

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL101818\
 Data File : VL032679.D
 Acq On : 19 Oct 2018 11:39
 Operator : SY/AP
 Sample : J5581-06
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 D-1

Manual Integrations
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MMDadoda
 10/24/2018 12:06:38 PM

Quant Time: Oct 23 10:23:17 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL101818AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Oct 19 2018
 QLast Update : Fri Oct 19 01:25:37 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.77	49	1473364	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.31	114	3377183	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.26	117	3245199	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.59	95	2359023	9.76	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.60%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.09	85	32658m	0.218	ppbv	
4) Chloromethane	3.19	50	32723m	0.508	ppbv	
9) Propene	3.06	41	35296m	0.744	ppbv	
11) Trichlorofluoromethane	4.02	101	39834	0.203	ppbv	87
13) Ethanol	3.67	45	5644403	416.476	ppbv	98
15) Acetone	3.91	43	1078088	7.924	ppbv	100
19) Isopropyl Alcohol	4.05	45	2055294	21.212	ppbv #	96
20) Methylene Chloride	4.42	84	105305	1.525	ppbv	96
26) Hexane	5.79	57	326951	2.207	ppbv #	55
34) 2-Butanone	5.35	43	76068	0.420	ppbv	95
35) Carbon Tetrachloride	7.15	117	17003m	0.071	ppbv	
36) Benzene	7.02	78	39108m	0.143	ppbv	
52) Tetrachloroethene	11.40	164	2711m	0.028	ppbv	
53) Toluene	9.96	91	1648980	5.245	ppbv	99

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

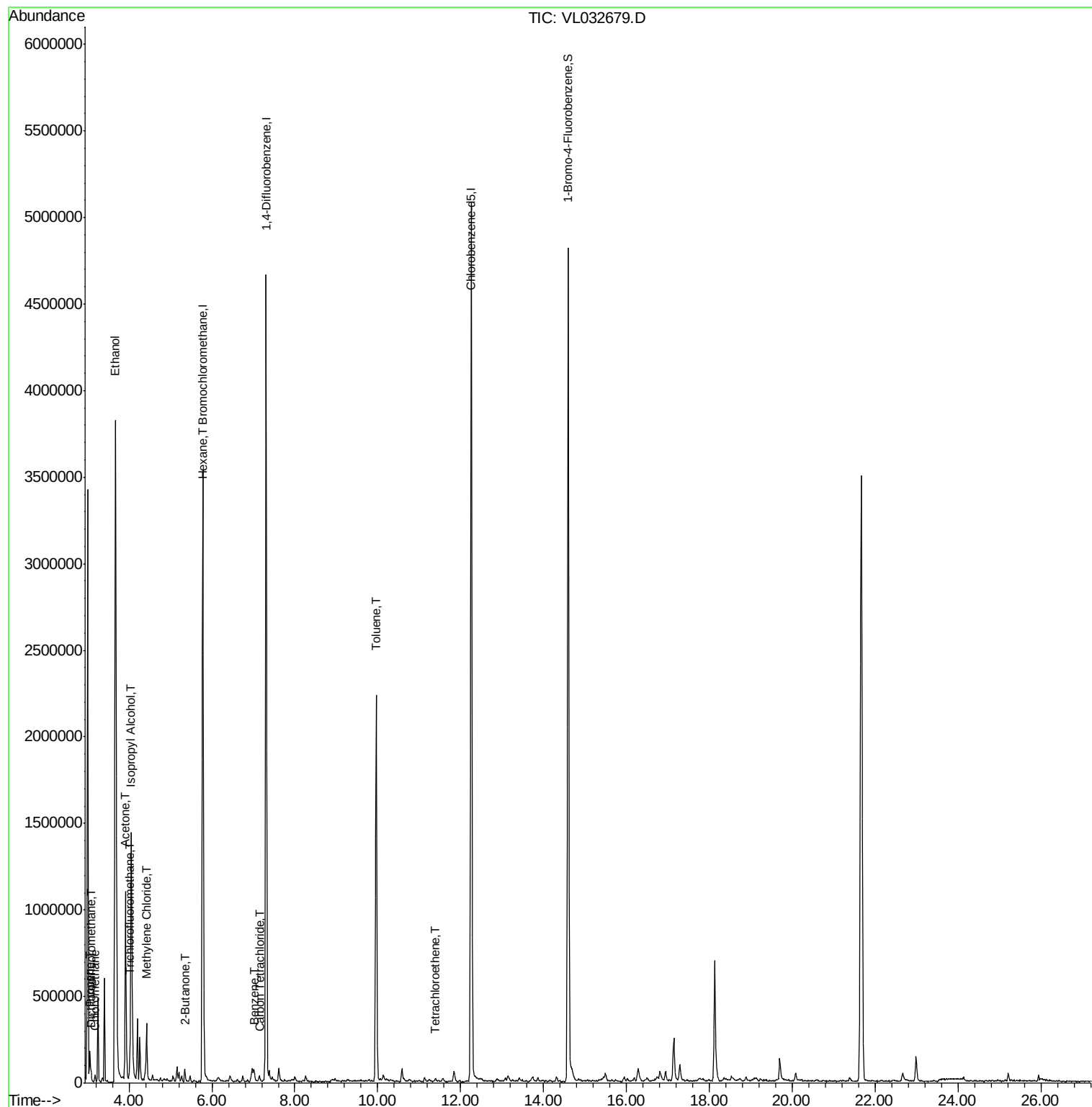
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL101818\
Data File : VL032679.D
Acq On : 19 Oct 2018 11:39
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Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

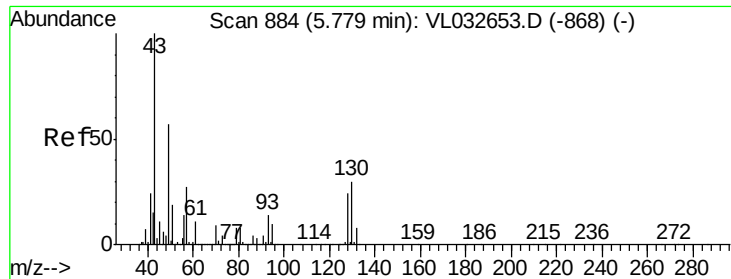
Instrument :
MSVOA_L
ClientSampleId :
D-1

Manual Integrations
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Quant Time: Oct 23 10:23:17 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL101818AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Oct
QLast Update : Fri Oct 19 01:25:37 2018
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.77 min Scan# 882

Delta R.T. -0.01 min

Lab File: VL032679.D

Acq: 19 Oct 2018 11:39

Instrument :

