

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL121318\
 Data File : VL032994.D
 Acq On : 14 Dec 2018 9:39
 Operator : SY/AP
 Sample : J6382-01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 P00131-SG001-181212-01

Manual Integrations
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MMDadoda
 12/14/2018 11:19:20 AM

Quant Time: Dec 14 10:22:40 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	1007701	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2315945	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2410726	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	1953851	10.97	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	109.70%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.08	85	77526	0.576	ppbv	97
3) Chlorodifluoromethane	3.02	51	20806m	0.273	ppbv	
4) Chloromethane	3.17	50	33006	0.743	ppbv	99
9) Propene	3.05	41	42055	1.394	ppbv #	76
10) Heptane	8.25	43	12261m	0.108	ppbv	
11) Trichlorofluoromethane	4.01	101	46586	0.368	ppbv	89
13) Ethanol	3.65	45	148984	14.339	ppbv	98
15) Acetone	3.90	43	1188824	13.745	ppbv	99
17) tert-Butyl alcohol	4.38	59	13650	0.620	ppbv #	59
19) Isopropyl Alcohol	4.05	45	48521m	0.893	ppbv	
20) Methylene Chloride	4.41	84	97196	2.299	ppbv	95
26) Hexane	5.78	57	172033m	1.824	ppbv	
34) 2-Butanone	5.34	43	87360	0.866	ppbv	98
35) Carbon Tetrachloride	7.13	117	13577m	0.075	ppbv	
36) Benzene	7.01	78	64976m	0.381	ppbv	
41) Tetrahydrofuran	6.17	42	49844	0.794	ppbv	97
44) 2,2,4-Trimethylpentane	8.00	57	32434m	0.112	ppbv	
53) Toluene	9.95	91	1158856	6.415	ppbv	100
58) Ethyl Benzene	12.87	91	88569m	0.344	ppbv	
59) m/p-Xylene	13.13	91	366511	1.572	ppbv #	100
60) o-Xylene	13.85	91	81449	0.346	ppbv	96
74) 1,2,4-Trimethylbenzene	16.93	105	53660	0.185	ppbv #	73

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

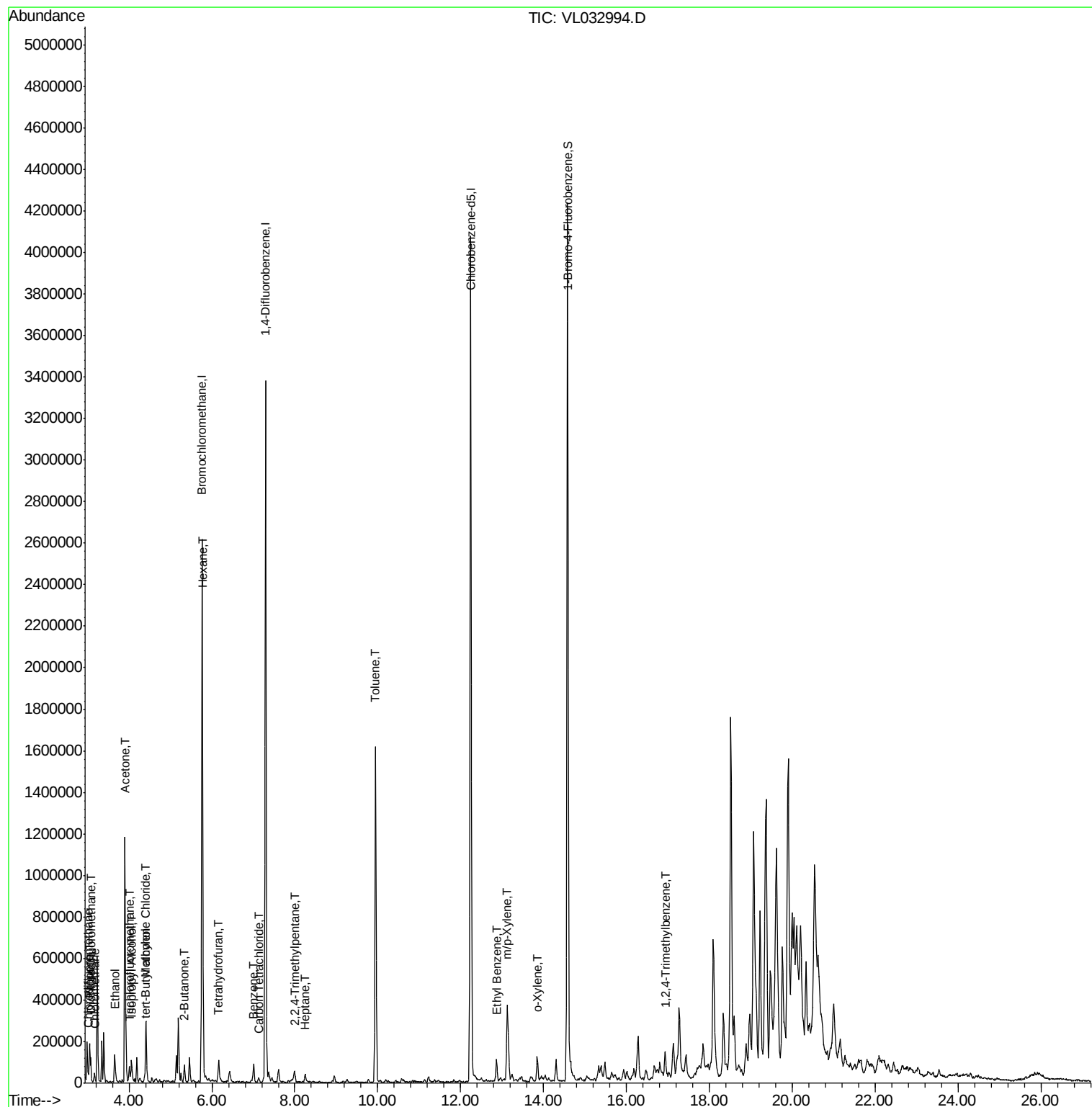
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL121318\
Data File : VL032994.D
Acq On : 14 Dec 2018 9:39
Operator : SY/AP
Sample : J6382-01
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

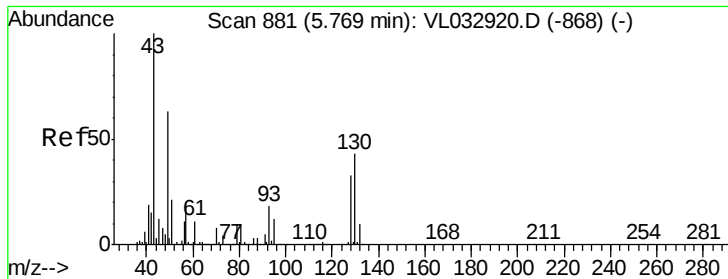
Instrument :
MSVOA_L
ClientSampleId :
P00131-SG001-181212-01

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Quant Time: Dec 14 10:22:40 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: VL032994.D

Acq: 14 Dec 2018 9:39

Instrument :

MSVOA_L

ClientSampleId :

P00131-SG001-181212-01

Tot Ion: 49 Resp: 1007701

Ion Ratio Lower Upper

49 100

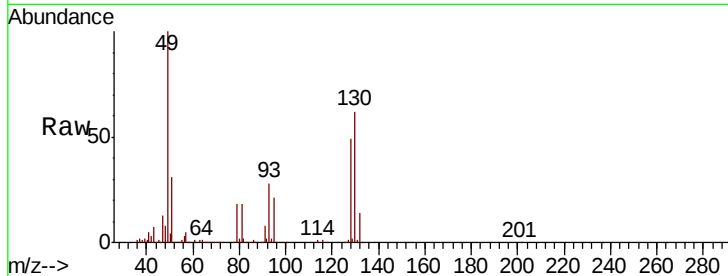
128 51.5 26.3 78.8

130 65.6 33.9 101.7

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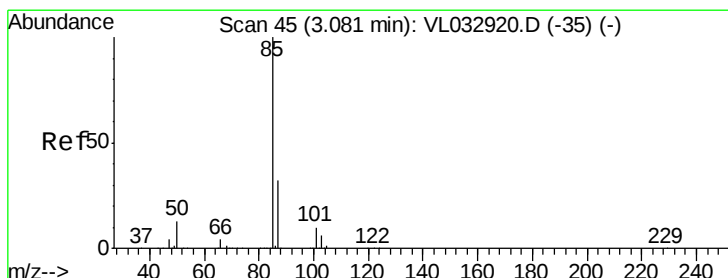
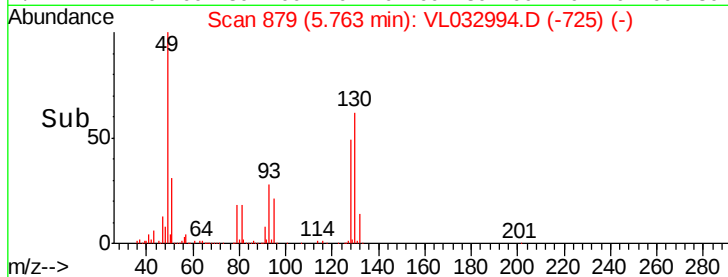
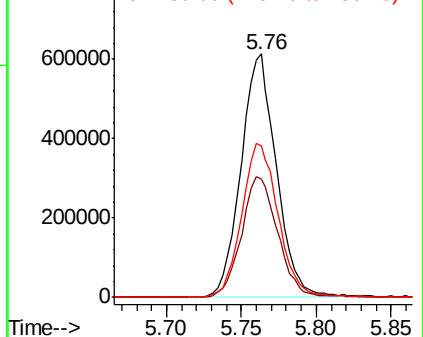
12/14/2018 11:19:20 AM



