

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL120718\
 Data File : VL032943.D
 Acq On : 7 Dec 2018 20:32
 Operator : SY/AP
 Sample : J6262-07
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 OA1

Manual Integrations
 APPROVED

MMDadoda
 12/11/2018 10:09:23 AM

Quant Time: Dec 08 03:55:17 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL120718AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Dec 0
 QLast Update : Fri Dec 07 09:35:17 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	1209575	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	3215528	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2998826	10.00	ppbv	-0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	2428080	10.96	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	109.60%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.08	85	33025	0.205	ppbv	97
3) Chlorodifluoromethane	3.01	51	28595m	0.312	ppbv	
4) Chloromethane	3.17	50	30844	0.578	ppbv	96
9) Propene	3.05	41	91228m	2.519	ppbv	
10) Heptane	8.25	43	75290	0.553	ppbv	95
11) Trichlorofluoromethane	4.01	101	39963	0.263	ppbv	100
13) Ethanol	3.65	45	239724	19.222	ppbv	95
15) Acetone	3.90	43	509055	4.903	ppbv	95
19) Isopropyl Alcohol	4.03	45	119756	1.837	ppbv #	93
20) Methylene Chloride	4.41	84	177460	3.497	ppbv	95
26) Hexane	5.78	57	795586	7.026	ppbv #	53
30) Cyclohexane	7.25	84	39617m	0.422	ppbv	
34) 2-Butanone	5.34	43	95992	0.685	ppbv	98
35) Carbon Tetrachloride	7.14	117	16897m	0.067	ppbv	
36) Benzene	7.01	78	95714	0.405	ppbv #	92
38) Trichloroethene	7.96	130	7994m	0.081	ppbv	
44) 2,2,4-Trimethylpentane	7.99	57	354230	0.882	ppbv #	87
52) Tetrachloroethene	11.37	164	6503m	0.076	ppbv	
53) Toluene	9.95	91	2880270	11.483	ppbv	100
58) Ethyl Benzene	12.86	91	150692	0.471	ppbv	92
59) m/p-Xylene	13.12	91	341324	1.177	ppbv #	100
60) o-Xylene	13.85	91	110658m	0.378	ppbv	
74) 1,2,4-Trimethylbenzene	16.92	105	92258	0.256	ppbv #	70

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

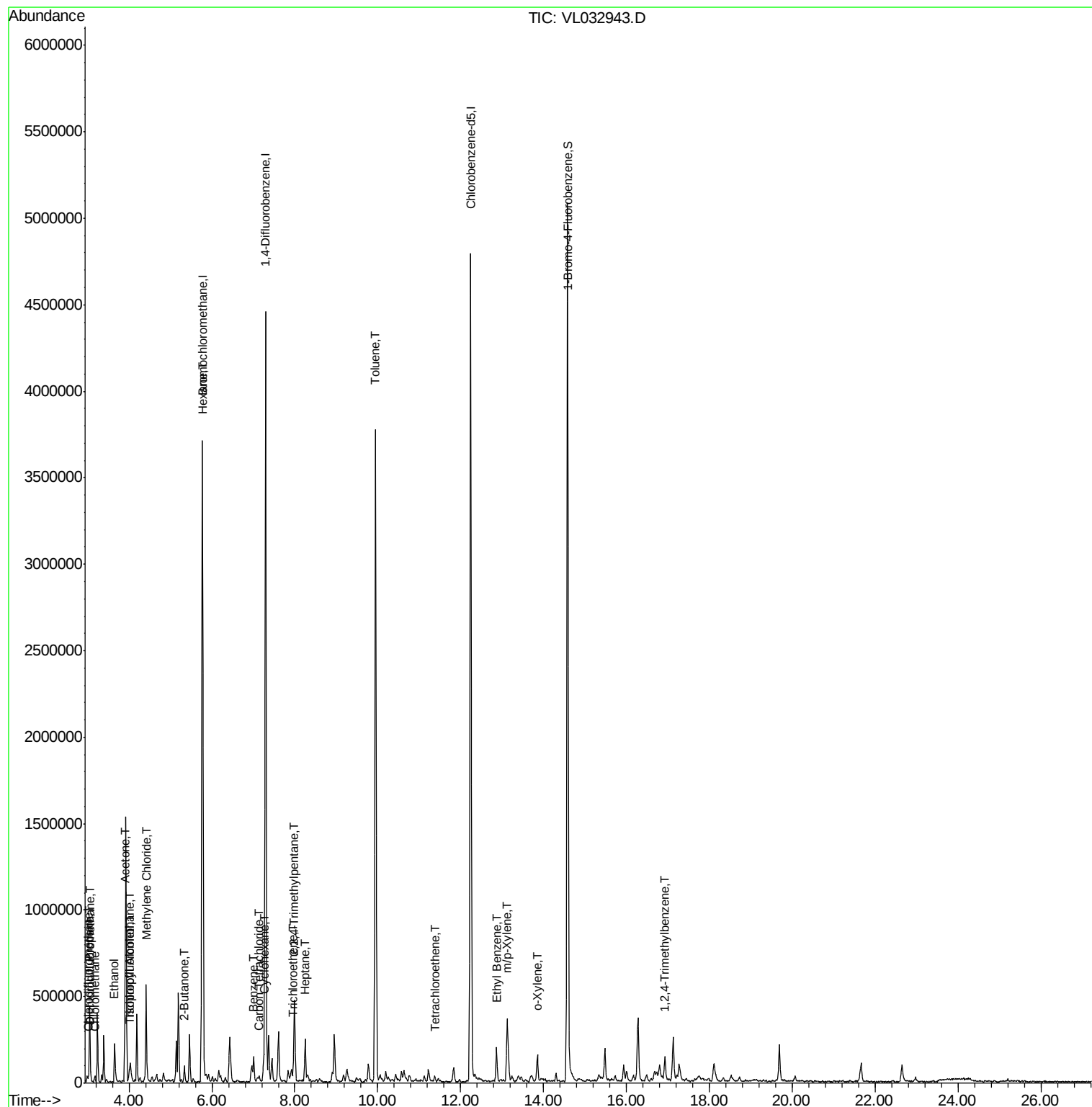
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_L\DATA\VL120718\
Data File : VL032943.D
Acq On : 7 Dec 2018 20:32
Operator : SY/AP
Sample : J6262-07
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

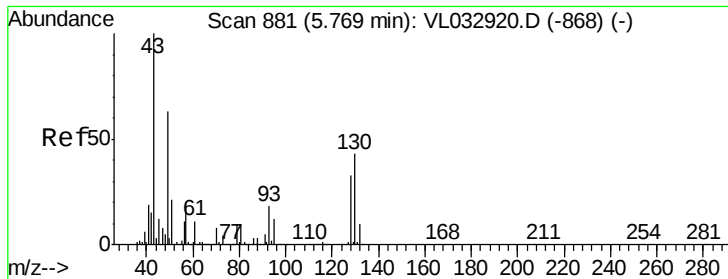
Instrument :
MSVOA_L
ClientSampleId :
OA1

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Quant Time: Dec 08 03:55:17 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_L\METHODS\VL120718AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Dec
QLast Update : Fri Dec 07 09:35:17 2018
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 879

Delta R.T. -0.01 min

Lab File: VL032943.D

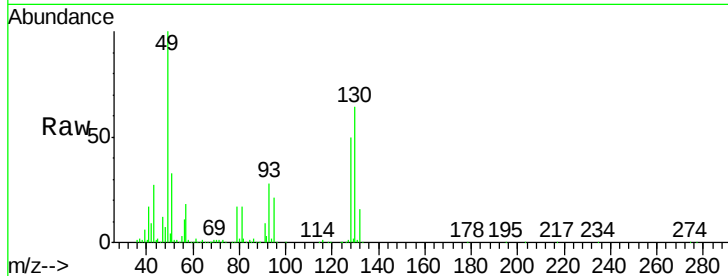
Acq: 7 Dec 2018 20:32

Instrument :

MSVOA_L

ClientSampleId :

QA1



Tgt Ion: 49 Resp: 1209575

Ion Ratio Lower Upper

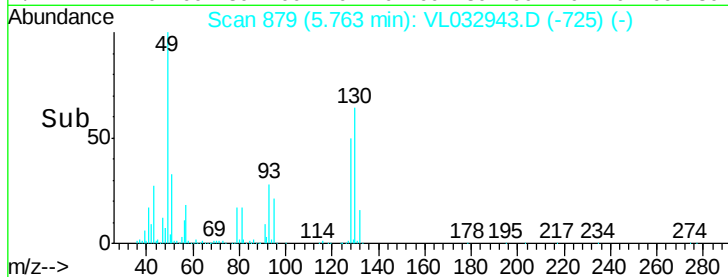
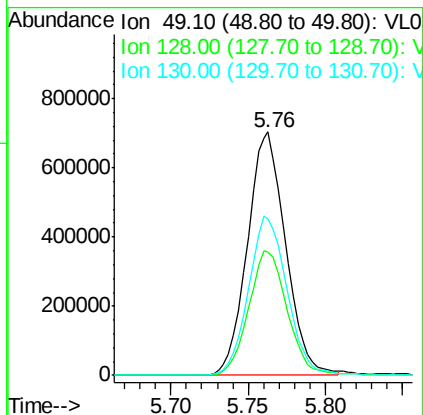
49 100

128 52.2 26.3 78.8

130 66.6 33.9 101.7

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#2

Dichlorodifluoromethane

Concen: 0.205 ppbv

RT: 3.08 min Scan# 44

Delta R.T. -0.00 min

Lab File: VL032943.D

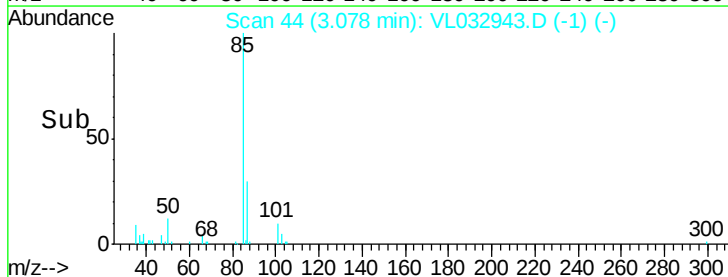
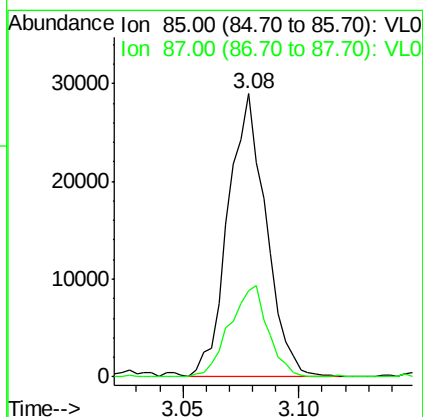
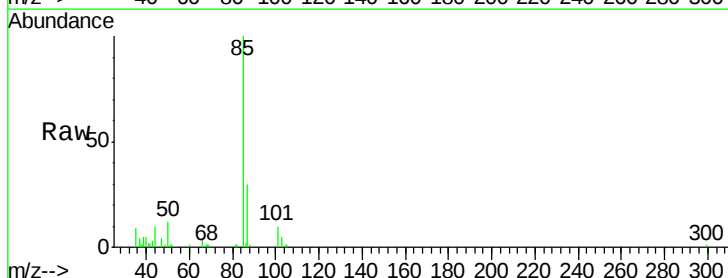
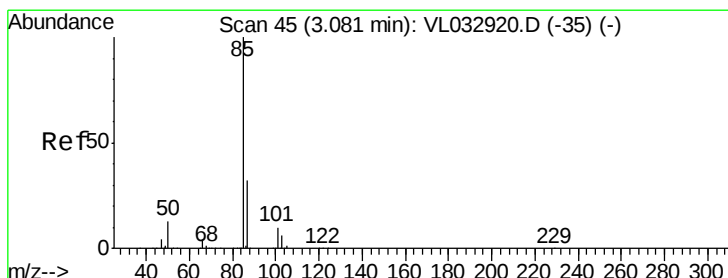
Acq: 7 Dec 2018 20:32