MSVOA_L

ClientSampled :

D-1

Tot Ion: 49 Resp: 1473364

Ion Ratio Lower Upper

49 100

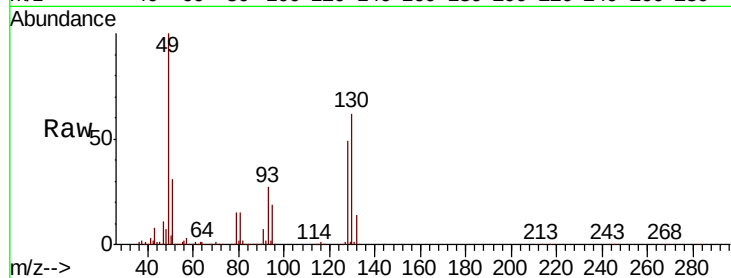
128 49.1 22.3 66.8

130 62.1 28.4 85.3

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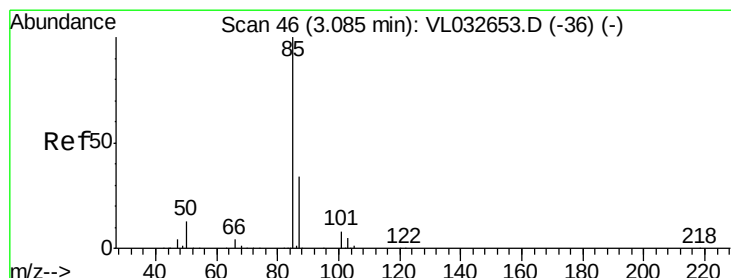
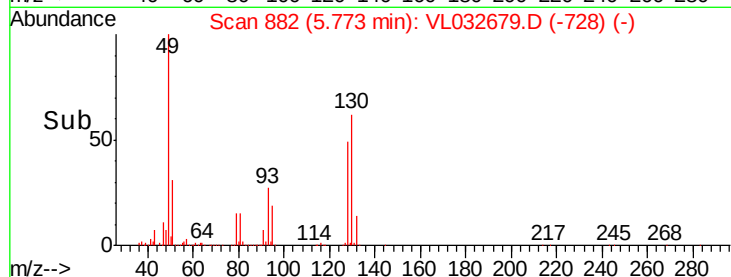
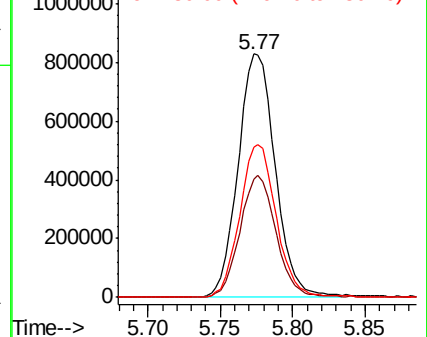


Abundance

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: 0.218 ppbv m

RT: 3.09 min Scan# 47

Delta R.T. 0.00 min

Lab File: VL032679.D

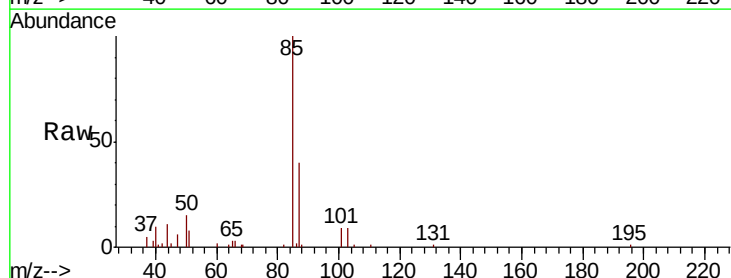
Acq: 19 Oct 2018 11:39

Tgt Ion: 85 Resp: 32658

Ion Ratio Lower Upper

85 100

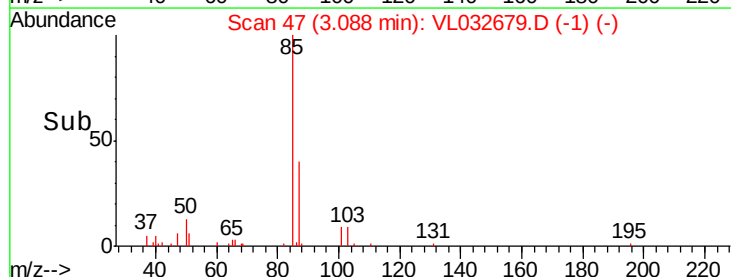
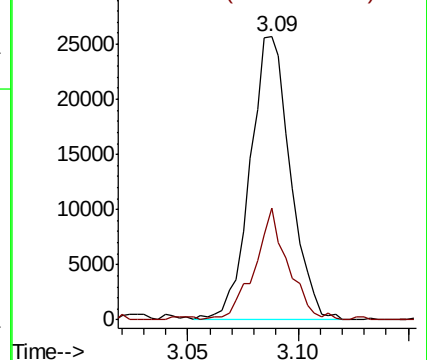
87 39.6 26.2 39.2#

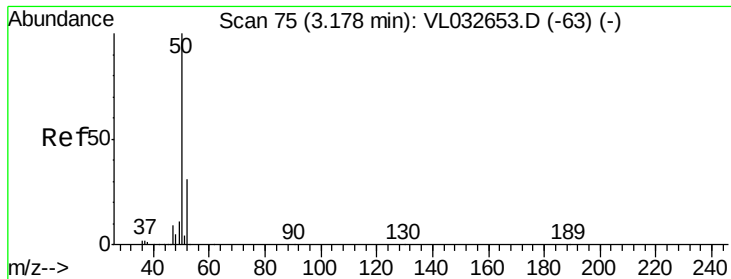


Abundance

Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#4

Chloromethane

Concen: 0.508 ppbv m

RT: 3.19 min Scan# 78

Delta R.T. 0.01 min

Lab File: VL032679.D

Acq: 19 Oct 2018 11:39

Instrument :

MSVOA_L

ClientSampleId :

