

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL021319\
 Data File : VL033195.D
 Acq On : 13 Feb 2019 20:26
 Operator : SY/AP
 Sample : K1408-02
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 AB-SS

Manual Integrations
 APPROVED

MMDadoda
 2/20/2019 12:24:18 PM

Quant Time: Feb 20 08:06:55 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL020519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Wed Feb 20 2019
 QLast Update : Wed Feb 20 06:00:52 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	821692	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	1838174	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	1890820	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	1721396	11.68	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	116.80%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.08	85	77461	0.493	ppbv	94
3) Chlorodifluoromethane	3.01	51	45774m	0.463	ppbv	
4) Chloromethane	3.17	50	21036	0.403	ppbv	97
9) Propene	3.05	41	80687	1.688	ppbv #	80
11) Trichlorofluoromethane	4.01	101	193228	1.519	ppbv	97
13) Ethanol	3.65	45	196239	12.082	ppbv	96
15) Acetone	3.90	43	2337431	25.249	ppbv	99
17) tert-Butyl alcohol	4.37	59	28673m	1.612	ppbv	
19) Isopropyl Alcohol	4.03	45	113948	1.815	ppbv #	95
20) Methylene Chloride	4.41	84	66676m	1.811	ppbv	
26) Hexane	5.78	57	74062	0.758	ppbv #	42
34) 2-Butanone	5.33	43	762931	6.543	ppbv	99
35) Carbon Tetrachloride	7.14	117	8393m	0.060	ppbv	
36) Benzene	7.01	78	327141	1.756	ppbv	98
50) 4-Methyl-2-Pentanone	8.88	43	157324	0.841	ppbv	96
51) 2-Hexanone	10.28	43	29356	0.199	ppbv #	98
52) Tetrachloroethene	11.38	164	16557m	0.231	ppbv	
53) Toluene	9.95	91	218322	0.990	ppbv	96
58) Ethyl Benzene	12.86	91	915411	2.949	ppbv	98
59) m/p-Xylene	13.12	91	2050971	7.944	ppbv	99
60) o-Xylene	13.85	91	588388	2.337	ppbv	98
61) Styrene	13.69	104	80759m	0.425	ppbv	

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

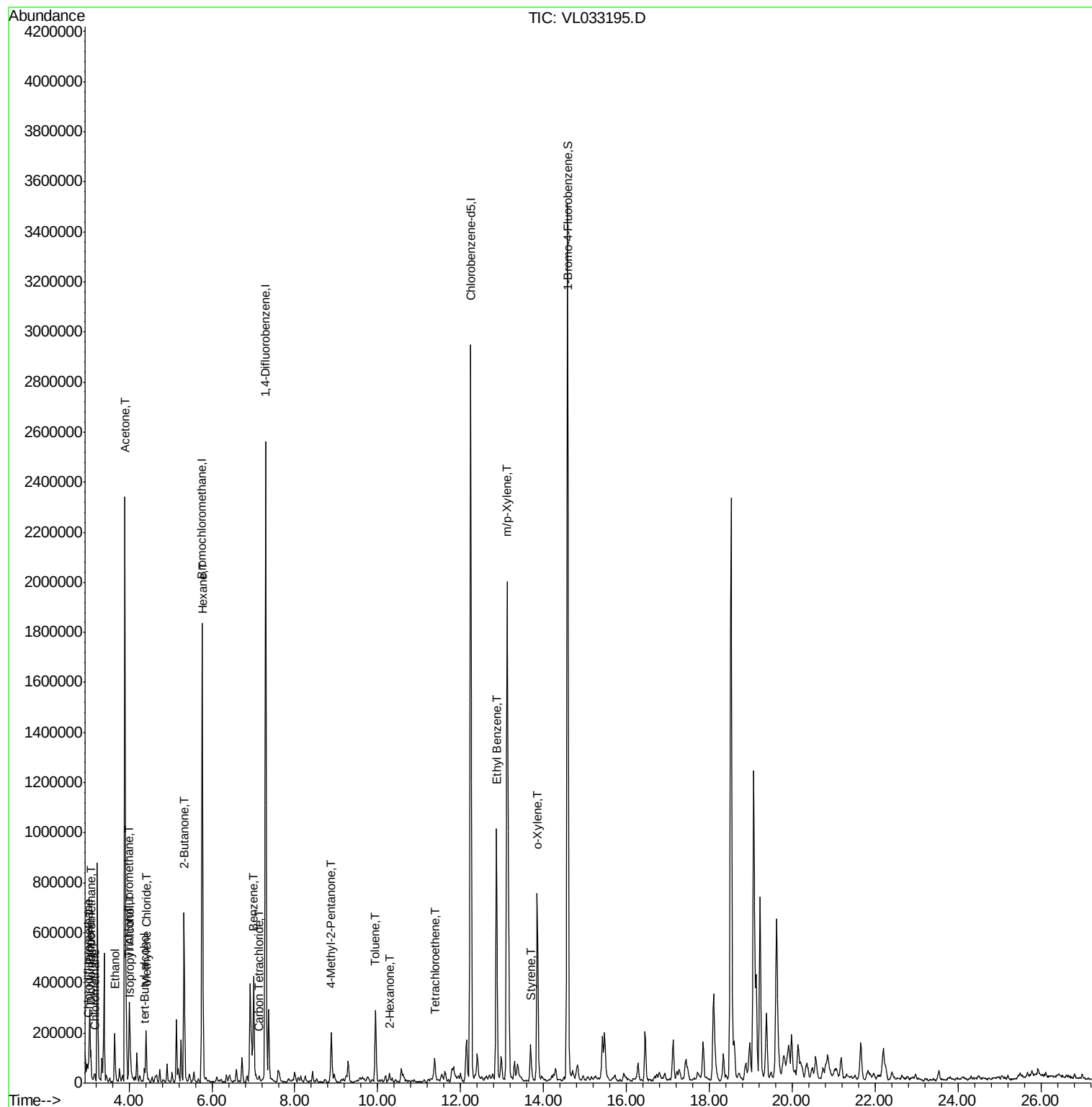
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_L\DATA\VL021319\
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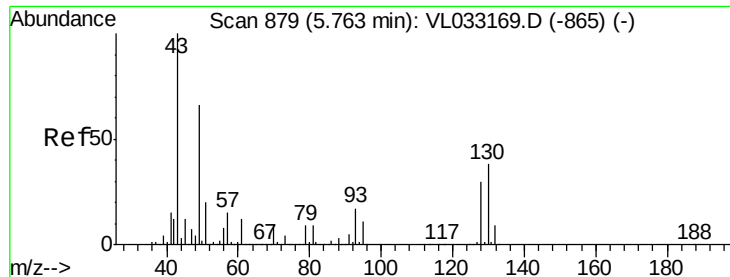
Instrument :
MSVOA_L
ClientSampleId :
AB-SS

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Quant Time: Feb 20 08:06:55 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_L\METHODS\VL020519AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Feb
QLast Update : Wed Feb 20 06:00:52 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 879

Delta R.T. -0.00 min

Lab File: VL033195.D

Acq: 13 Feb 2019 20:26

Instrument :

MSVOA_L

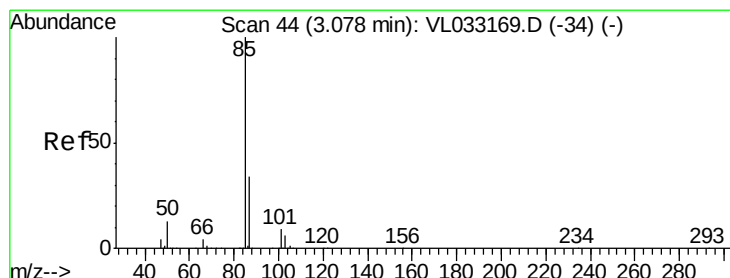
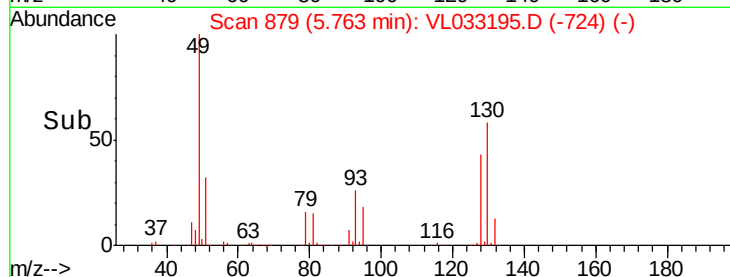
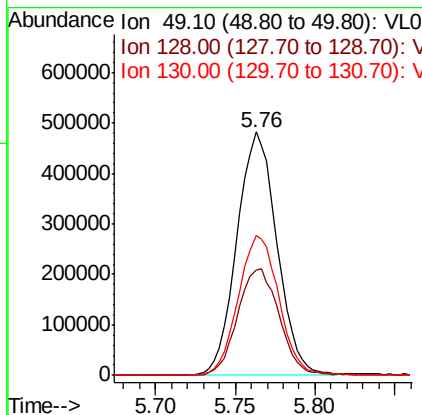
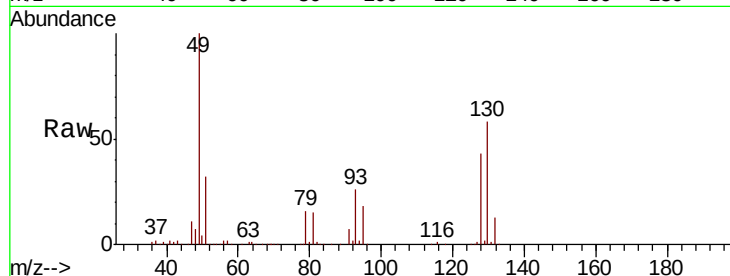
ClientSampleId :

AB-SS

Tgt Ion:	49	Resp:	821692
Ion Ratio	Lower	Upper	
49	100		
128	45.6	23.6	71.0
130	58.7	30.3	91.0