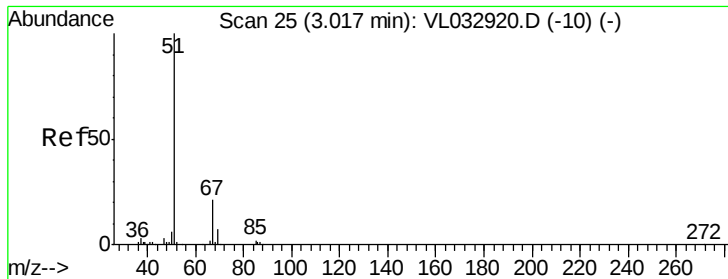
Tgt Ion: 85 Resp: 33025

Ion Ratio Lower Upper

85 100

87 30.4 25.7 38.5





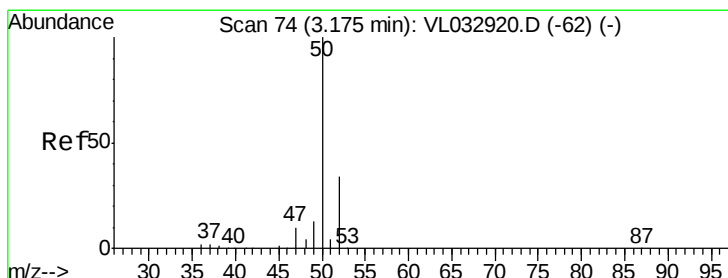
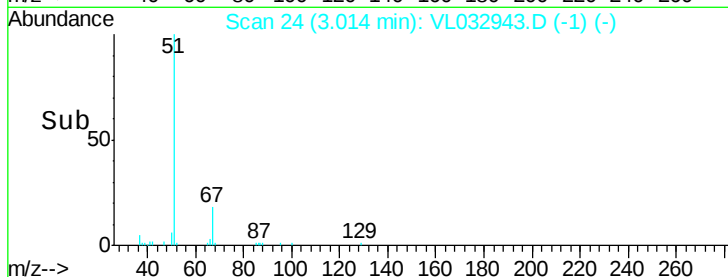
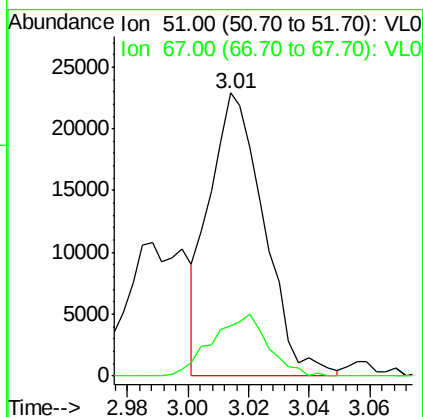
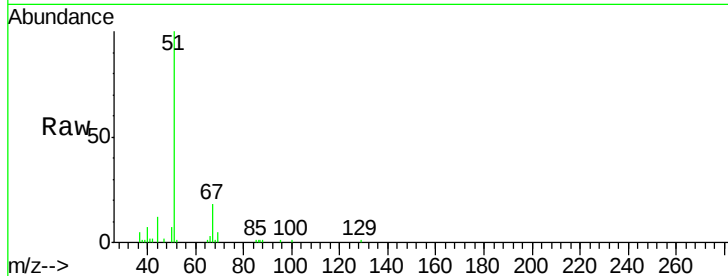
#3
Chlorodifluoromethane
Concen: 0.312 ppbv
RT: 3.01 min Scan# 24
Delta R.T. -0.00 min
Lab File: VL032943.D
Acq: 7 Dec 2018 20:32

Instrument :
MSVOA_L
ClientSampled :
OA1

Tgt Ion: 51 Resp: 28595
Ion Ratio Lower Upper
51 100
67 22.4 16.8 25.2

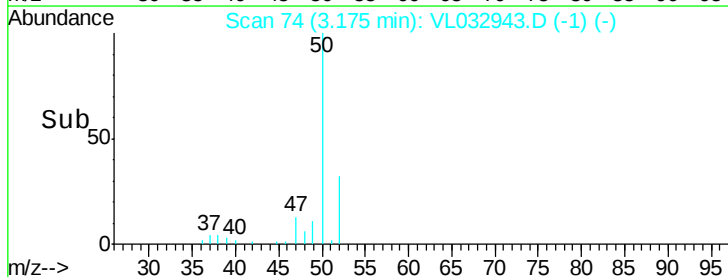
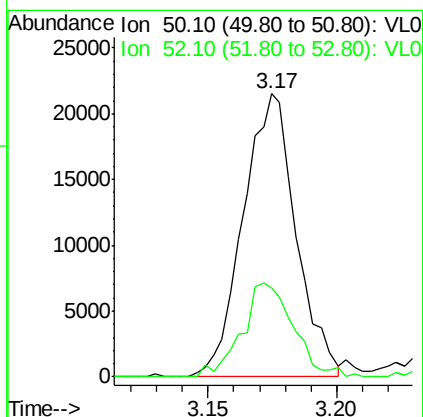
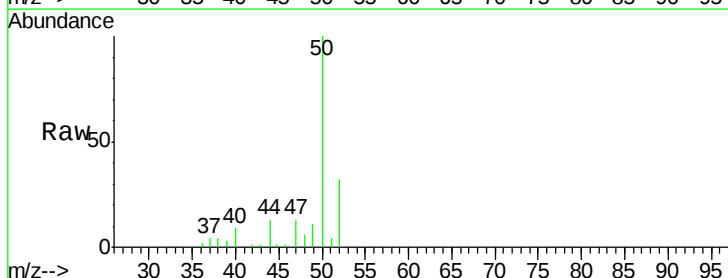
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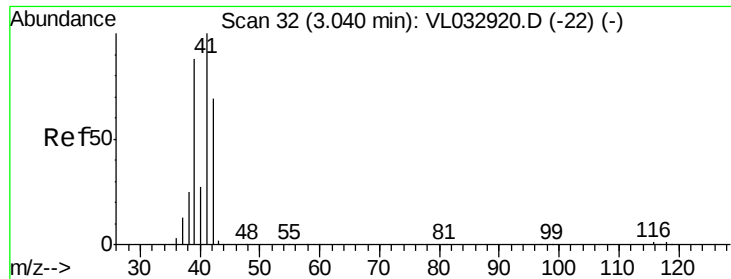
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#4
Chloromethane
Concen: 0.578 ppbv
RT: 3.17 min Scan# 74
Delta R.T. 0.00 min
Lab File: VL032943.D
Acq: 7 Dec 2018 20:32

Tgt Ion: 50 Resp: 30844
Ion Ratio Lower Upper
50 100
52 31.5 27.3 40.9





#9

Propene

Concen: 2.519 ppbv m

RT: 3.05 min Scan# 35

Delta R.T. 0.01 min

Lab File: VL032943.D

Acq: 7 Dec 2018 20:32

Instrument :

MSVOA_L

ClientSampleId :

QA1

Tgt Ion: 41 Resp: 91228

Ion Ratio Lower Upper

41 100

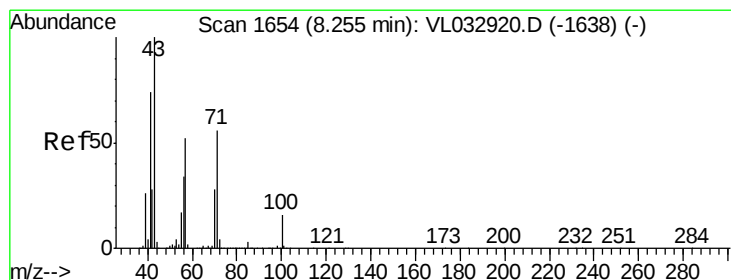
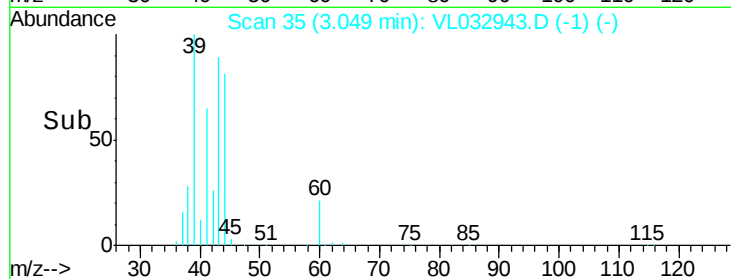
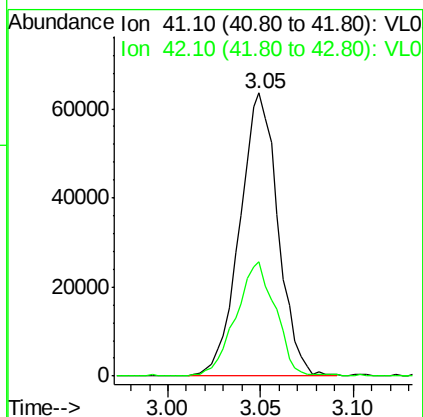
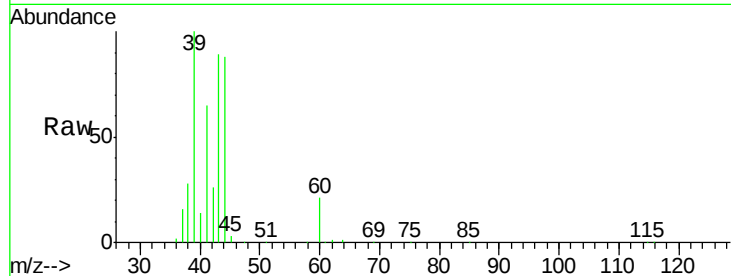
42 74.4 56.2 84.2

