

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL092418\
 Data File : VL032536.D
 Acq On : 25 Sep 2018 8:57
 Operator : SY/AP
 Sample : J5034-04
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 SSDS-INF-092018

Manual Integrations
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Quant Time: Sep 25 09:37:39 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL092418AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Sep 25 2018
 QLast Update : Tue Sep 25 05:17:15 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.79	49	1430533	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.32	114	3172381	10.00	ppbv	-0.03
55) Chlorobenzene-d5	12.27	117	3095222	10.00	ppbv	-0.03

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.61	95	2395459	10.26	ppbv	-0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.60%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.09	85	34698	0.262	ppbv	97
3) Chlorodifluoromethane	3.03	51	62624m	0.526	ppbv	
9) Propene	3.07	41	263182m	5.099	ppbv	
11) Trichlorofluoromethane	4.02	101	197949	1.258	ppbv	92
13) Ethanol	3.67	45	1705923	109.955	ppbv	96
15) Acetone	3.91	43	9829831	78.282	ppbv	95
17) tert-Butyl alcohol	4.39	59	30289m	1.920	ppbv	
19) Isopropyl Alcohol	4.05	45	228098	2.608	ppbv #	1
20) Methylene Chloride	4.44	84	173669	2.856	ppbv	98
24) 1,1-Dichloroethane	5.12	63	67706	0.366	ppbv	96
26) Hexane	5.81	57	1003986	7.295	ppbv #	49
29) Chloroform	5.88	83	491686	2.328	ppbv	99
30) Cyclohexane	7.28	84	81176m	0.724	ppbv	
31) cis-1,2-Dichloroethene	5.66	61	10202	0.078	ppbv #	88
32) 1,1,1-Trichloroethane	6.65	97	138775	0.617	ppbv	98
34) 2-Butanone	5.35	43	478617	2.534	ppbv	99
35) Carbon Tetrachloride	7.17	117	20931m	0.095	ppbv	
36) Benzene	7.04	78	60870	0.237	ppbv	94
38) Trichloroethene	7.99	130	108888	1.110	ppbv	94
41) Tetrahydrofuran	6.18	42	39854	0.388	ppbv	90
44) 2,2,4-Trimethylpentane	8.02	57	91344	0.182	ppbv #	75
52) Tetrachloroethene	11.41	164	31183m	0.349	ppbv	
53) Toluene	9.98	91	1617876	5.178	ppbv	100
58) Ethyl Benzene	12.90	91	32703m	0.087	ppbv	
59) m/p-Xylene	13.15	91	108328m	0.324	ppbv	
60) o-Xylene	13.88	91	37622	0.116	ppbv	99
74) 1,2,4-Trimethylbenzene	16.95	105	79219	0.214	ppbv #	69
75) 1,3-Dichlorobenzene	17.20	146	77640m	0.341	ppbv	

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

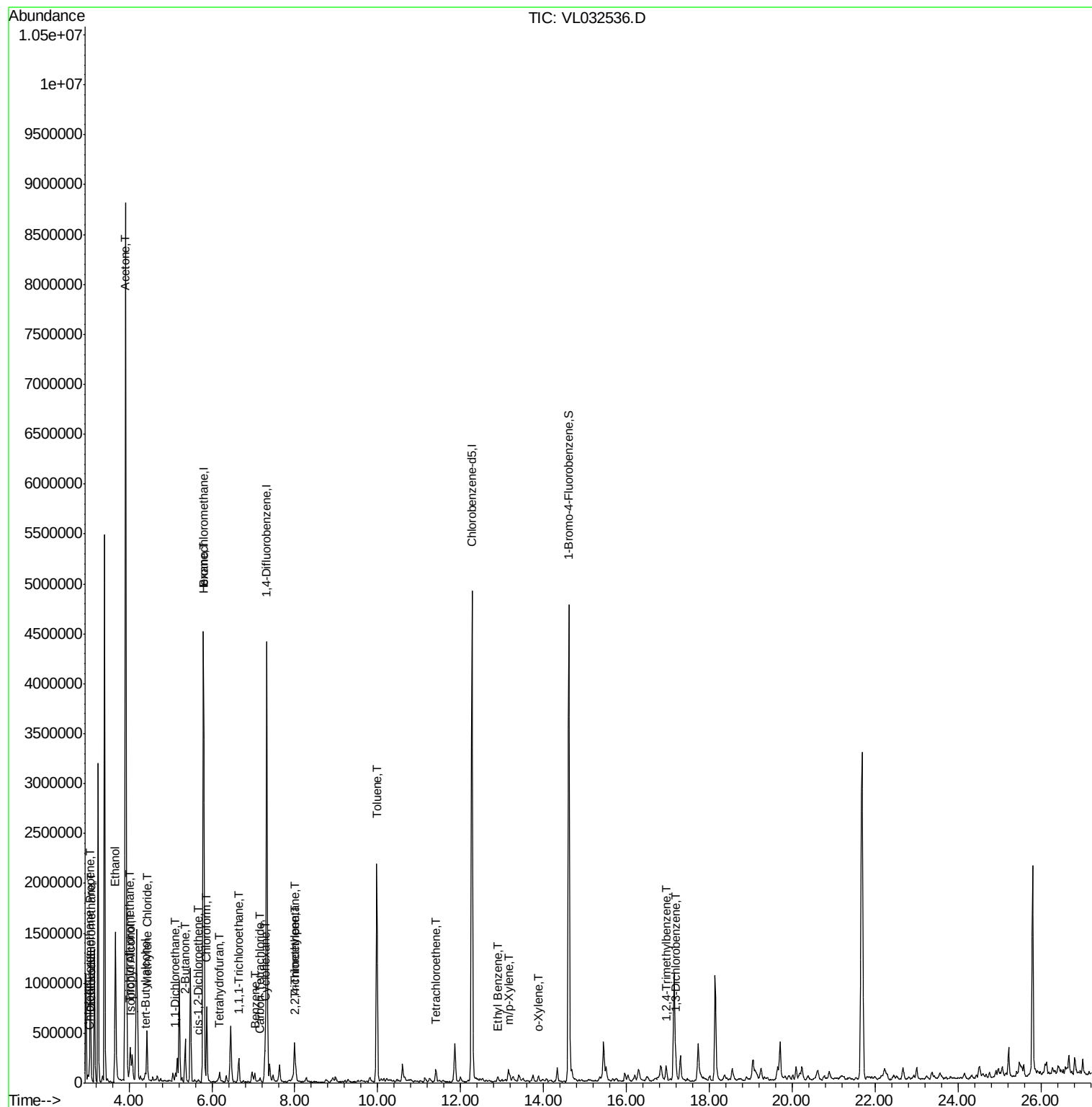
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL092418\
Data File : VL032536.D
Acq On : 25 Sep 2018 8:57
Operator : SY/AP
Sample : J5034-04
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

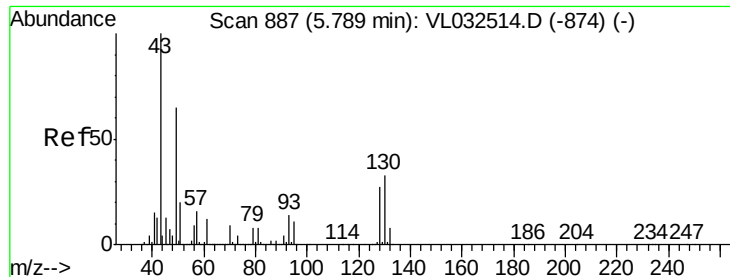
Instrument :
MSVOA_L
ClientSampleId :
SSDS-INF-092018

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Quant Time: Sep 25 09:37:39 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL092418AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Sep
QLast Update : Tue Sep 25 05:17:15 2018
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.79 min Scan# 887

Delta R.T. -0.02 min

Lab File: VL032536.D

Acq: 25 Sep 2018 8:57

Instrument :

MSVOA_L

ClientSampleId :

SSDS-INF-092018

Tot Ion: 49 Resp: 1430533

Ion Ratio Lower Upper

49 100

128 43.1 20.7 62.1

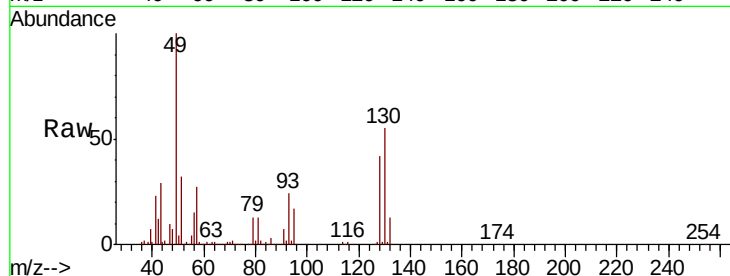
130 55.1 26.6 79.7

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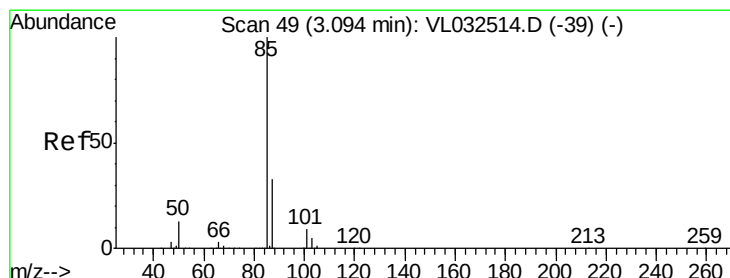
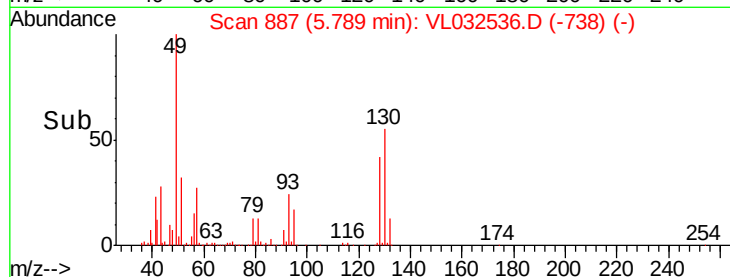
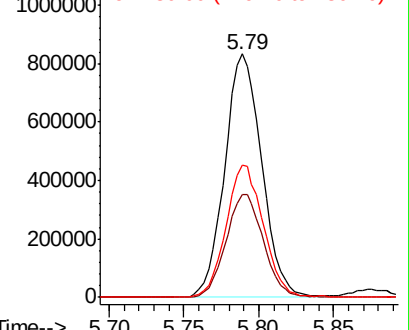
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 0.262 ppbv

RT: 3.09 min Scan# 48

Delta R.T. -0.02 min

Lab File: VL032536.D

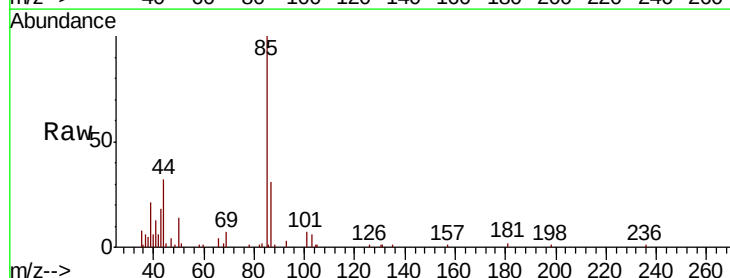
Acq: 25 Sep 2018 8:57

Tgt Ion: 85 Resp: 34698

Ion Ratio Lower Upper

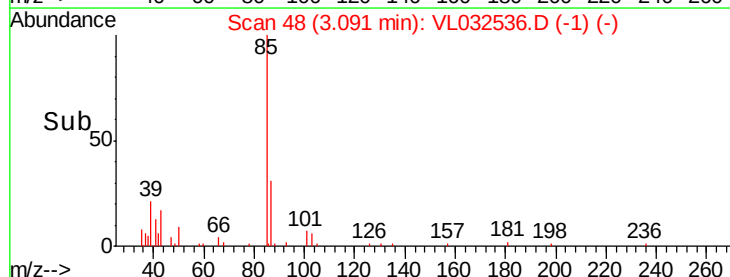
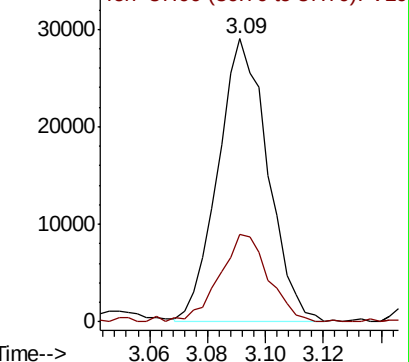
85 100