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: 0.576 ppbv

RT: 3.08 min Scan# 44

Delta R.T. -0.00 min

Lab File: VL032994.D

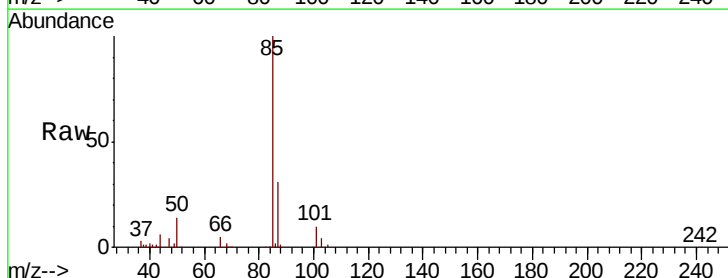
Acq: 14 Dec 2018 9:39

Tgt Ion: 85 Resp: 77526

Ion Ratio Lower Upper

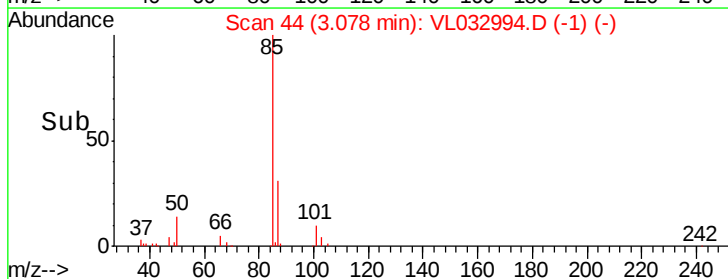
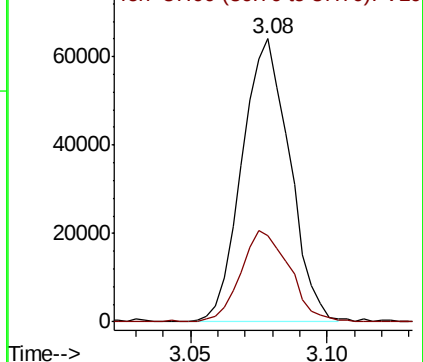
85 100

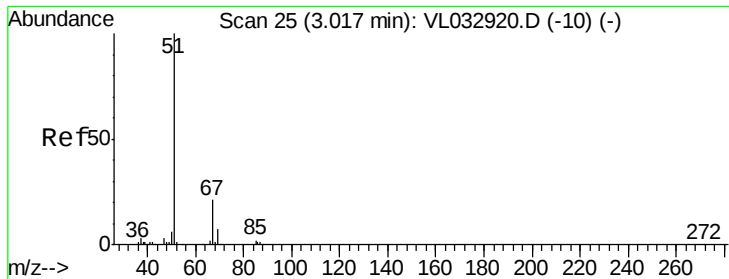
87 30.6 25.7 38.5



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.273 ppbv

RT: 3.02 min Scan# 25

Delta R.T. 0.00 min

Lab File: VL032994.D

Acq: 14 Dec 2018 9:39

Instrument :

MSVOA_L

ClientSampleId :

P00131-SG001-181212-01

Tot Ion: 51 Resp: 20806

Ion Ratio Lower Upper

51 100

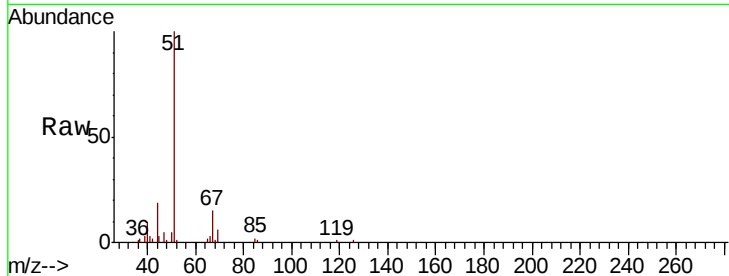
67 31.6 16.8 25.2#

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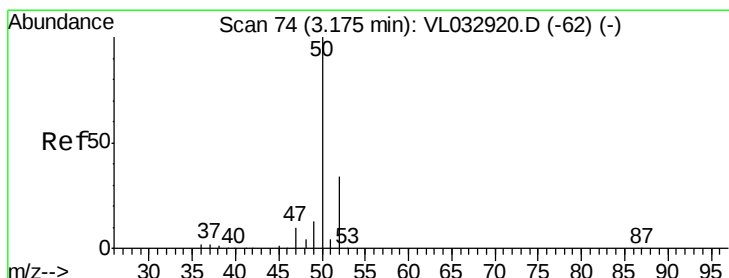
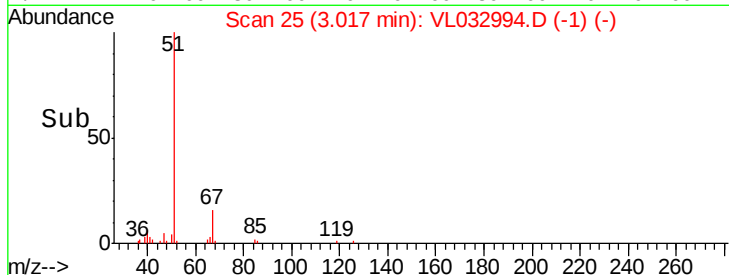
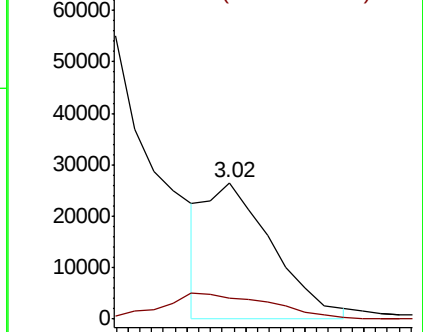
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.743 ppbv

RT: 3.17 min Scan# 74

Delta R.T. 0.00 min

Lab File: VL032994.D

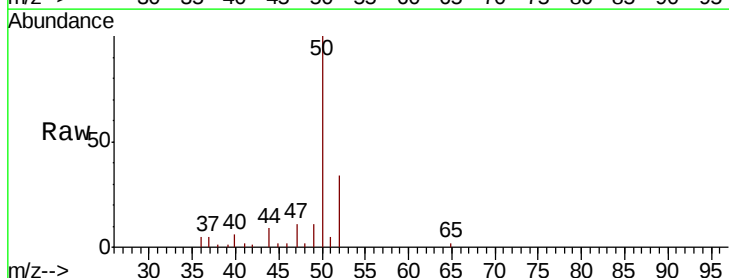
Acq: 14 Dec 2018 9:39

Tgt Ion: 50 Resp: 33006

Ion Ratio Lower Upper

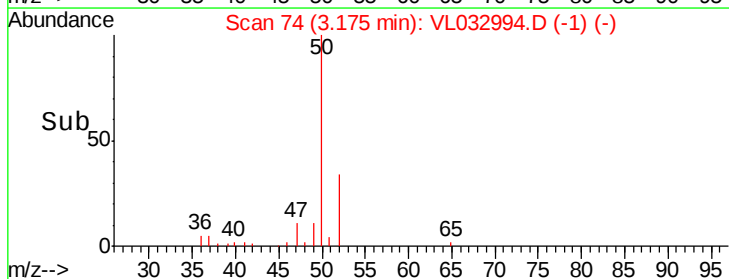
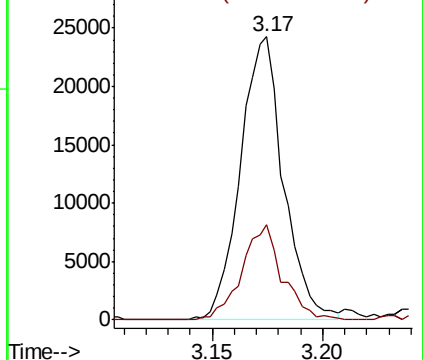
50 100

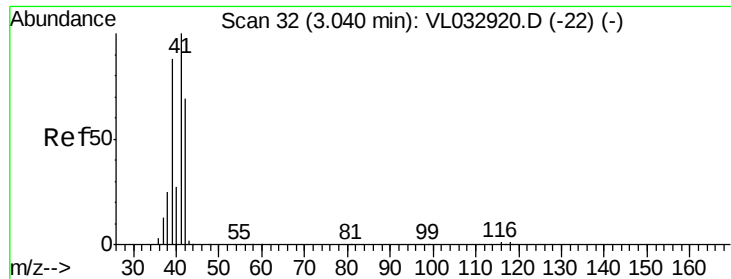
52 33.7 27.3 40.9



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





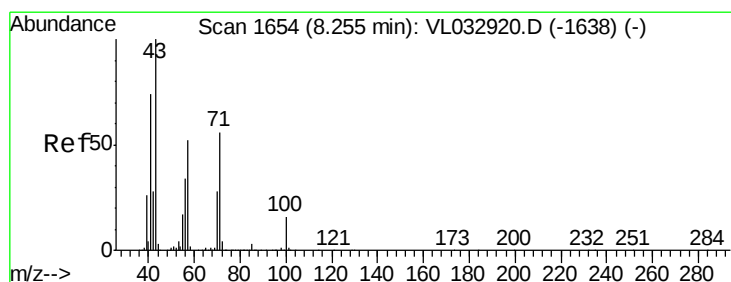
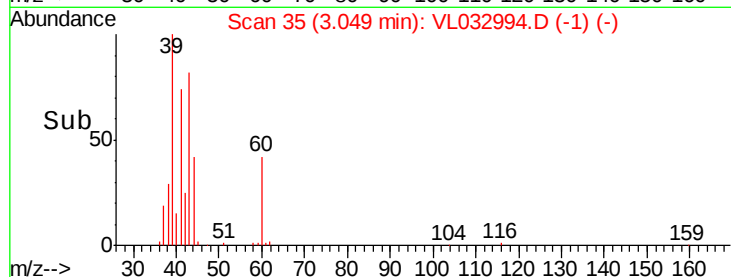
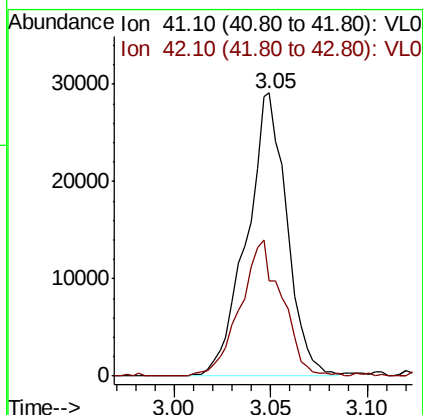
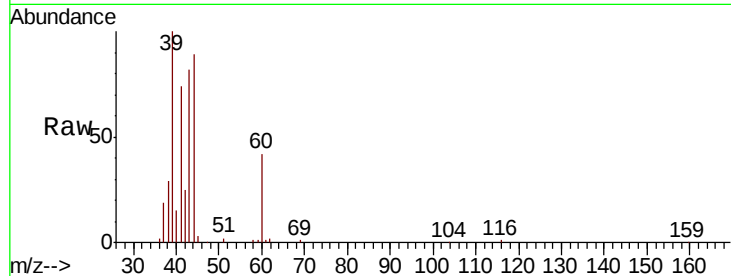
#9
Propene
 Concen: 1.394 ppbv
 RT: 3.05 min Scan# 35
 Delta R.T. 0.01 min
 Lab File: VL032994.D
 Acq: 14 Dec 2018 9:39