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#2

Dichlorodifluoromethane

Concen: 0.493 ppbv

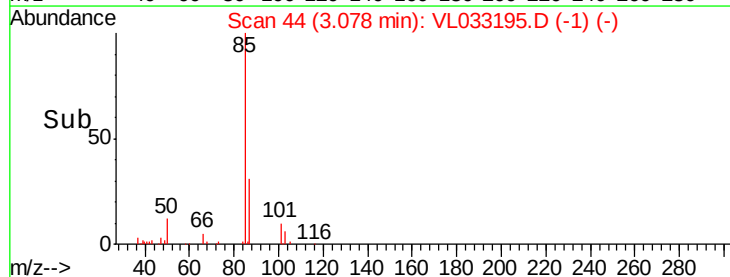
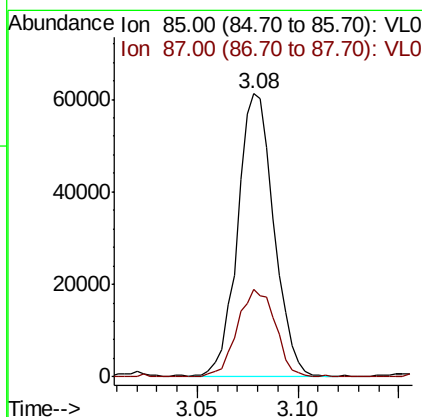
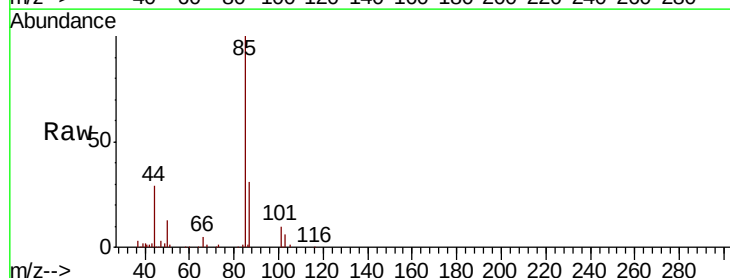
RT: 3.08 min Scan# 44

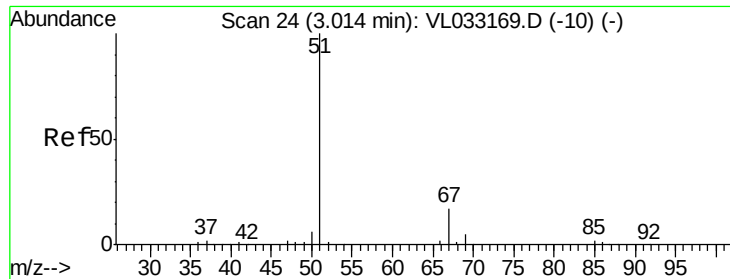
Delta R.T. -0.00 min

Lab File: VL033195.D

Acq: 13 Feb 2019 20:26

Tgt Ion:	85	Resp:	77461
Ion Ratio	Lower	Upper	
85	100		
87	31.1	27.4	41.2





#3

Chlorodifluoromethane

Concen: 0.463 ppbv

RT: 3.01 min Scan# 24

Delta R.T. -0.00 min

Lab File: VL033195.D

Acq: 13 Feb 2019 20:26

Instrument :

MSVOA_L

ClientSampleId :

AB-SS

Tgt Ion: 51 Resp: 45774

Ion Ratio Lower Upper

51 100

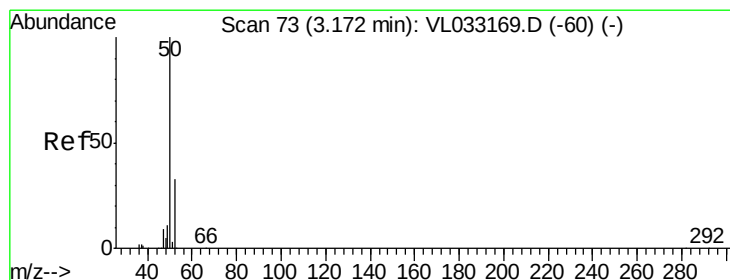
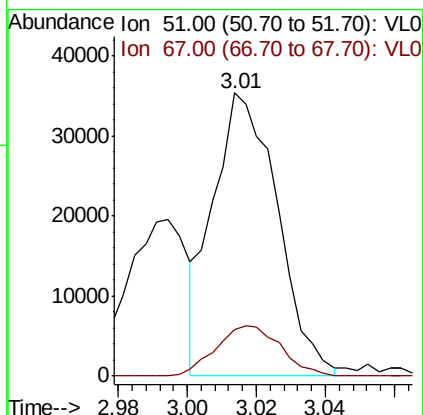
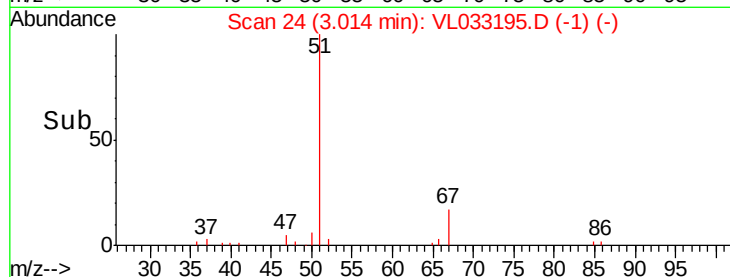
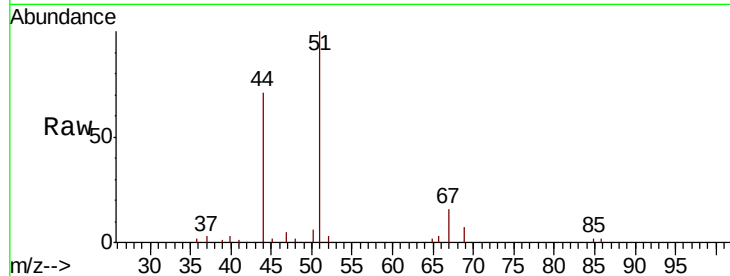
67 18.0 14.0 21.0

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#4

Chloromethane

Concen: 0.403 ppbv

RT: 3.17 min Scan# 74

Delta R.T. 0.00 min

Lab File: VL033195.D

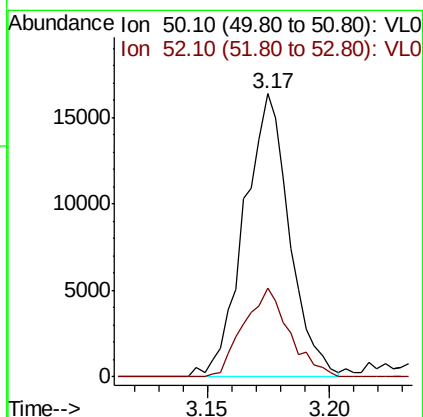
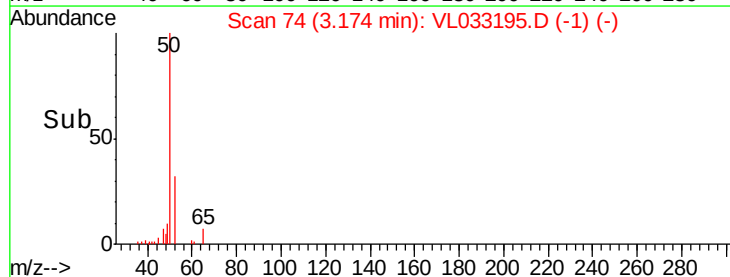
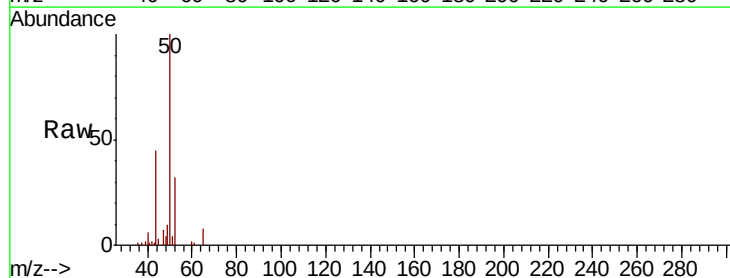
Acq: 13 Feb 2019 20:26

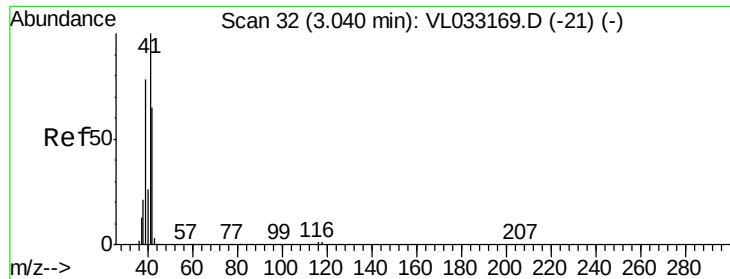
Tgt Ion: 50 Resp: 21036

Ion Ratio Lower Upper

50 100

52 31.6 26.5 39.7





#9

Propene

Concen: 1.688 ppbv

RT: 3.05 min Scan# 35

Delta R.T. 0.01 min

Lab File: VL033195.D

Acq: 13 Feb 2019 20:26

Instrument :

MSVOA_L

ClientSampleId :

AB-SS

Tgt Ion: 41 Resp: 80687

Ion Ratio Lower Upper

41 100

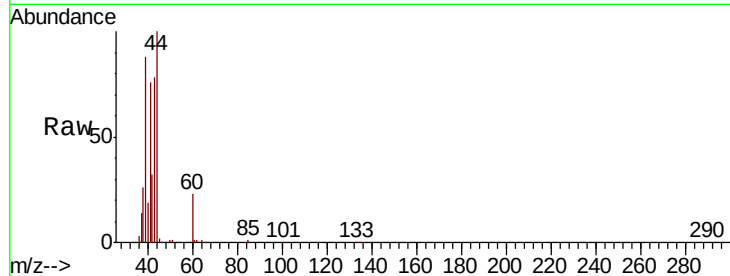
42 52.7 55.0 82.6#

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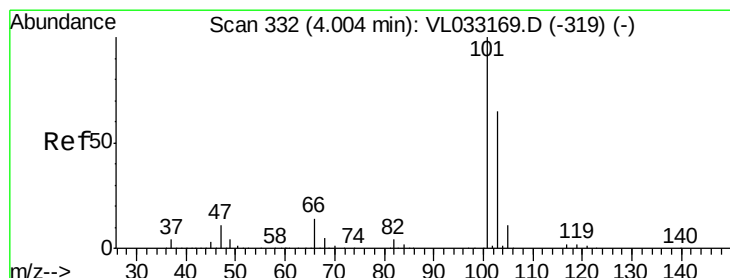
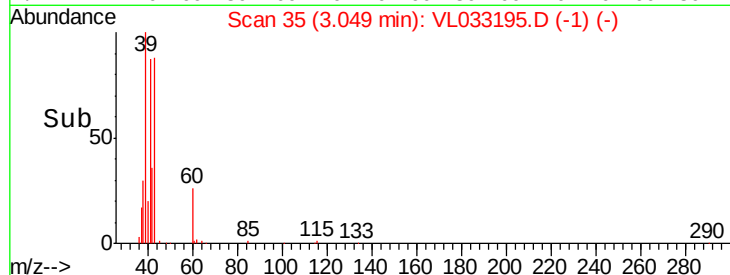
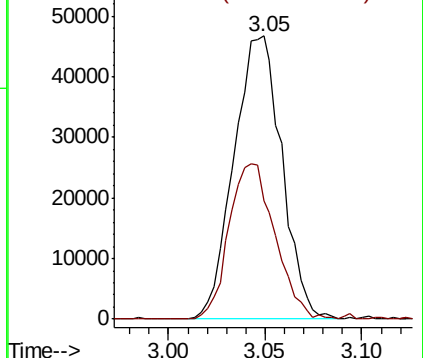
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Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#11