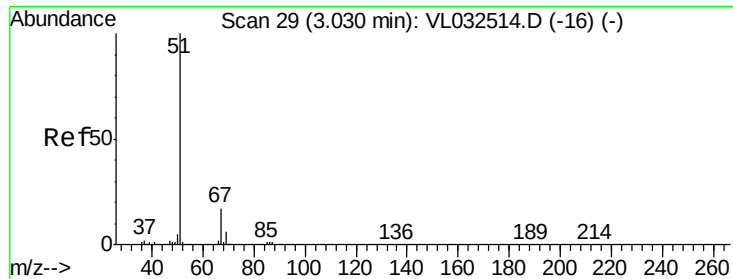
87 31.0 26.2 39.4



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.526 ppbv m

RT: 3.03 min Scan# 28

Delta R.T. -0.02 min

Lab File: VL032536.D

Acq: 25 Sep 2018 8:57

Instrument :

MSVOA_L

ClientSampleId :

SSDS-INF-092018

Tot Ion: 51 Resp: 62624

Ion Ratio Lower Upper

51 100

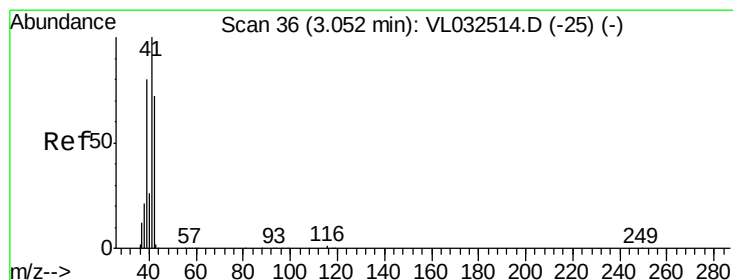
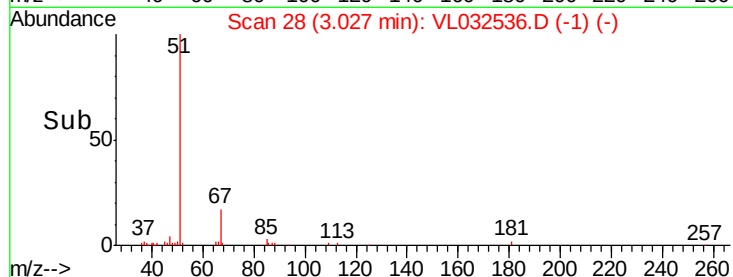
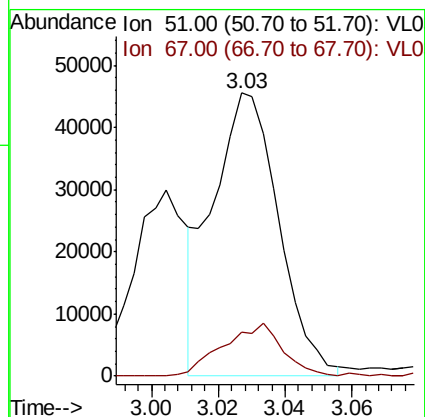
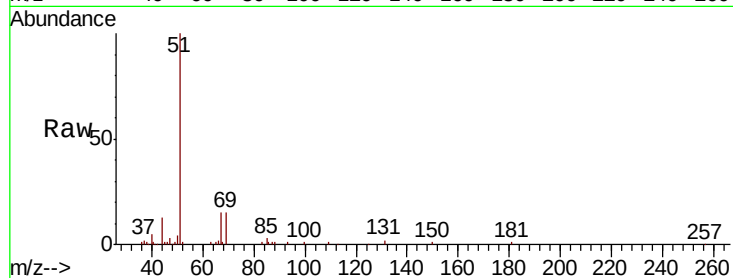
67 16.9 13.8 20.8

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#9

Propene

Concen: 5.099 ppbv m

RT: 3.07 min Scan# 40

Delta R.T. -0.00 min

Lab File: VL032536.D

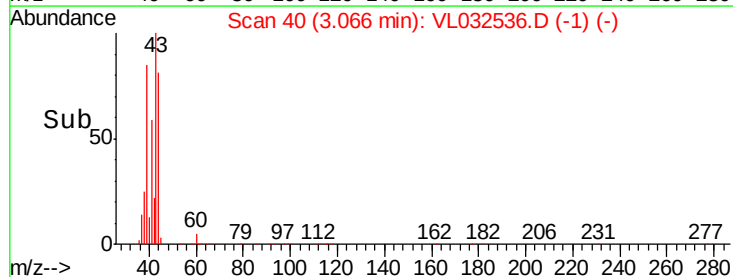
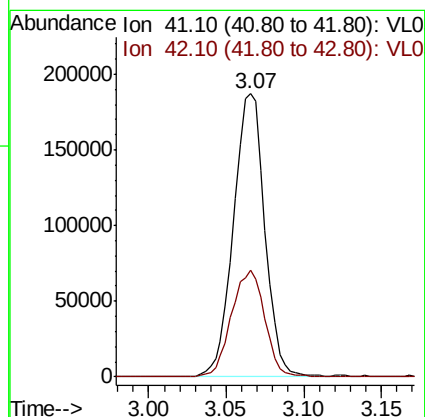
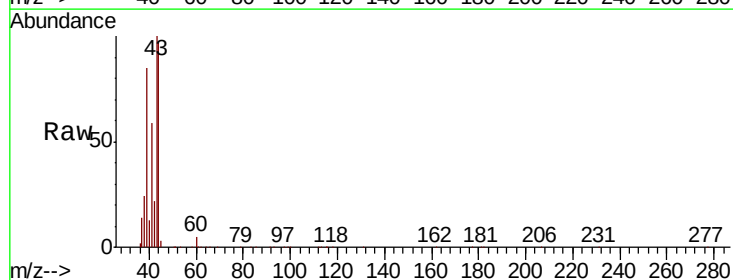
Acq: 25 Sep 2018 8:57

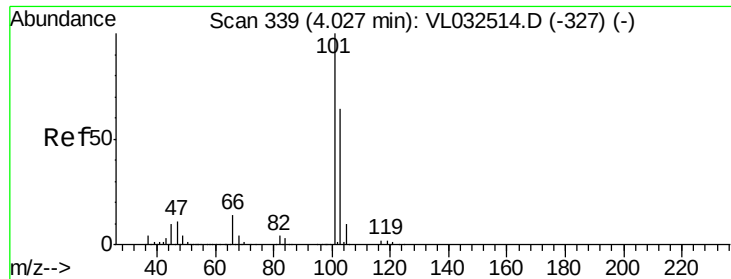
Tgt Ion: 41 Resp: 263182

Ion Ratio Lower Upper

41 100

42 227.8 56.6 84.8#





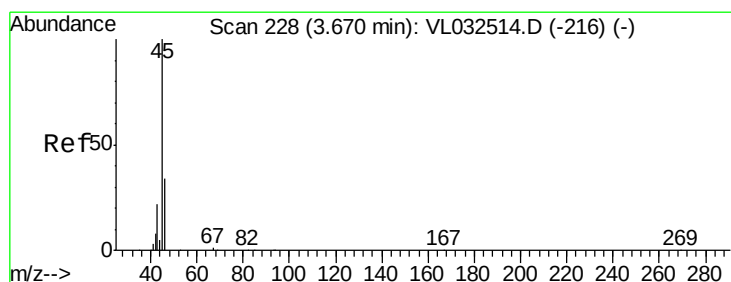
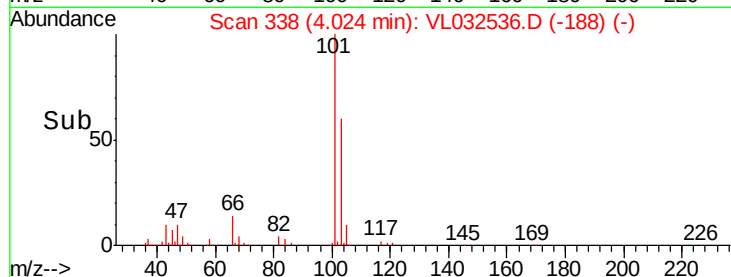
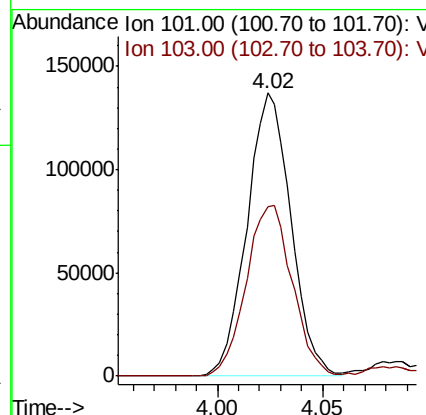
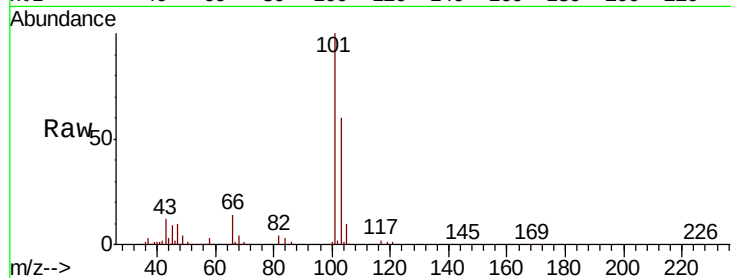
#11
 Trichlorofluoromethane
 Concen: 1.258 ppbv
 RT: 4.02 min Scan# 338
 Delta R.T. -0.02 min
 Lab File: VL032536.D
 Acq: 25 Sep 2018 8:57

Instrument :
 MSVOA_L
 ClientSampleId :
 SSDS-INF-092018

Tot Ion	Ion	Ratio	Resp	Lower	Upper
101	100		197949		
103	60.0	52.8	79.2		

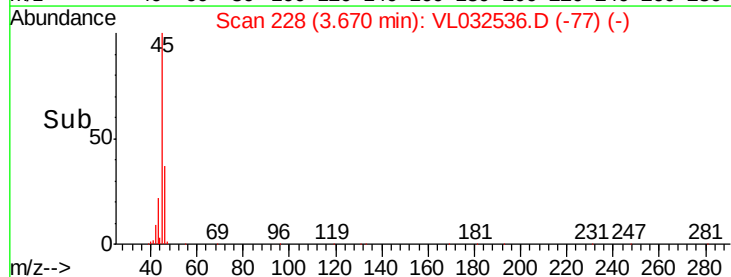
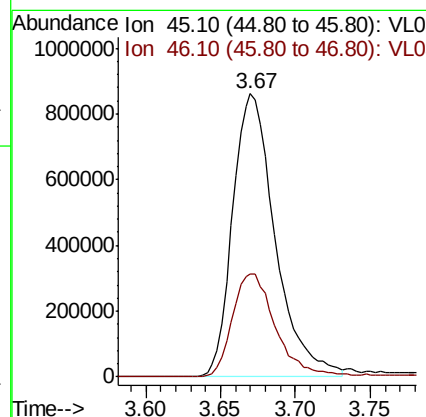
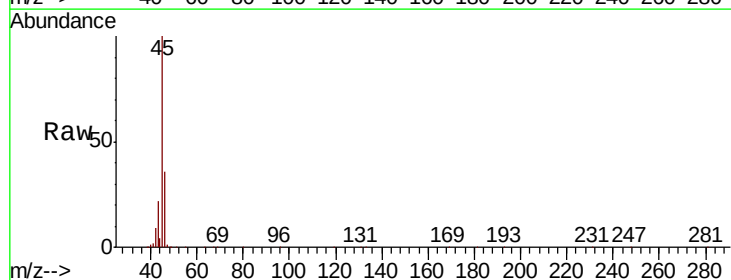
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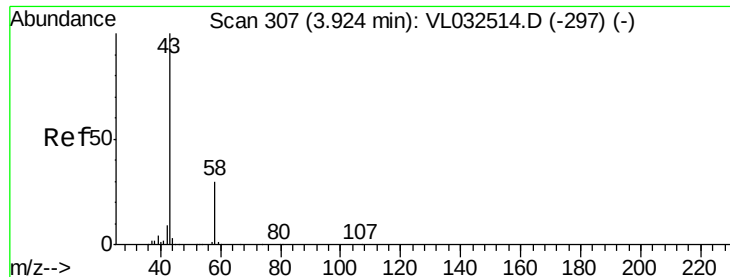
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#13
 Ethanol
 Concen: 109.955 ppbv
 RT: 3.67 min Scan# 228
 Delta R.T. -0.01 min
 Lab File: VL032536.D
 Acq: 25 Sep 2018 8:57