Instrument :
 MSVOA_L
 ClientSampleId :
 P00131-SG001-181212-01

Tot Ion: 41 Resp: 42055
 Ion Ratio Lower Upper
 41 100
 42 50.2 56.2 84.2#

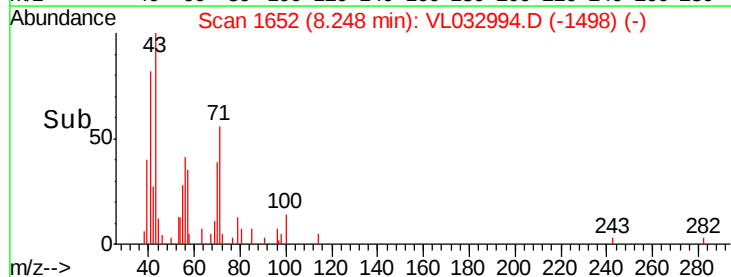
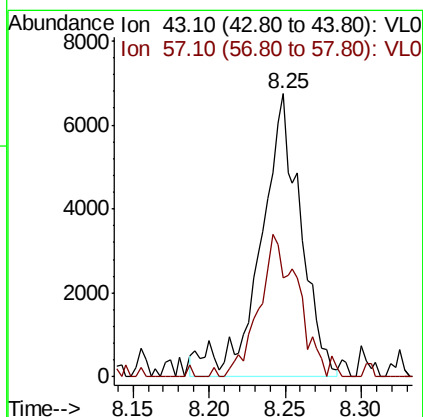
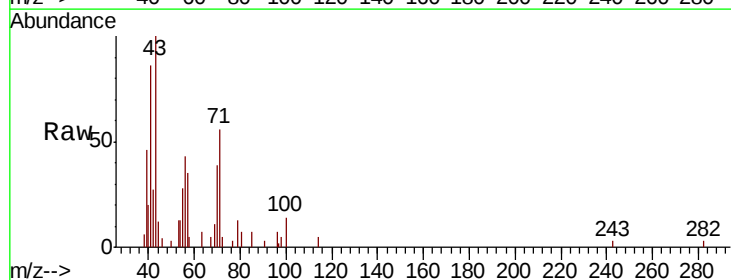
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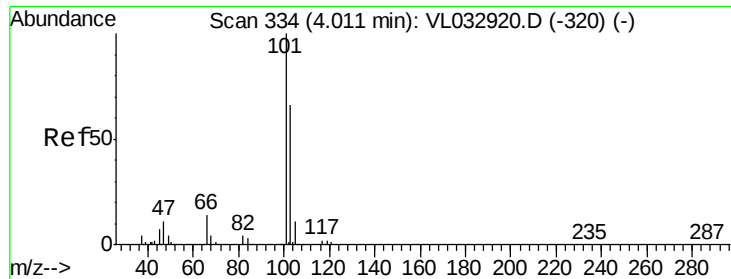
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#10
Heptane
 Concen: 0.108 ppbv m
 RT: 8.25 min Scan# 1652
 Delta R.T. -0.01 min
 Lab File: VL032994.D
 Acq: 14 Dec 2018 9:39

Tgt Ion: 43 Resp: 12261
 Ion Ratio Lower Upper
 43 100
 57 49.8 41.8 62.6





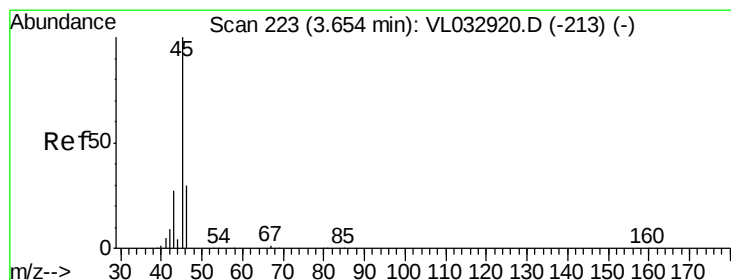
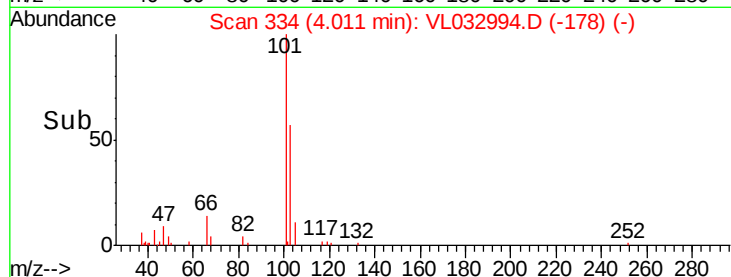
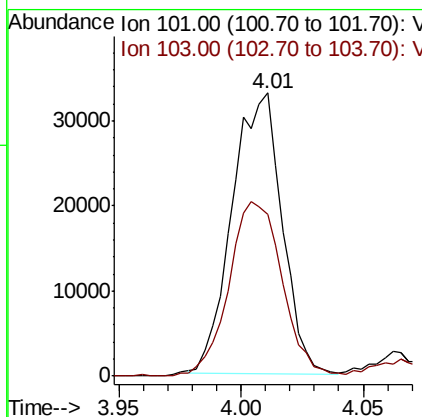
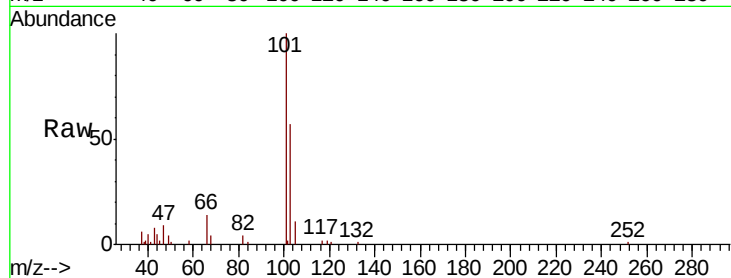
#11
Trichlorofluoromethane
Concen: 0.368 ppbv
RT: 4.01 min Scan# 334
Delta R.T. 0.00 min
Lab File: VL032994.D
Acq: 14 Dec 2018 9:39

Instrument :
MSVOA_L
ClientSampleId :
P00131-SG001-181212-01

Tot Ion:101 Resp: 46586
Ion Ratio Lower Upper
101 100
103 57.2 52.7 79.1

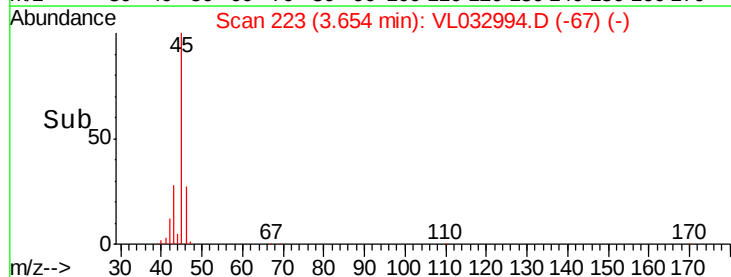
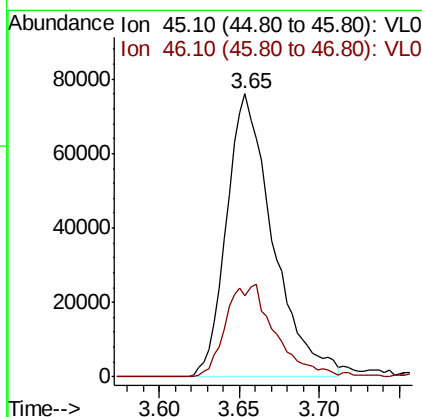
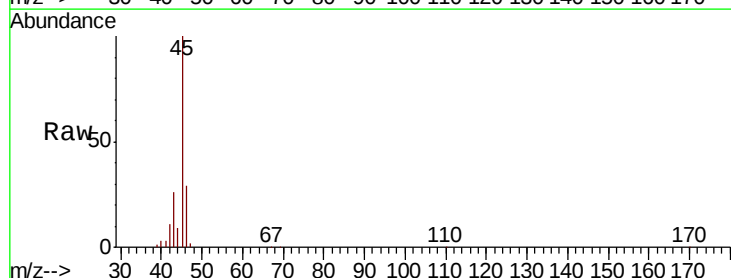
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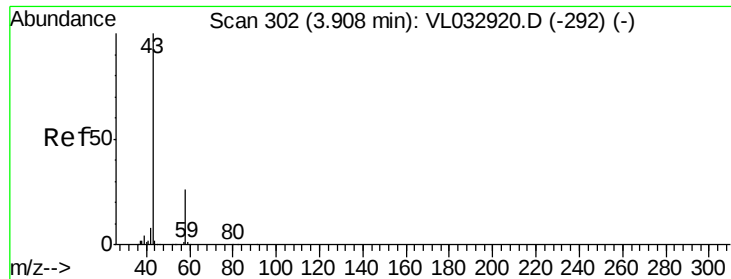
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#13
Ethanol
Concen: 14.339 ppbv
RT: 3.65 min Scan# 223
Delta R.T. 0.00 min
Lab File: VL032994.D
Acq: 14 Dec 2018 9:39

