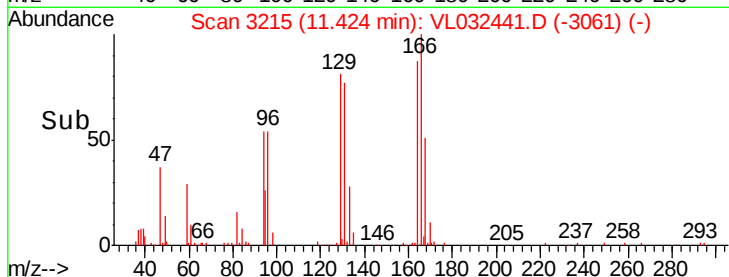
SS-1



Tgt Ion	Ratio	Lower	Upper
164	100		
166	113.2	100.6	150.8
129	91.1	89.9	134.9
131	90.2	85.9	128.9

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#53

Toluene

Concen: 2.151 ppbv

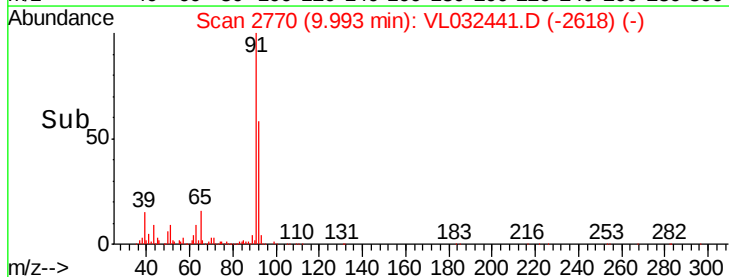
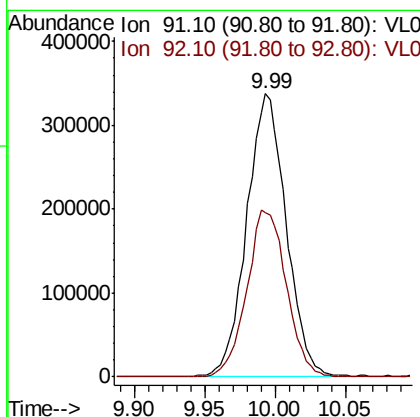
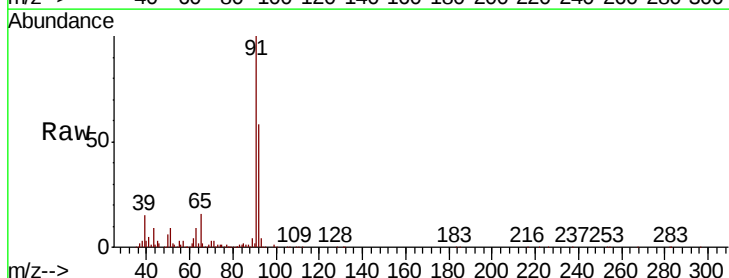
RT: 9.99 min Scan# 2770