Tgt Ion	Ion	Ratio	Lower	Upper
45	100			
46	37.8	14.2	56.8	





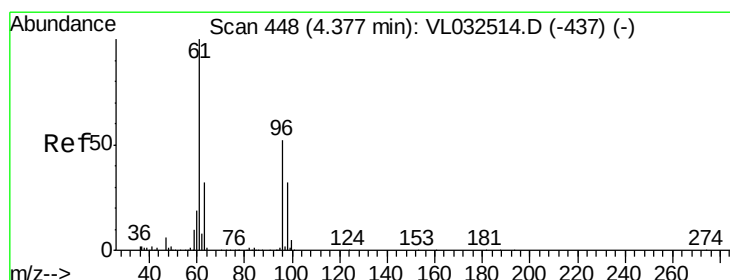
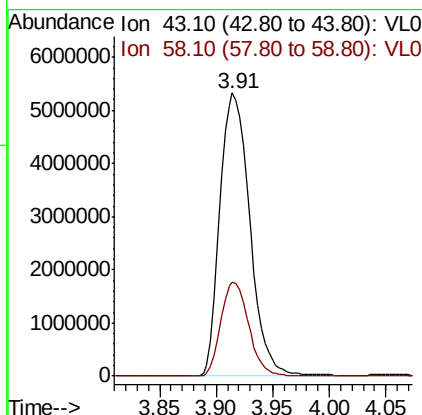
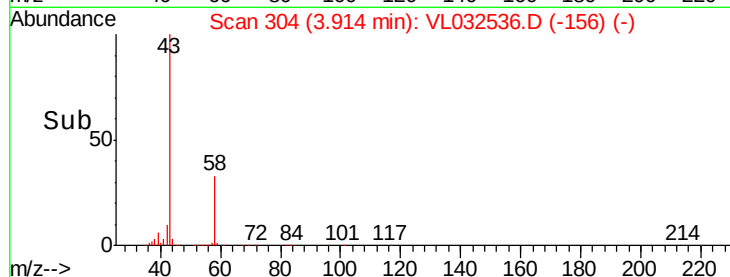
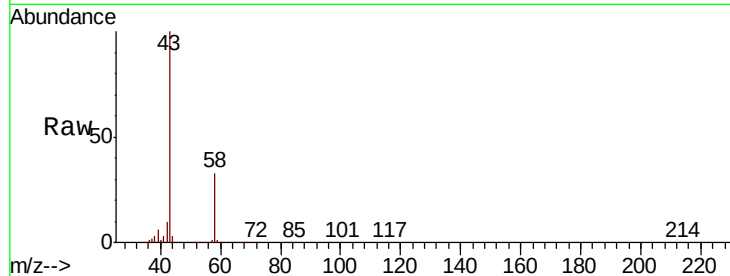
#15
Acetone
Concen: 78.282 ppbv
RT: 3.91 min Scan# 304
Delta R.T. -0.02 min
Lab File: VL032536.D
Acq: 25 Sep 2018 8:57

Instrument :
MSVOA_L
ClientSampleId :
SSDS-INF-092018

Tot Ion: 43 Resp: 9829831
Ion Ratio Lower Upper
43 100
58 31.0 22.6 33.8

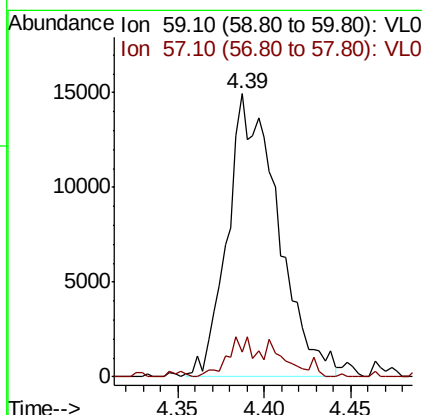
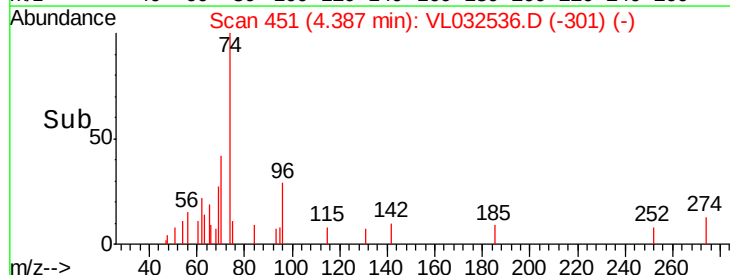
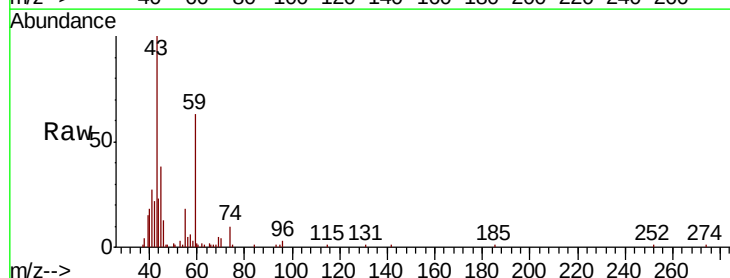
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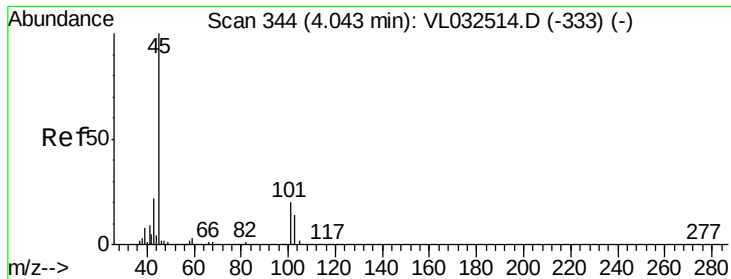
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#17
tert-Butyl alcohol
Concen: 1.920 ppbv m
RT: 4.39 min Scan# 451
Delta R.T. -0.02 min
Lab File: VL032536.D
Acq: 25 Sep 2018 8:57

Tgt Ion: 59 Resp: 30289
Ion Ratio Lower Upper
59 100
57 0.0 0.0 0.0





#19

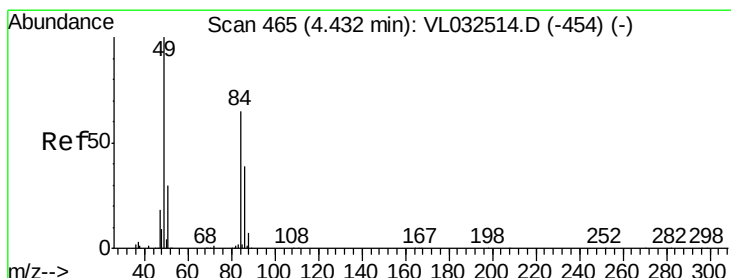
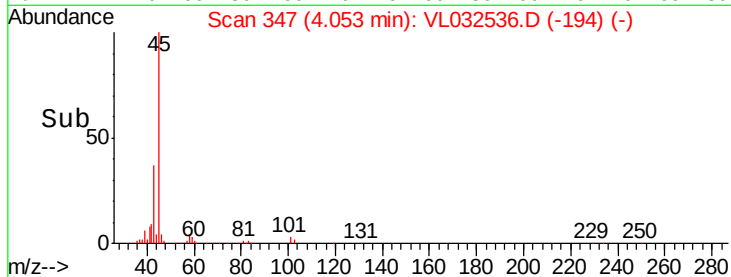
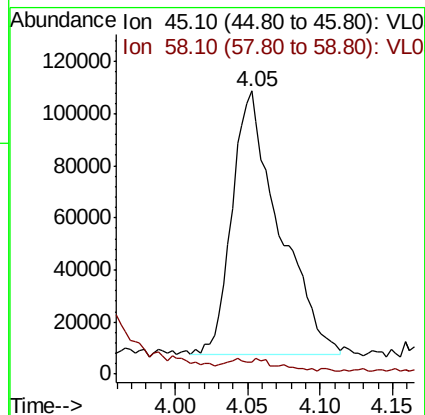
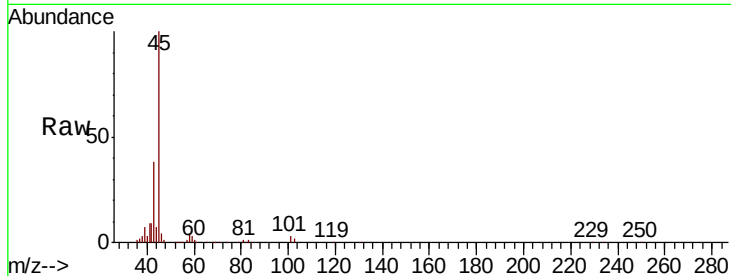
Isopropyl Alcohol
 Concen: 2.608 ppbv
 RT: 4.05 min Scan# 347
 Delta R.T. -0.01 min
 Lab File: VL032536.D
 Acq: 25 Sep 2018 8:57

Instrument :
 MSVOA_L
 ClientSampleId :
 SSDS-INF-092018

Tot Ion: 45 Resp: 228098
 Ion Ratio Lower Upper
 45 100
 58 1336.2 2.0 3.0

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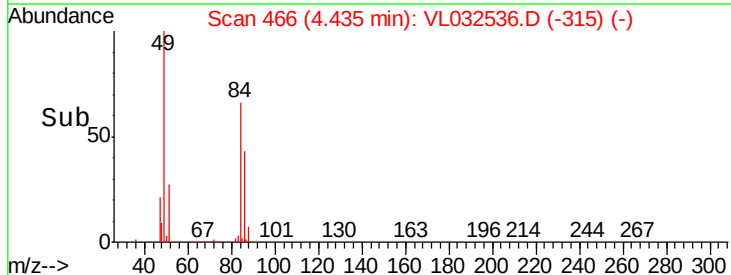
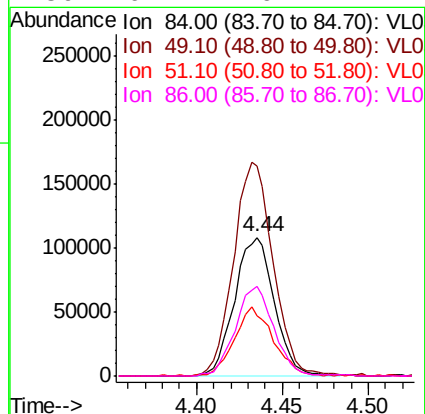
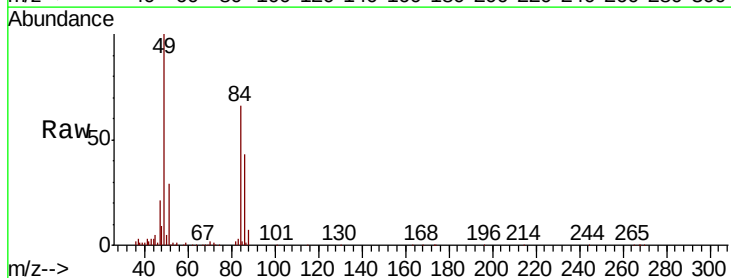
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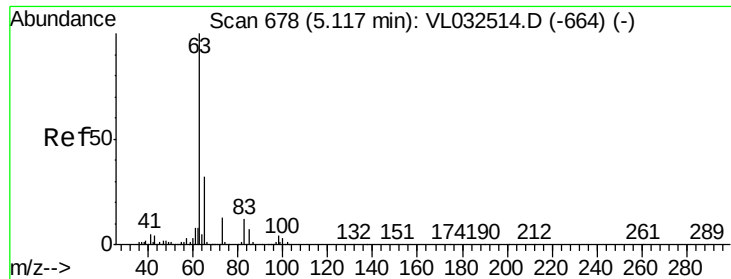


#20

Methylene Chloride
 Concen: 2.856 ppbv
 RT: 4.44 min Scan# 466
 Delta R.T. -0.01 min
 Lab File: VL032536.D
 Acq: 25 Sep 2018 8:57

Tgt Ion: 84 Resp: 173669
 Ion Ratio Lower Upper
 84 100
 49 151.2 119.1 178.7
 51 43.3 35.2 52.8
 86 64.7 49.4 74.2





#24

1,1-Dichloroethane

Concen: 0.366 ppbv

RT: 5.12 min Scan# 679

Delta R.T. -0.02 min

Lab File: VL032536.D

Acq: 25 Sep 2018 8:57

Instrument :