Tgt Ion: 45 Resp: 148984
Ion Ratio Lower Upper
45 100
46 35.6 13.8 55.4





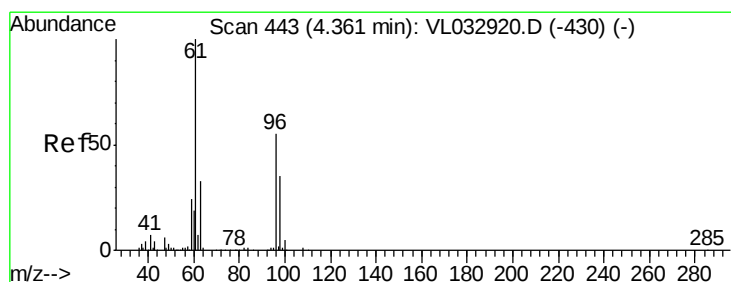
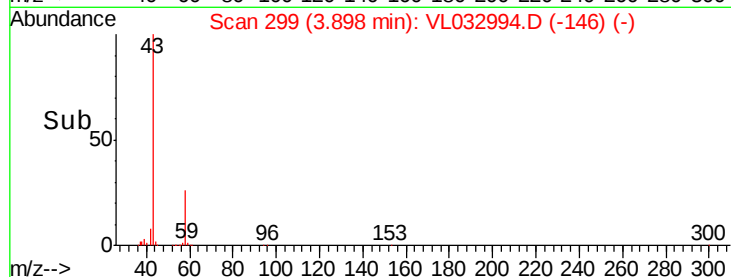
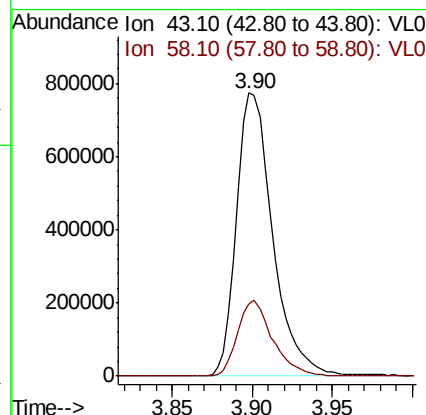
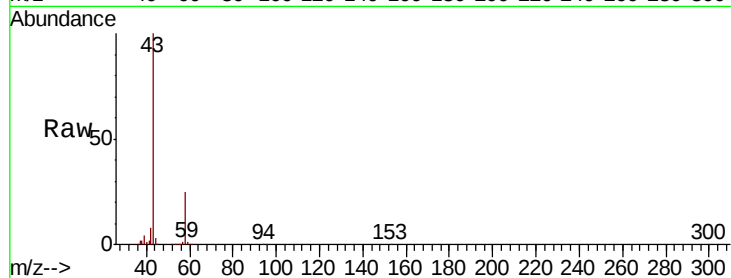
#15
Acetone
Concen: 13.745 ppbv
RT: 3.90 min Scan# 299
Delta R.T. -0.01 min
Lab File: VL032994.D
Acq: 14 Dec 2018 9:39

Instrument :
MSVOA_L
ClientSampleId :
P00131-SG001-181212-01

Tot Ion: 43 Resp: 1188824
Ion Ratio Lower Upper
43 100
58 26.3 20.6 30.8

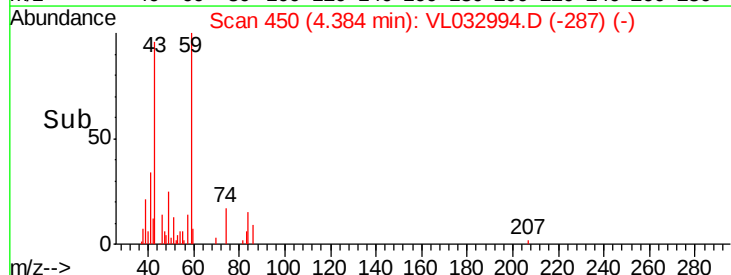
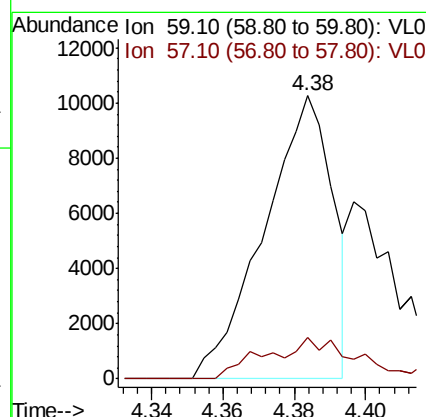
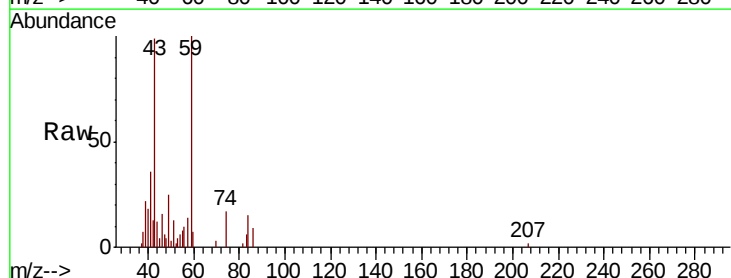
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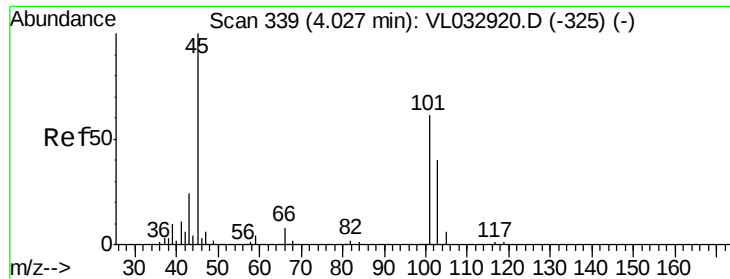
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#17
tert-Butyl alcohol
Concen: 0.620 ppbv
RT: 4.38 min Scan# 450
Delta R.T. 0.02 min
Lab File: VL032994.D
Acq: 14 Dec 2018 9:39

Tgt Ion: 59 Resp: 13650
Ion Ratio Lower Upper
59 100
57 20.8 0.6 1.0#





#19

Isopropyl Alcohol

Concen: 0.893 ppbv m

RT: 4.05 min Scan# 346

Delta R.T. 0.02 min

Lab File: VL032994.D

Acq: 14 Dec 2018 9:39

Instrument :

MSVOA_L

ClientSampleId :

P00131-SG001-181212-01

Tot Ion: 45 Resp: 48521

Ion Ratio Lower Upper

45 100

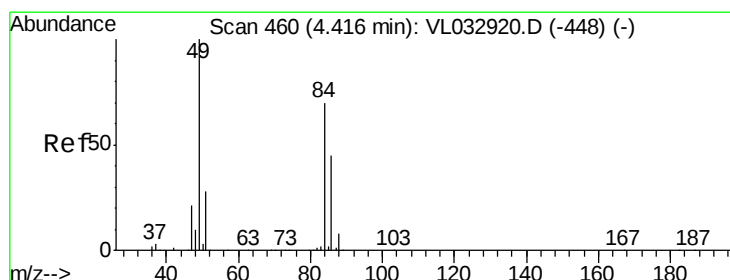
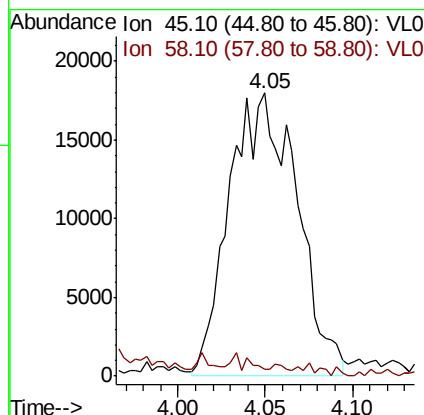
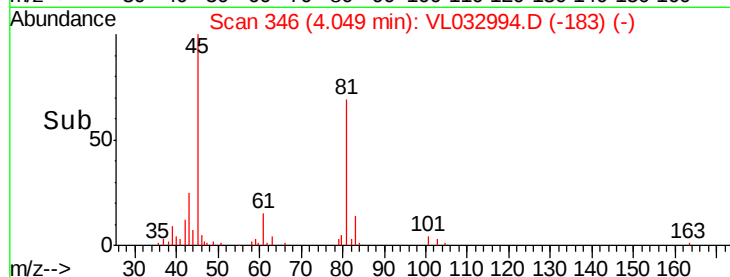
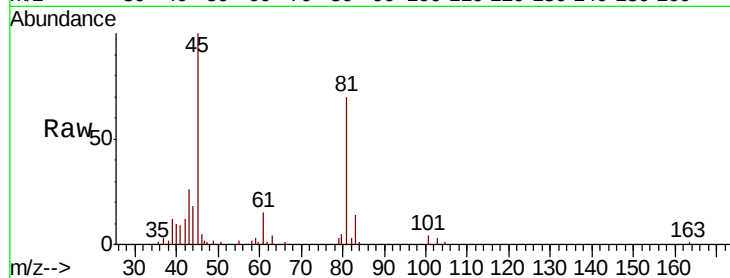
58 0.0 1.4 2.2#

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#20

Methylene Chloride

Concen: 2.299 ppbv

RT: 4.41 min Scan# 458

Delta R.T. -0.01 min

Lab File: VL032994.D

Acq: 14 Dec 2018 9:39

Tgt Ion: 84 Resp: 97196

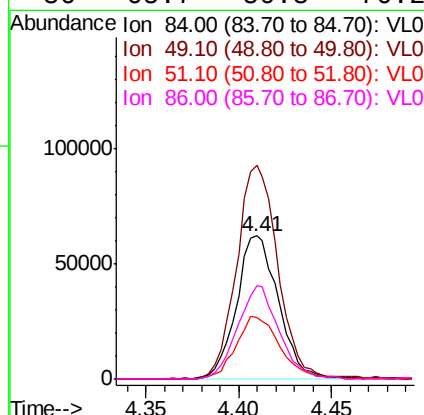
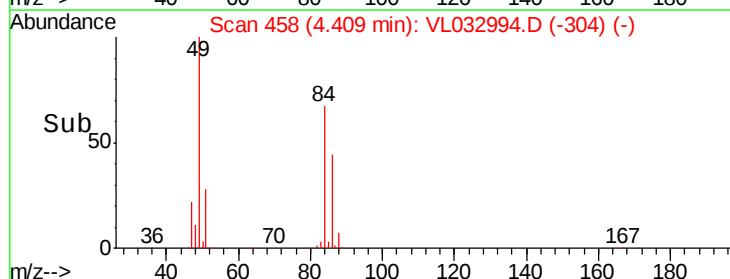
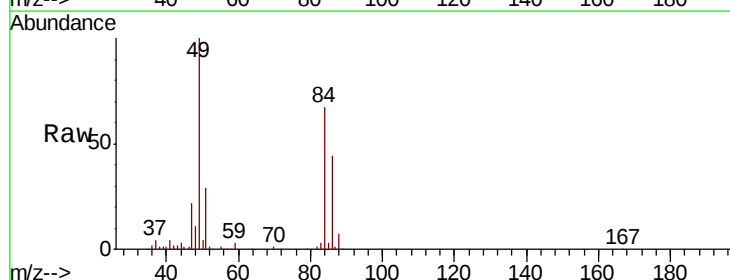
Ion Ratio Lower Upper