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#10

Heptane

Concen: 0.553 ppbv

RT: 8.25 min Scan# 1652

Delta R.T. -0.01 min

Lab File: VL032943.D

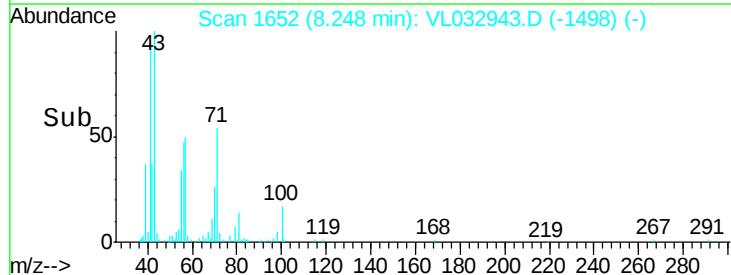
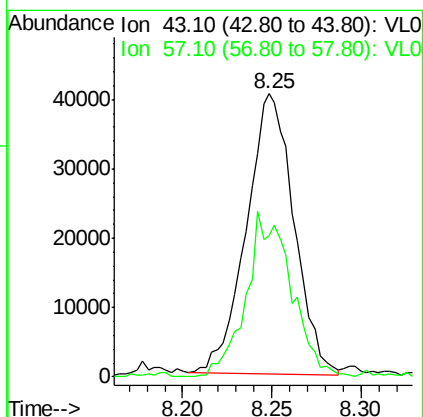
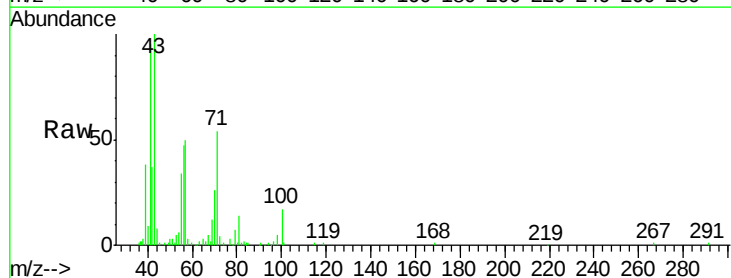
Acq: 7 Dec 2018 20:32

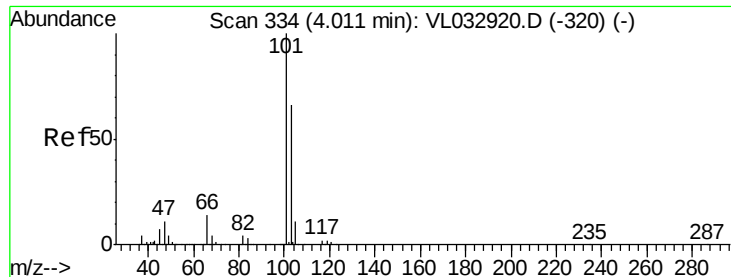
Tgt Ion: 43 Resp: 75290

Ion Ratio Lower Upper

43 100

57 55.8 41.8 62.6





#11

Trichlorofluoromethane

Concen: 0.263 ppbv

RT: 4.01 min Scan# 333

Delta R.T. -0.00 min

Lab File: VL032943.D

Acq: 7 Dec 2018 20:32

Instrument :

MSVOA_L

ClientSampleId :

QA1

Tgt Ion:101 Resp: 39963

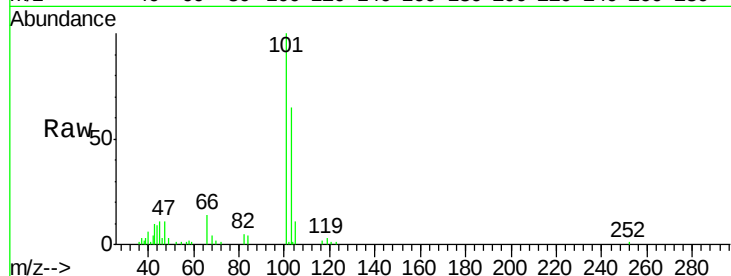
Ion Ratio Lower Upper

101 100

103 65.7 52.7 79.1

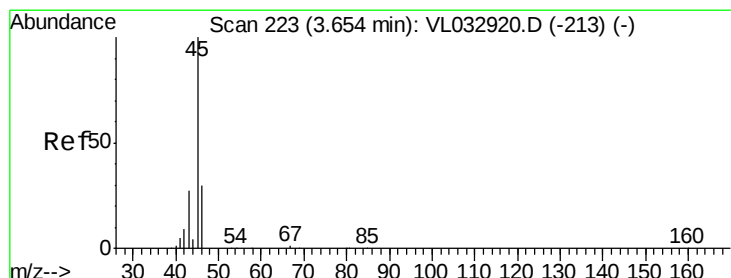
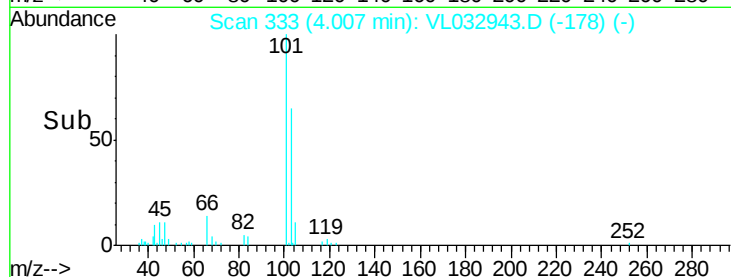
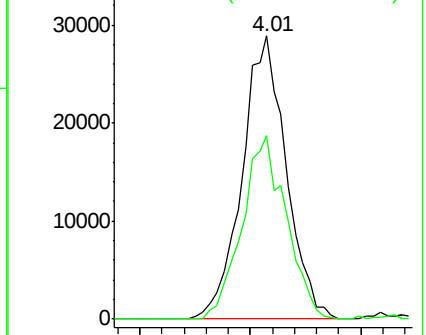
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Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#13

Ethanol

Concen: 19.222 ppbv

RT: 3.65 min Scan# 222

Delta R.T. -0.00 min

Lab File: VL032943.D

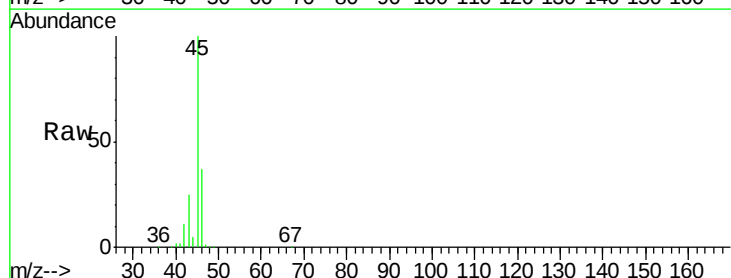
Acq: 7 Dec 2018 20:32

Tgt Ion: 45 Resp: 239724

Ion Ratio Lower Upper

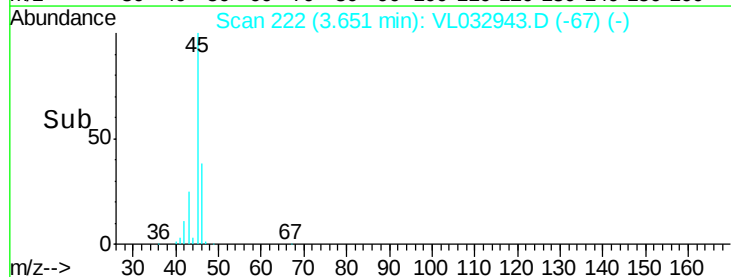
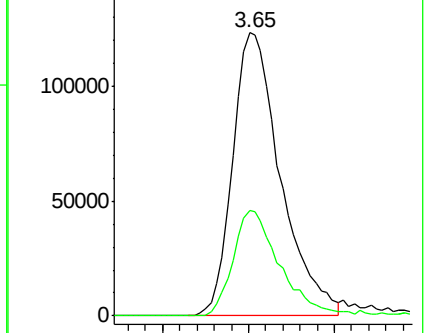
45 100

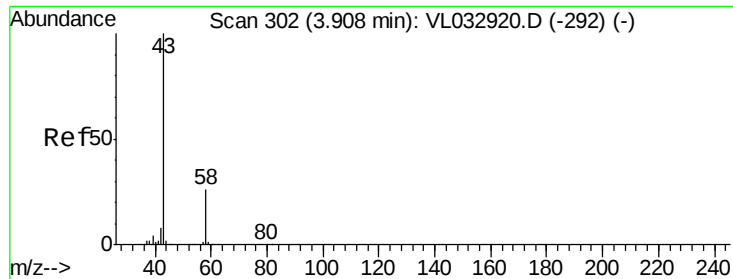
46 37.3 13.8 55.4



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





#15

Acetone

Concen: 4.903 ppbv

RT: 3.90 min Scan# 301

Delta R.T. -0.00 min

Lab File: VL032943.D

Acq: 7 Dec 2018 20:32

Instrument :

MSVOA_L

ClientSampleId :

QA1

Tgt Ion: 43 Resp: 509055

Ion Ratio Lower Upper

43 100

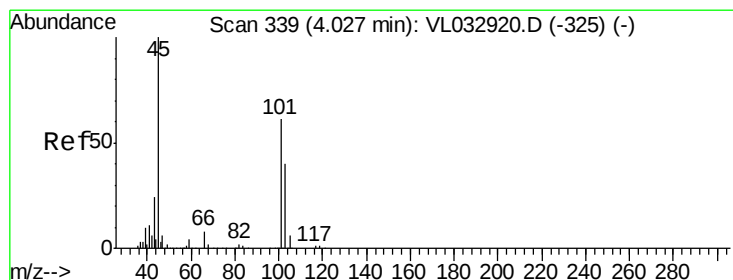
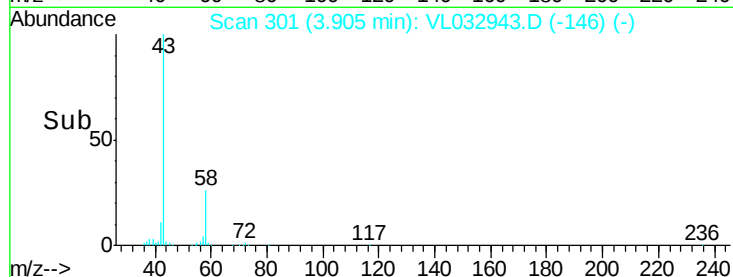
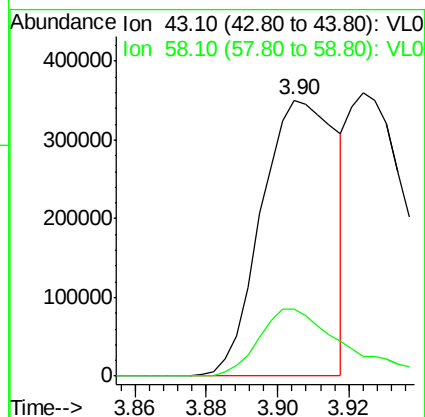
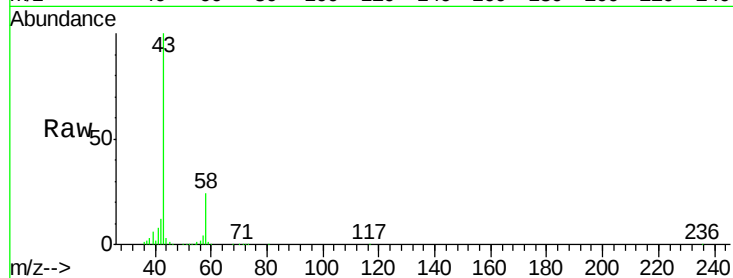
58 28.3 20.6 30.8