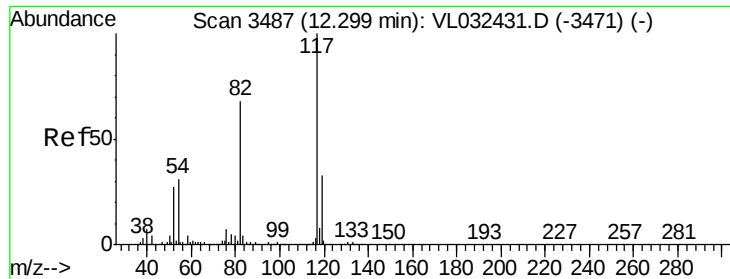
Delta R.T. -0.01 min

Lab File: VL032441.D

Acq: 31 Aug 2018 15:04

Tgt Ion	Ratio	Lower	Upper
91	100		
92	59.5	48.1	72.1





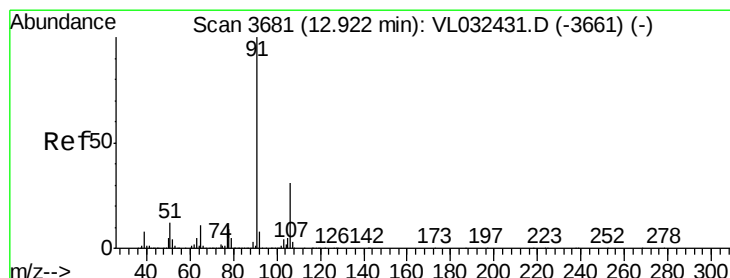
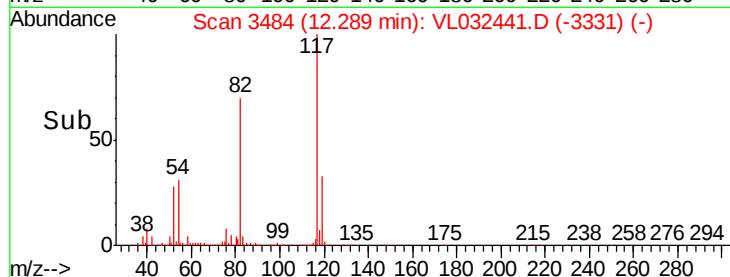
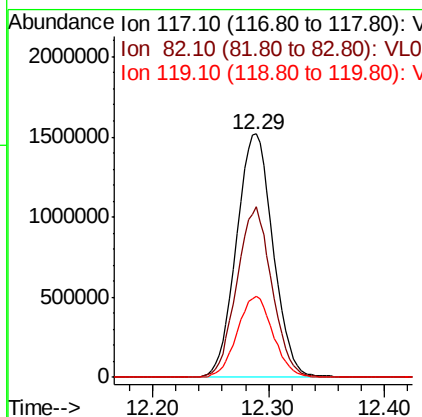
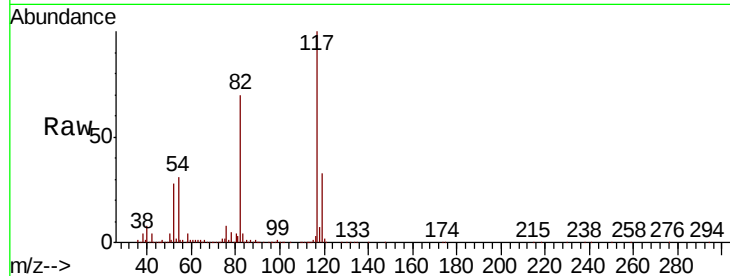
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.29 min Scan# 3484
Delta R.T. -0.01 min
Lab File: VL032441.D
Acq: 31 Aug 2018 15:04

Instrument :
MSVOA_L
ClientSampleId :
SS-1

Tgt Ion: 117 Resp: 3336015
Ion Ratio Lower Upper
117 100
82 67.8 53.0 79.6
119 32.7 45.9 68.9#