Trichlorofluoromethane

Concen: 1.519 ppbv

RT: 4.01 min Scan# 333

Delta R.T. 0.00 min

Lab File: VL033195.D

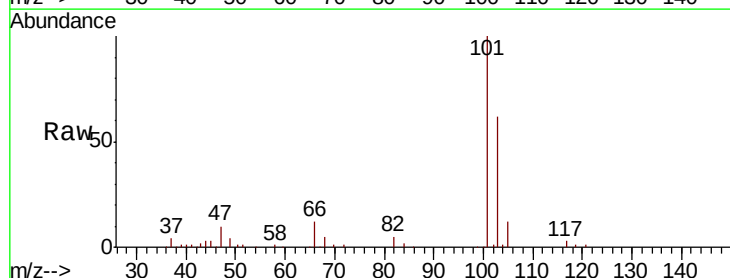
Acq: 13 Feb 2019 20:26

Tgt Ion: 101 Resp: 193228

Ion Ratio Lower Upper

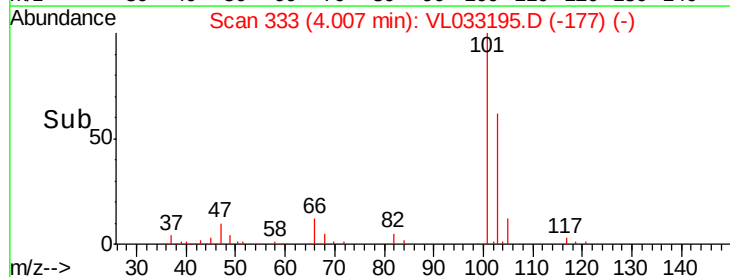
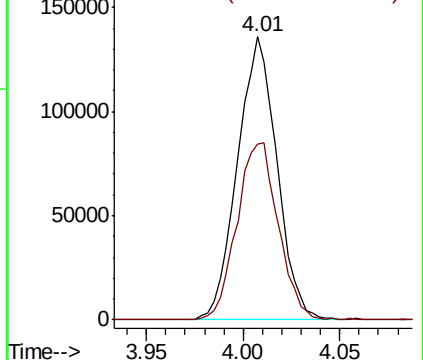
101 100

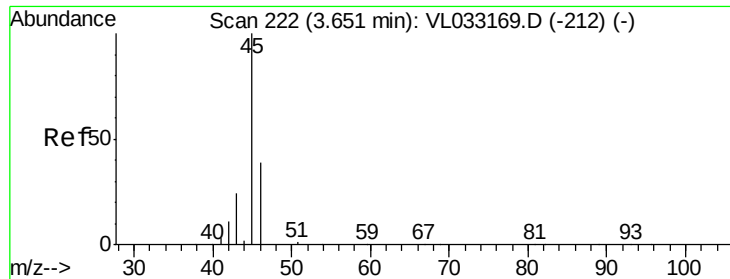
103 62.2 51.7 77.5



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V





#13

Ethanol

Concen: 12.082 ppbv

RT: 3.65 min Scan# 222

Delta R.T. -0.00 min

Lab File: VL033195.D

Acq: 13 Feb 2019 20:26

Instrument :

MSVOA_L

ClientSampleId :

AB-SS

Tgt Ion: 45 Resp: 196239

Ion Ratio Lower Upper

45 100

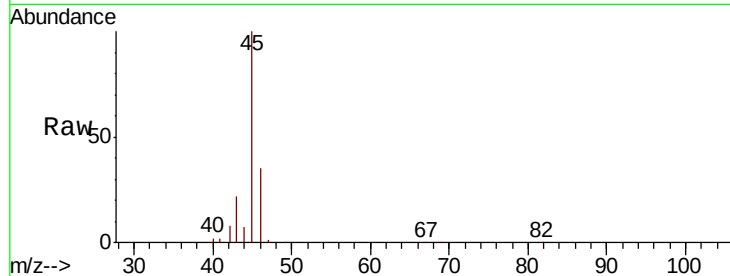
46 35.5 15.0 60.2

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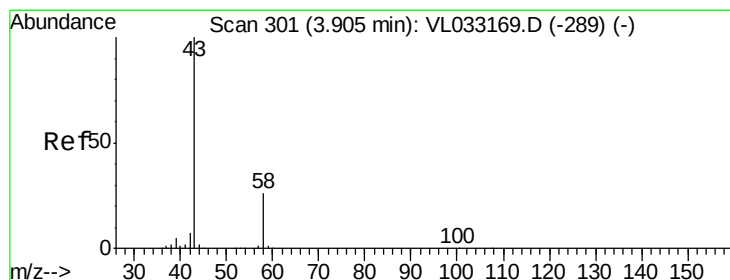
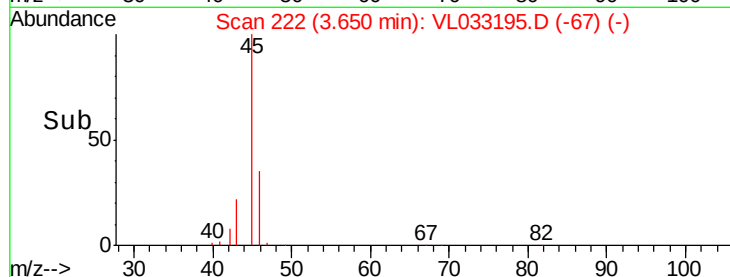
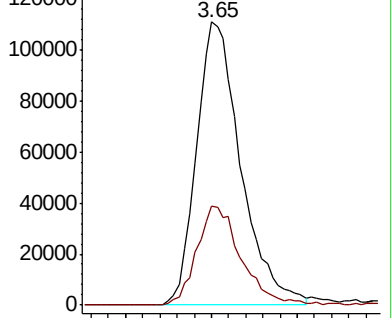
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Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0



#15

Acetone

Concen: 25.249 ppbv

RT: 3.90 min Scan# 299

Delta R.T. -0.01 min

Lab File: VL033195.D

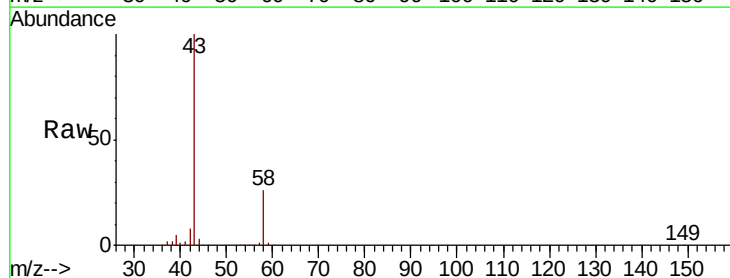
Acq: 13 Feb 2019 20:26

Tgt Ion: 43 Resp: 2337431

Ion Ratio Lower Upper

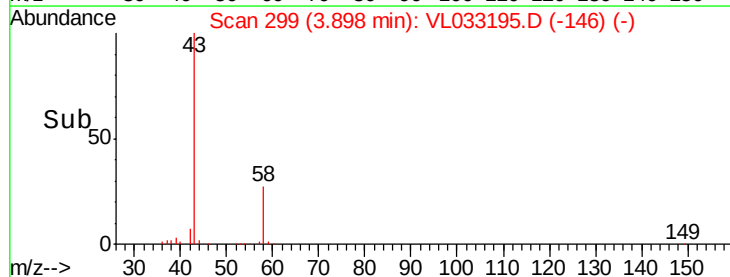
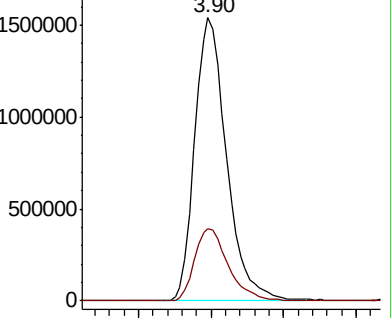
43 100