MSVOA_L

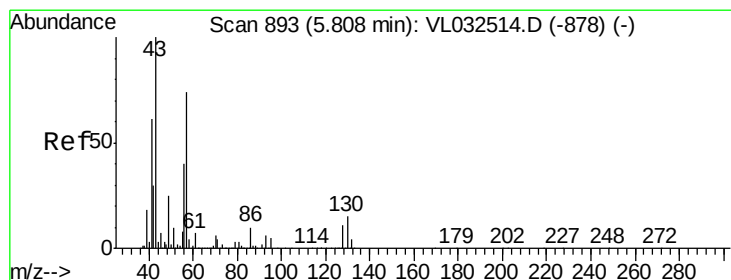
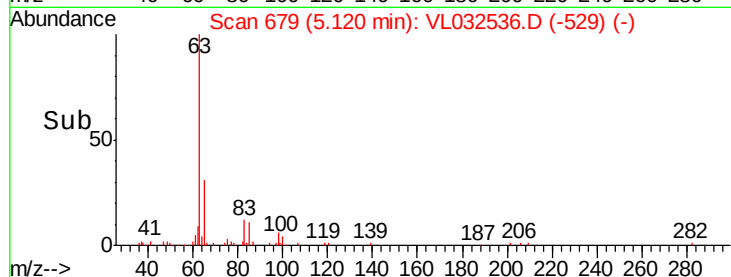
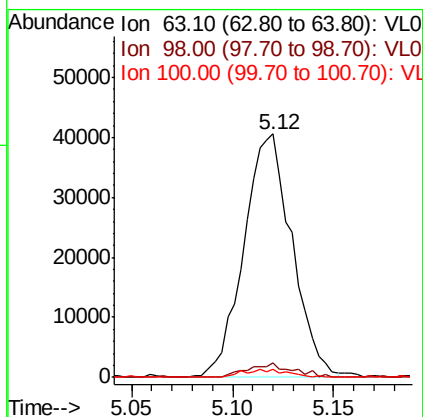
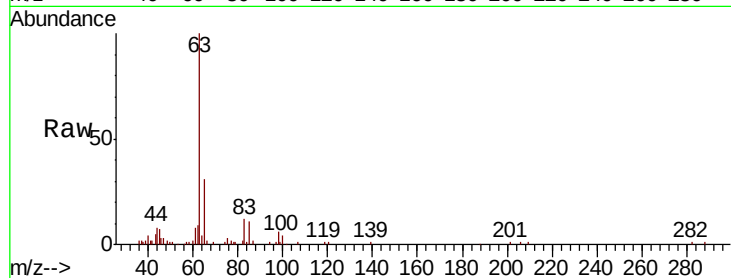
ClientSampleId :

SSDS-INF-092018

Tot Ion	Ratio	Resp	Lower	Upper
63	100	67706		
98	6.1	2.1	6.5	
100	3.5	1.5	4.4	

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#26

Hexane

Concen: 7.295 ppbv

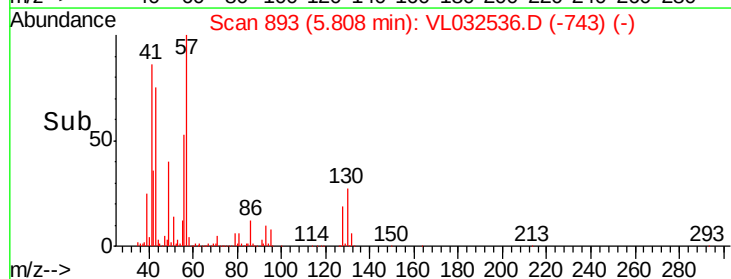
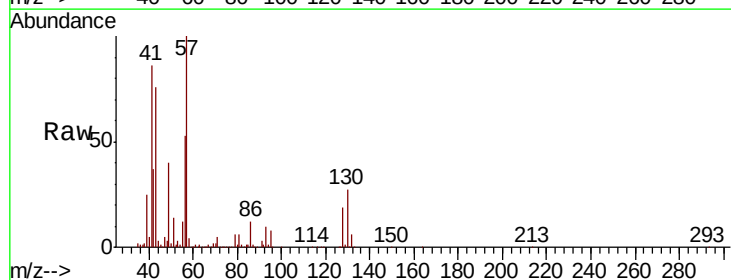
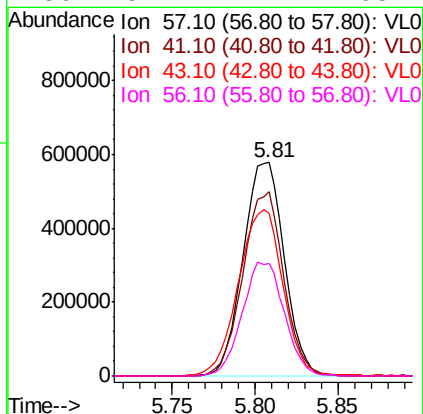
RT: 5.81 min Scan# 893

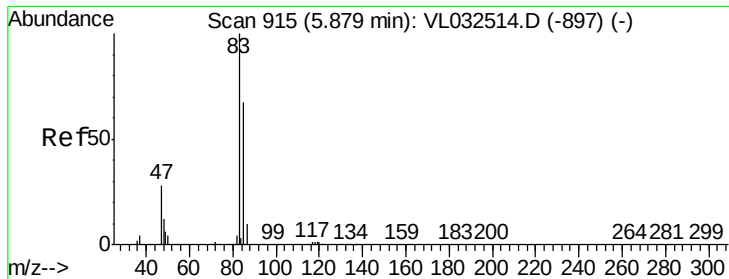
Delta R.T. -0.02 min

Lab File: VL032536.D

Acq: 25 Sep 2018 8:57

Tgt Ion	Ratio	Resp	Lower	Upper
57	100	1003986		
41	85.6	69.0	103.4	
43	84.1	172.1	258.1	
56	54.4	42.2	63.2	





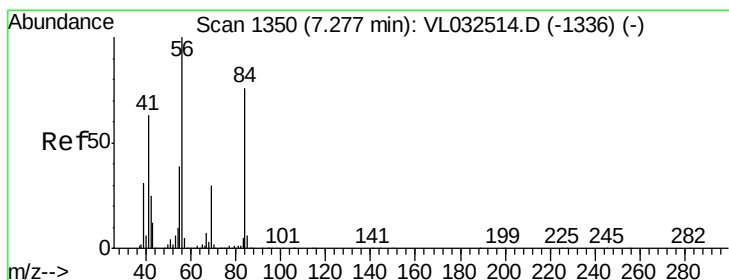
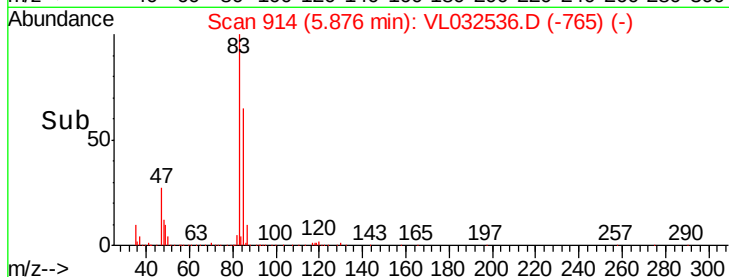
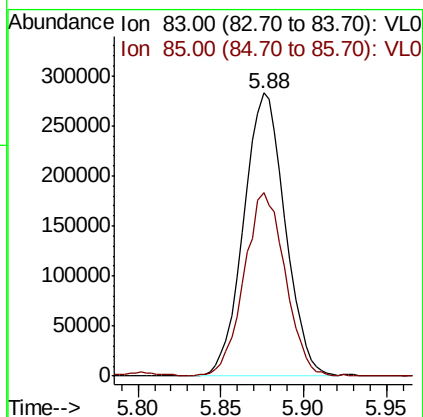
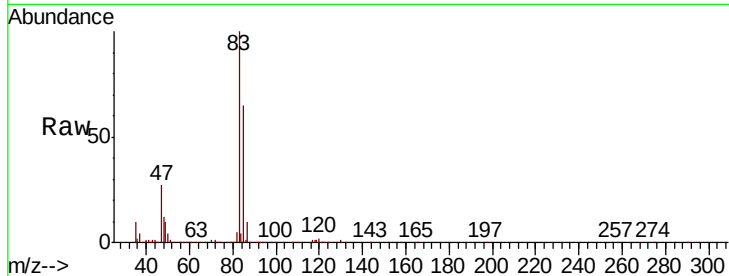
#29
Chloroform
Concen: 2.328 ppbv
RT: 5.88 min Scan# 914
Delta R.T. -0.02 min
Lab File: VL032536.D
Acq: 25 Sep 2018 8:57

Instrument :
MSVOA_L
ClientSampleId :
SSDS-INF-092018

Tot Ion	83	Resp	491686
Ion Ratio	100	Lower	Upper
83	100		
85	64.8	52.5	78.7

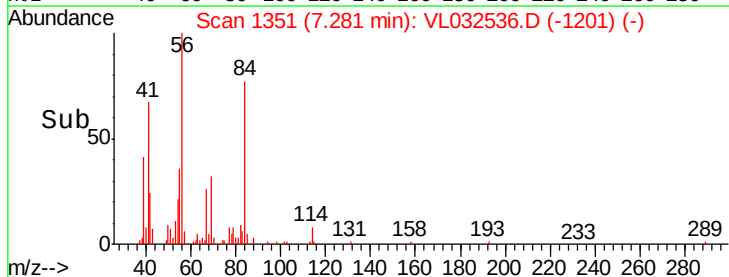
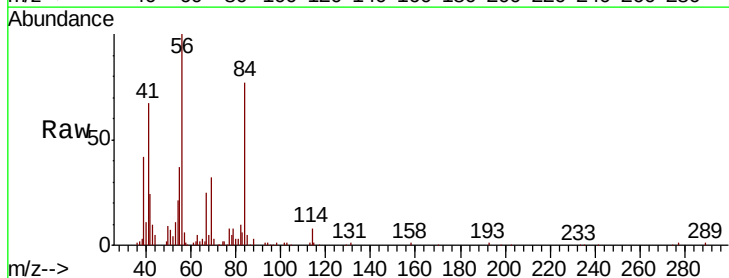
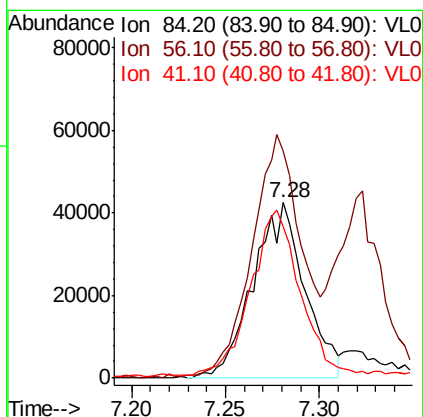
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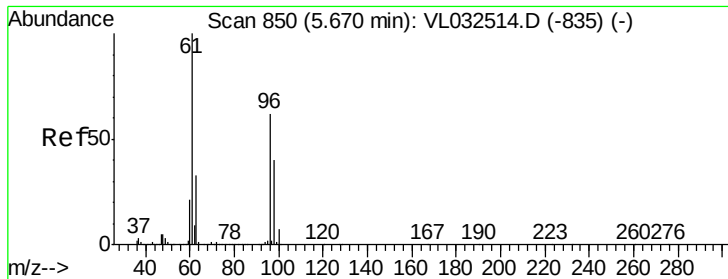
apatel
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#30
Cyclohexane
Concen: 0.724 ppbv m
RT: 7.28 min Scan# 1351
Delta R.T. -0.02 min
Lab File: VL032536.D
Acq: 25 Sep 2018 8:57

Tgt Ion	84	Resp	81176
Ion Ratio	100	Lower	Upper
84	100		
56	0.0	113.5	170.3#
41	0.0	68.1	102.1#





#31

cis-1,2-Dichloroethene

Concen: 0.078 ppbv

RT: 5.66 min Scan# 848

Delta R.T. -0.03 min

Lab File: VL032536.D

Acq: 25 Sep 2018 8:57

Instrument :

MSVOA_L

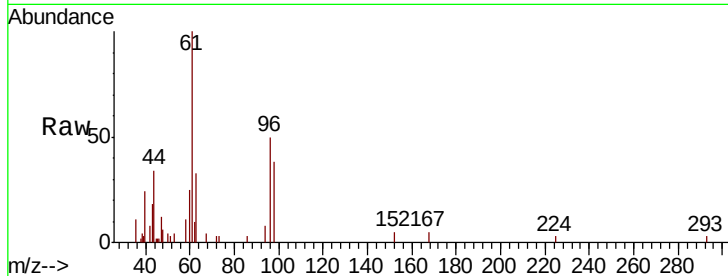
ClientSampleId :