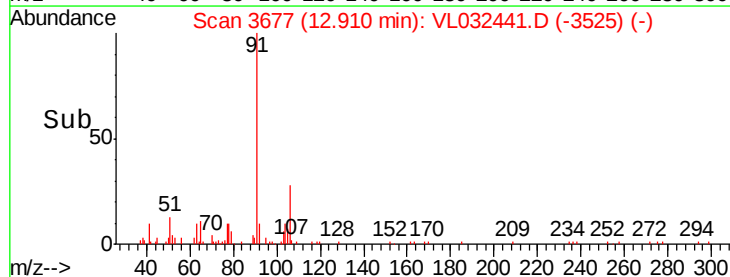
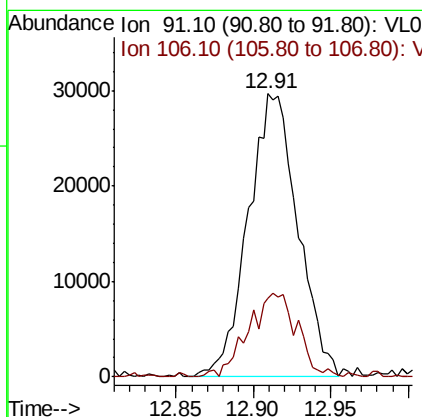
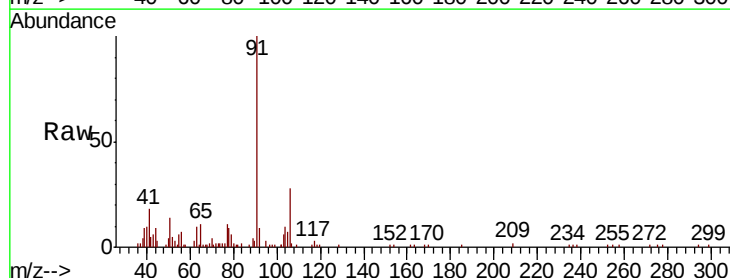
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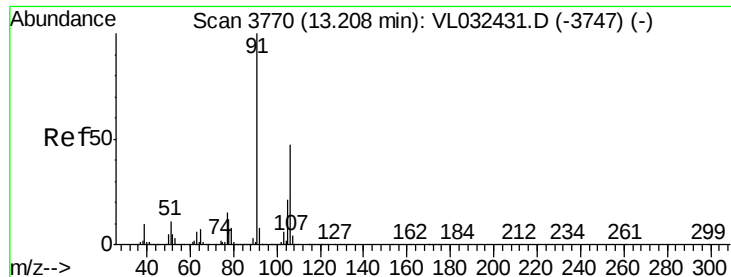
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#58
Ethyl Benzene
Concen: 0.166 ppbv
RT: 12.91 min Scan# 3677
Delta R.T. -0.01 min
Lab File: VL032441.D
Acq: 31 Aug 2018 15:04

Tgt Ion: 91 Resp: 66332
Ion Ratio Lower Upper
91 100
106 27.7 24.8 37.2





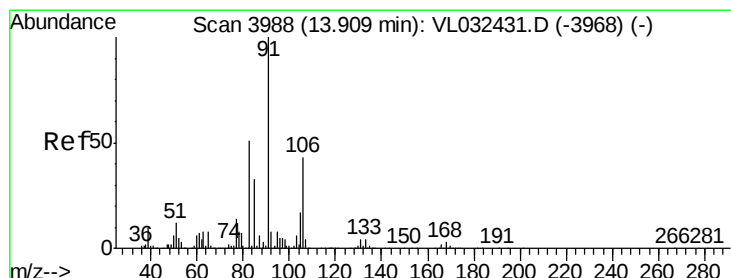
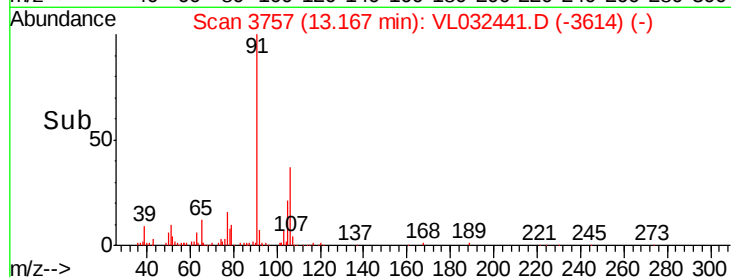
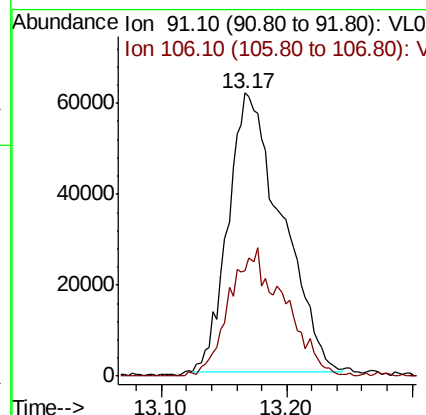
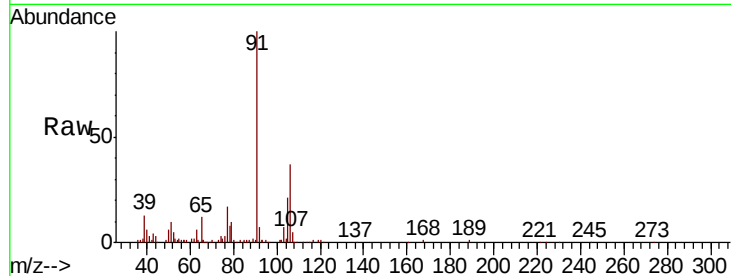
#59
m/p-Xylene
Concen: 0.515 ppbv
RT: 13.17 min Scan# 3757
Delta R.T. -0.04 min
Lab File: VL032441.D
Acq: 31 Aug 2018 15:04