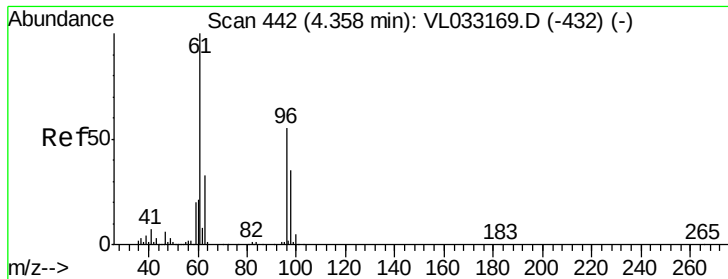
58 27.1 21.1 31.7



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





#17

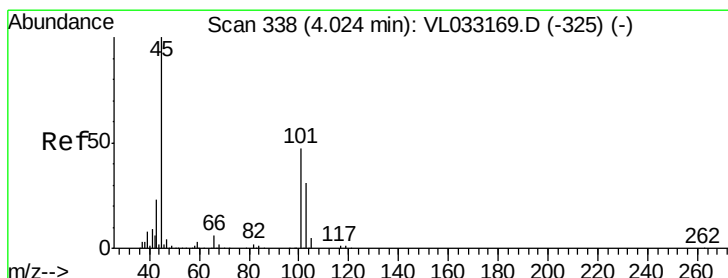
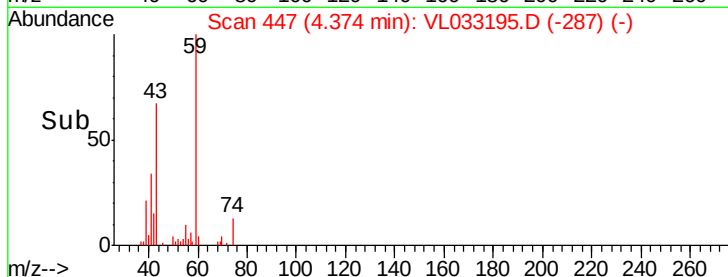
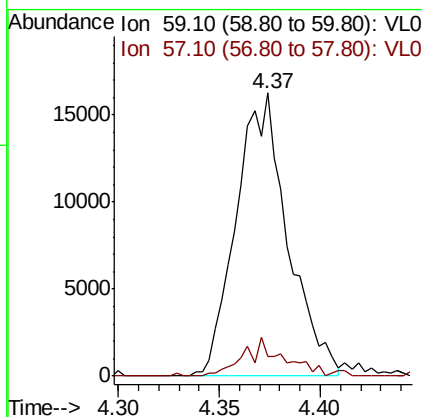
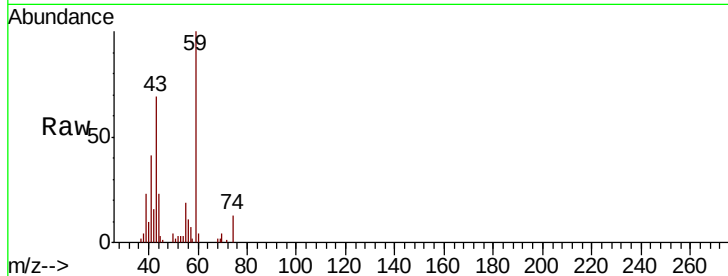
tert-Butyl alcohol
Concen: 1.612 ppbv
RT: 4.37 min Scan# 447
Delta R.T. 0.02 min
Lab File: VL033195.D
Acq: 13 Feb 2019 20:26

Instrument :
MSVOA_L
ClientSampleId :
AB-SS

Tgt Ion: 59 Resp: 28673
Ion Ratio Lower Upper
59 100
57 0.0 7.6 11.4#

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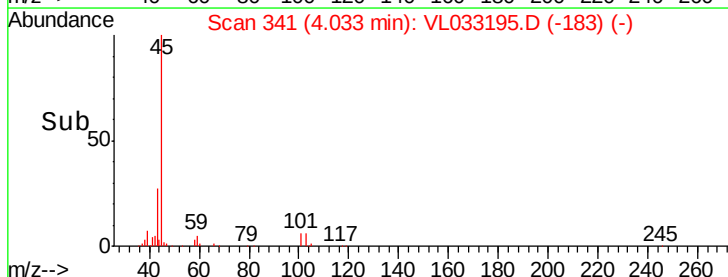
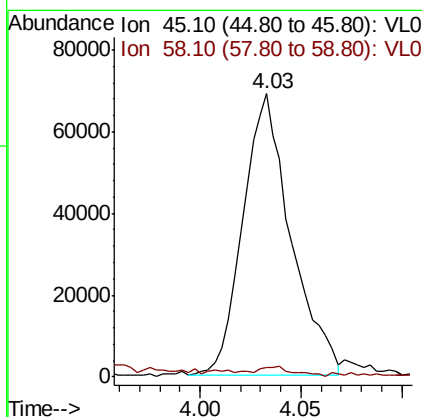
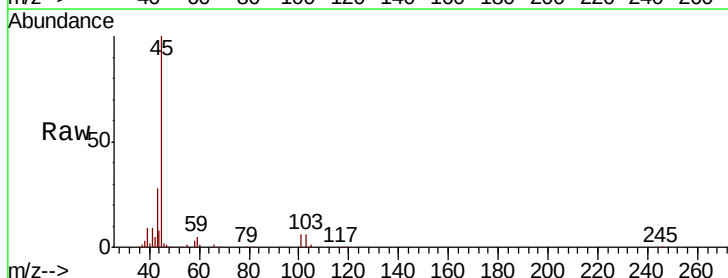
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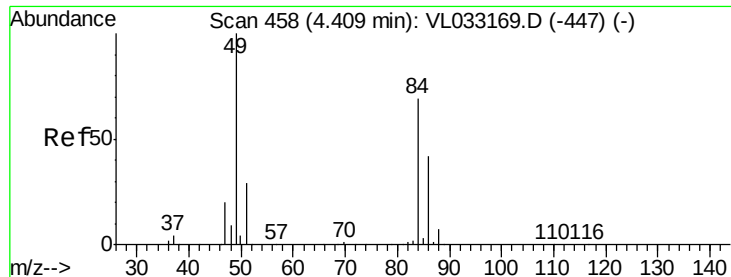


#19

Isopropyl Alcohol
Concen: 1.815 ppbv
RT: 4.03 min Scan# 341
Delta R.T. 0.01 min
Lab File: VL033195.D
Acq: 13 Feb 2019 20:26

Tgt Ion: 45 Resp: 113948
Ion Ratio Lower Upper
45 100
58 0.0 1.5 2.3#





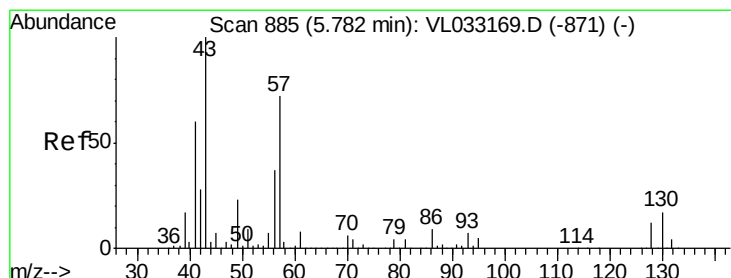
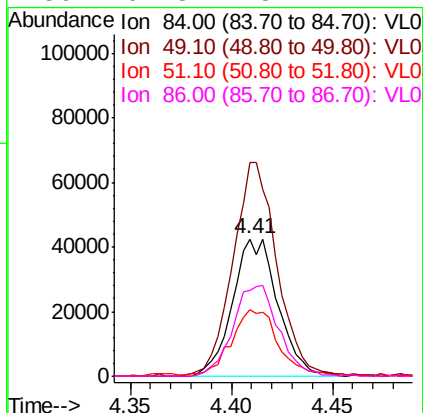
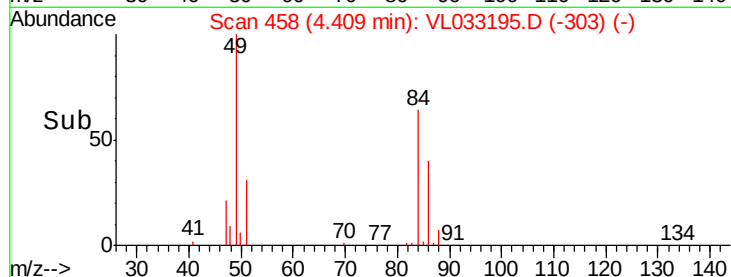
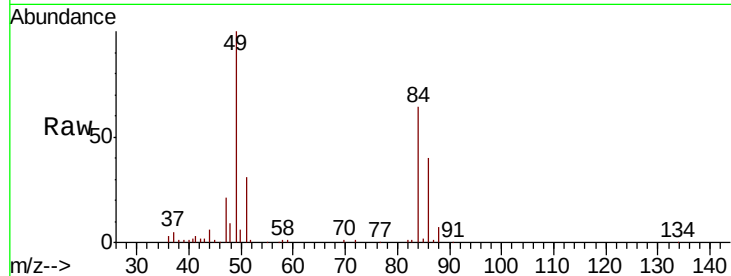
#20
Methylene Chloride
Concen: 1.811 ppbv m
RT: 4.41 min Scan# 458
Delta R.T. -0.00 min
Lab File: VL033195.D
Acq: 13 Feb 2019 20:26

Instrument :
MSVOA_L
ClientSampled :
AB-SS

Tgt Ion:	84	Resp:	66676
Ion	Ratio	Lower	Upper
84	100		
49	155.6	115.8	173.8
51	48.5	33.0	49.6
86	62.8	48.2	72.2

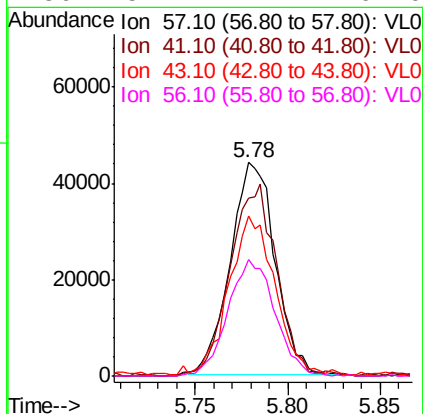
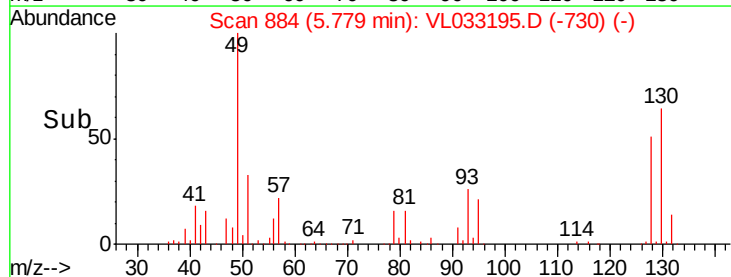
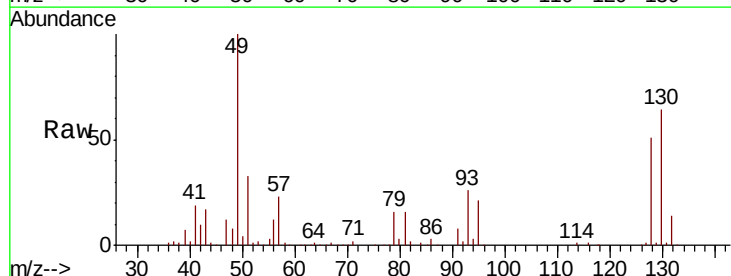
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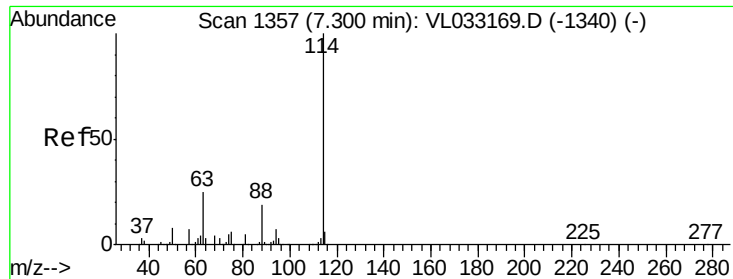
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#26
Hexane
Concen: 0.758 ppbv
RT: 5.78 min Scan# 884
Delta R.T. -0.00 min
Lab File: VL033195.D
Acq: 13 Feb 2019 20:26