D-1

Tot Ion: 50 Resp: 32723

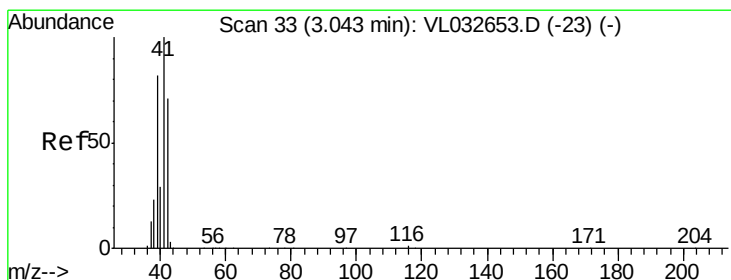
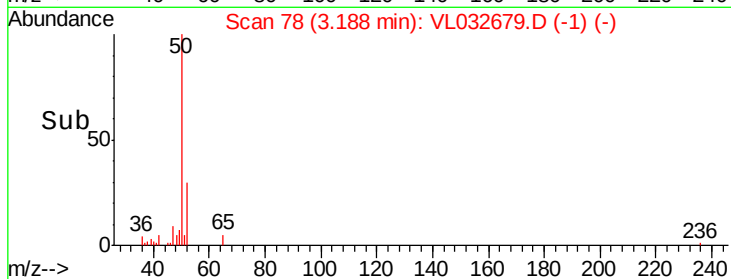
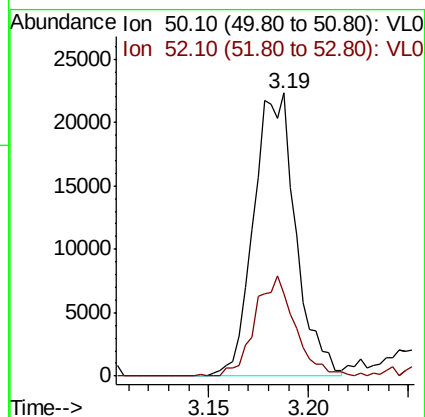
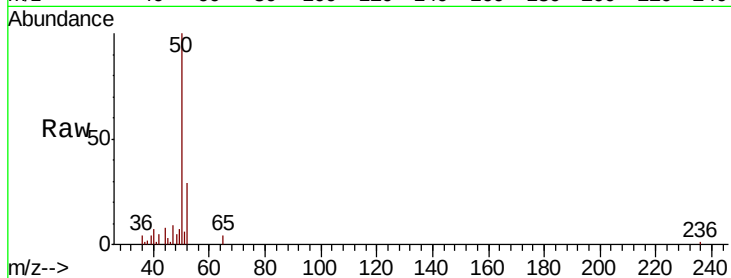
Ion Ratio Lower Upper

50 100

52 29.3 25.9 38.9

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#9

Propene

Concen: 0.744 ppbv m

RT: 3.06 min Scan# 38

Delta R.T. 0.02 min

Lab File: VL032679.D

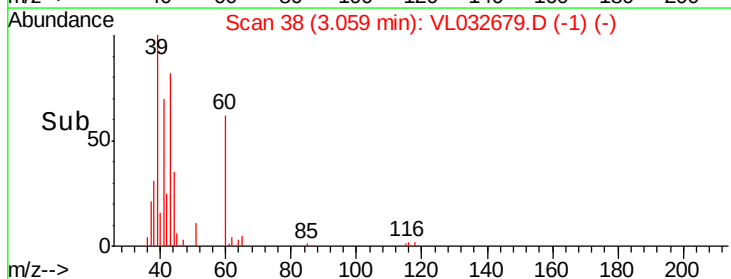
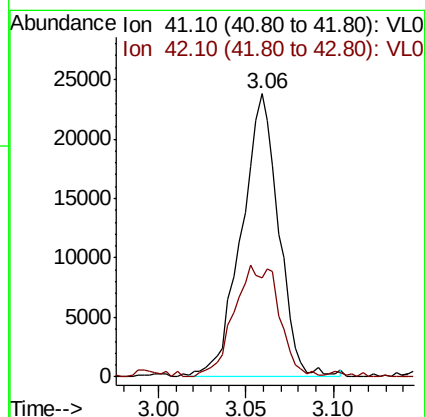
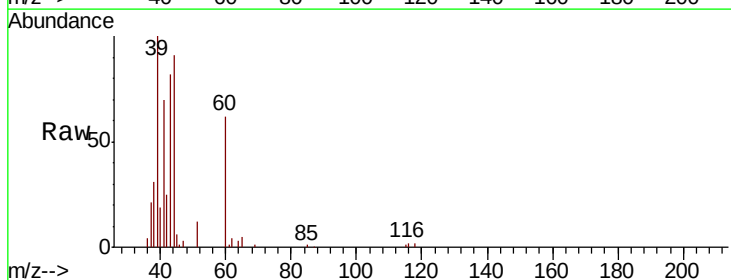
Acq: 19 Oct 2018 11:39

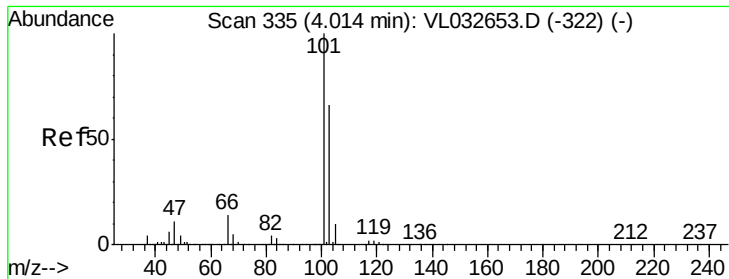
Tgt Ion: 41 Resp: 35296

Ion Ratio Lower Upper

41 100

42 241.4 55.4 83.0#





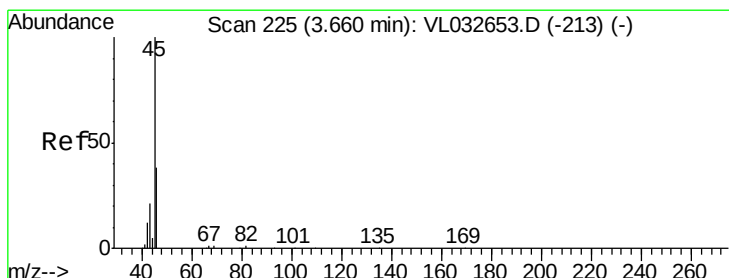
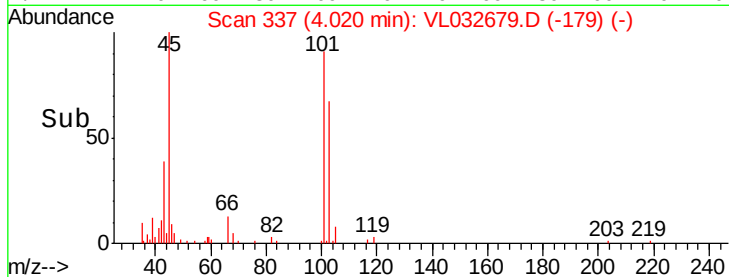
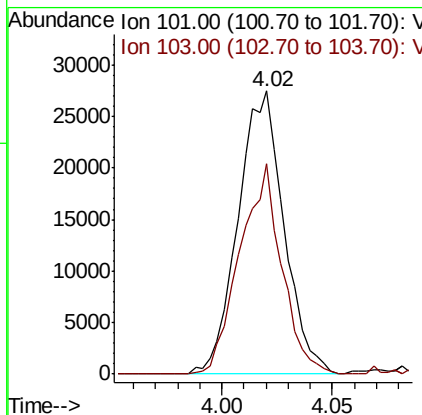
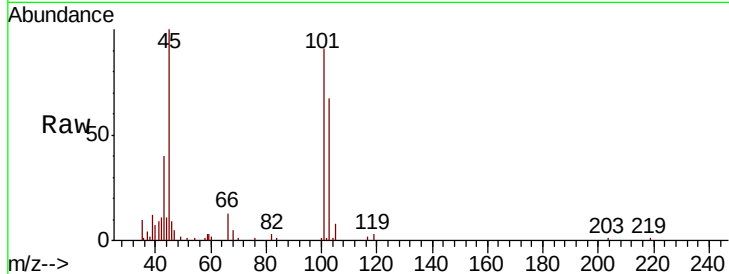
#11
Trichlorofluoromethane
Concen: 0.203 ppbv
RT: 4.02 min Scan# 337
Delta R.T. 0.01 min
Lab File: VL032679.D
Acq: 19 Oct 2018 11:39