Instrument :
MSVOA_L
ClientSampled :
SS-1

Tgt Ion: 91 Resp: 183236
Ion Ratio Lower Upper
91 100
106 46.6 36.6 55.0

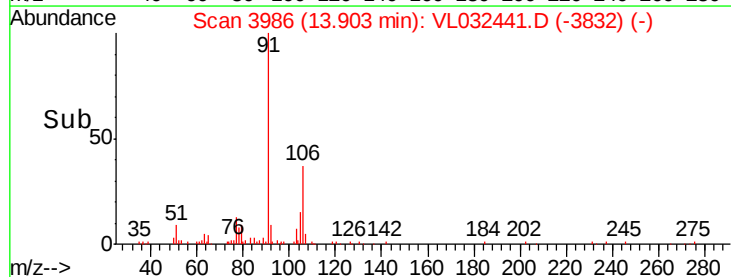
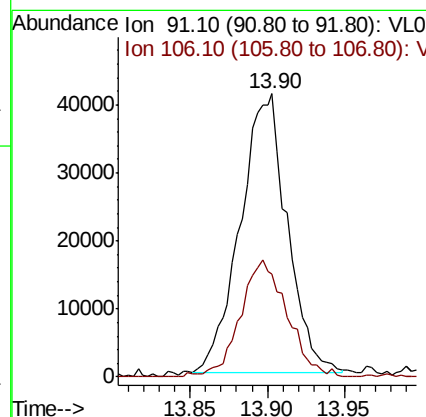
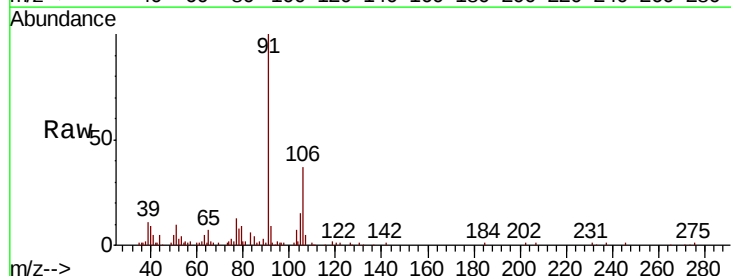
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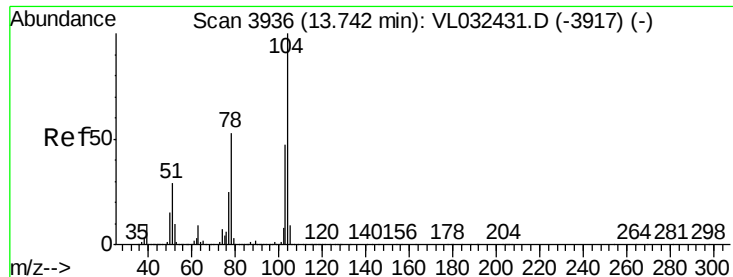
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#60
o-Xylene
Concen: 0.248 ppbv
RT: 13.90 min Scan# 3986
Delta R.T. -0.01 min
Lab File: VL032441.D
Acq: 31 Aug 2018 15:04