Manual Integrations

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#19

Isopropyl Alcohol

Concen: 1.837 ppbv

RT: 4.03 min Scan# 340

Delta R.T. 0.00 min

Lab File: VL032943.D

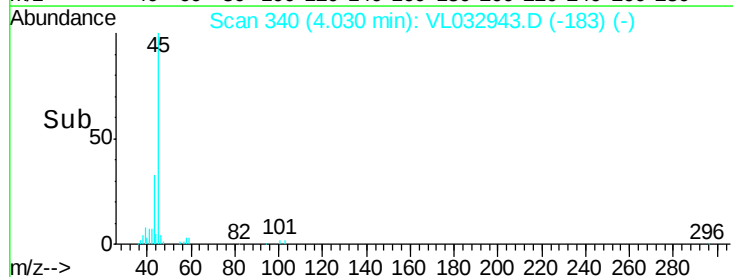
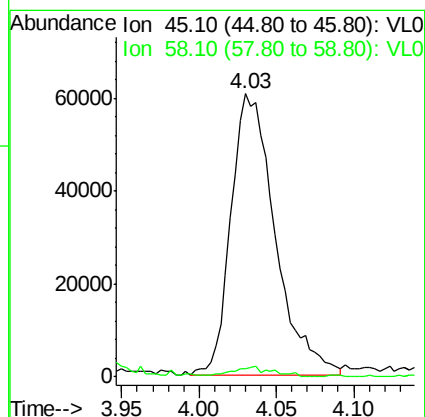
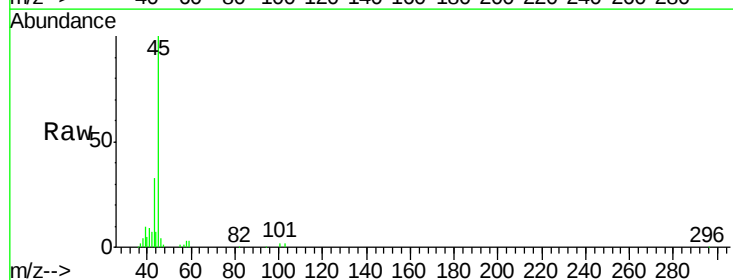
Acq: 7 Dec 2018 20:32

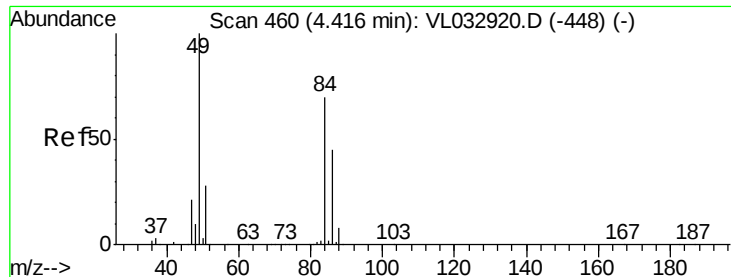
Tgt Ion: 45 Resp: 119756

Ion Ratio Lower Upper

45 100

58 4.2 1.4 2.2#





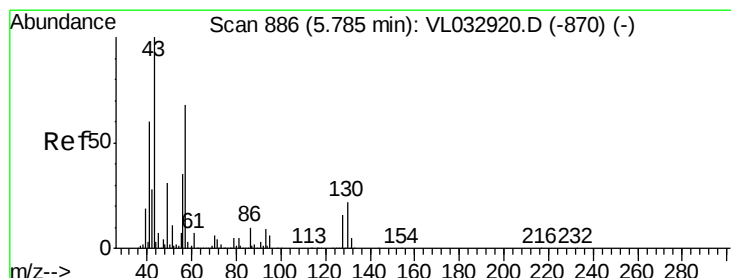
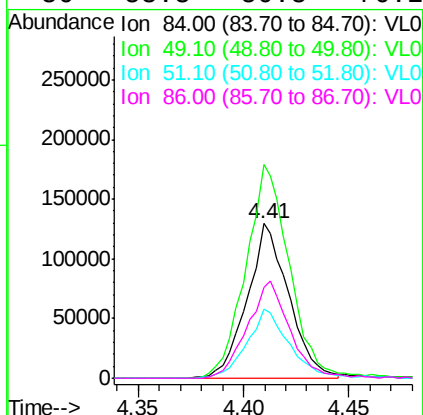
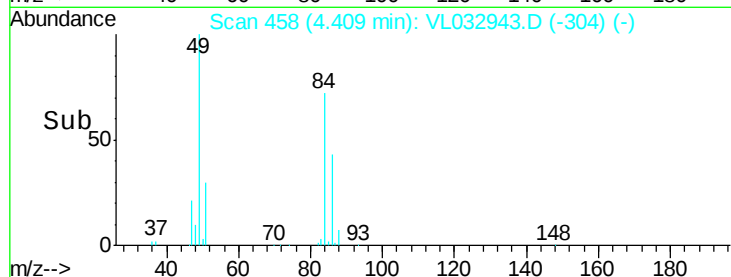
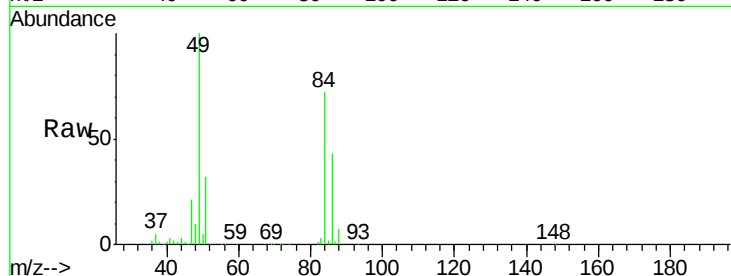
#20
Methylene Chloride
Concen: 3.497 ppbv
RT: 4.41 min Scan# 458
Delta R.T. -0.01 min
Lab File: VL032943.D
Acq: 7 Dec 2018 20:32

Instrument :
MSVOA_L
ClientSampleId :
OA1

Tgt Ion:	84	Resp:	177460
Ion	Ratio	Lower	Upper
84	100		
49	138.3	113.8	170.8
51	44.3	31.8	47.8
86	58.8	50.8	76.2

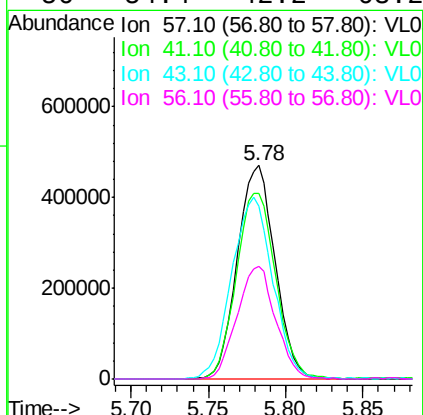
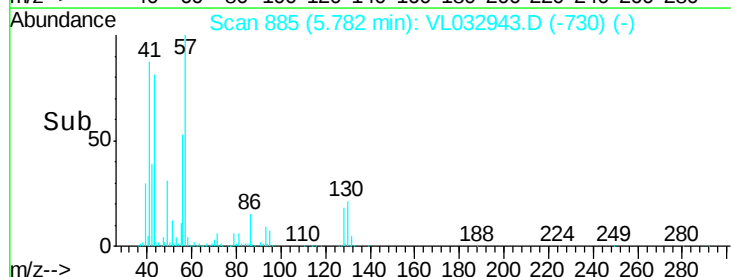
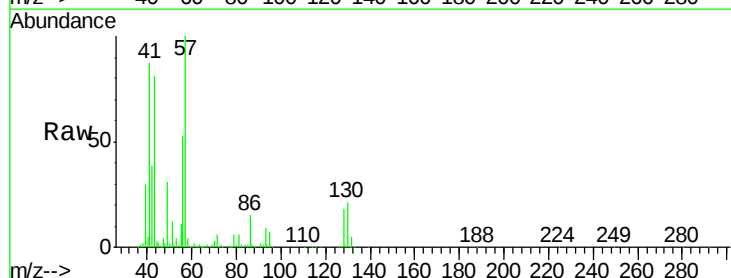
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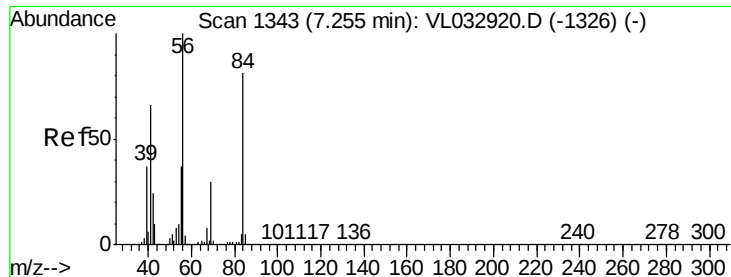
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#26
Hexane
Concen: 7.026 ppbv
RT: 5.78 min Scan# 885
Delta R.T. -0.00 min
Lab File: VL032943.D
Acq: 7 Dec 2018 20:32

Tgt Ion:	57	Resp:	795586
Ion	Ratio	Lower	Upper
57	100		
41	91.5	72.2	108.2
43	93.4	171.9	257.9#
56	54.4	42.2	63.2