Tgt Ion:	57	Resp:	74062
Ion	Ratio	Lower	Upper
57	100		
41	94.4	69.4	104.2
43	76.8	176.7	265.1
56	57.4	41.4	62.0





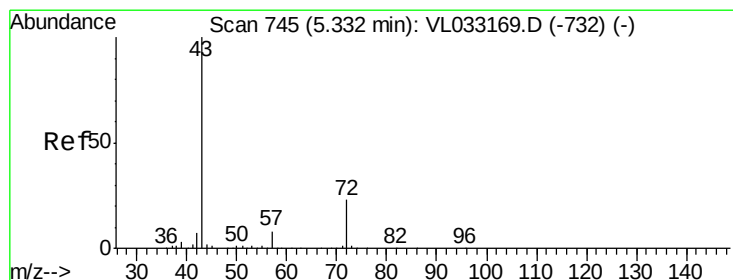
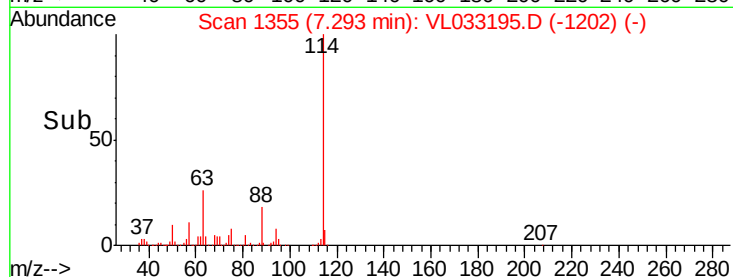
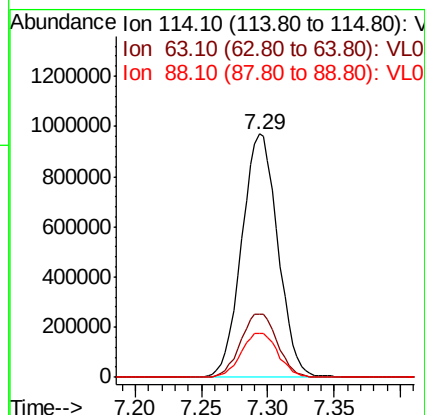
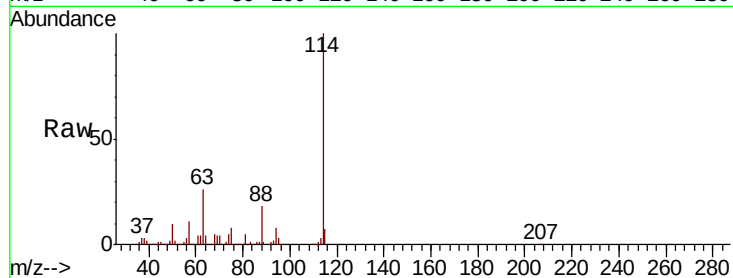
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.29 min Scan# 1355
 Delta R.T. -0.01 min
 Lab File: VL033195.D
 Acq: 13 Feb 2019 20:26

Instrument :
 MSVOA_L
 ClientSampleId :
 AB-SS

Tgt Ion: 114 Resp: 1838174
 Ion Ratio Lower Upper
 114 100
 63 26.5 20.8 31.2
 88 18.5 14.6 22.0

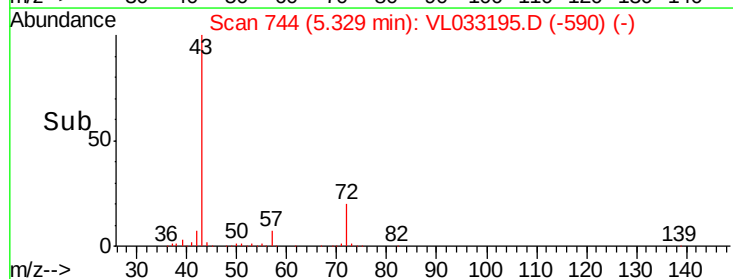
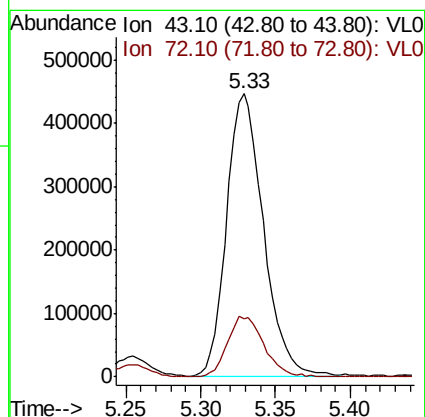
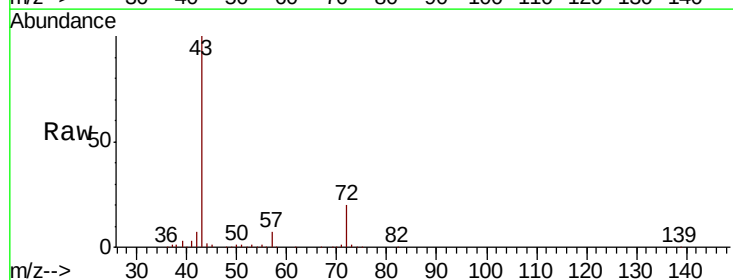
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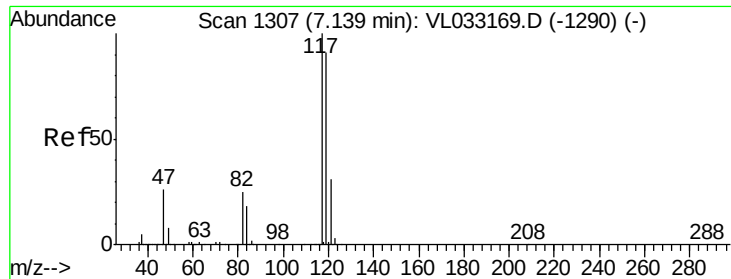
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#34
 2-Butanone
 Concen: 6.543 ppbv
 RT: 5.33 min Scan# 744
 Delta R.T. -0.00 min
 Lab File: VL033195.D
 Acq: 13 Feb 2019 20:26

Tgt Ion: 43 Resp: 762931
 Ion Ratio Lower Upper
 43 100
 72 21.6 17.8 26.6





#35

Carbon Tetrachloride

Concen: 0.060 ppbv m

RT: 7.14 min Scan# 1307

Delta R.T. -0.00 min

Lab File: VL033195.D

Acq: 13 Feb 2019 20:26

Instrument :

MSVOA_L

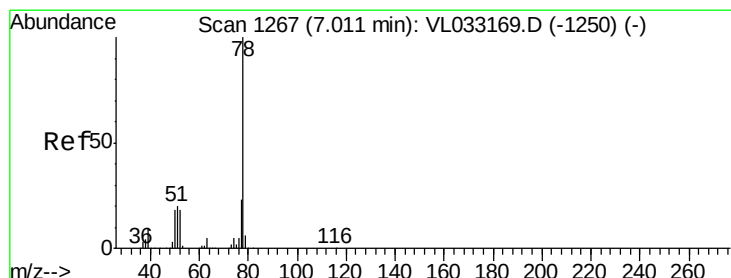
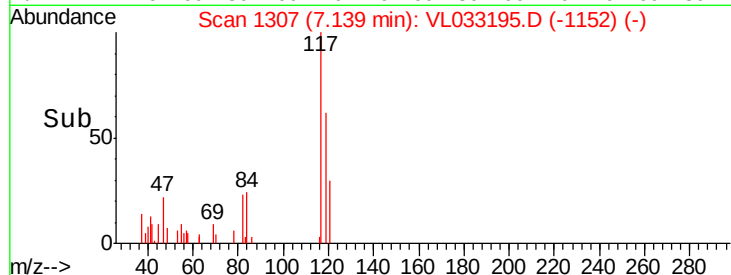
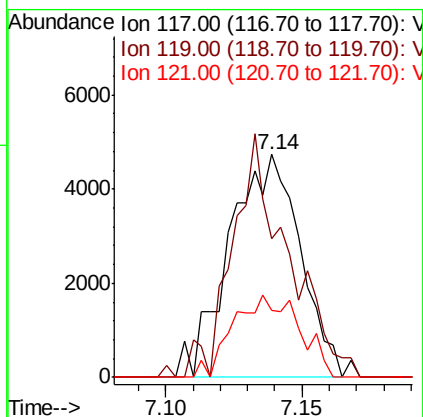
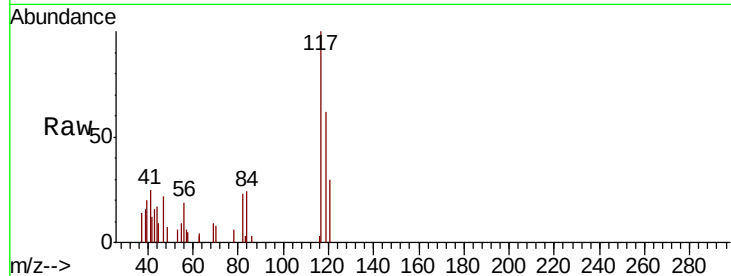
ClientSampleId :