Instrument :
MSVOA_L
ClientSampleId :
D-1

Tot Ion:101 Resp: 39834
Ion Ratio Lower Upper
101 100
103 74.2 51.4 77.2

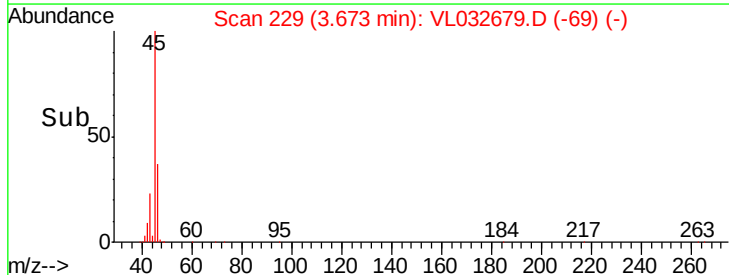
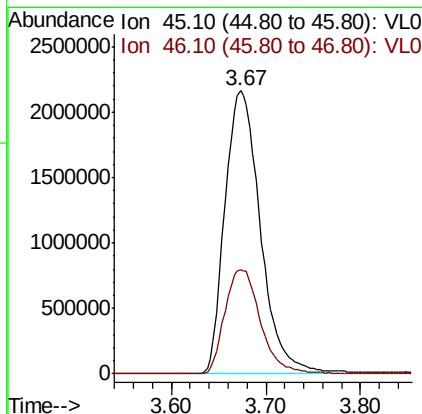
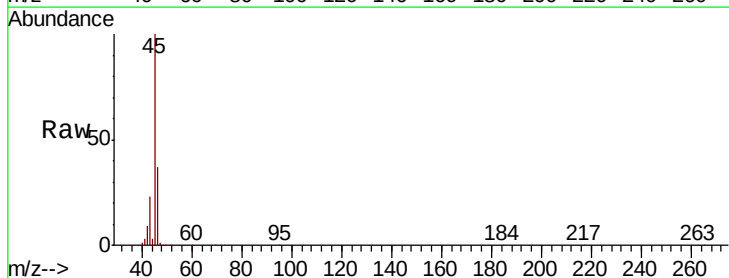
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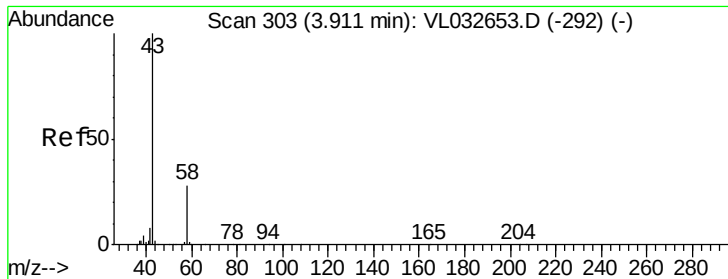
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#13
Ethanol
Concen: 416.476 ppbv
RT: 3.67 min Scan# 229
Delta R.T. 0.01 min
Lab File: VL032679.D
Acq: 19 Oct 2018 11:39

Tgt Ion: 45 Resp: 5644403
Ion Ratio Lower Upper
45 100
46 37.6 15.4 61.8





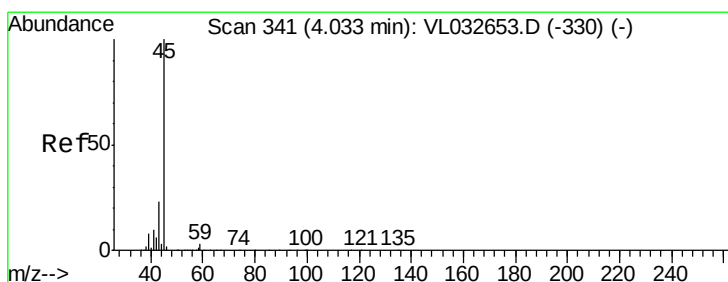
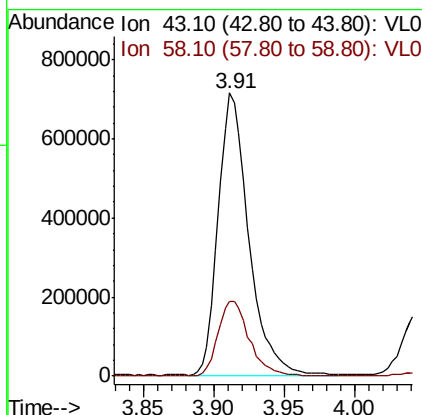
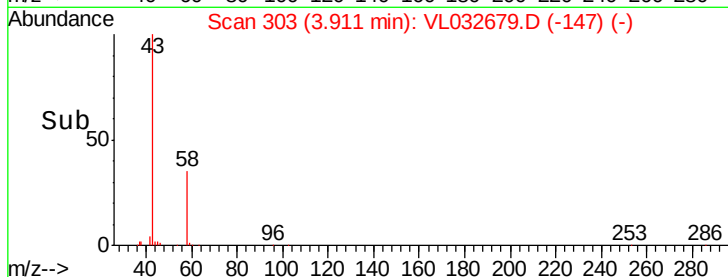
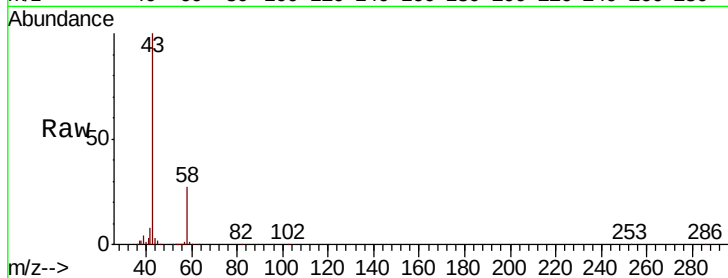
#15
Acetone
Concen: 7.924 ppbv
RT: 3.91 min Scan# 303
Delta R.T. 0.00 min
Lab File: VL032679.D
Acq: 19 Oct 2018 11:39