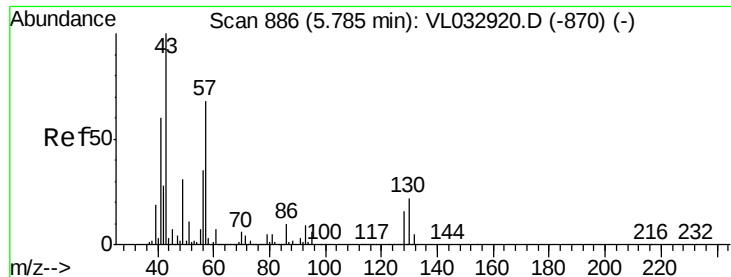
84 100

49 149.3 113.8 170.8

51 43.2 31.8 47.8

86 65.7 50.8 76.2





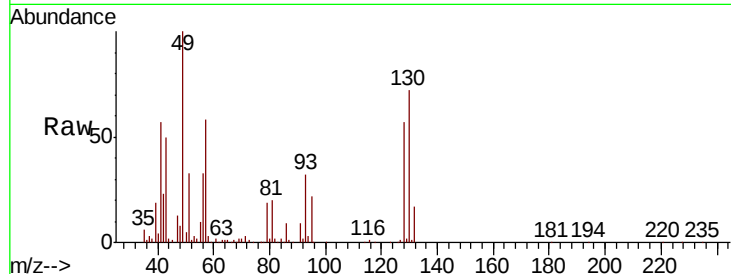
#26
Hexane
Concen: 1.824 ppbv m
RT: 5.78 min Scan# 884
Delta R.T. -0.01 min
Lab File: VL032994.D
Acq: 14 Dec 2018 9:39

Instrument :
MSVOA_L
ClientSampleId :
P00131-SG001-181212-01

Tot Ion	Ratio	Lower	Upper
57	100		
41	98.1	72.2	108.2
43	96.1	171.9	257.9#
56	56.8	42.2	63.2

Manual Integrations
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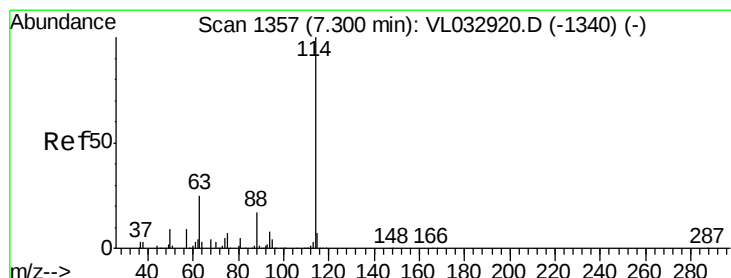
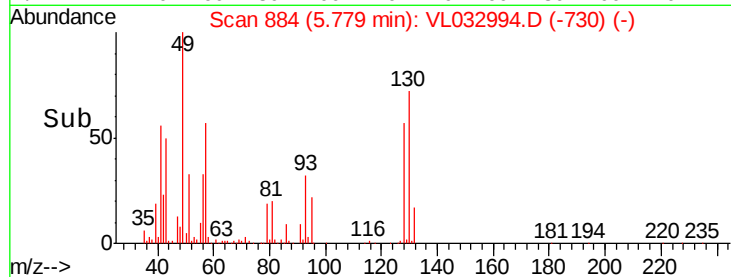
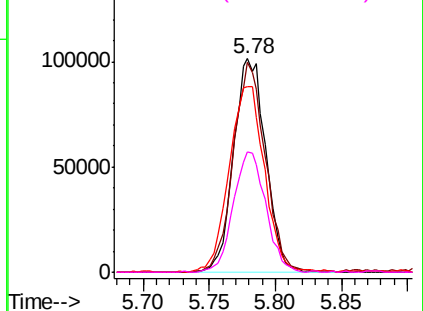
Abundance

Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.29 min Scan# 1355
Delta R.T. -0.01 min
Lab File: VL032994.D
Acq: 14 Dec 2018 9:39

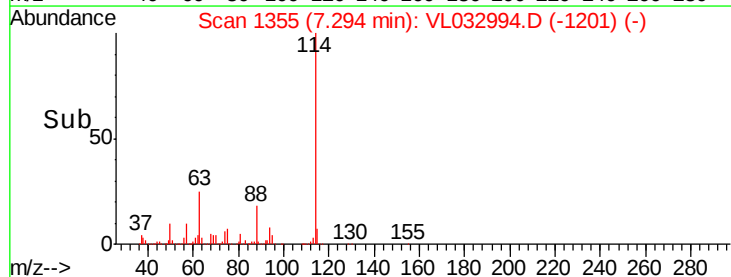
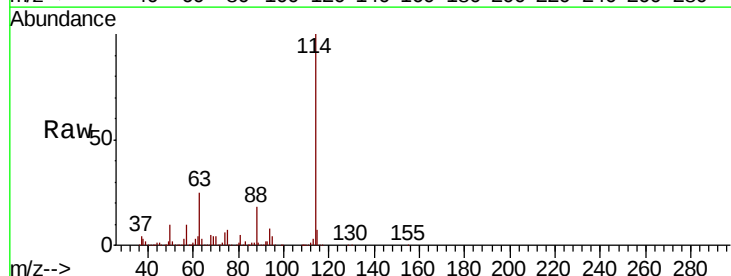
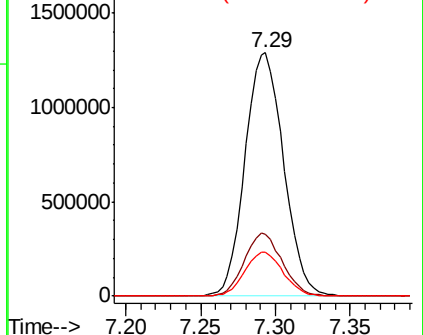
Tgt Ion	Ratio	Lower	Upper
114	100		
63	25.4	20.1	30.1
88	18.1	14.2	21.4

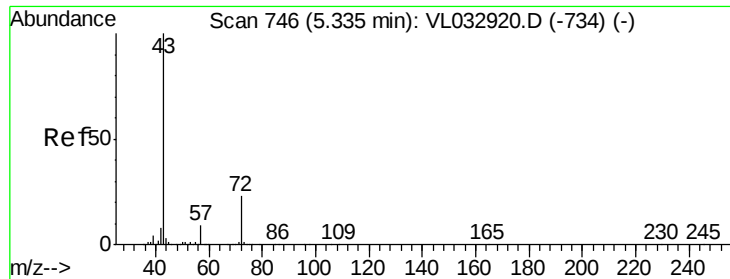
Abundance

Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0





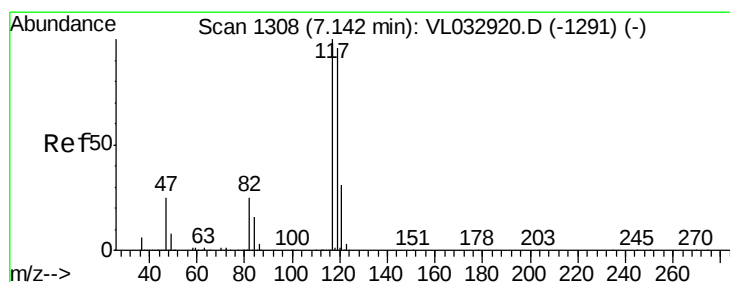
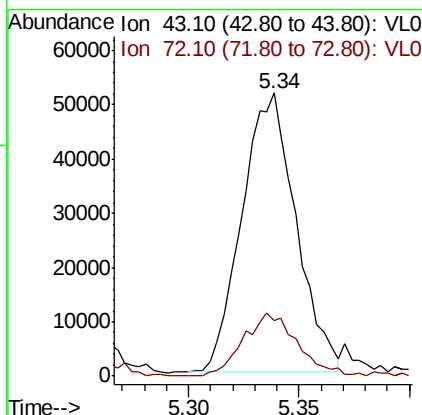
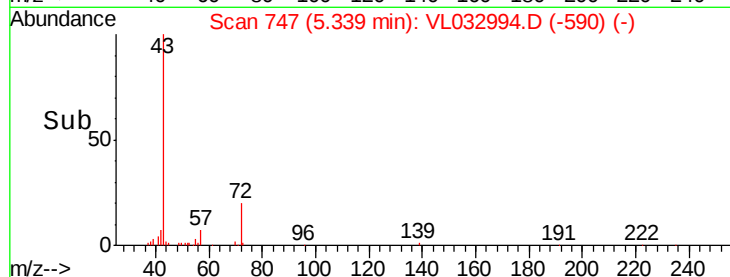
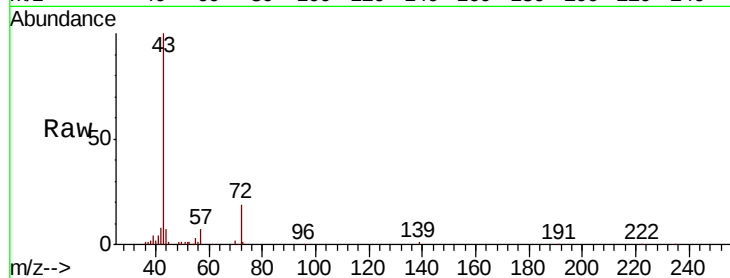
#34
2-Butanone
Concen: 0.866 ppbv
RT: 5.34 min Scan# 747
Delta R.T. 0.00 min
Lab File: VL032994.D
Acq: 14 Dec 2018 9:39