AB-SS

Tgt Ion:	117	Resp:	8393
Ion Ratio	Lower	Upper	
117	100		
119	62.1	73.0	109.6#
121	29.8	25.1	37.7

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#36

Benzene

Concen: 1.756 ppbv

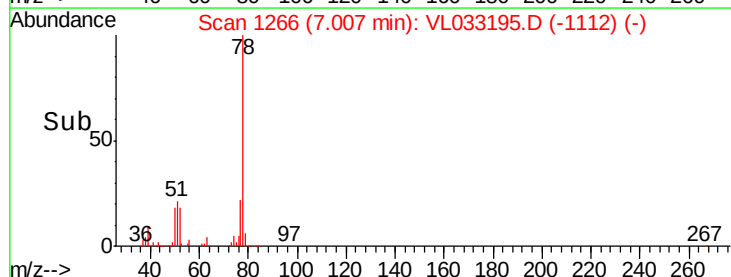
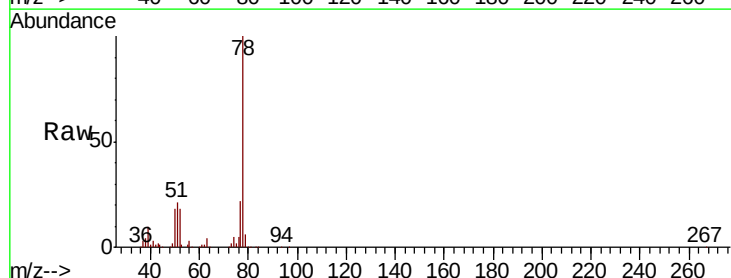
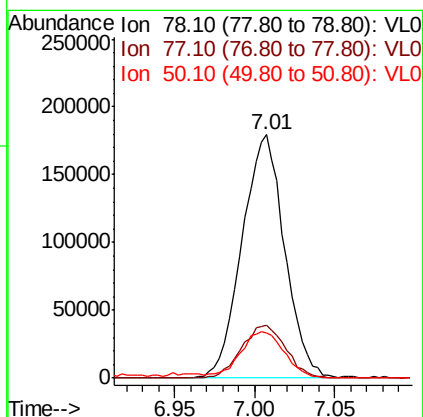
RT: 7.01 min Scan# 1266

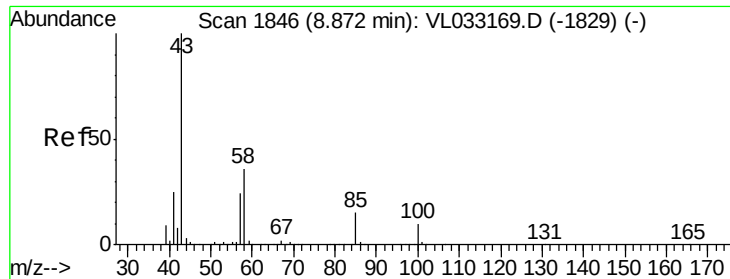
Delta R.T. -0.00 min

Lab File: VL033195.D

Acq: 13 Feb 2019 20:26

Tgt Ion:	78	Resp:	327141
Ion Ratio	Lower	Upper	
78	100		
77	21.5	18.0	27.0
50	18.3	14.2	21.2





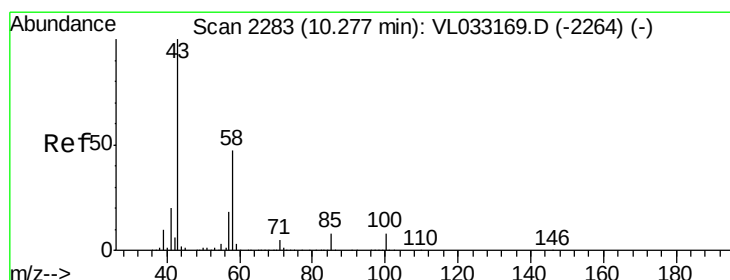
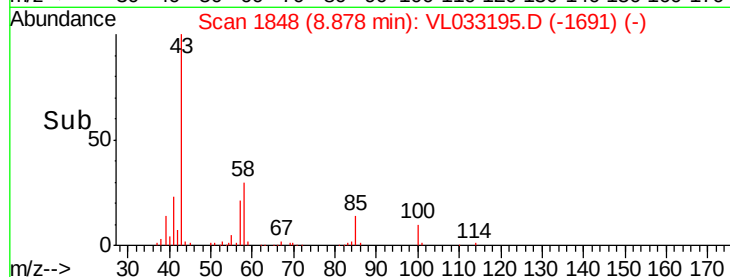
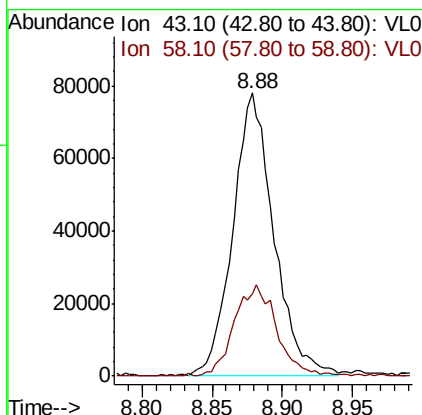
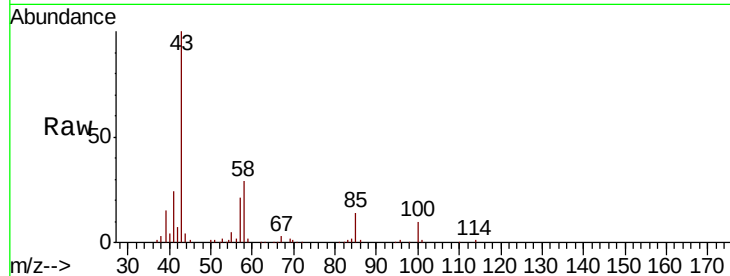
#50
4-Methyl-2-Pentanone
Concen: 0.841 ppbv
RT: 8.88 min Scan# 1848
Delta R.T. 0.01 min
Lab File: VL033195.D
Acq: 13 Feb 2019 20:26

Instrument :
MSVOA_L
ClientSampleId :
AB-SS

Tgt Ion	Ratio	Lower	Upper
43	100		
58	34.1	29.0	43.6

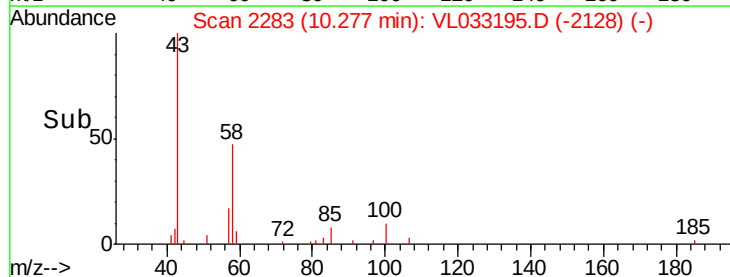
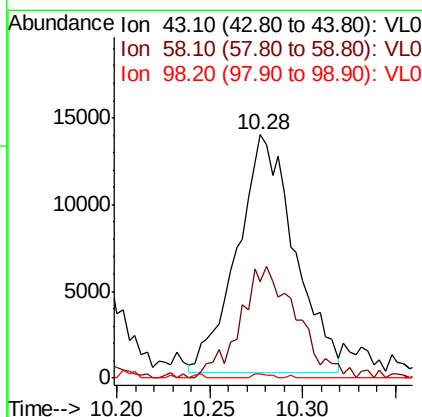
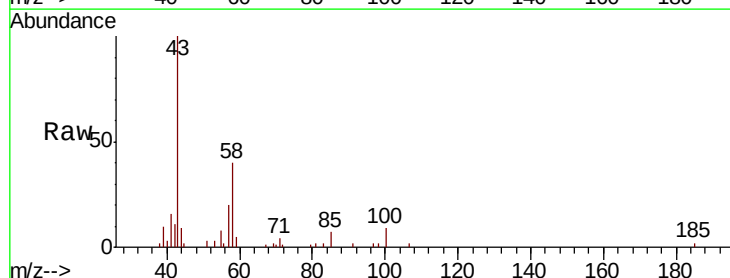
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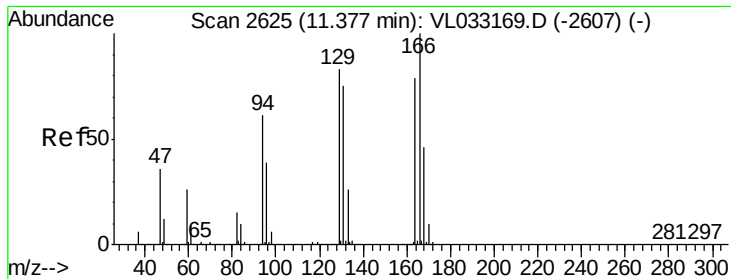
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#51
2-Hexanone
Concen: 0.199 ppbv
RT: 10.28 min Scan# 2283
Delta R.T. -0.00 min
Lab File: VL033195.D
Acq: 13 Feb 2019 20:26

Tgt Ion	Ratio	Lower	Upper
43	100		
58	47.1	39.0	58.6
98	0.7	0.1	0.1#





#52

Tetrachloroethene

Concen: 0.231 ppbv m

RT: 11.38 min Scan# 2625

Delta R.T. -0.00 min

Lab File: VL033195.D

Acq: 13 Feb 2019 20:26

Instrument :