Instrument :
MSVOA_L
ClientSampleId :
D-1

Tot Ion: 43 Resp: 1078088
Ion Ratio Lower Upper
43 100
58 27.4 22.1 33.1

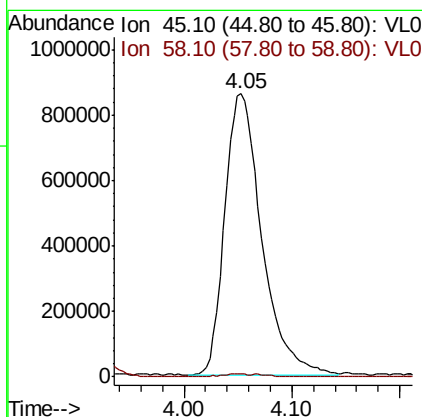
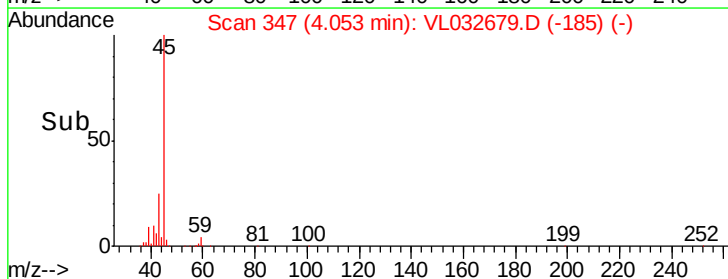
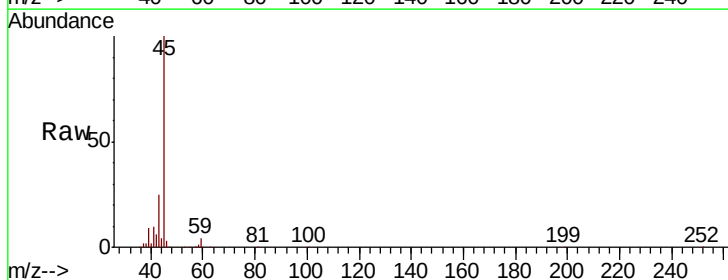
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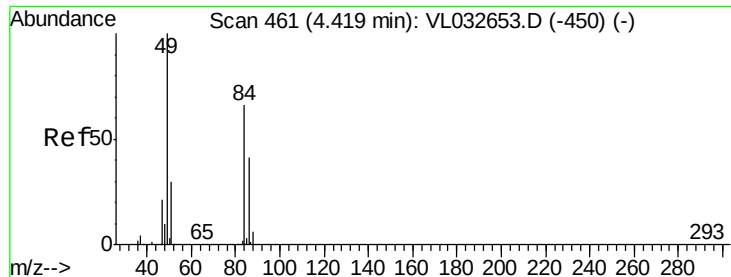
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#19
Isopropyl Alcohol
Concen: 21.212 ppbv
RT: 4.05 min Scan# 347
Delta R.T. 0.02 min
Lab File: VL032679.D
Acq: 19 Oct 2018 11:39

Tgt Ion: 45 Resp: 2055294
Ion Ratio Lower Upper
45 100
58 1.3 2.0 3.0#





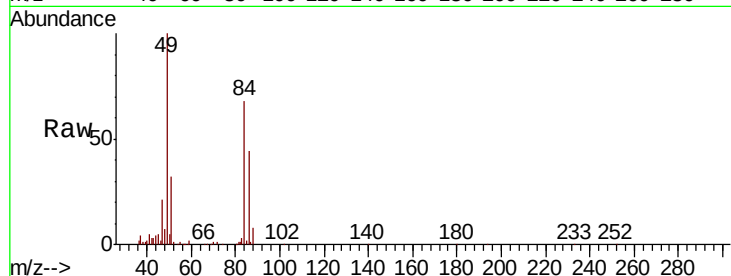
#20
Methylene Chloride
Concen: 1.525 ppbv
RT: 4.42 min Scan# 462
Delta R.T. 0.00 min
Lab File: VL032679.D
Acq: 19 Oct 2018 11:39

Instrument :
MSVOA_L
ClientSampled :
D-1

Tot Ion	Ratio	Lower	Upper
84	100		
49	146.1	113.5	170.3
51	46.2	34.8	52.2
86	64.6	47.9	71.9

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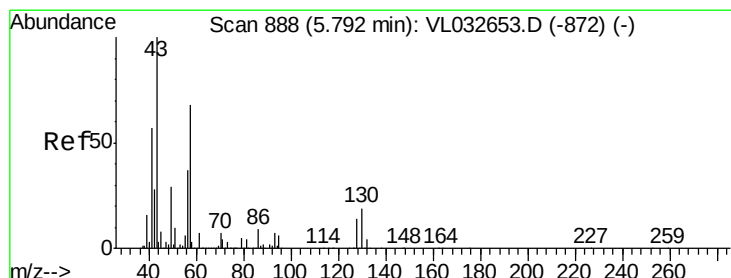
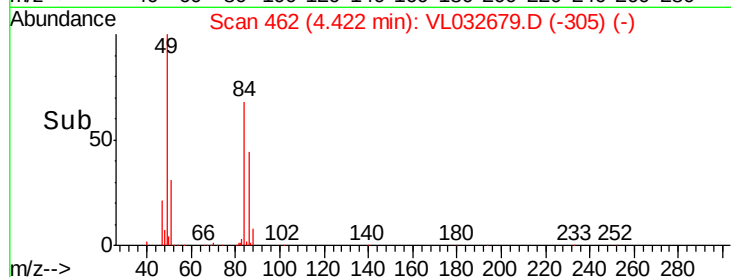
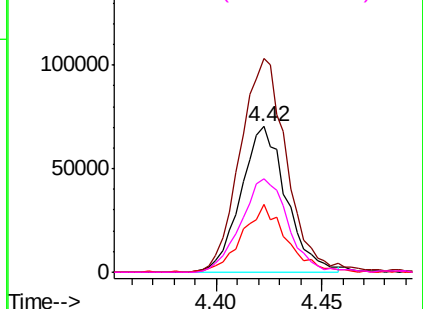
Abundance

Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0



#26
Hexane
Concen: 2.207 ppbv
RT: 5.79 min Scan# 888
Delta R.T. 0.00 min
Lab File: VL032679.D
Acq: 19 Oct 2018 11:39

Tgt Ion	Ratio	Lower	Upper
57	100		
41	90.9	67.4	101.0
43	102.9	171.9	257.9
56	55.1	42.6	63.8

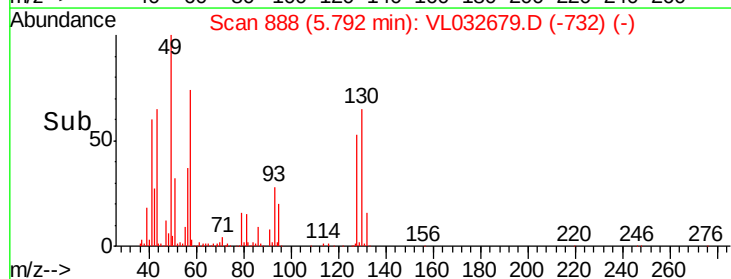
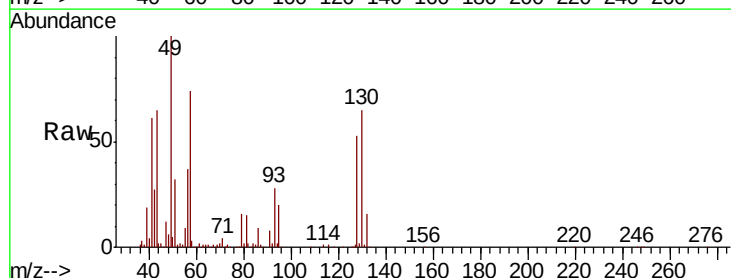
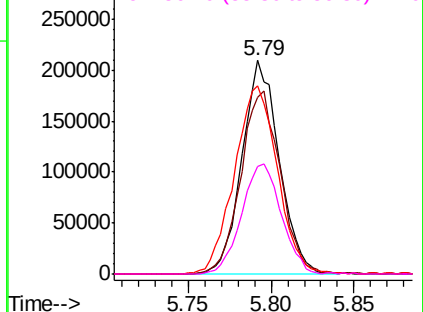
Abundance

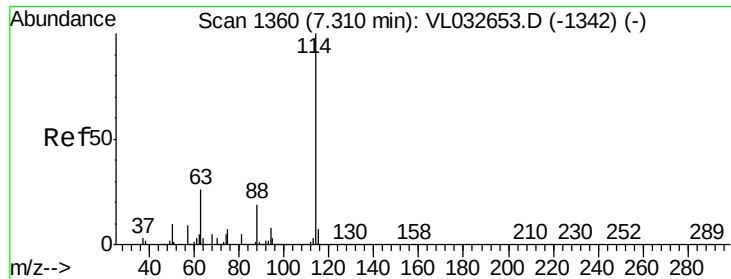
Ion 57.10 (56.80 to 57.80): VL0

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





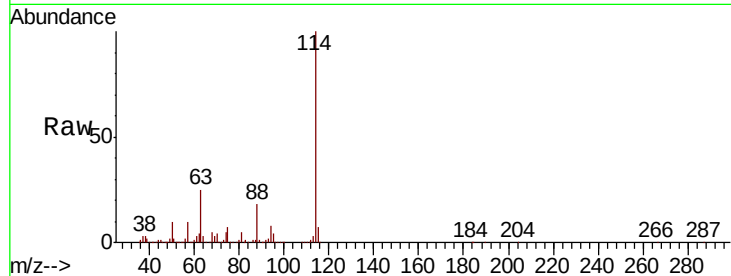
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.31 min Scan# 1359
 Delta R.T. -0.00 min
 Lab File: VL032679.D
 Acq: 19 Oct 2018 11:39

Instrument :
 MSVOA_L
 ClientSampled :
 D-1

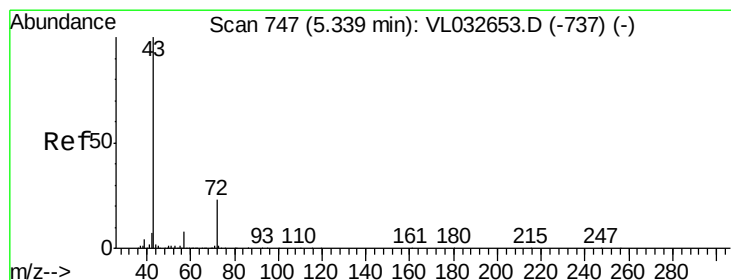
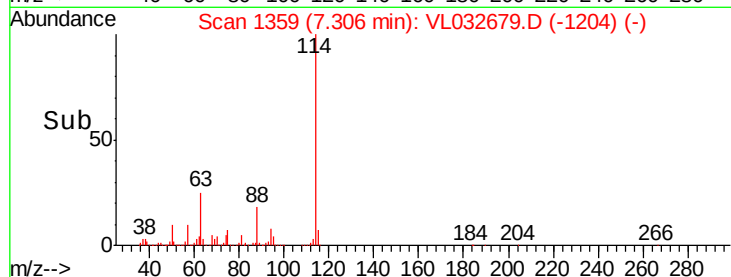
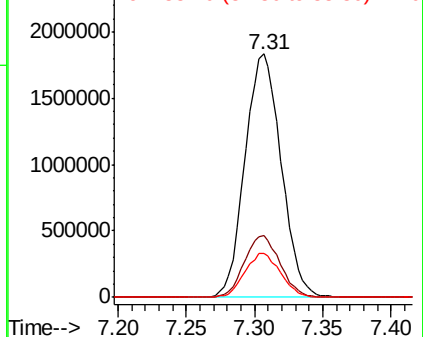
Tot Ion	Ratio	Lower	Upper
114	100		
63	25.1	21.7	32.5
88	17.9	14.9	22.3

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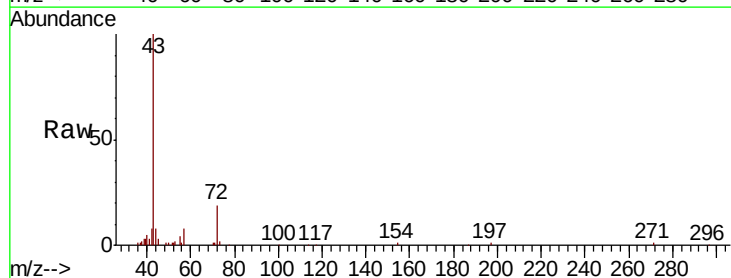