SSDS-INF-092018

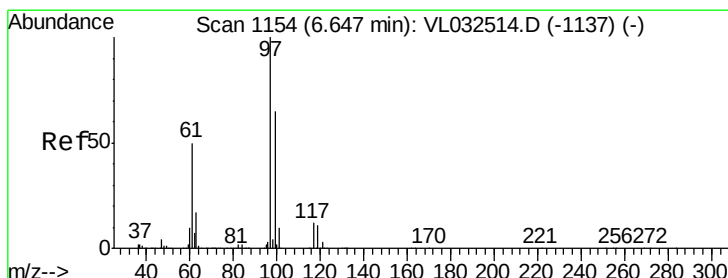
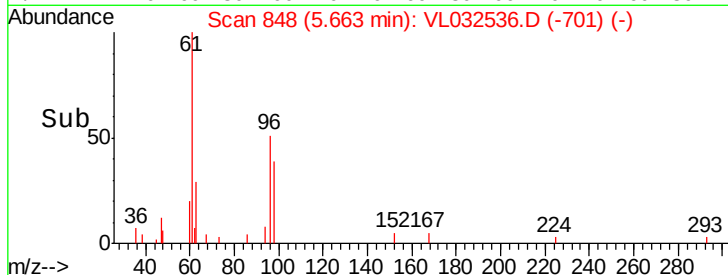
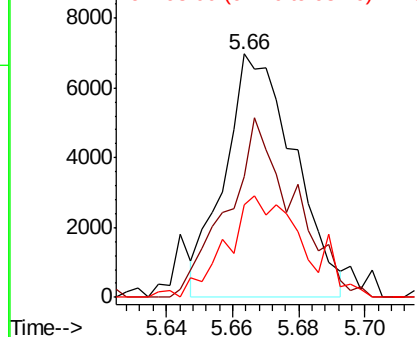
Tot Ion	61.10	Resp:	10202
Ion	Ratio	Lower	Upper
61	100		
96	47.6	49.2	73.8#
98	37.4	30.7	46.1

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Abundance Ion 61.10 (60.80 to 61.80): VL0
Ion 96.00 (95.70 to 96.70): VL0
Ion 98.00 (97.70 to 98.70): VL0



#32

1,1,1-Trichloroethane

Concen: 0.617 ppbv

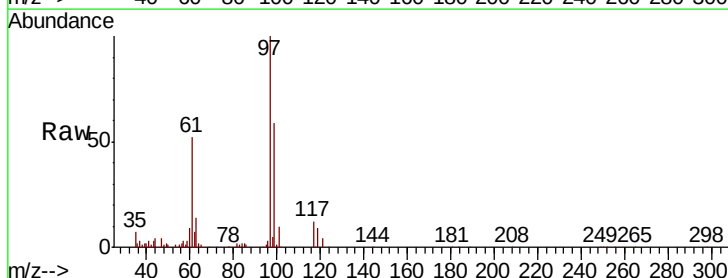
RT: 6.65 min Scan# 1155

Delta R.T. -0.02 min

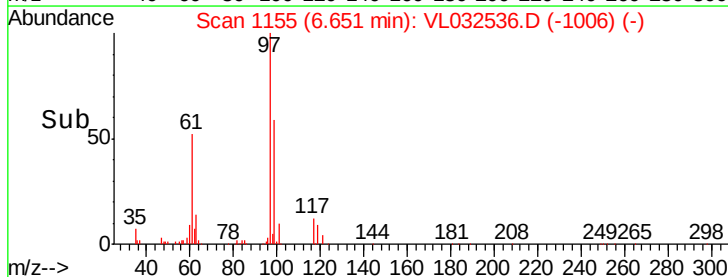
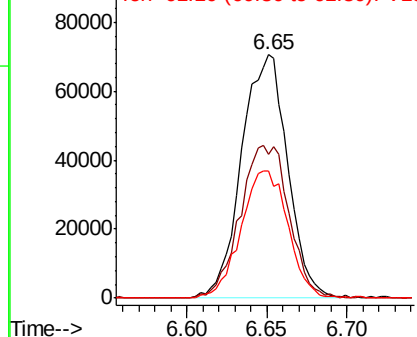
Lab File: VL032536.D

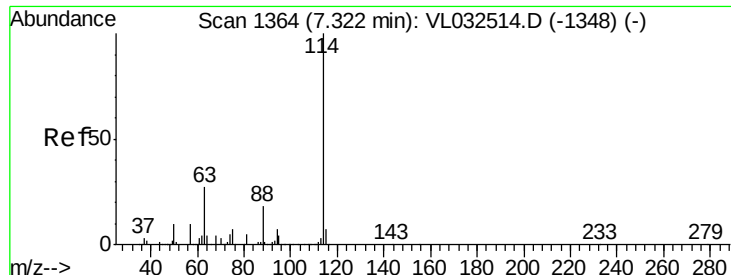
Acq: 25 Sep 2018 8:57

Tgt Ion	97	Resp:	138775
Ion	Ratio	Lower	Upper
97	100		
99	66.9	52.1	78.1
61	53.7	42.5	63.7



Abundance Ion 97.00 (96.70 to 97.70): VL0
Ion 99.00 (98.70 to 99.70): VL0
Ion 61.10 (60.80 to 61.80): VL0





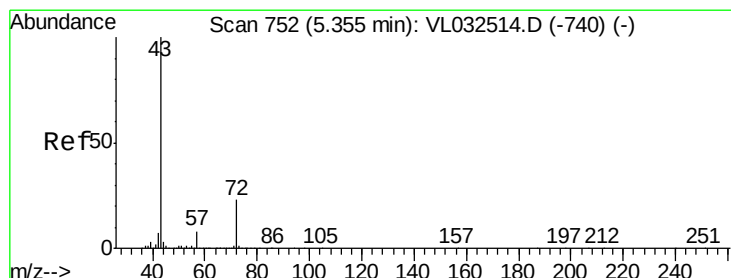
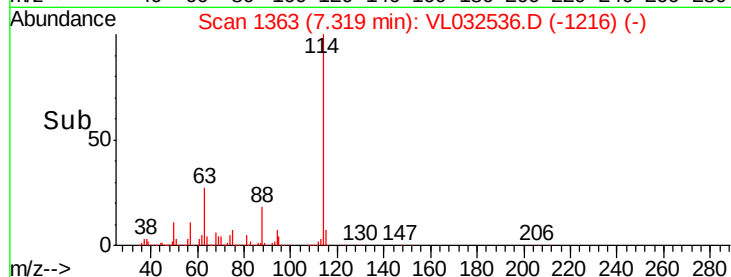
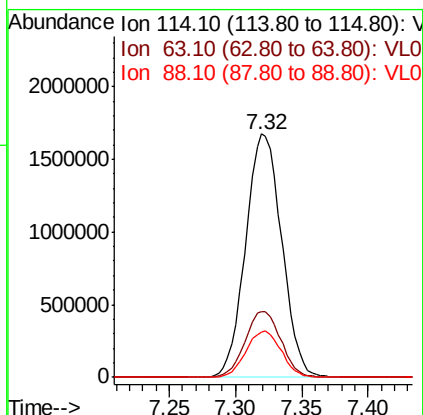
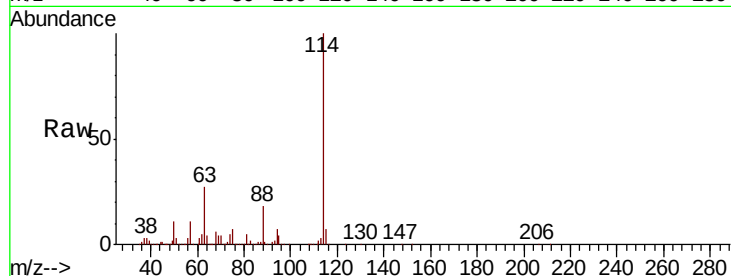
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.32 min Scan# 1363
 Delta R.T. -0.03 min
 Lab File: VL032536.D
 Acq: 25 Sep 2018 8:57

Instrument :
 MSVOA_L
 ClientSampleId :
 SSDS-INF-092018

Tot Ion	Ratio	Lower	Upper
114	100		
63	27.0	22.2	33.4
88	18.7	15.0	22.4

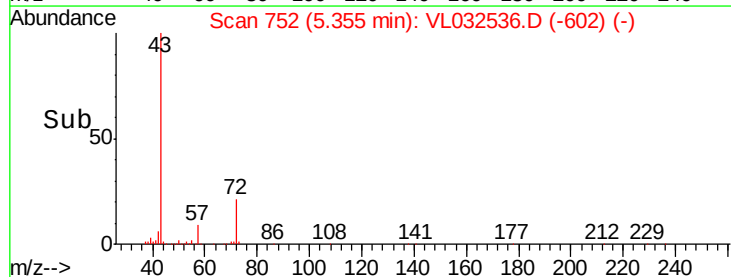
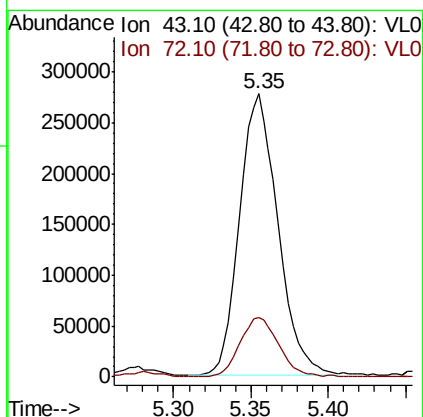
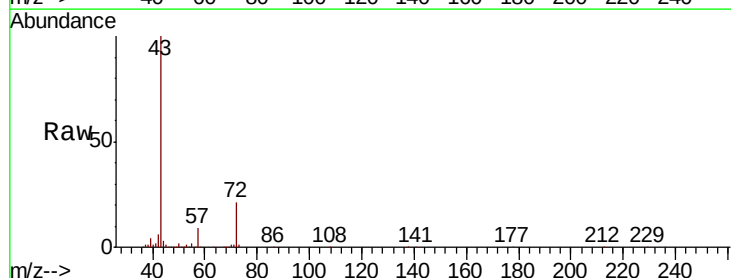
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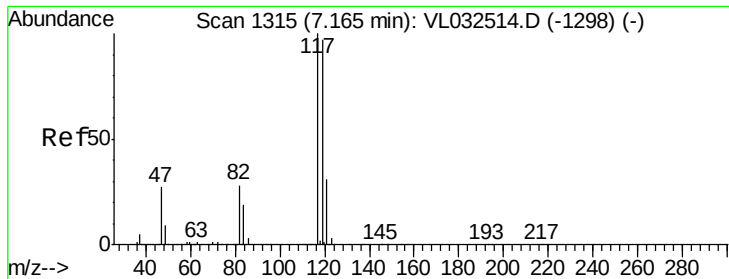
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#34
 2-Butanone
 Concen: 2.534 ppbv
 RT: 5.35 min Scan# 752
 Delta R.T. -0.02 min
 Lab File: VL032536.D
 Acq: 25 Sep 2018 8:57

Tgt Ion	Ratio	Lower	Upper
43	100		
72	21.6	17.8	26.6





#35

Carbon Tetrachloride

Concen: 0.095 ppbv m

RT: 7.17 min Scan# 1315

Delta R.T. -0.02 min

Lab File: VL032536.D

Acq: 25 Sep 2018 8:57

Instrument :

MSVOA_L

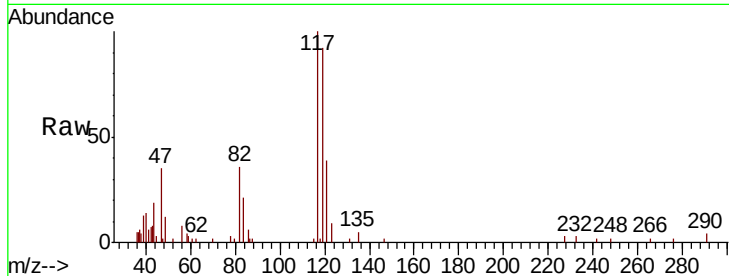
ClientSampleId :