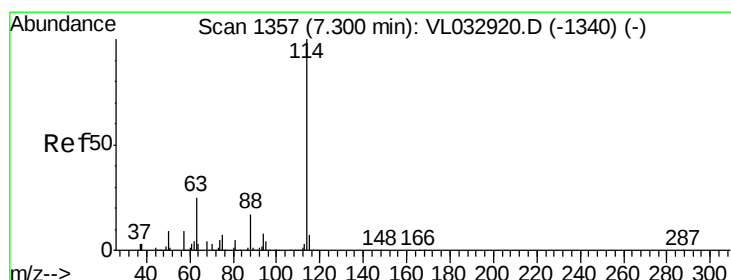
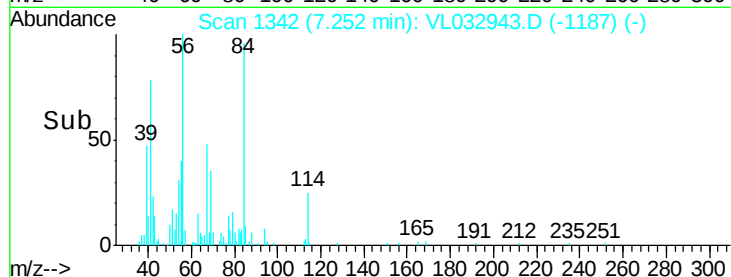
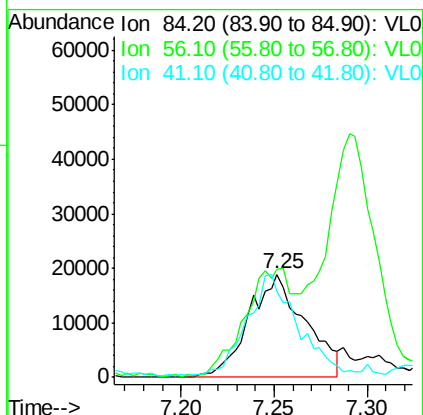
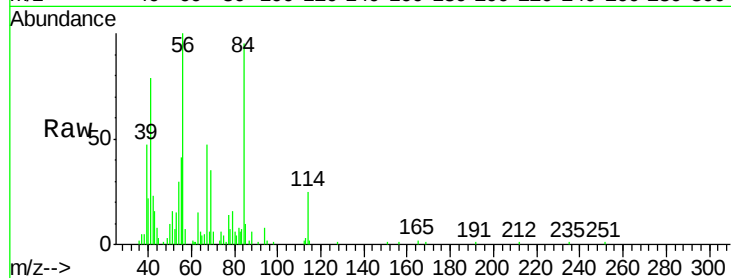
#30
Cyclohexane
Concen: 0.422 ppbv m
RT: 7.25 min Scan# 1342
Delta R.T. -0.00 min
Lab File: VL032943.D
Acq: 7 Dec 2018 20:32

Instrument :
MSVOA_L
ClientSampled :
OA1

Tgt Ion	Ratio	Lower	Upper
84	100		
56	0.0	102.5	153.7#
41	92.0	64.1	96.1

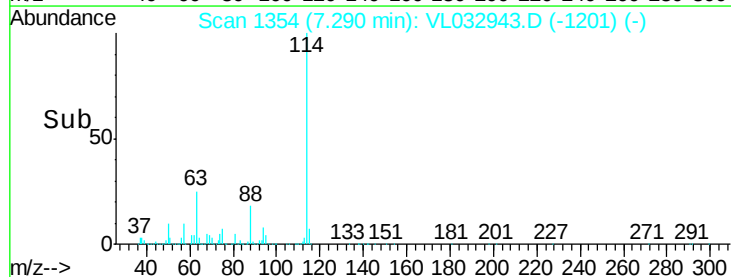
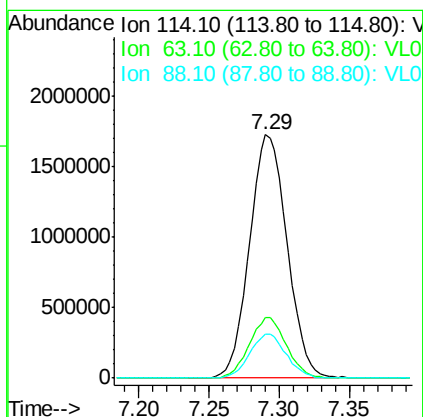
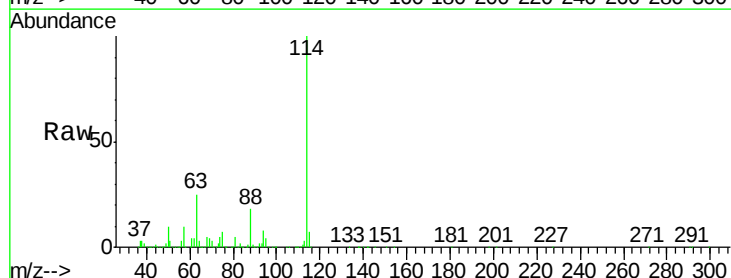
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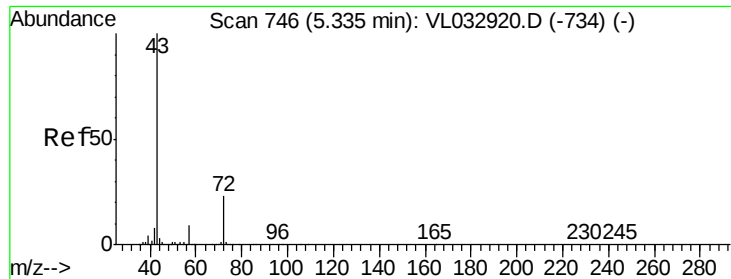
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#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.29 min Scan# 1354
Delta R.T. -0.01 min
Lab File: VL032943.D
Acq: 7 Dec 2018 20:32

Tgt Ion	Ratio	Lower	Upper
114	100		
63	24.6	20.1	30.1
88	17.7	14.2	21.4





#34

2-Butanone

Concen: 0.685 ppbv

RT: 5.34 min Scan# 747

Delta R.T. 0.00 min

Lab File: VL032943.D

Acq: 7 Dec 2018 20:32

Instrument :

MSVOA_L

ClientSampleId :

QA1

Tgt Ion: 43 Resp: 95992

Ion Ratio Lower Upper

43 100

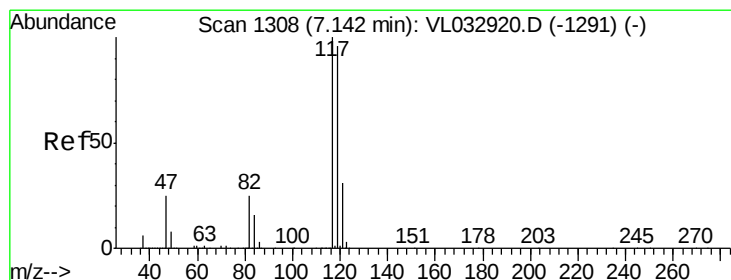
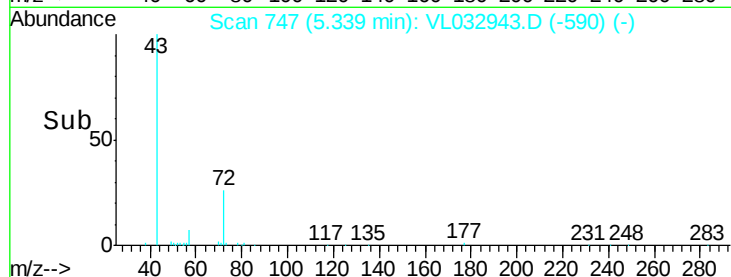
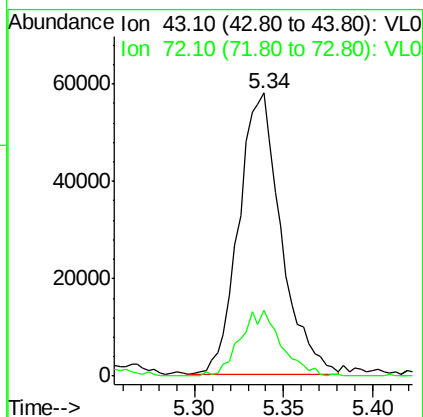
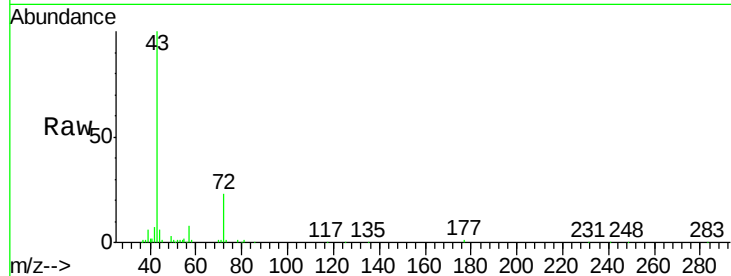
72 22.7 18.8 28.2

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#35

Carbon Tetrachloride

Concen: 0.067 ppbv m

RT: 7.14 min Scan# 1307

Delta R.T. -0.00 min

Lab File: VL032943.D

Acq: 7 Dec 2018 20:32

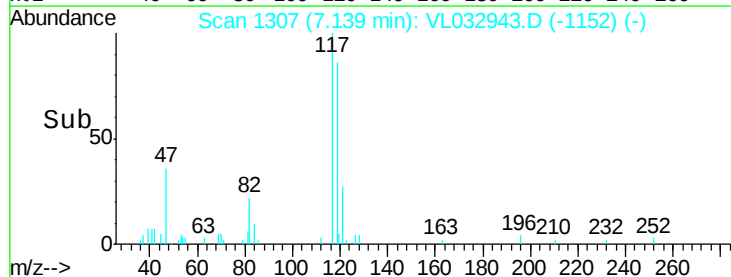
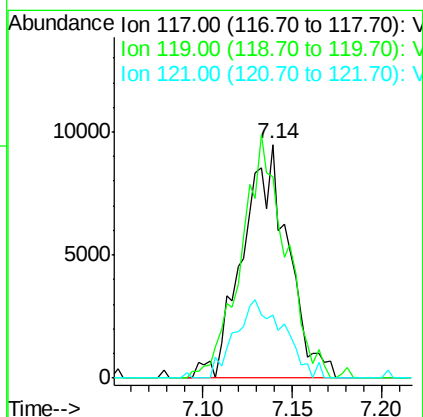
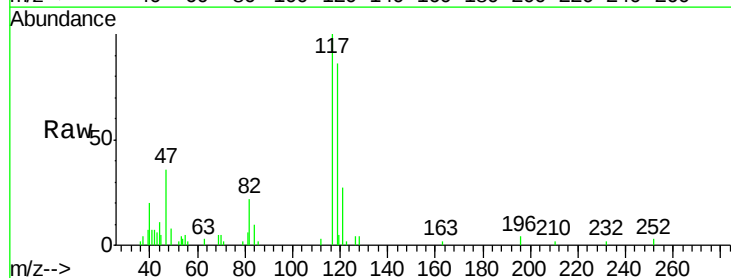
Tgt Ion: 117 Resp: 16897