Instrument :
MSVOA_L
ClientSampleId :
P00131-SG001-181212-01

Tot Ion: 43 Resp: 87360
Ion Ratio Lower Upper
43 100
72 22.6 18.8 28.2

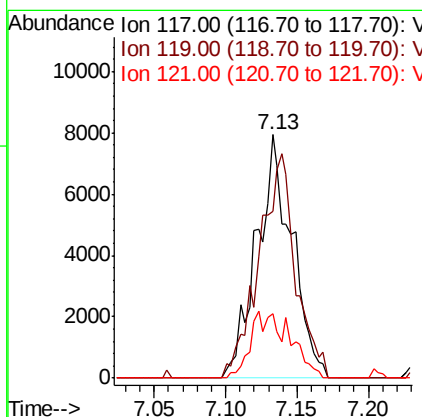
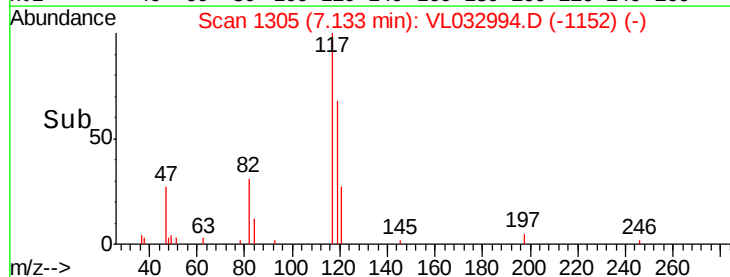
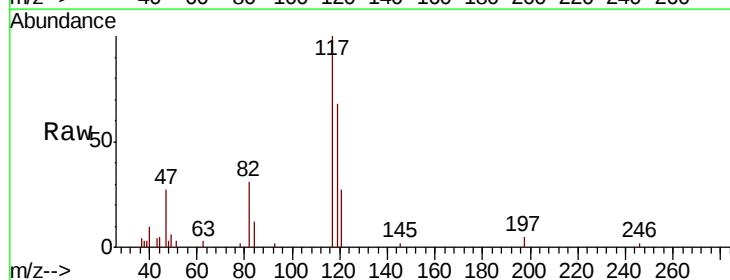
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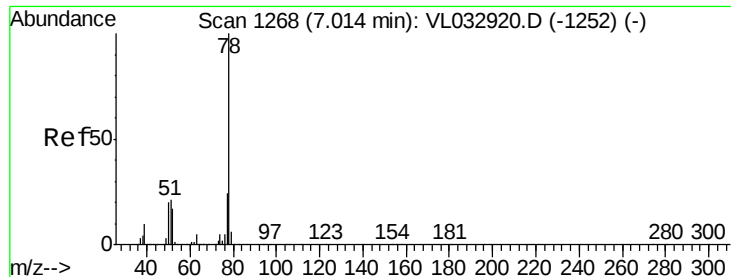
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#35
Carbon Tetrachloride
Concen: 0.075 ppbv m
RT: 7.13 min Scan# 1305
Delta R.T. -0.01 min
Lab File: VL032994.D
Acq: 14 Dec 2018 9:39

Tgt Ion: 117 Resp: 13577
Ion Ratio Lower Upper
117 100
119 68.3 76.5 114.7#
121 26.6 24.5 36.7





#36

Benzene

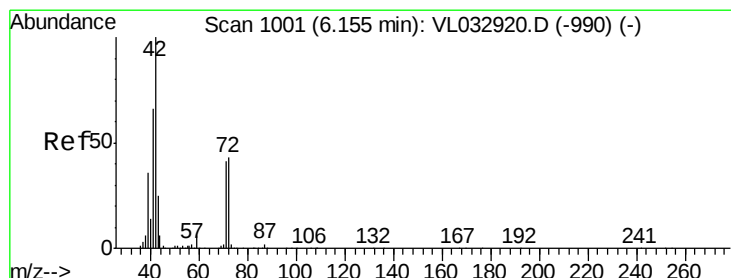
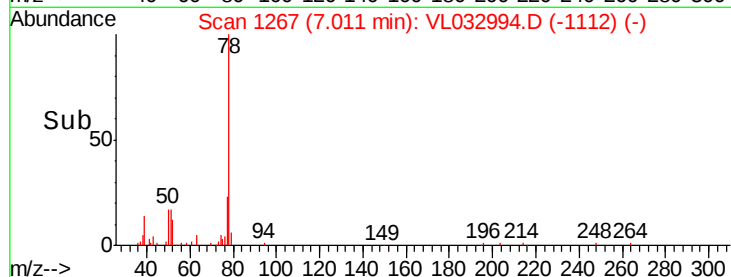
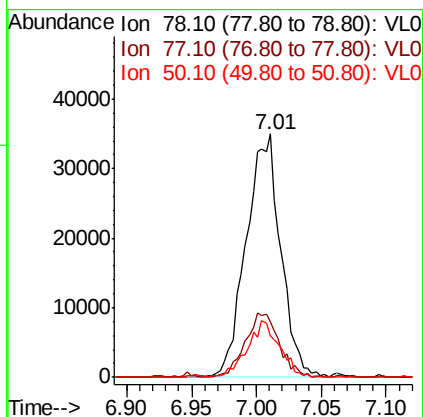
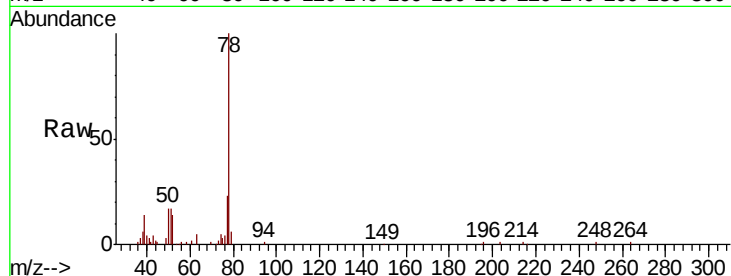
Concen: 0.381 ppbv m
RT: 7.01 min Scan# 1267
Delta R.T. -0.00 min
Lab File: VL032994.D
Acq: 14 Dec 2018 9:39

Instrument :
MSVOA_L
ClientSampleId :
P00131-SG001-181212-01

Tot Ion	Ratio	Lower	Upper
78	100		
77	22.6	18.9	28.3
50	16.8	16.1	24.1

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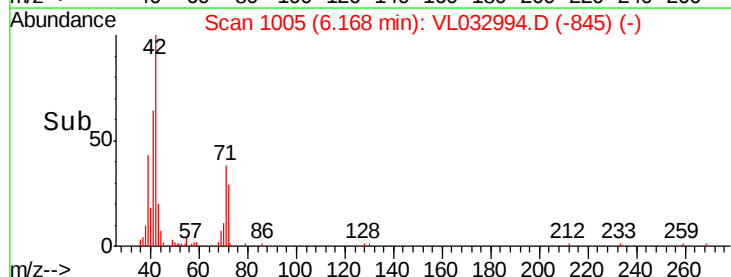
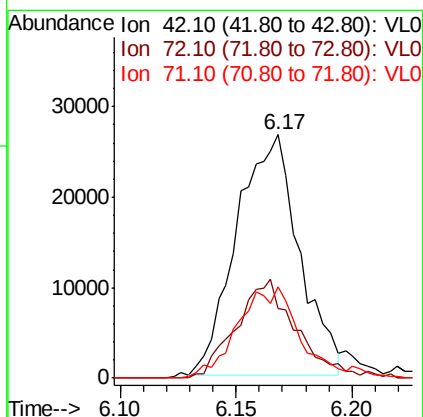
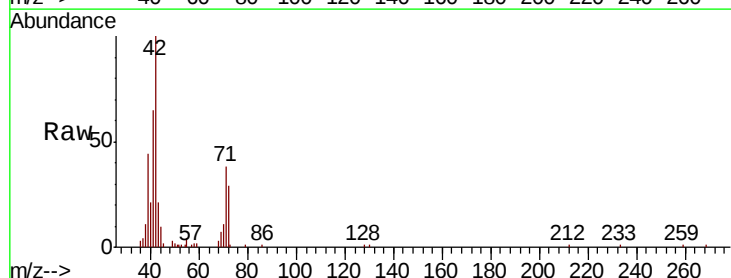


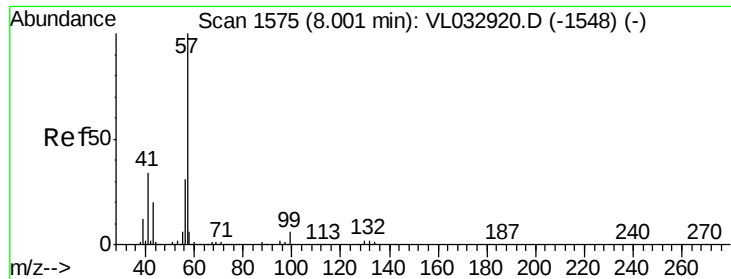
#41

Tetrahydrofuran

Concen: 0.794 ppbv
RT: 6.17 min Scan# 1005
Delta R.T. 0.01 min
Lab File: VL032994.D
Acq: 14 Dec 2018 9:39