SSDS-INF-092018

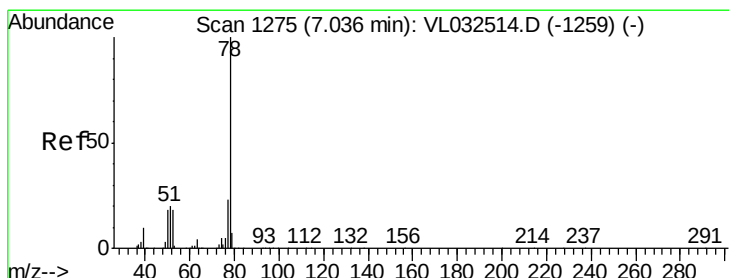
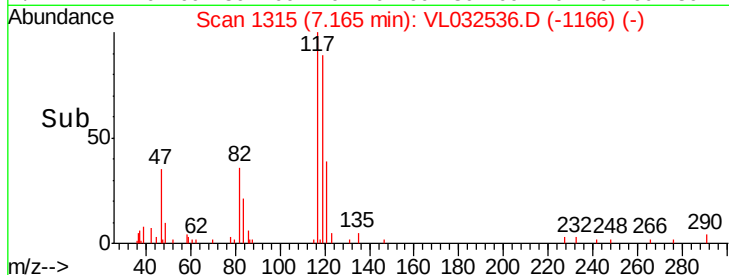
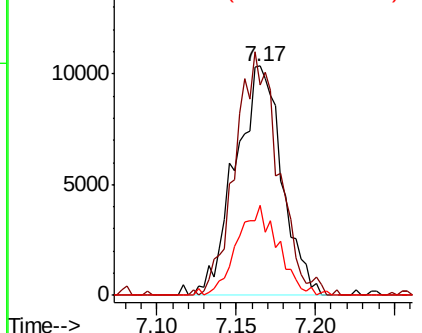
Tot Ion:	117	Resp:	20931
Ion Ratio	Lower	Upper	
117	100		
119	92.0	76.6	115.0
121	39.1	24.6	36.8#

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Abundance Ion 117.00 (116.70 to 117.70): V
Ion 119.00 (118.70 to 119.70): V
Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 0.237 ppbv

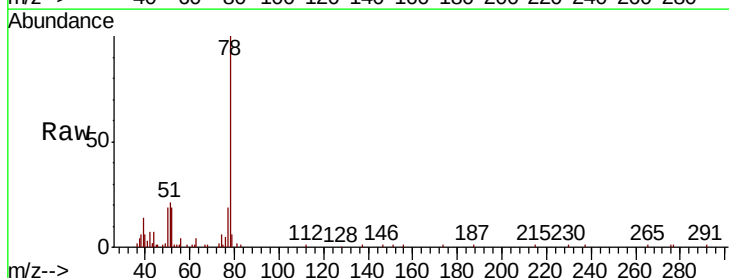
RT: 7.04 min Scan# 1275

Delta R.T. -0.02 min

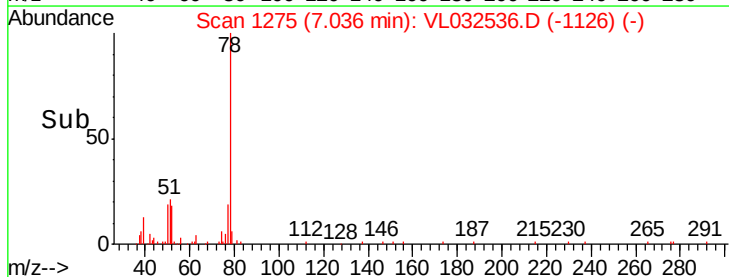
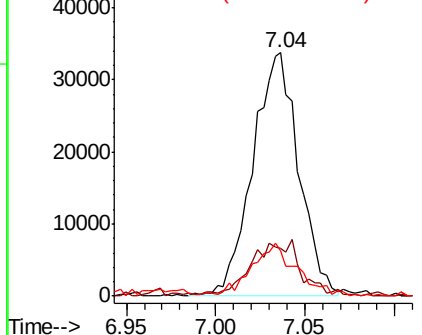
Lab File: VL032536.D

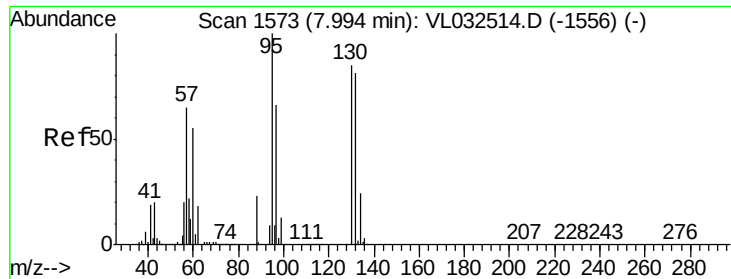
Acq: 25 Sep 2018 8:57

Tgt Ion:	78	Resp:	60870
Ion Ratio	Lower	Upper	
78	100		
77	18.4	18.4	27.6
50	17.7	14.4	21.6



Abundance Ion 78.10 (77.80 to 78.80): VL0
Ion 77.10 (76.80 to 77.80): VL0
Ion 50.10 (49.80 to 50.80): VL0





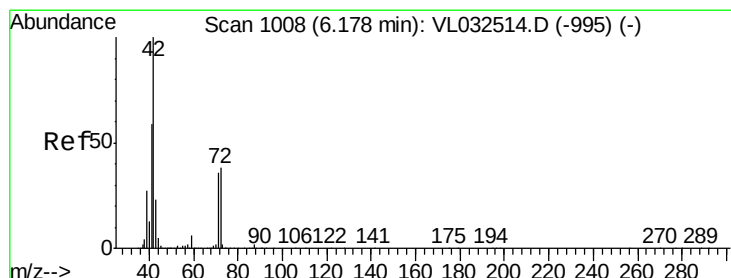
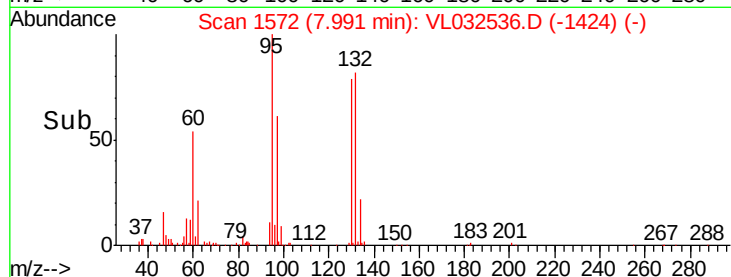
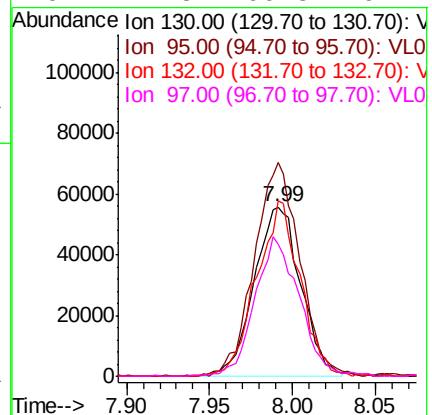
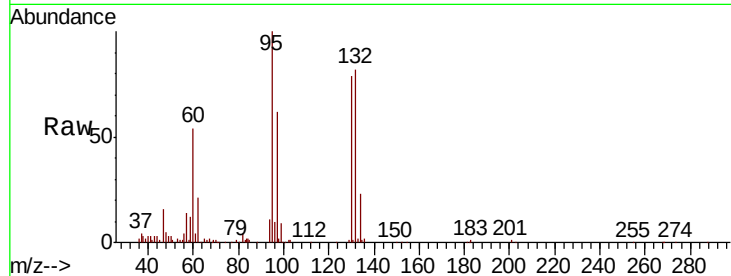
#38
 Trichloroethene
 Concen: 1.110 ppbv
 RT: 7.99 min Scan# 1572
 Delta R.T. -0.02 min
 Lab File: VL032536.D
 Acq: 25 Sep 2018 8:57

Instrument :
 MSVOA_L
 ClientSampleId :
 SSDS-INF-092018

Tot Ion	Ratio	Resp	Lower	Upper
130	100	108888		
95	126.0		94.2	141.4
132	103.4		76.2	114.4
97	77.8		60.8	91.2

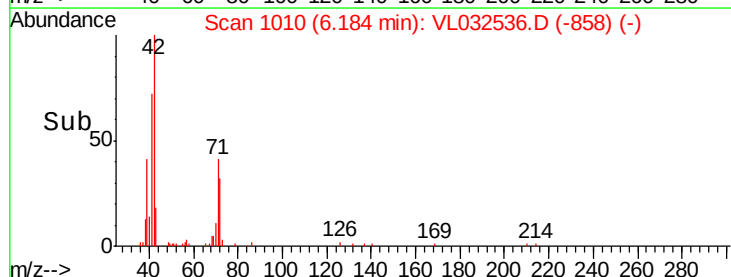
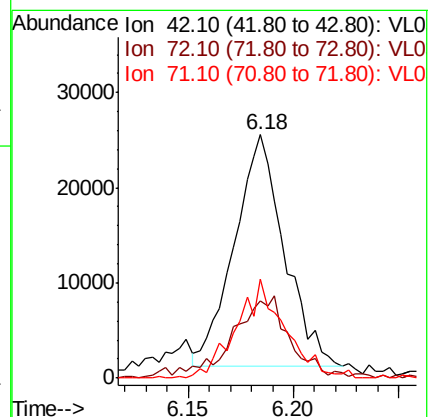
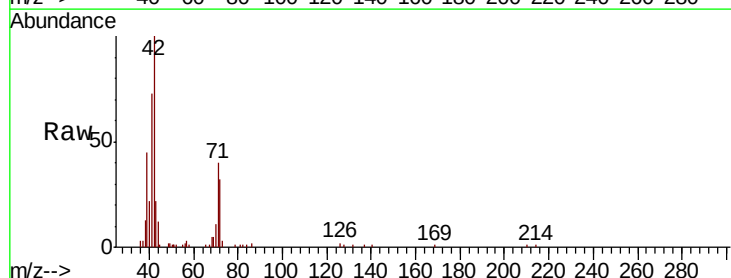
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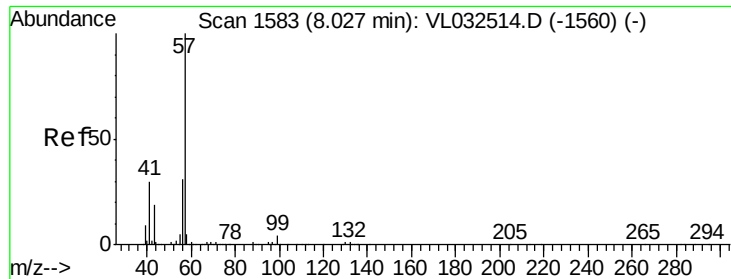
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#41
 Tetrahydrofuran
 Concen: 0.388 ppbv
 RT: 6.18 min Scan# 1010
 Delta R.T. -0.01 min
 Lab File: VL032536.D
 Acq: 25 Sep 2018 8:57

Tgt Ion	Ratio	Resp	Lower	Upper
42	100	39854		
72	42.4		29.5	44.3
71	41.4		28.3	42.5





#44

2,2,4-Trimethylpentane

Concen: 0.182 ppbv

RT: 8.02 min Scan# 1581

Delta R.T. -0.02 min

Lab File: VL032536.D

Acq: 25 Sep 2018 8:57

Instrument :

MSVOA_L

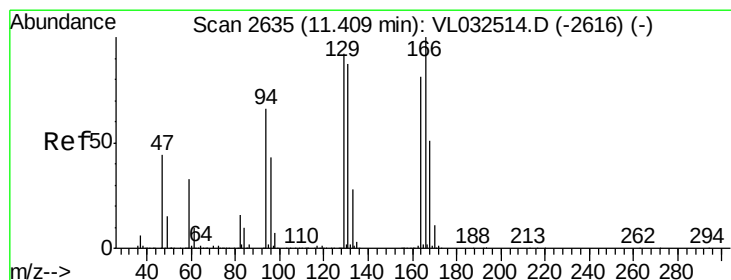
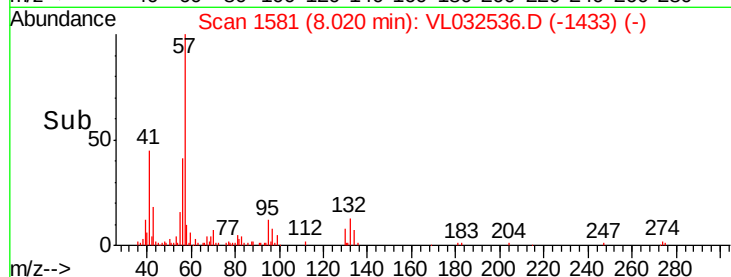
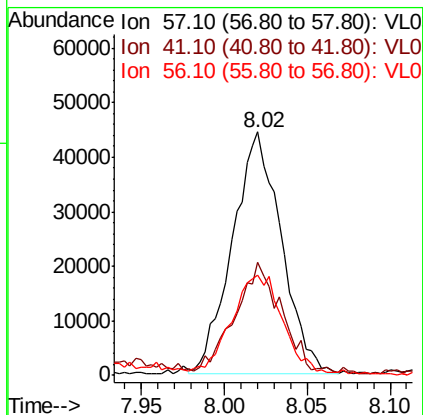
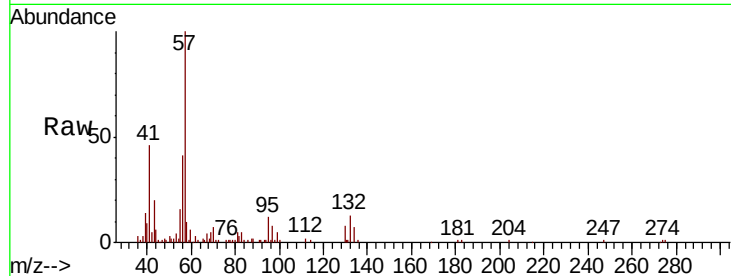
ClientSampleId :