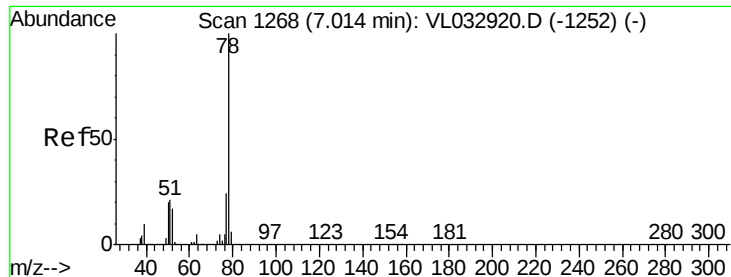
Ion Ratio Lower Upper

117 100

119 86.2 76.5 114.7

121 27.2 24.5 36.7





#36

Benzene

Concen: 0.405 ppbv

RT: 7.01 min Scan# 1266

Delta R.T. -0.01 min

Lab File: VL032943.D

Acq: 7 Dec 2018 20:32

Instrument :

MSVOA_L

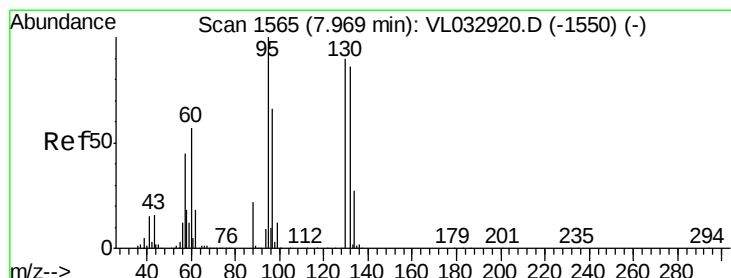
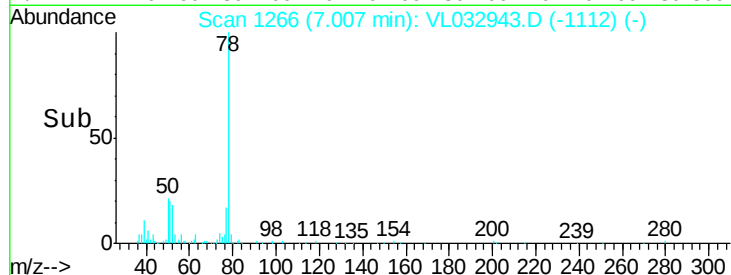
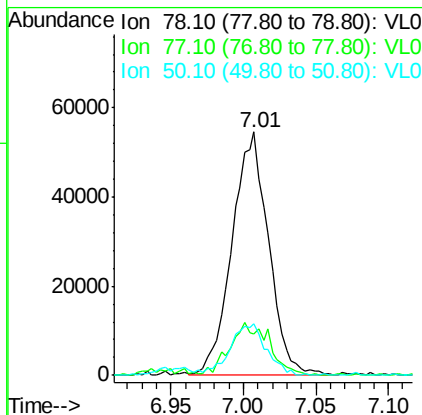
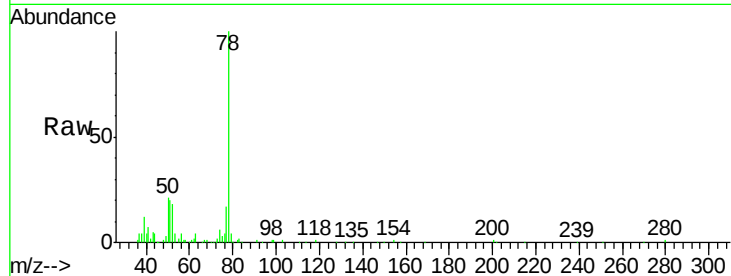
ClientSampleId :

QA1

Tgt Ion:	78	Resp:	95714
Ion Ratio	Lower	Upper	
78	100		
77	16.4	18.9	28.3#
50	20.6	16.1	24.1

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#38

Trichloroethene

Concen: 0.081 ppbv m

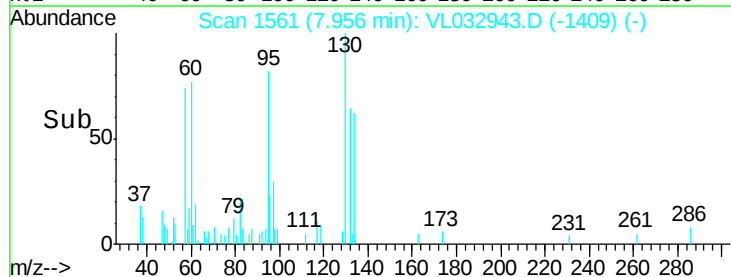
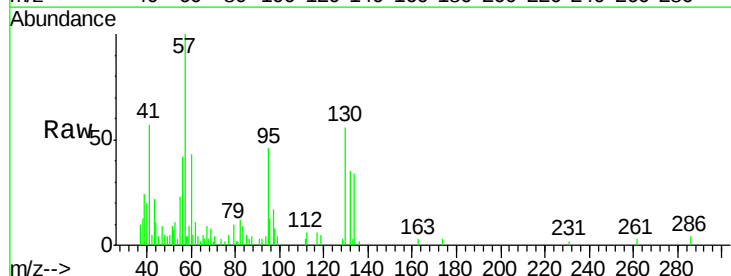
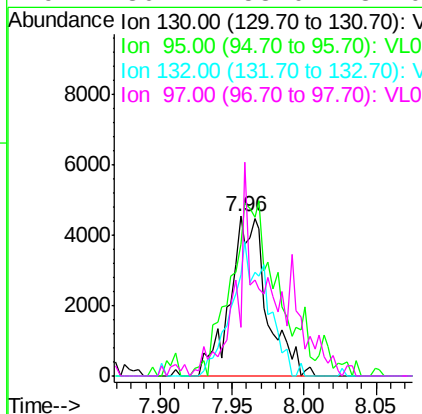
RT: 7.96 min Scan# 1561

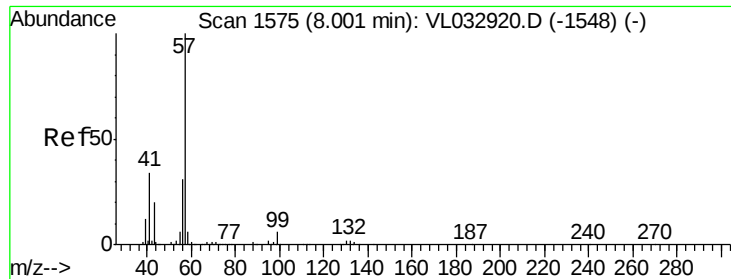
Delta R.T. -0.01 min

Lab File: VL032943.D

Acq: 7 Dec 2018 20:32

Tgt Ion:	130	Resp:	7994
Ion Ratio	Lower	Upper	
130	100		
95	82.3	88.6	132.8#
132	63.5	76.1	114.1#
97	30.4	58.0	87.0#





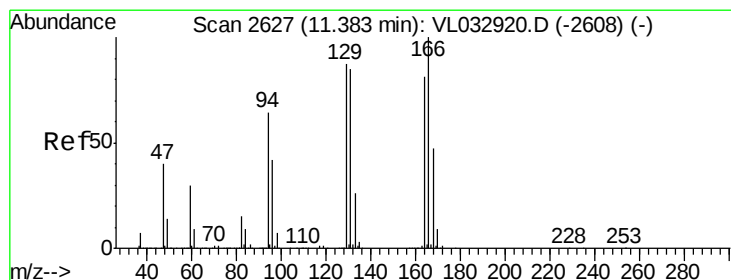
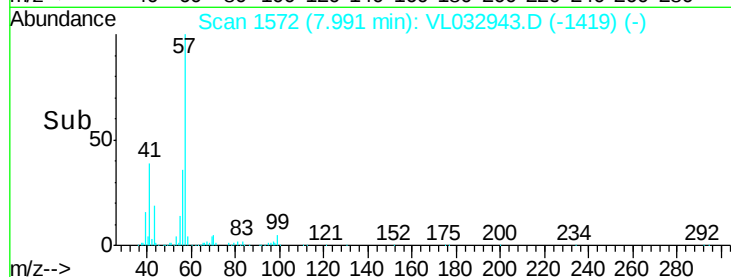
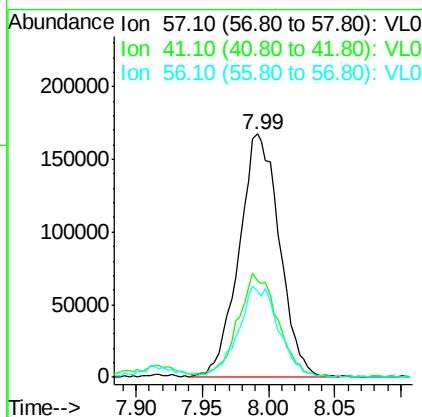
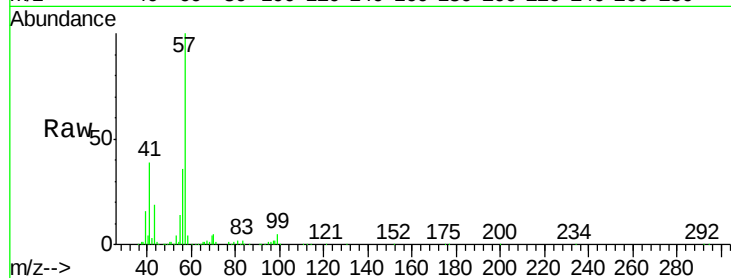
#44
 2,2,4-Trimethylpentane
 Concen: 0.882 ppbv
 RT: 7.99 min Scan# 1572
 Delta R.T. -0.01 min
 Lab File: VL032943.D
 Acq: 7 Dec 2018 20:32