Tgt Ion: 91 Resp: 86714
Ion Ratio Lower Upper
91 100
106 41.8 21.9 65.7





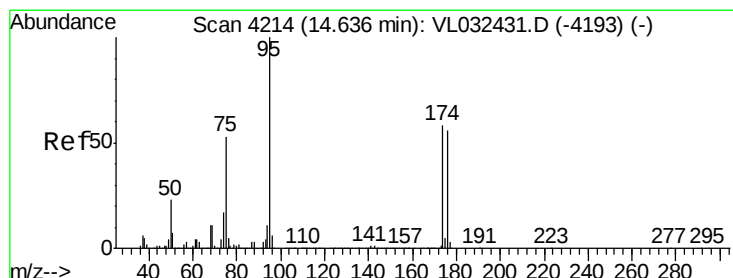
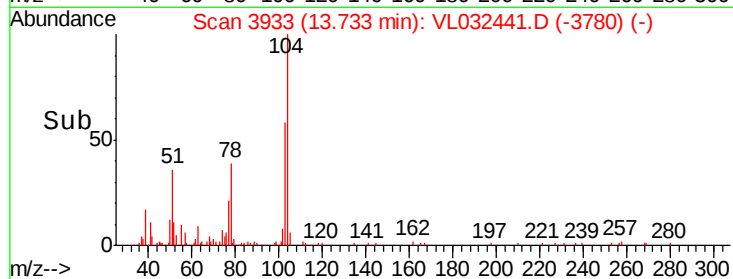
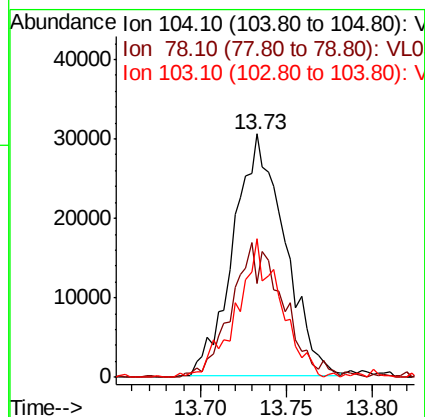
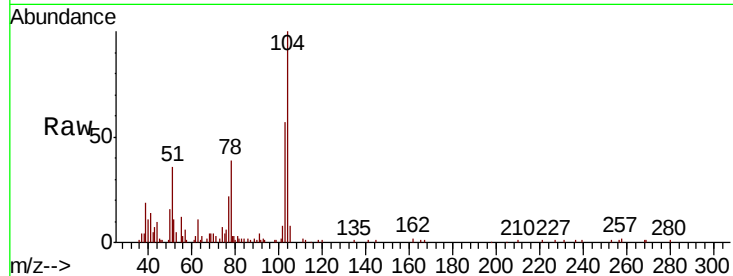
#61
Styrene
Concen: 0.279 ppbv
RT: 13.73 min Scan# 3933
Delta R.T. -0.01 min
Lab File: VL032441.D
Acq: 31 Aug 2018 15:04