SSDS-INF-092018

Tot Ion:	57	Resp:	91344
Ion Ratio	Lower	Upper	
57	100		
41	44.9	24.4	36.6#
56	45.0	25.7	38.5#

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#52

Tetrachloroethene

Concen: 0.349 ppbv m

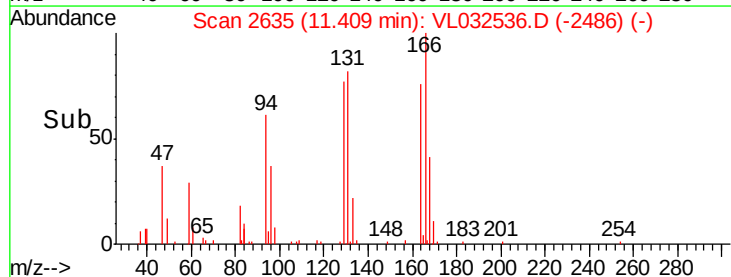
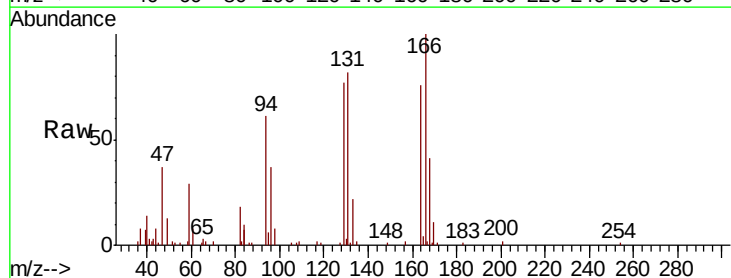
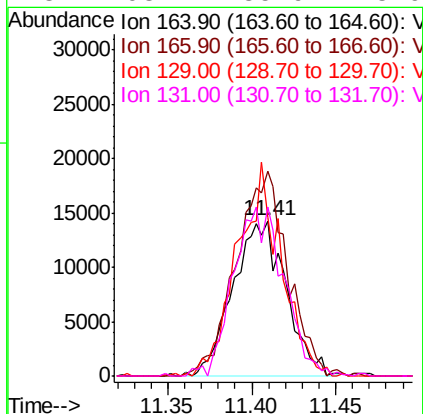
RT: 11.41 min Scan# 2635

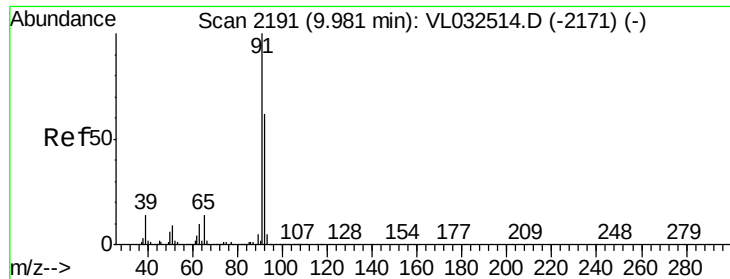
Delta R.T. -0.02 min

Lab File: VL032536.D

Acq: 25 Sep 2018 8:57

Tgt Ion:	164	Resp:	31183
Ion Ratio	Lower	Upper	
164	100		
166	132.4	100.6	150.8
129	102.6	89.9	134.9
131	108.7	85.9	128.9





#53

Toluene

Concen: 5.178 ppbv

RT: 9.98 min Scan# 2190

Delta R.T. -0.03 min

Lab File: VL032536.D

Acq: 25 Sep 2018 8:57

Instrument :

MSVOA_L

ClientSampleId :

SSDS-INF-092018

Tot Ion: 91 Resp: 1617876

Ion Ratio Lower Upper

91 100

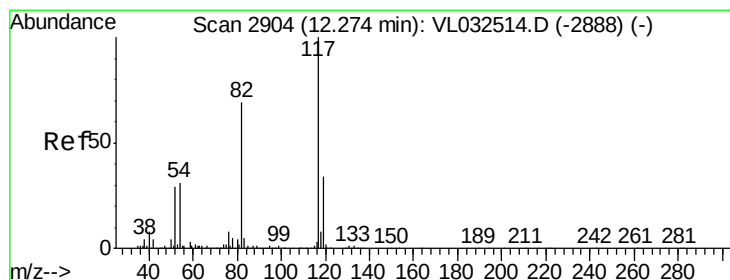
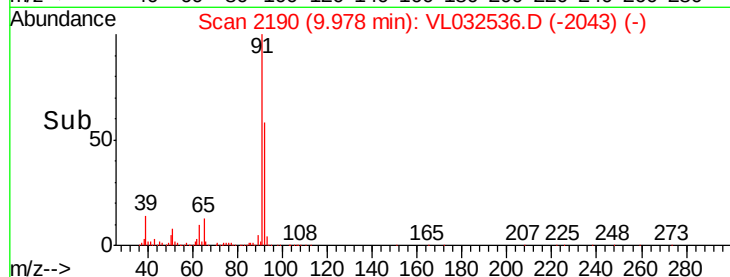
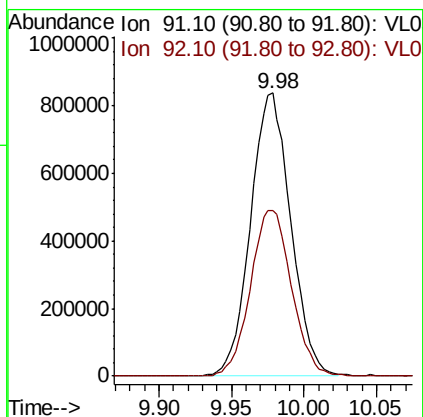
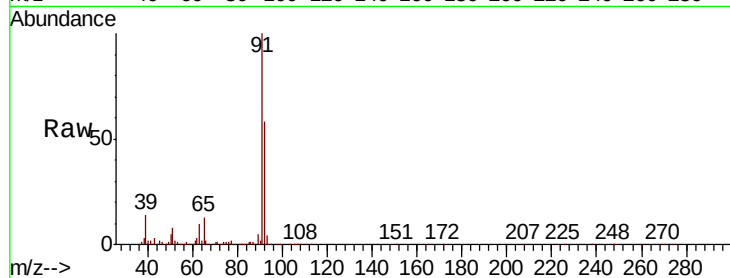
92 59.9 48.1 72.1

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#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.27 min Scan# 2902

Delta R.T. -0.03 min

Lab File: VL032536.D

Acq: 25 Sep 2018 8:57

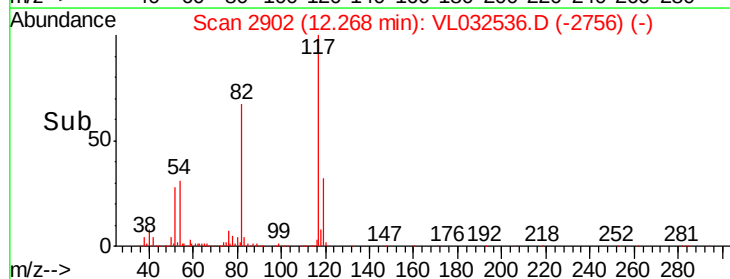
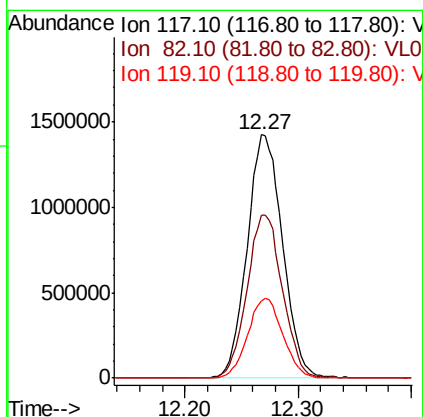
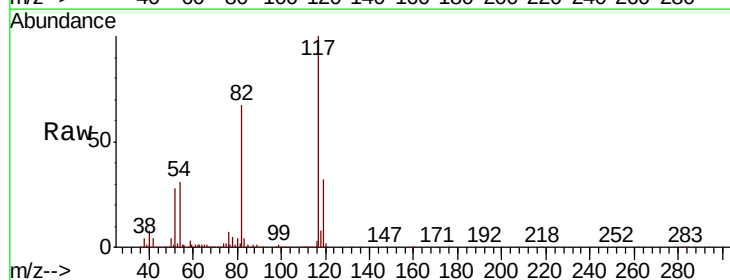
Tgt Ion: 117 Resp: 3095222

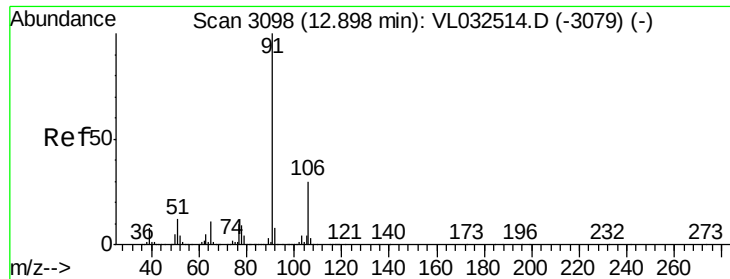
Ion Ratio Lower Upper

117 100

82 67.8 53.0 79.6

119 32.7 45.9 68.9#





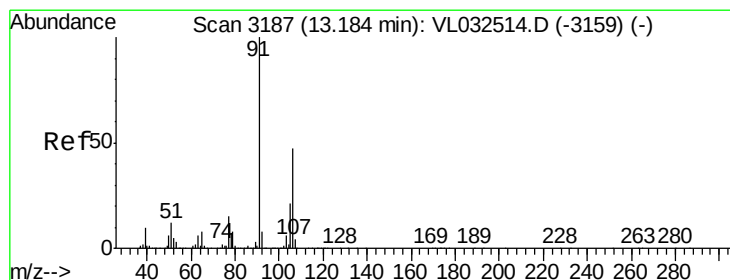
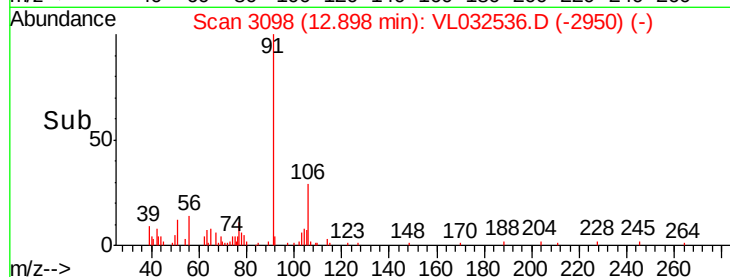
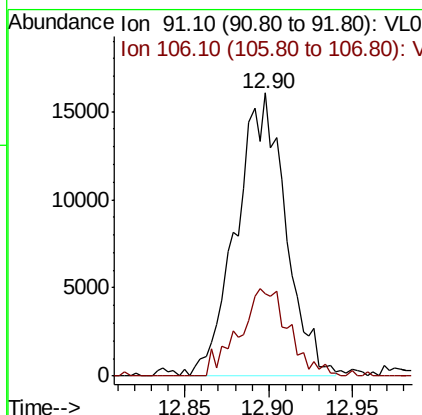
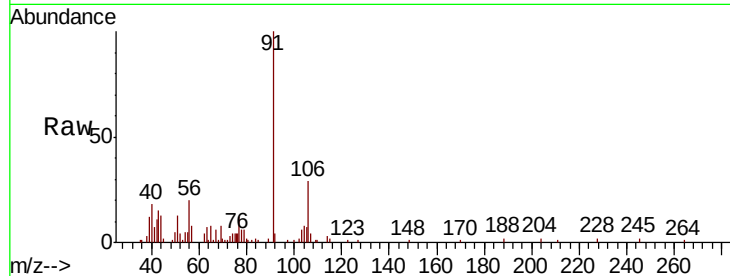
#58
Ethyl Benzene
Concen: 0.087 ppbv m
RT: 12.90 min Scan# 3098
Delta R.T. -0.02 min
Lab File: VL032536.D
Acq: 25 Sep 2018 8:57