MSVOA_L

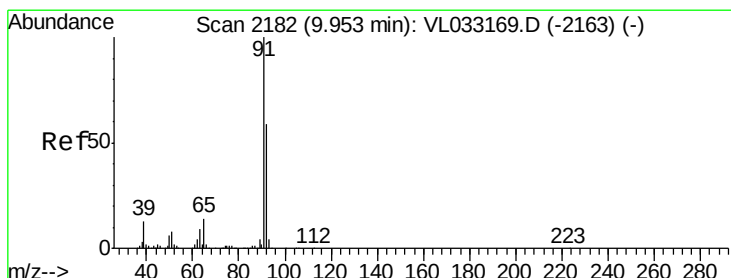
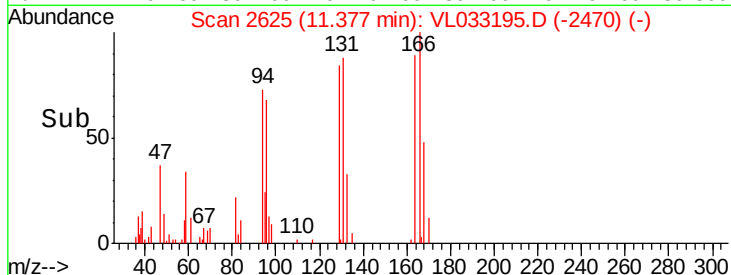
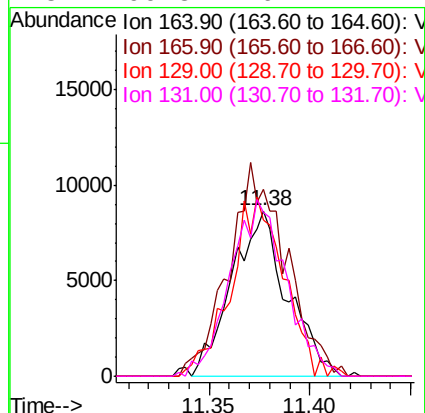
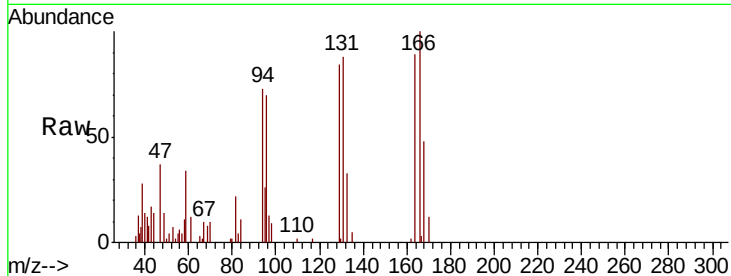
ClientSampleId :

AB-SS

Tgt Ion:	164	Resp:	16557
Ion Ratio	Lower	Upper	
164	100		
166	112.8	100.9	151.3
129	94.8	83.9	125.9
131	99.3	76.2	114.2

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#53

Toluene

Concen: 0.990 ppbv

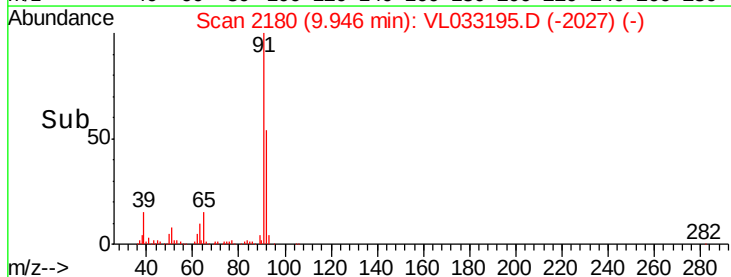
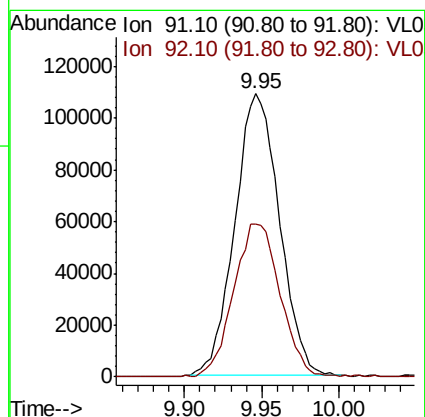
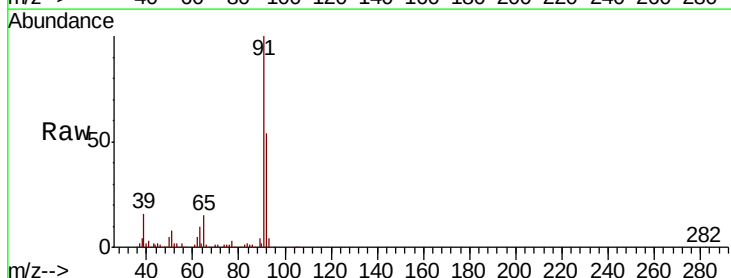
RT: 9.95 min Scan# 2180

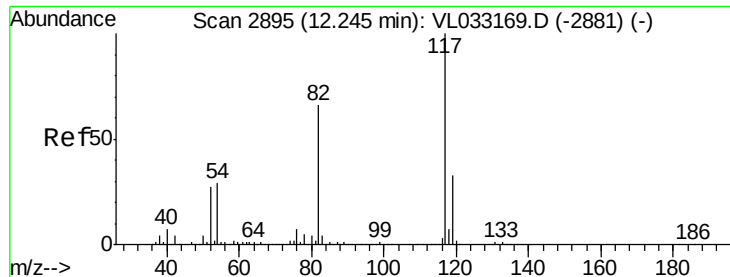
Delta R.T. -0.01 min

Lab File: VL033195.D

Acq: 13 Feb 2019 20:26

Tgt Ion:	91	Resp:	218322
Ion Ratio	Lower	Upper	
91	100		
92	56.9	48.0	72.0





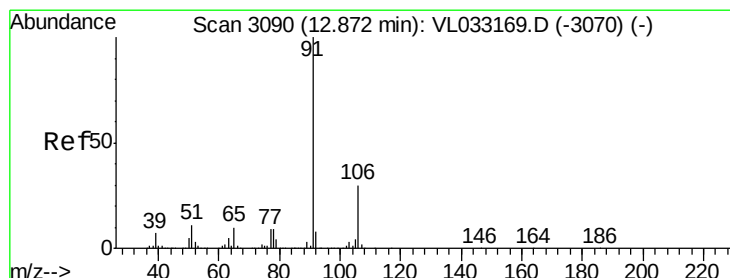
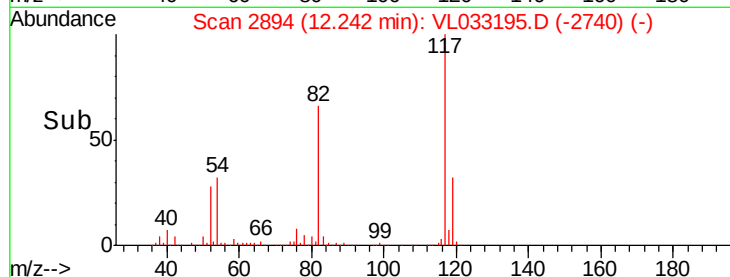
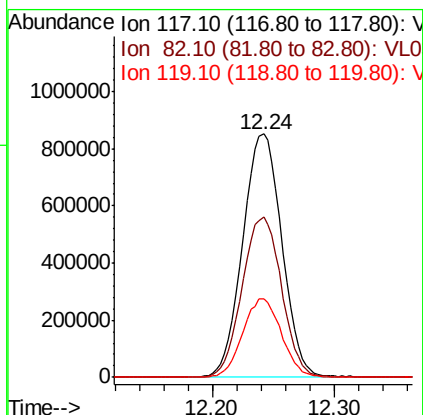
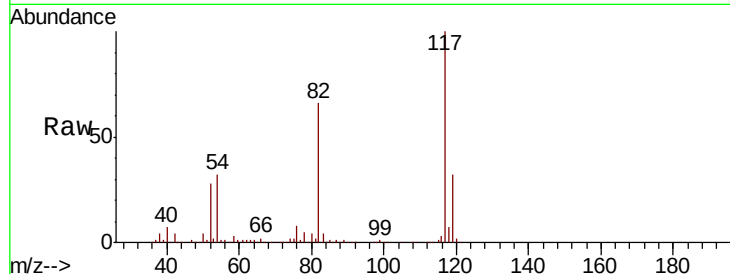
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.24 min Scan# 2894
Delta R.T. -0.00 min
Lab File: VL033195.D
Acq: 13 Feb 2019 20:26

Instrument :
MSVOA_L
ClientSampleId :
AB-SS

Tgt Ion: 117 Resp: 1890820
Ion Ratio Lower Upper
117 100
82 66.7 53.8 80.8
119 32.1 46.9 70.3#

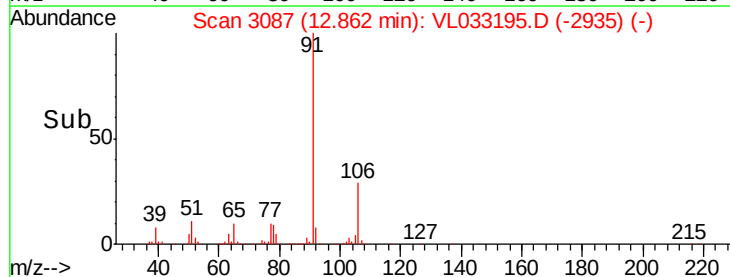
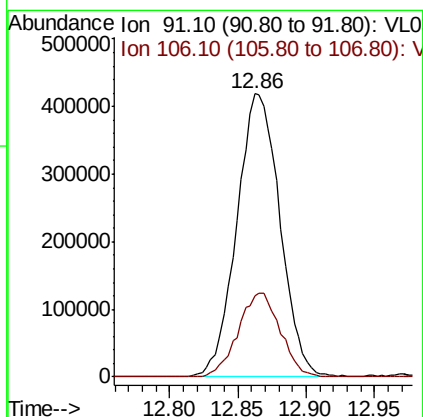
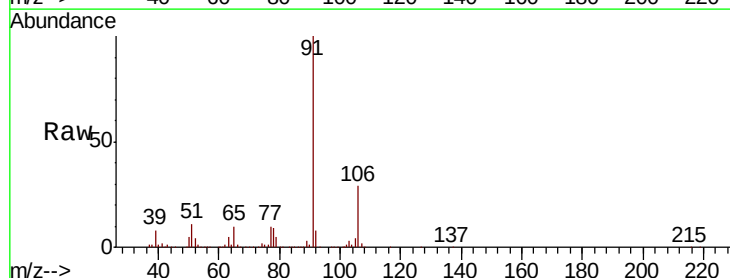
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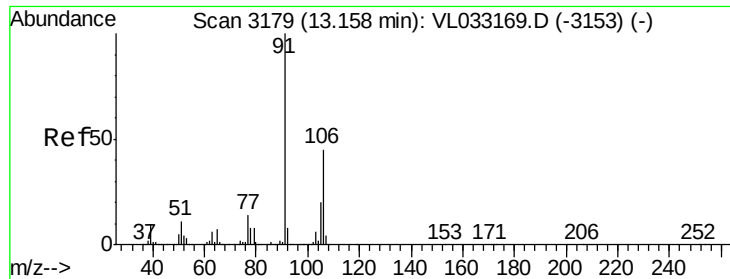
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#58
Ethyl Benzene
Concen: 2.949 ppbv
RT: 12.86 min Scan# 3087
Delta R.T. -0.01 min
Lab File: VL033195.D
Acq: 13 Feb 2019 20:26