Tgt Ion	Ratio	Lower	Upper
42	100		
72	39.6	32.9	49.3
71	38.4	32.0	48.0





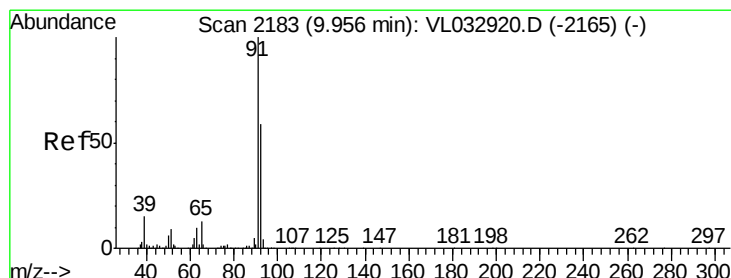
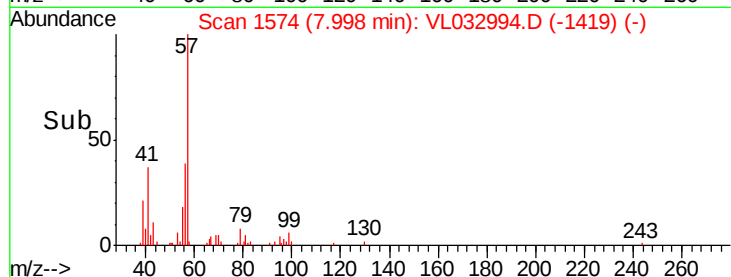
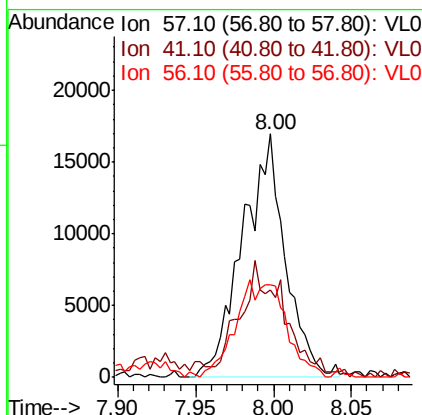
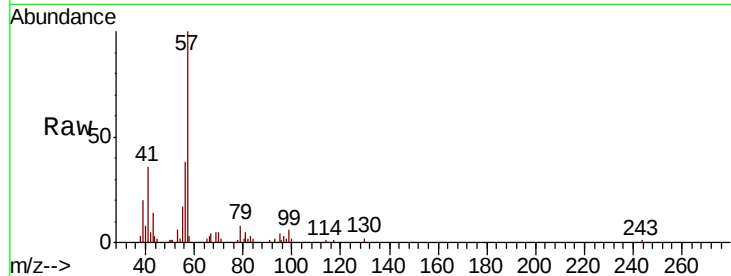
#44
 2,2,4-Trimethylpentane
 Concen: 0.112 ppbv m
 RT: 8.00 min Scan# 1574
 Delta R.T. -0.00 min
 Lab File: VL032994.D
 Acq: 14 Dec 2018 9:39

Instrument :
 MSVOA_L
 ClientSampleId :
 P00131-SG001-181212-01

Tot Ion	Ratio	Lower	Upper
57	100		
41	0.0	27.0	40.4#
56	0.0	24.6	37.0#

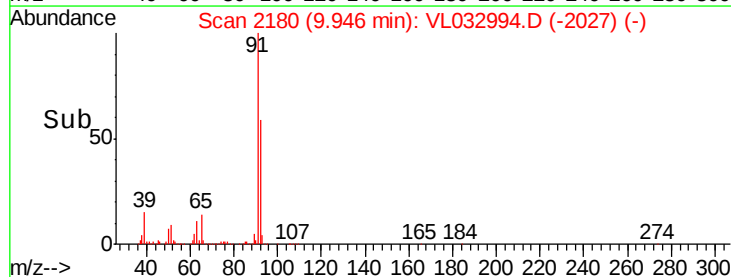
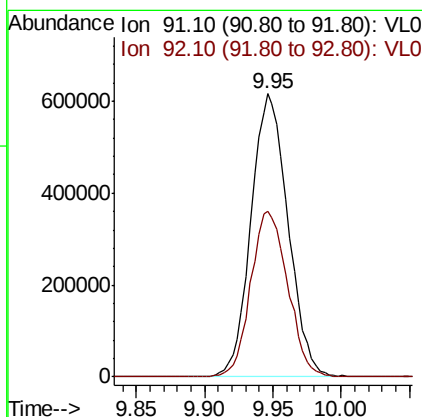
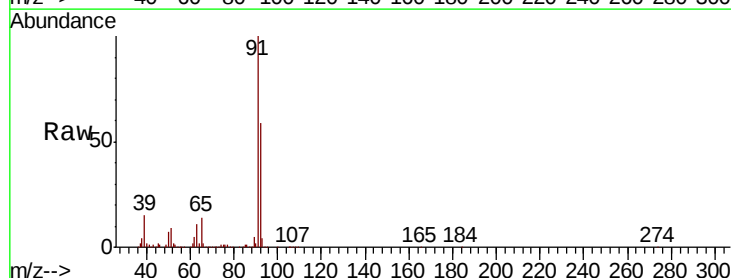
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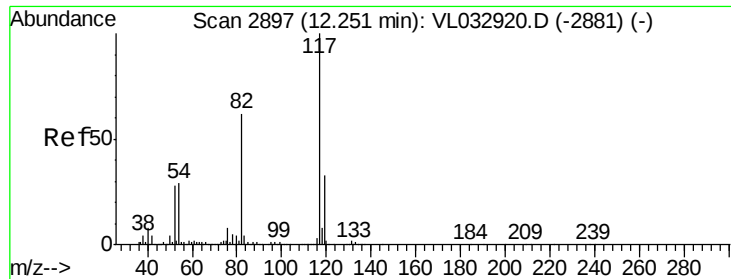
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#53
 Toluene
 Concen: 6.415 ppbv
 RT: 9.95 min Scan# 2180
 Delta R.T. -0.01 min
 Lab File: VL032994.D
 Acq: 14 Dec 2018 9:39

Tgt Ion	Ratio	Lower	Upper
91	100		
92	58.9	47.4	71.0





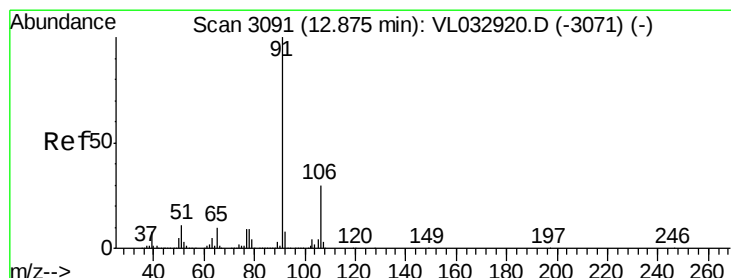
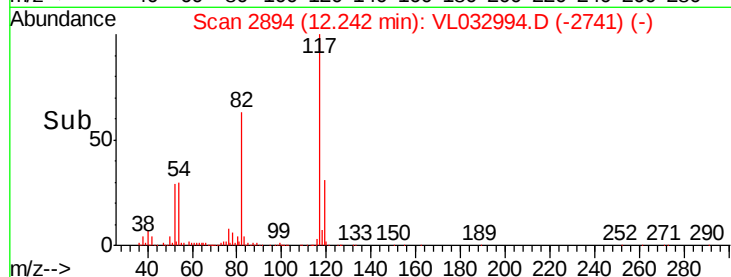
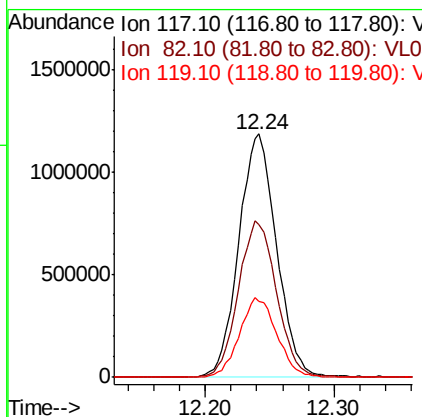
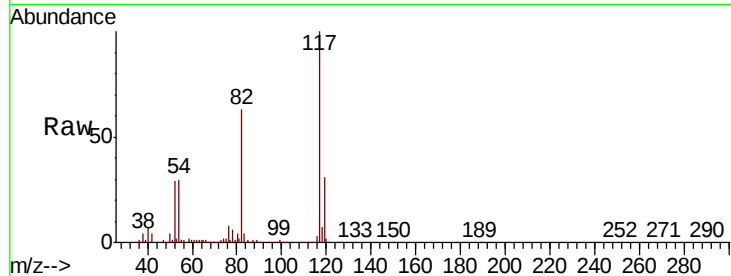
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.24 min Scan# 2894
Delta R.T. -0.01 min
Lab File: VL032994.D
Acq: 14 Dec 2018 9:39

Instrument :
MSVOA_L
ClientSampleId :
P00131-SG001-181212-01

Tot Ion:117 Resp: 2410726
Ion Ratio Lower Upper
117 100
82 65.5 47.8 71.8
119 32.6 43.1 64.7#

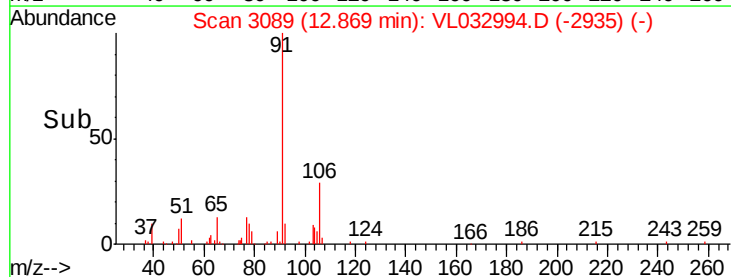
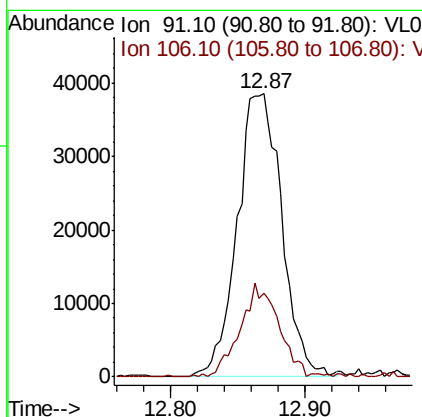
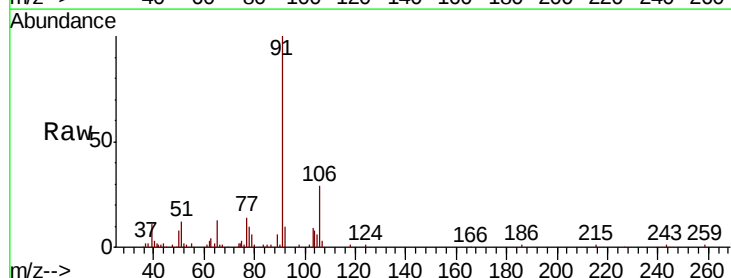
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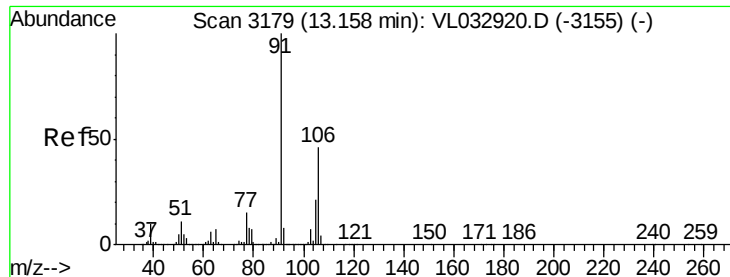
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#58
Ethyl Benzene
Concen: 0.344 ppbv m
RT: 12.87 min Scan# 3089
Delta R.T. -0.01 min
Lab File: VL032994.D
Acq: 14 Dec 2018 9:39