Instrument :
MSVOA_L
ClientSampled :
SS-1

Tgt Ion	Ratio	Lower	Upper
104	100		
78	56.5	41.8	62.8
103	48.8	38.0	57.0

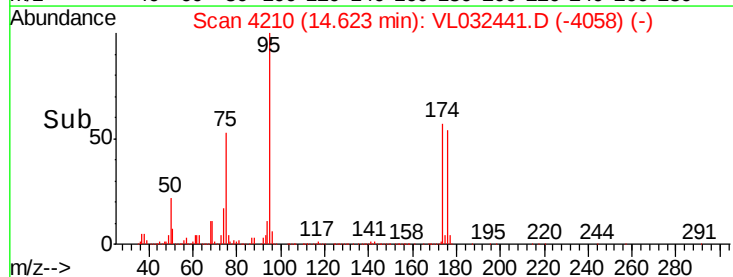
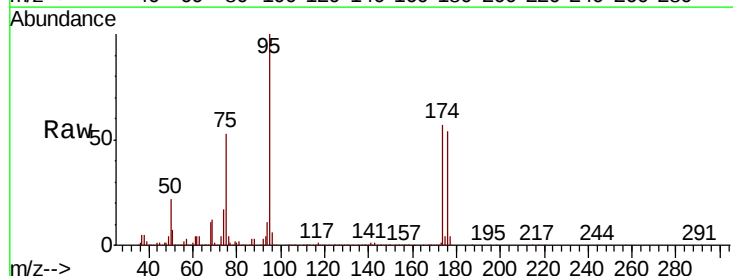
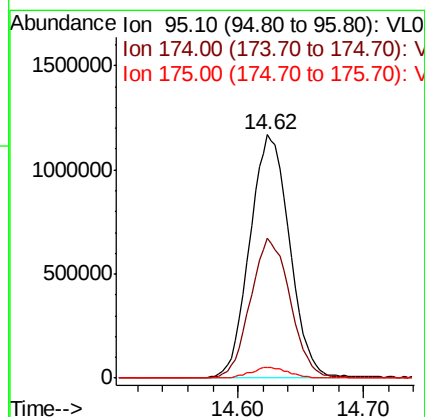
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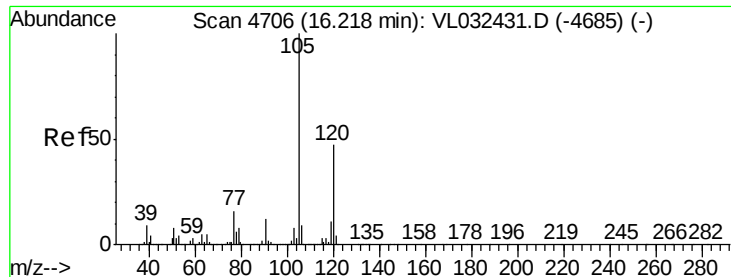
apatel
9/4/2018 8:25:58 AM



#68
1-Bromo-4-Fluorobenzene
Concen: 10.424 ppbv
RT: 14.62 min Scan# 4210
Delta R.T. -0.01 min
Lab File: VL032441.D
Acq: 31 Aug 2018 15:04

Tgt Ion	Ratio	Lower	Upper
95	100		
174	57.7	46.3	69.5
175	4.3	3.4	5.0





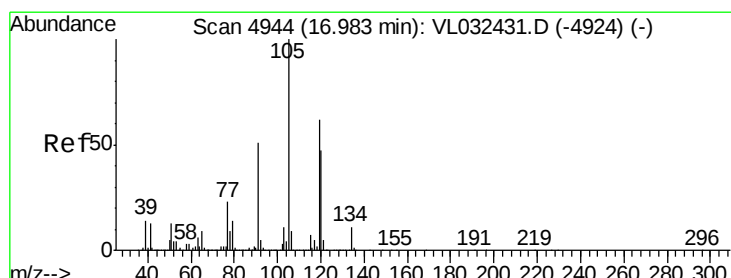
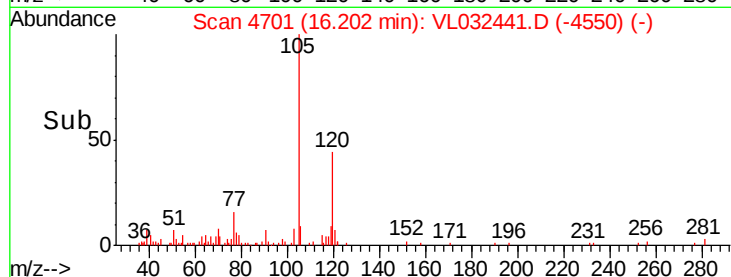
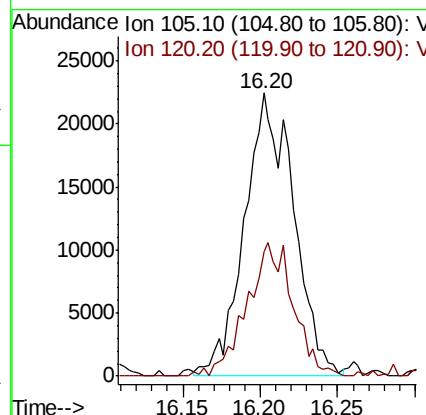
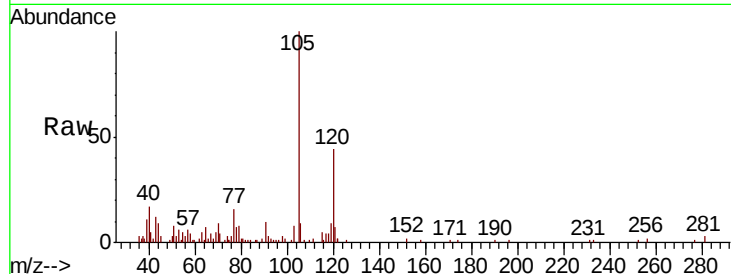
#73
 1,3,5-Trimethylbenzene
 Concen: 0.130 ppbv m
 RT: 16.20 min Scan# 4701
 Delta R.T. -0.02 min
 Lab File: VL032441.D
 Acq: 31 Aug 2018 15:04