Tgt Ion: 91 Resp: 915411
Ion Ratio Lower Upper
91 100
106 28.6 23.8 35.8





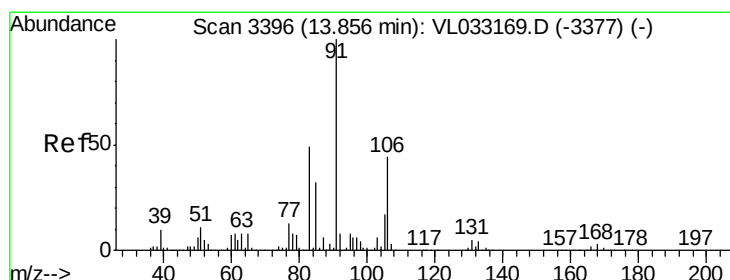
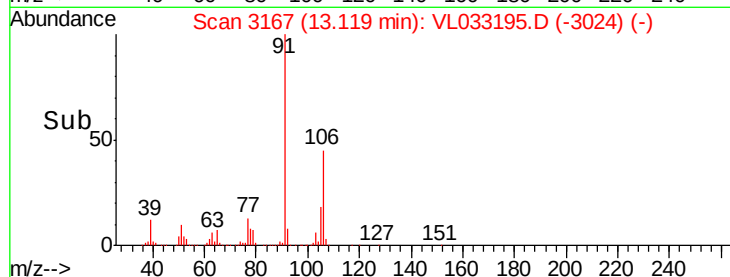
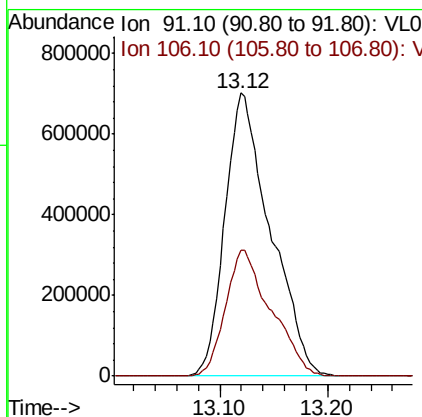
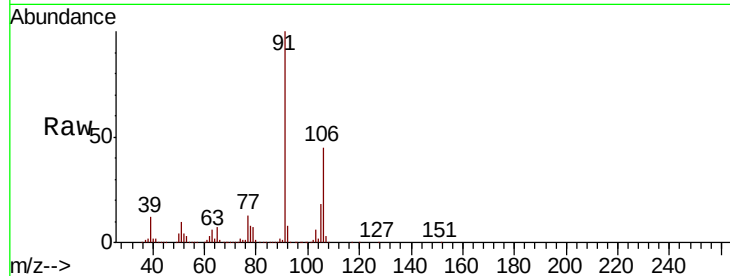
#59
m/p-Xylene
Concen: 7.944 ppbv
RT: 13.12 min Scan# 3167
Delta R.T. -0.04 min
Lab File: VL033195.D
Acq: 13 Feb 2019 20:26

Instrument :
MSVOA_L
ClientSampled :
AB-SS

Tgt Ion: 91 Resp: 2050971
Ion Ratio Lower Upper
91 100
106 44.9 36.6 55.0

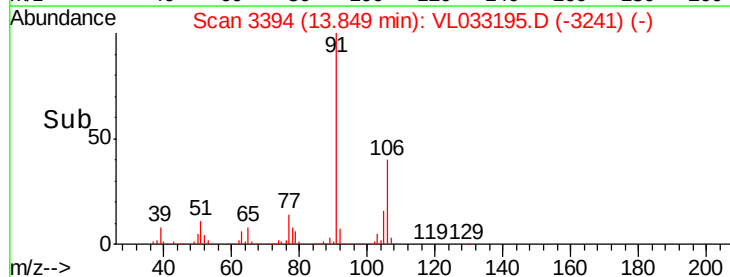
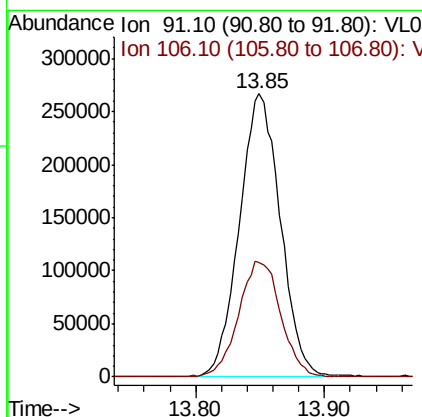
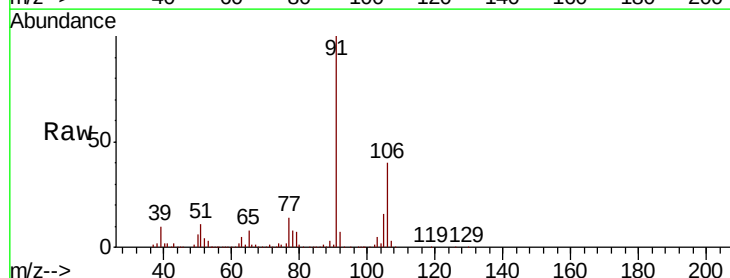
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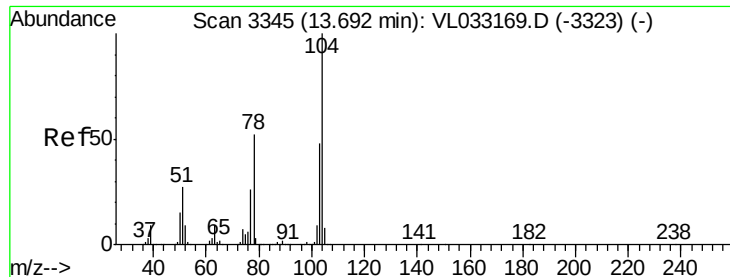
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#60
o-Xylene
Concen: 2.337 ppbv
RT: 13.85 min Scan# 3394
Delta R.T. -0.01 min
Lab File: VL033195.D
Acq: 13 Feb 2019 20:26

Tgt Ion: 91 Resp: 588388
Ion Ratio Lower Upper
91 100
106 42.1 21.8 65.3





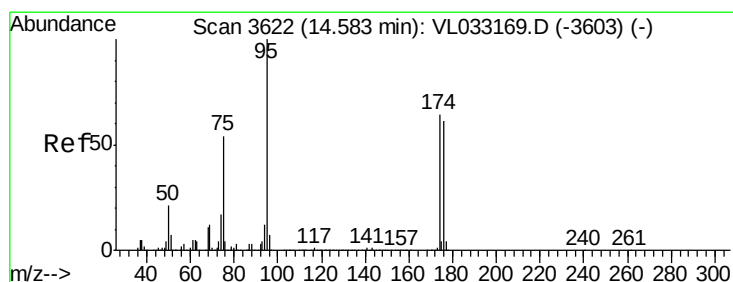
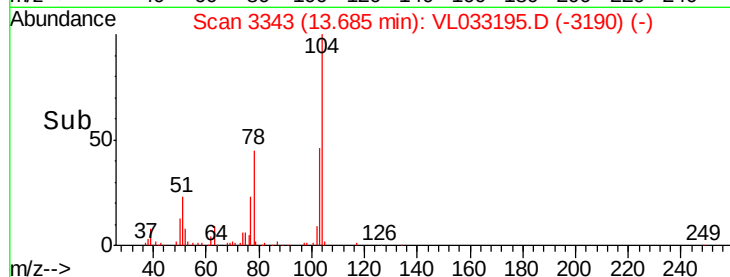
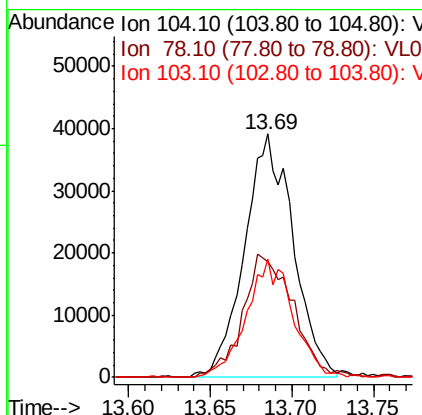
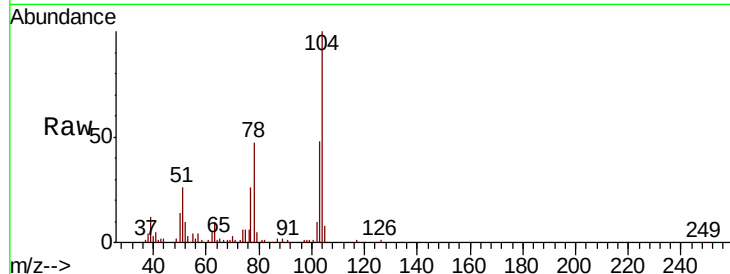
#61
 Styrene
 Concen: 0.425 ppbv m
 RT: 13.69 min Scan# 3343
 Delta R.T. -0.01 min
 Lab File: VL033195.D
 Acq: 13 Feb 2019 20:26

Instrument :
 MSVOA_L
 ClientSampled :
 AB-SS

Tgt Ion	Ratio	Resp	Lower	Upper
104	100	80759		
78	53.1		41.9	62.9
103	46.8		37.9	56.9

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#68
 1-Bromo-4-Fluorobenzene
 Concen: 11.682 ppbv
 RT: 14.58 min Scan# 3620
 Delta R.T. -0.01 min
 Lab File: VL033195.D
 Acq: 13 Feb 2019 20:26

Tgt Ion	Ratio	Resp	Lower	Upper
95	100	1721396		
174	62.7		51.1	76.7
175	4.5		3.8	5.6