Instrument :
MSVOA_L
ClientSampleId :
SSDS-INF-092018

Tot Ion: 91 Resp: 32703
Ion Ratio Lower Upper
91 100
106 29.3 24.8 37.2

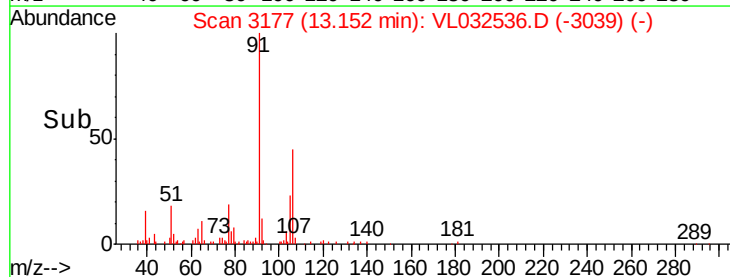
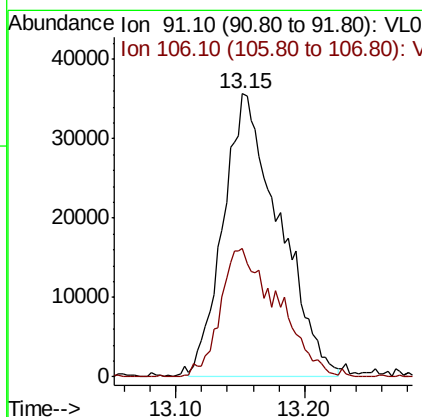
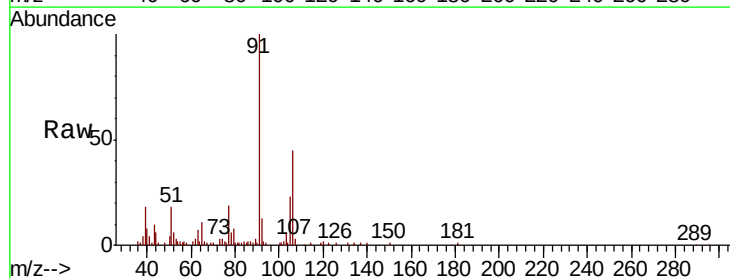
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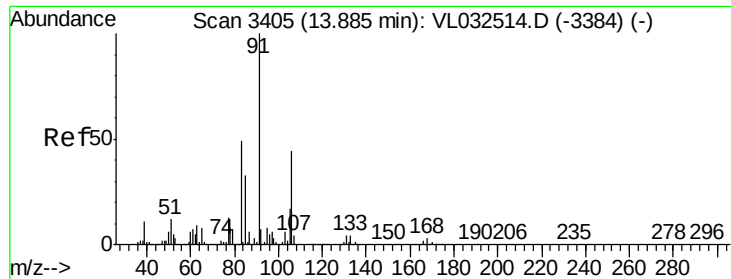
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#59
m/p-Xylene
Concen: 0.324 ppbv m
RT: 13.15 min Scan# 3177
Delta R.T. -0.06 min
Lab File: VL032536.D
Acq: 25 Sep 2018 8:57

Tgt Ion: 91 Resp: 108328
Ion Ratio Lower Upper
91 100
106 46.7 36.6 55.0





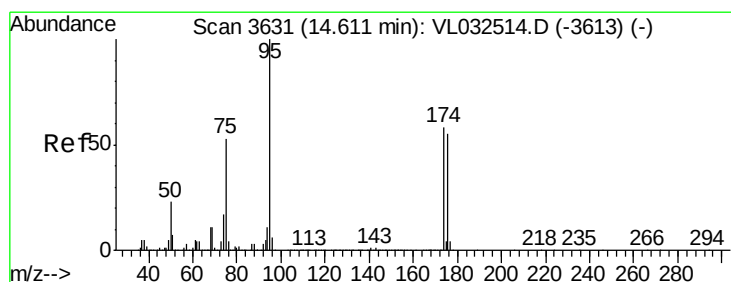
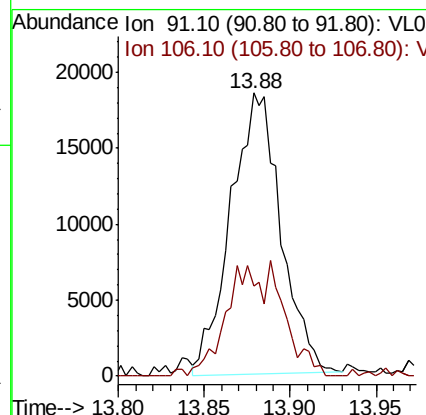
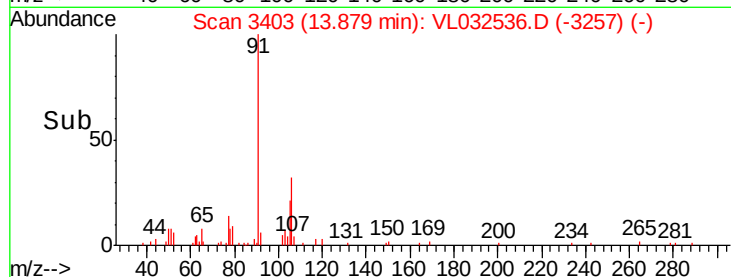
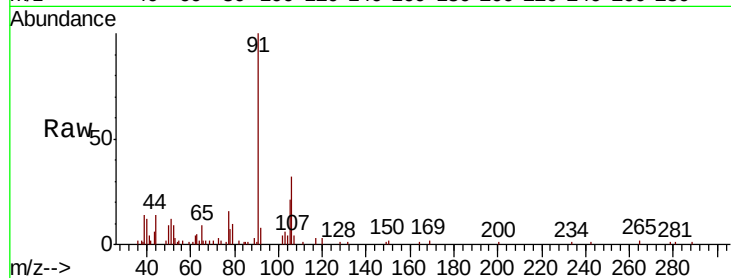
#60
o-Xylene
Concen: 0.116 ppbv
RT: 13.88 min Scan# 3403
Delta R.T. -0.03 min
Lab File: VL032536.D
Acq: 25 Sep 2018 8:57

Instrument :
MSVOA_L
ClientSampleId :
SSDS-INF-092018

Tot Ion: 91 Resp: 37622
Ion Ratio Lower Upper
91 100
106 44.3 21.9 65.7

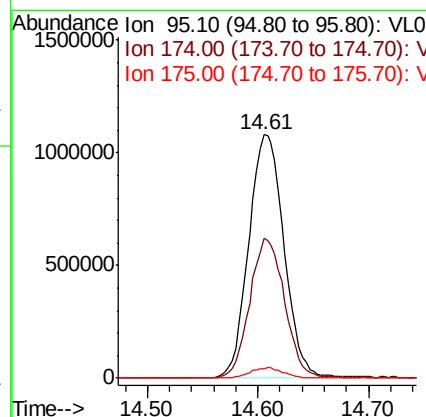
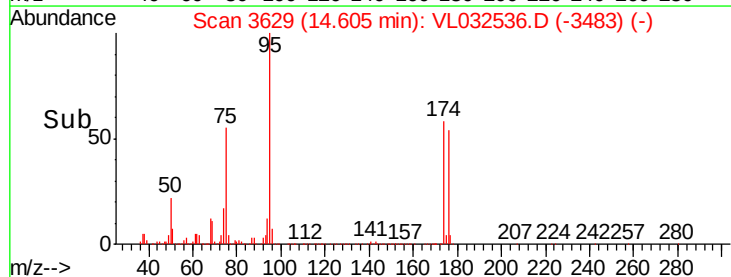
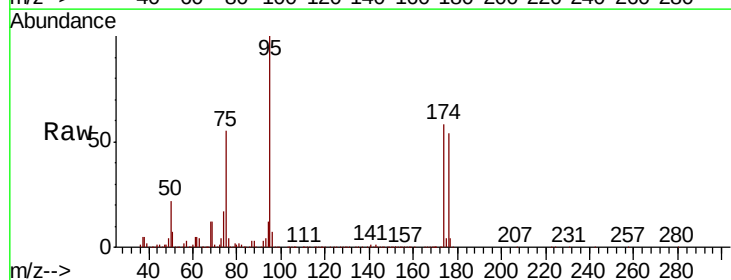
Manual Integrations
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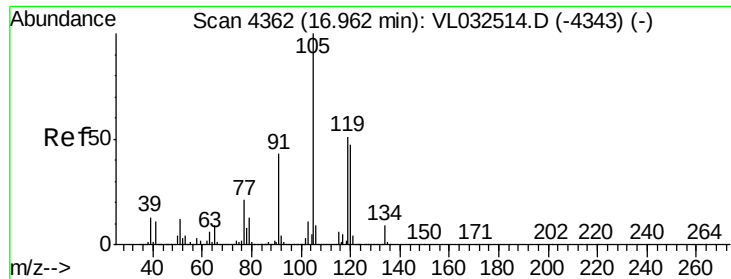
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#68
1-Bromo-4-Fluorobenzene
Concen: 10.263 ppbv
RT: 14.61 min Scan# 3629
Delta R.T. -0.03 min
Lab File: VL032536.D
Acq: 25 Sep 2018 8:57

Tgt Ion: 95 Resp: 2395459
Ion Ratio Lower Upper
95 100
174 57.5 46.3 69.5
175 4.0 3.4 5.0





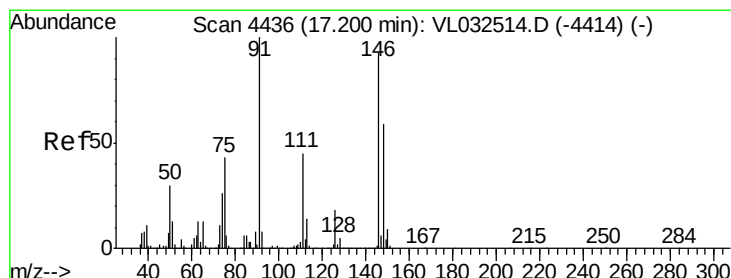
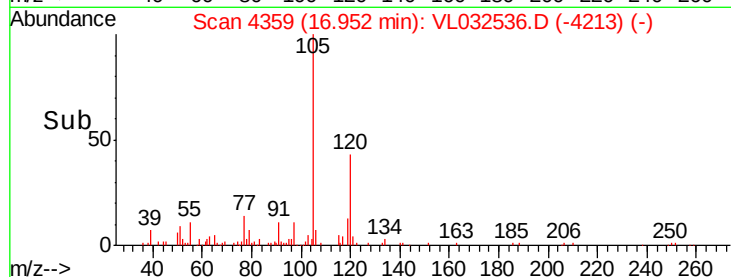
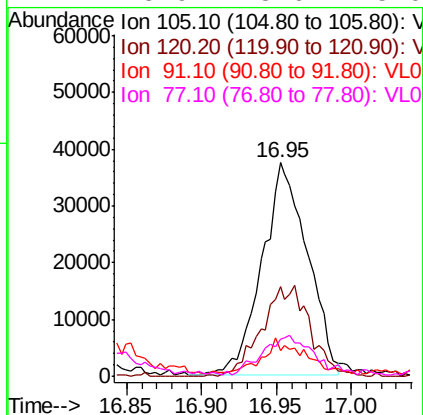
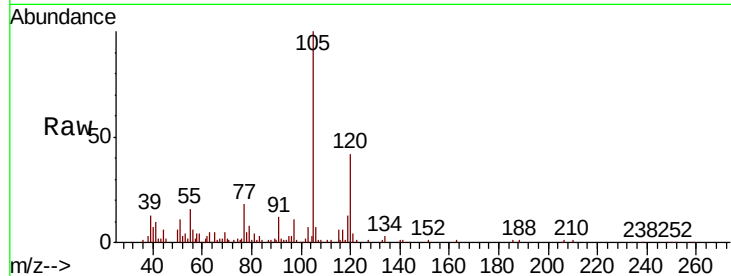
#74
 1,2,4-Trimethylbenzene
 Concen: 0.214 ppbv
 RT: 16.95 min Scan# 4359
 Delta R.T. -0.03 min
 Lab File: VL032536.D
 Acq: 25 Sep 2018 8:57

Instrument :
 MSVOA_L
 ClientSampleId :
 SSDS-INF-092018

Tot Ion	Ratio	Resp	Lower	Upper
105	100	79219		
120	42.0		37.8	56.8
91	9.7		41.4	62.0#
77	15.9		18.6	28.0#

Manual Integrations
 APPROVED

apatel
 9/26/2018 4:57:40 PM



#75
 1,3-Dichlorobenzene
 Concen: 0.341 ppbv m
 RT: 17.20 min Scan# 4435
 Delta R.T. -0.03 min
 Lab File: VL032536.D
 Acq: 25 Sep 2018 8:57

Tgt Ion	Ratio	Resp	Lower	Upper
146	100	77640		
111	60.5		24.5	73.5
148	69.5		32.0	96.2