Instrument :
 MSVOA_L
 ClientSampled :
 SS-1

Tgt Ion	Ratio	Lower	Upper
105	100		
120	44.2	37.9	56.9

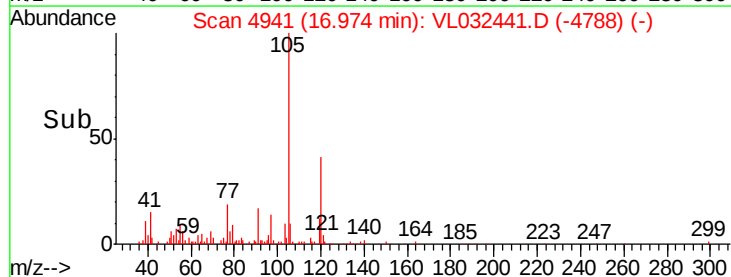
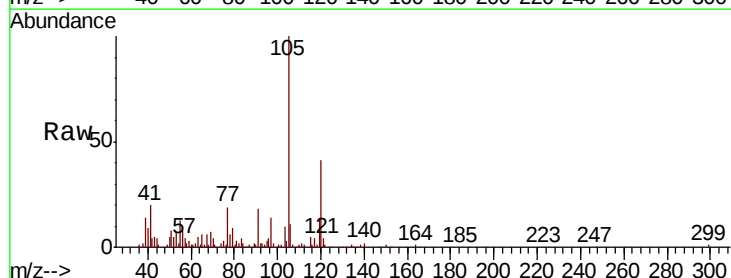
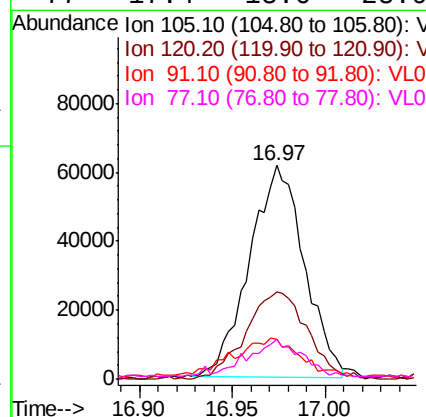
Manual Integrations
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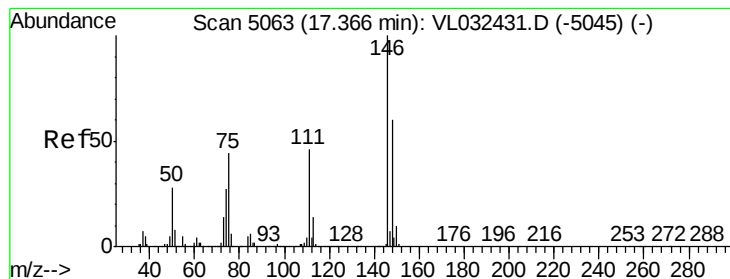
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#74
 1,2,4-Trimethylbenzene
 Concen: 0.302 ppbv
 RT: 16.97 min Scan# 4941
 Delta R.T. -0.01 min
 Lab File: VL032441.D
 Acq: 31 Aug 2018 15:04