Tgt Ion: 91 Resp: 88569
Ion Ratio Lower Upper
91 100
106 29.4 23.9 35.9





#59

m/p-Xylene

Concen: 1.572 ppbv

RT: 13.13 min Scan# 3169

Delta R.T. -0.03 min

Lab File: VL032994.D

Acq: 14 Dec 2018 9:39

Instrument :

MSVOA_L

ClientSampleId :

P00131-SG001-181212-01

Tot Ion: 91 Resp: 366511

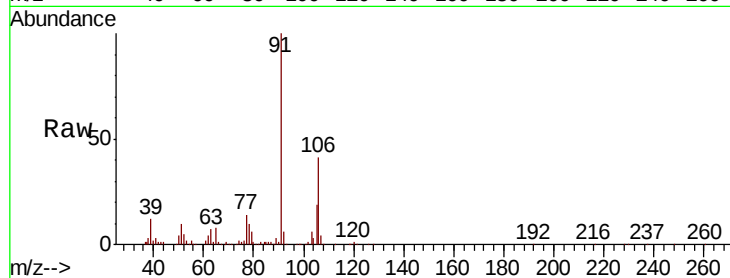
Ion Ratio Lower Upper

91 100

106 43.7 0.0 0.0#

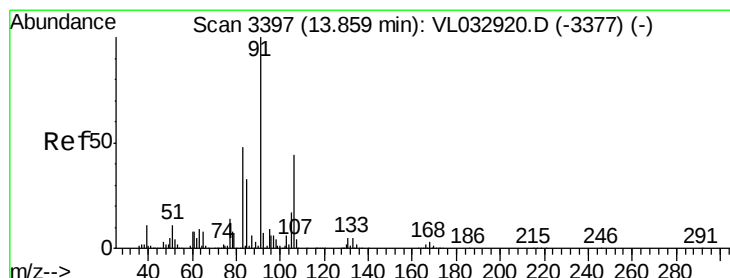
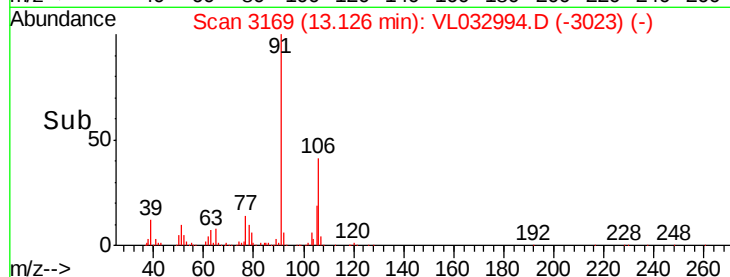
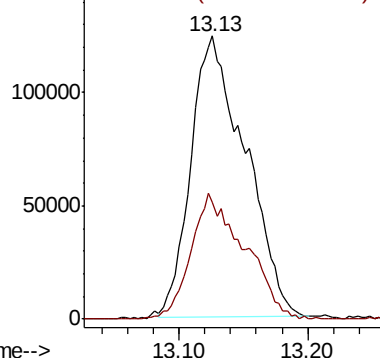
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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#60

o-Xylene

Concen: 0.346 ppbv

RT: 13.85 min Scan# 3393

Delta R.T. -0.01 min

Lab File: VL032994.D

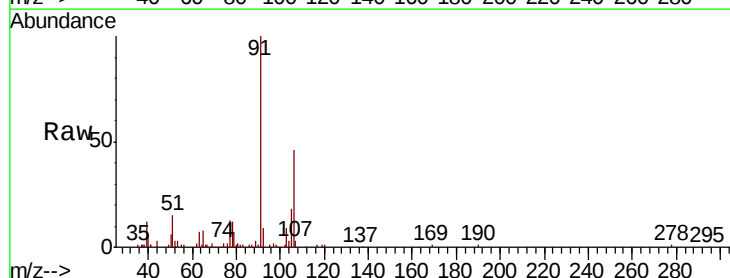
Acq: 14 Dec 2018 9:39

Tgt Ion: 91 Resp: 81449

Ion Ratio Lower Upper

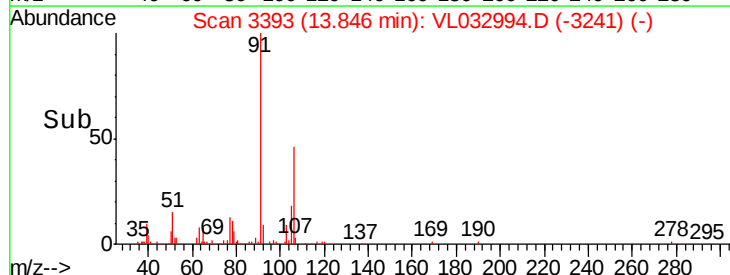
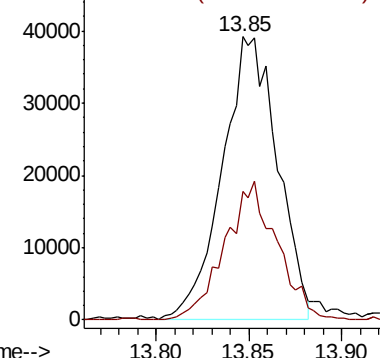
91 100

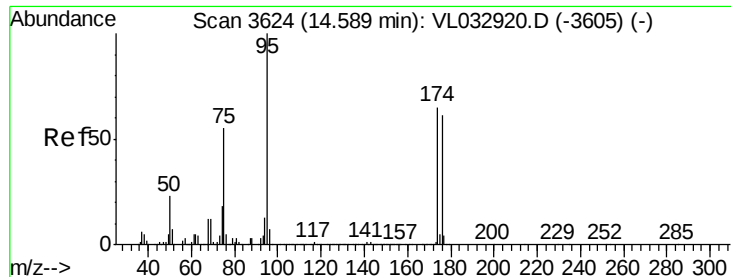
106 46.2 21.9 65.8



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





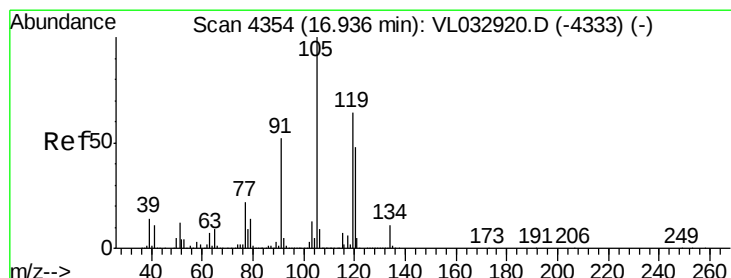
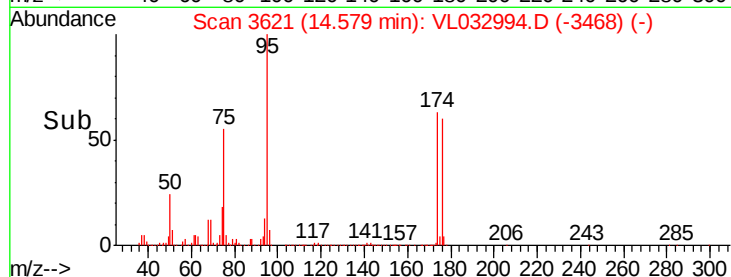
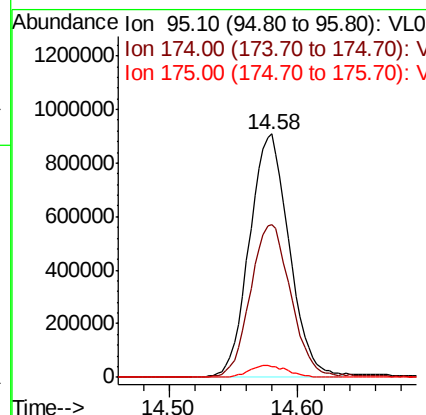
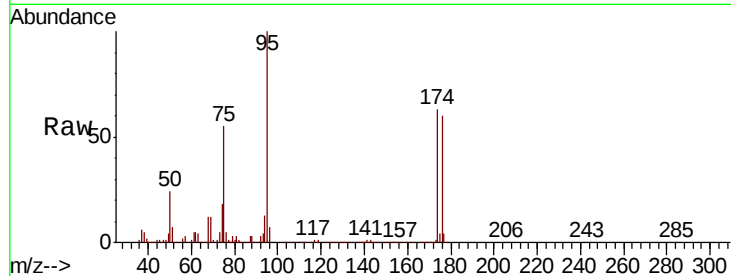
#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.970 ppbv
 RT: 14.58 min Scan# 3621
 Delta R.T. -0.01 min
 Lab File: VL032994.D
 Acq: 14 Dec 2018 9:39

Instrument :
 MSVOA_L
 ClientSampleId :
 P00131-SG001-181212-01

Tot Ion: 95 Resp: 1953851
 Ion Ratio Lower Upper
 95 100
 174 65.1 51.4 77.0
 175 4.7 3.8 5.6

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#74
 1,2,4-Trimethylbenzene
 Concen: 0.185 ppbv
 RT: 16.93 min Scan# 4351
 Delta R.T. -0.01 min
 Lab File: VL032994.D
 Acq: 14 Dec 2018 9:39

Tgt Ion: 105 Resp: 53660
 Ion Ratio Lower Upper
 105 100
 120 40.5 38.6 58.0
 91 17.6 41.7 62.5#
 77 16.9 17.4 26.2#