Instrument :
 MSVOA_L
 ClientSampleId :
 OA1

Tgt Ion	Ratio	Lower	Upper
57	100		
41	41.6	27.0	40.4#
56	37.2	24.6	37.0#

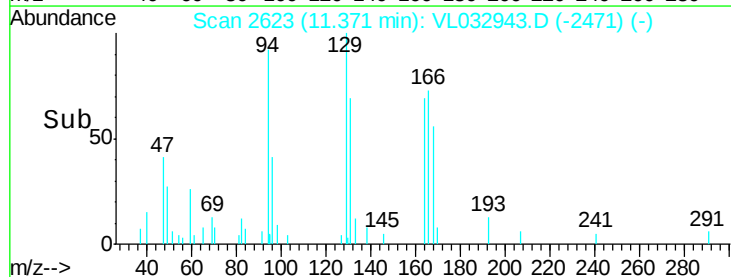
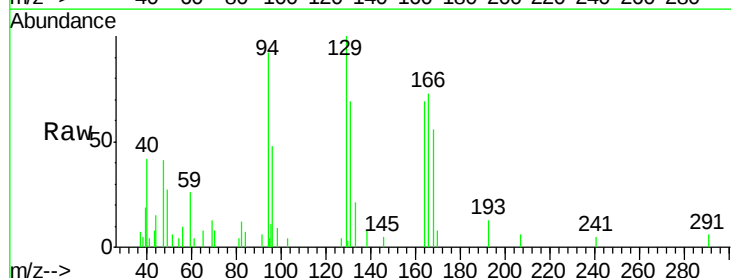
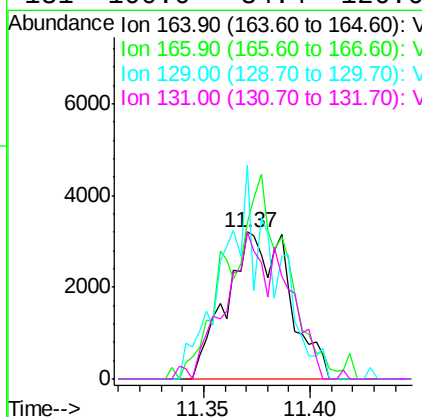
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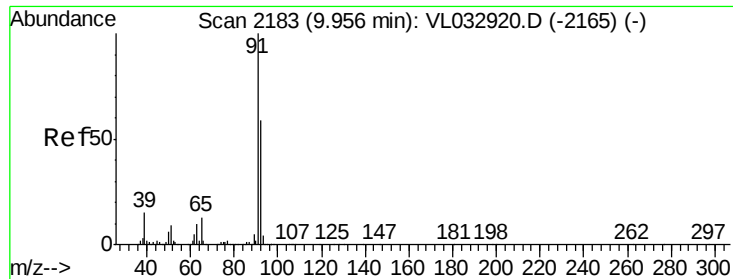
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#52
 Tetrachloroethene
 Concen: 0.076 ppbv m
 RT: 11.37 min Scan# 2623
 Delta R.T. -0.01 min
 Lab File: VL032943.D
 Acq: 7 Dec 2018 20:32

Tgt Ion	Ratio	Lower	Upper
164	100		
166	106.1	98.8	148.2
129	145.2	85.5	128.3#
131	100.0	84.4	126.6





#53

Toluene

Concen: 11.483 ppbv

RT: 9.95 min Scan# 2180

Delta R.T. -0.01 min

Lab File: VL032943.D

Acq: 7 Dec 2018 20:32

Instrument :

MSVOA_L

ClientSampled :

QA1

Tgt Ion: 91 Resp: 2880270

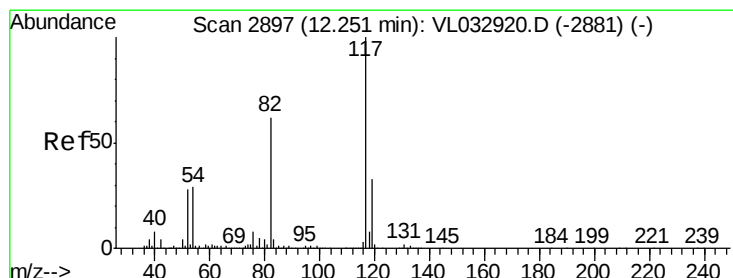
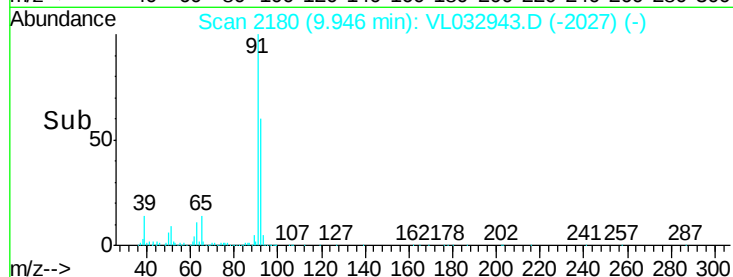
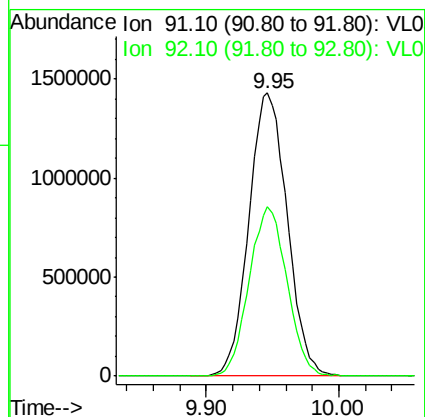
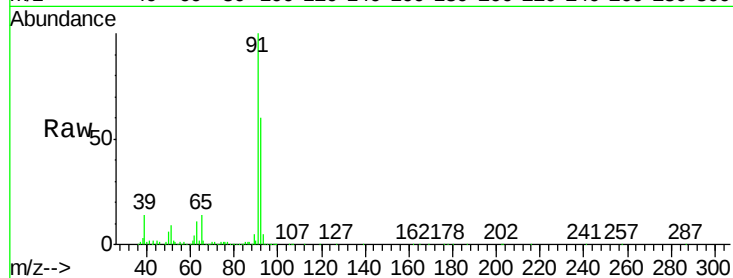
Ion Ratio Lower Upper

91 100

92 59.4 47.4 71.0

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#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.24 min Scan# 2893

Delta R.T. -0.01 min

Lab File: VL032943.D

Acq: 7 Dec 2018 20:32

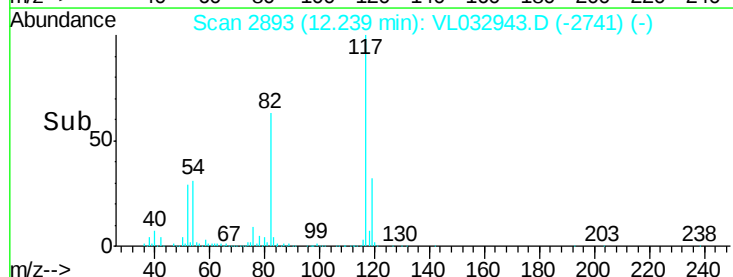
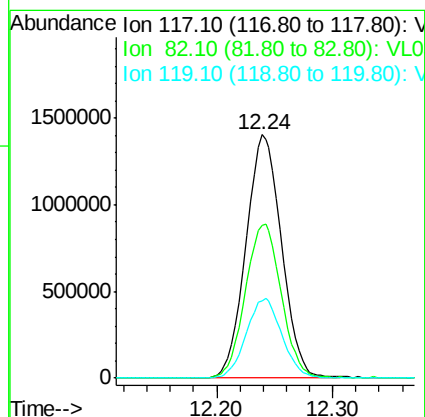
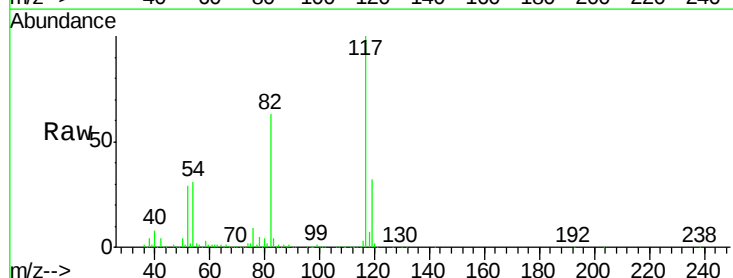
Tgt Ion: 117 Resp: 2998826

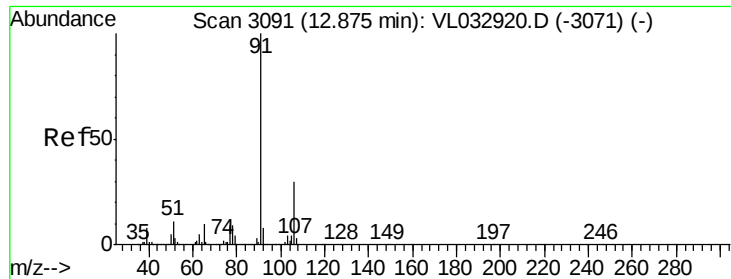
Ion Ratio Lower Upper

117 100

82 63.9 47.8 71.8

119 32.6 43.1 64.7#





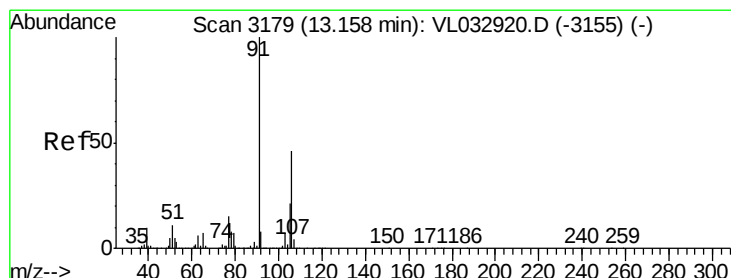
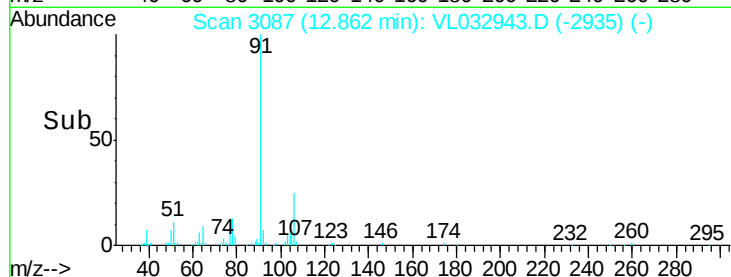
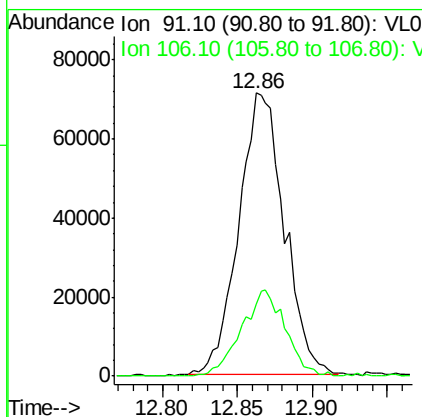
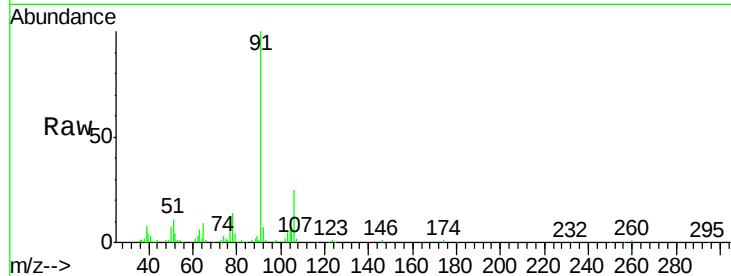
#58
Ethyl Benzene
Concen: 0.471 ppbv
RT: 12.86 min Scan# 3087
Delta R.T. -0.01 min
Lab File: VL032943.D
Acq: 7 Dec 2018 20:32