Tgt Ion	Ratio	Lower	Upper
105	100		
120	42.0	37.8	56.8
91	16.6	41.4	62.0#
77	17.4	18.6	28.0#





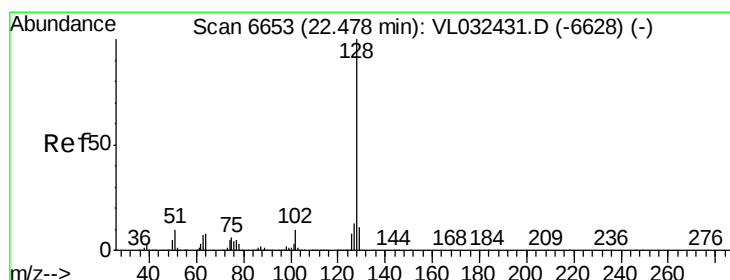
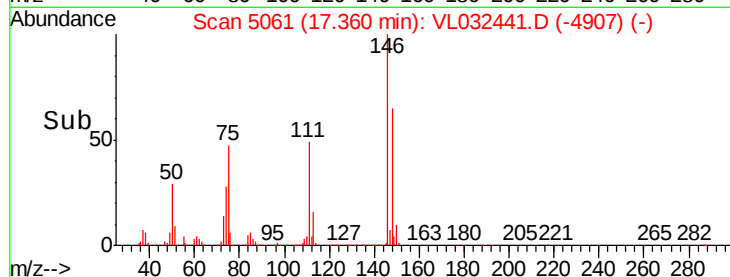
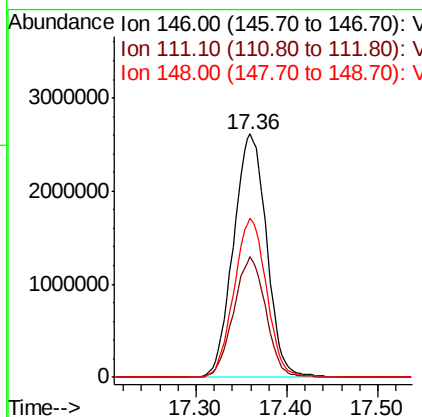
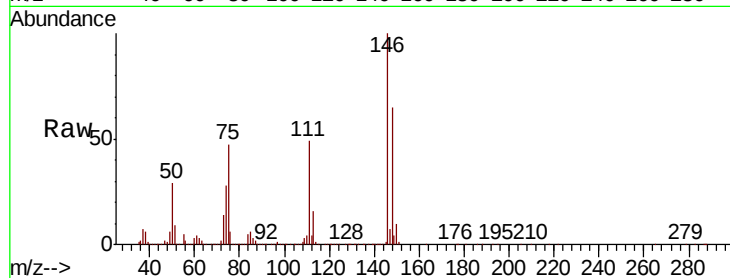
#76
 1,4-Dichlorobenzene
 Concen: 28.753 ppbv
 RT: 17.36 min Scan# 5061
 Delta R.T. -0.01 min
 Lab File: VL032441.D
 Acq: 31 Aug 2018 15:04

Instrument :
 MSVOA_L
 ClientSampleId :
 SS-1

Tgt Ion	Ratio	Lower	Upper
146	100		
111	48.0	23.4	70.2
148	64.3	32.0	96.2

Manual Integrations
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#79
 Naphthalene
 Concen: 0.332 ppbv m
 RT: 22.47 min Scan# 6651
 Delta R.T. -0.01 min
 Lab File: VL032441.D
 Acq: 31 Aug 2018 15:04

Tgt Ion	Ratio	Lower	Upper
128	100		
127	11.5	10.2	15.2
129	12.7	8.5	12.7