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

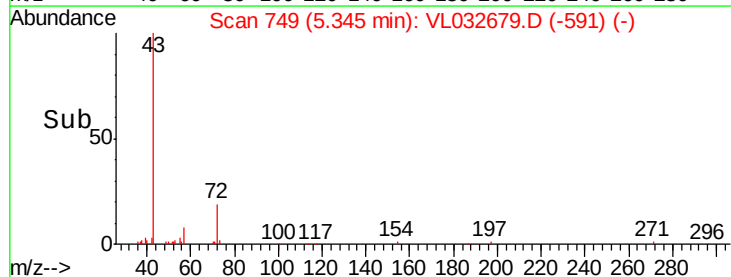
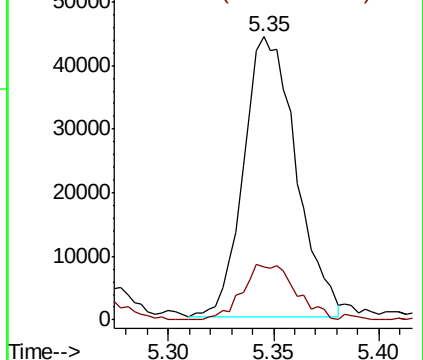


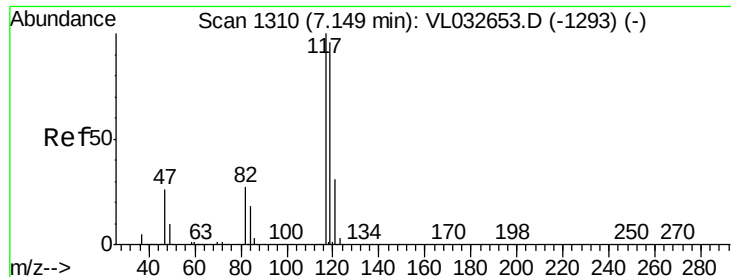
#34
 2-Butanone
 Concen: 0.420 ppbv
 RT: 5.35 min Scan# 749
 Delta R.T. 0.01 min
 Lab File: VL032679.D
 Acq: 19 Oct 2018 11:39

Tgt Ion	Ratio	Lower	Upper
43	100		
72	20.6	18.6	27.8



Abundance Ion 43.10 (42.80 to 43.80): VL0
 Ion 72.10 (71.80 to 72.80): VL0





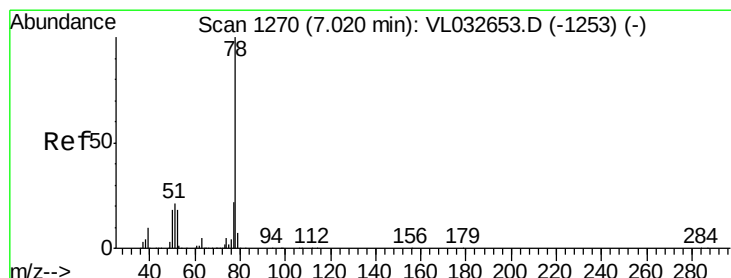
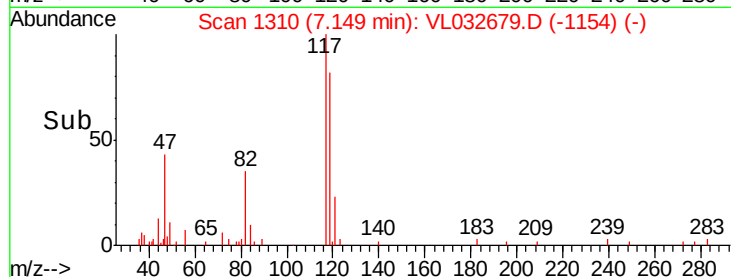
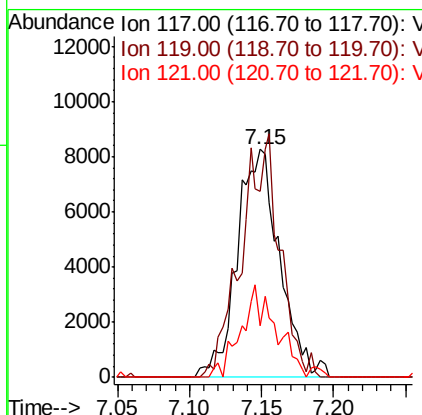
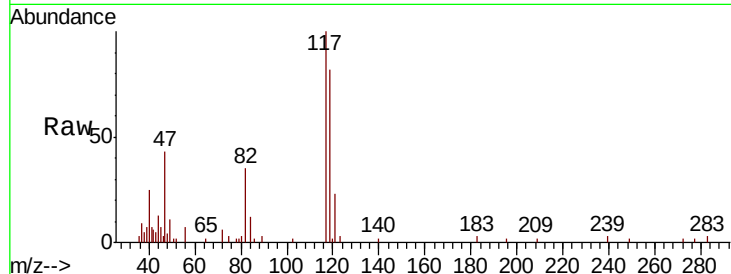
#35
Carbon Tetrachloride
Concen: 0.071 ppbv m
RT: 7.15 min Scan# 1310
Delta R.T. 0.00 min
Lab File: VL032679.D
Acq: 19 Oct 2018 11:39