Instrument :
MSVOA_L
ClientSampleId :
QA1

Tgt Ion: 91 Resp: 150692
Ion Ratio Lower Upper
91 100
106 25.4 23.9 35.9

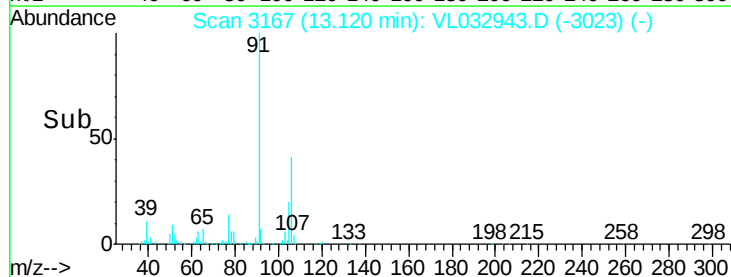
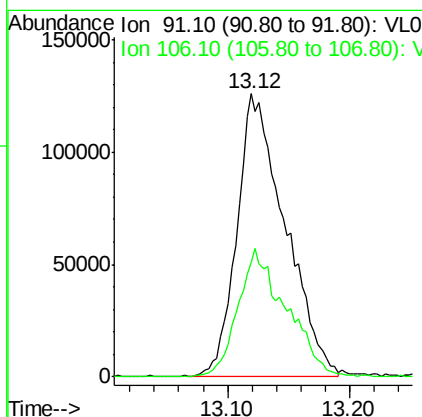
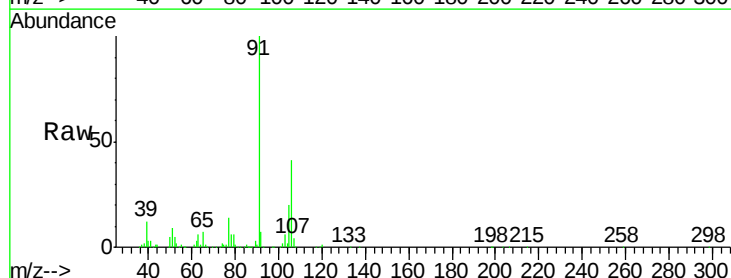
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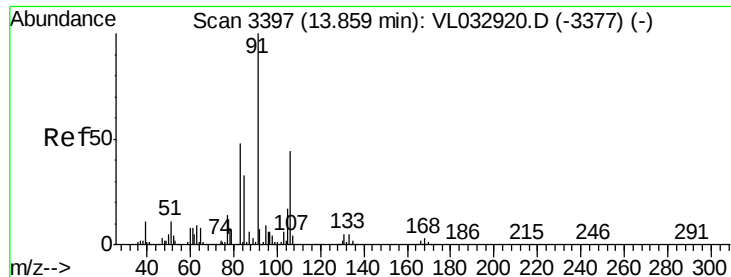
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#59
m/p-Xylene
Concen: 1.177 ppbv
RT: 13.12 min Scan# 3167
Delta R.T. -0.04 min
Lab File: VL032943.D
Acq: 7 Dec 2018 20:32

Tgt Ion: 91 Resp: 341324
Ion Ratio Lower Upper
91 100
106 45.8 0.0 0.0#





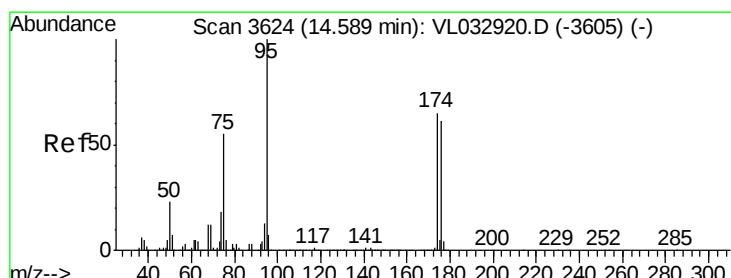
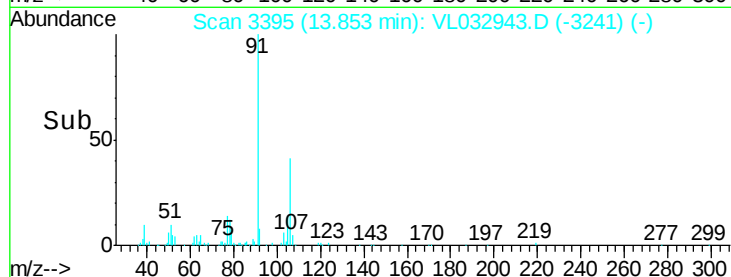
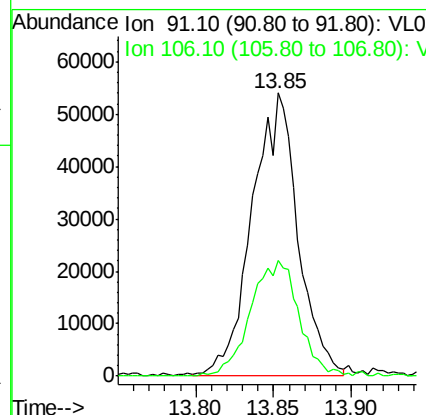
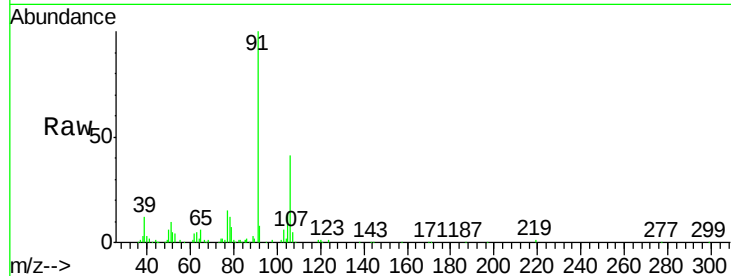
#60
o-Xylene
Concen: 0.378 ppbv m
RT: 13.85 min Scan# 3395
Delta R.T. -0.01 min
Lab File: VL032943.D
Acq: 7 Dec 2018 20:32

Instrument :
MSVOA_L
ClientSampled :
OA1

Tgt Ion: 91 Resp: 110658
Ion Ratio Lower Upper
91 100
106 0.0 21.9 65.8#

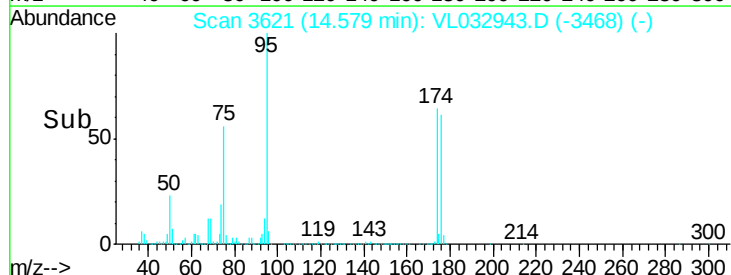
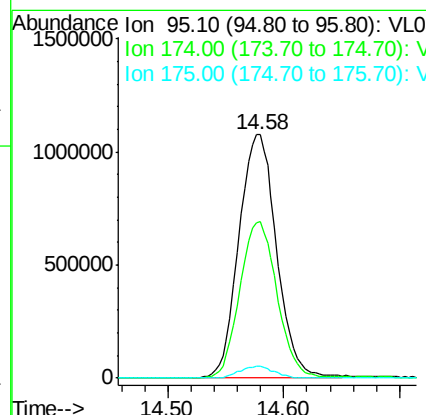
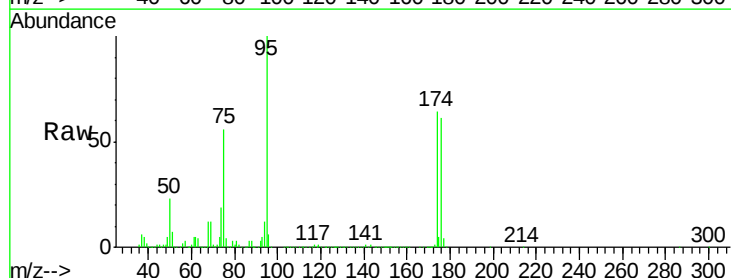
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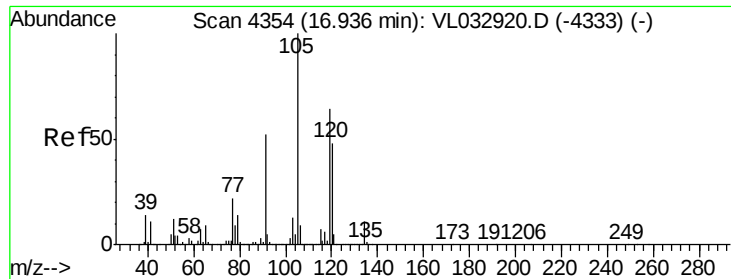
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#68
1-Bromo-4-Fluorobenzene
Concen: 10.960 ppbv
RT: 14.58 min Scan# 3621
Delta R.T. -0.01 min
Lab File: VL032943.D
Acq: 7 Dec 2018 20:32

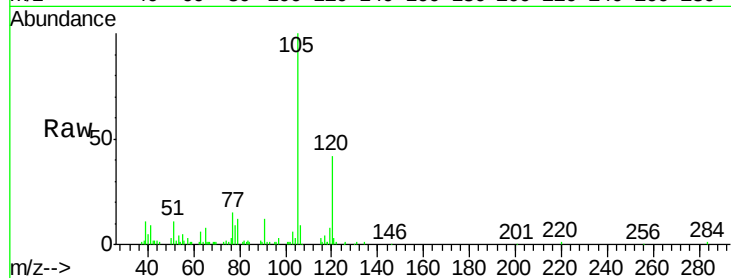
Tgt Ion: 95 Resp: 2428080
Ion Ratio Lower Upper
95 100
174 64.5 51.4 77.0
175 4.6 3.8 5.6





#74
 1,2,4-Trimethylbenzene
 Concen: 0.256 ppbv
 RT: 16.92 min Scan# 4350
 Delta R.T. -0.01 min
 Lab File: VL032943.D
 Acq: 7 Dec 2018 20:32

Instrument :
 MSVOA_L
 ClientSampleId :
 OA1



Tgt Ion	Ratio	Resp Lower	Resp Upper
105	100		
120	42.2	38.6	58.0
91	12.3	41.7	62.5#
77	15.3	17.4	26.2#

Manual Integrations
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