Instrument :
MSVOA_L
ClientSampled :
D-1

Tot Ion	Ratio	Lower	Upper
117	100		
119	81.7	75.7	113.5
121	22.9	24.7	37.1#

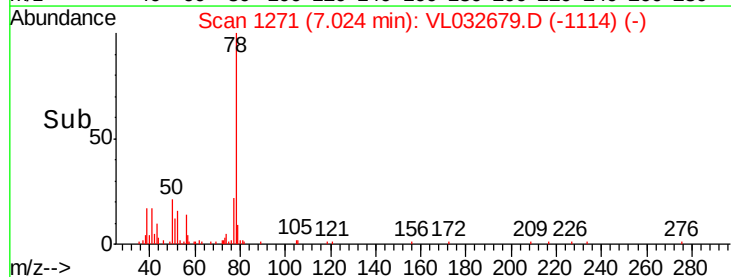
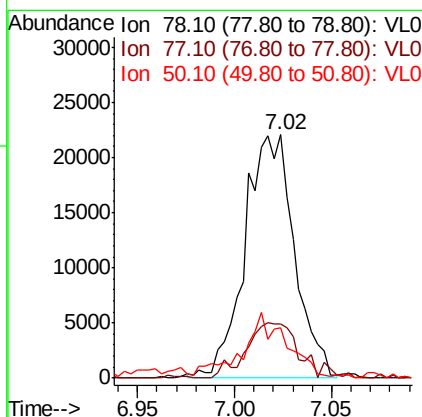
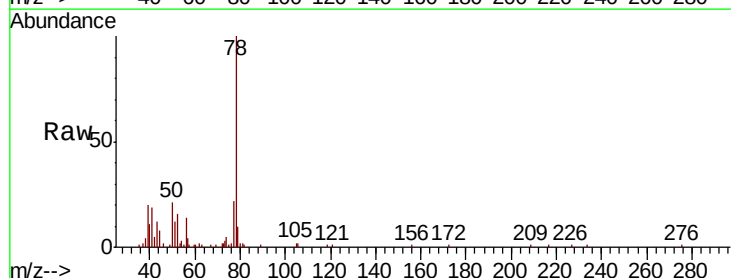
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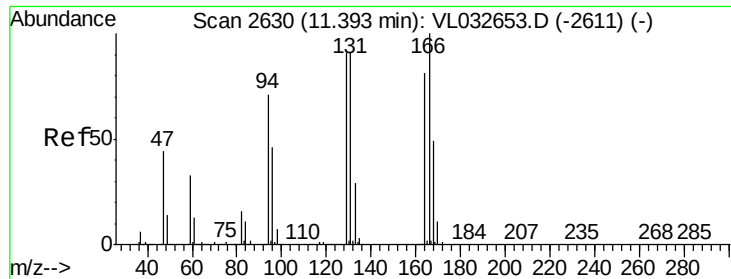
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#36
Benzene
Concen: 0.143 ppbv m
RT: 7.02 min Scan# 1271
Delta R.T. 0.00 min
Lab File: VL032679.D
Acq: 19 Oct 2018 11:39

Tgt Ion	Ratio	Lower	Upper
78	100		
77	22.2	18.1	27.1
50	20.6	15.1	22.7





#52

Tetrachloroethene

Concen: 0.028 ppbv m

RT: 11.40 min Scan# 2632

Delta R.T. 0.01 min

Lab File: VL032679.D

Acq: 19 Oct 2018 11:39

Instrument :

MSVOA_L

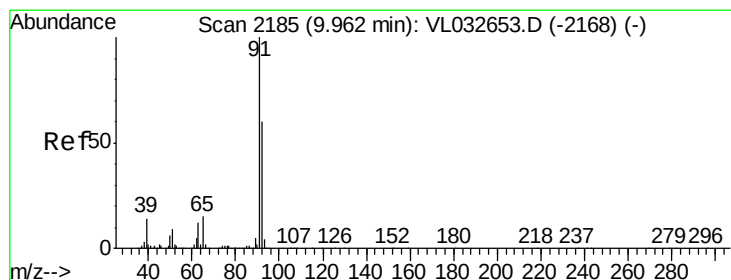
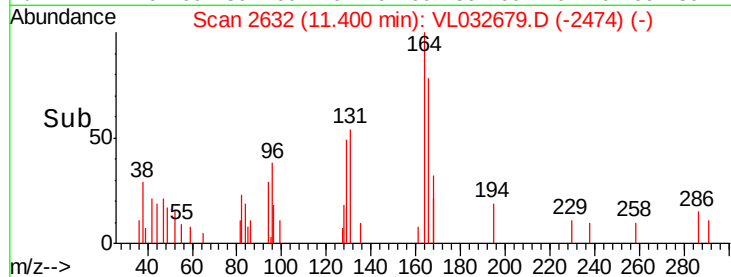
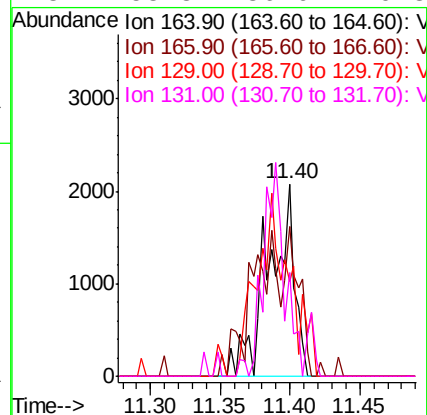
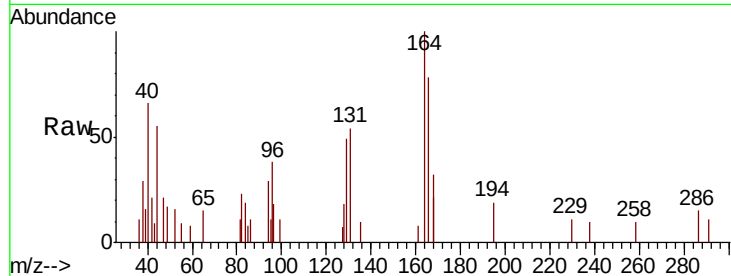
ClientSampleId :

D-1

Tot Ion:	164	Resp:	2711
Ion	Ratio	Lower	Upper
164	100		
166	77.6	100.5	150.7#
129	49.0	90.0	135.0#
131	53.8	86.6	129.8#

Manual Integrations
APPROVED

MMDadoda
10/24/2018 12:06:38 PM



#53

Toluene

Concen: 5.245 ppbv

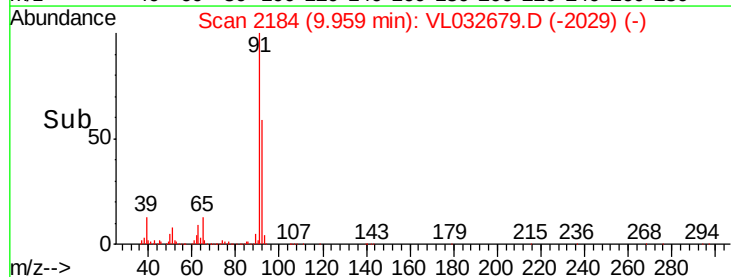
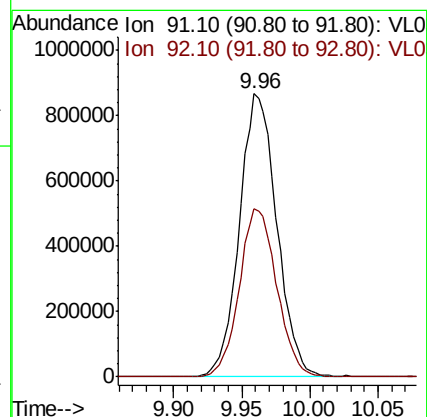
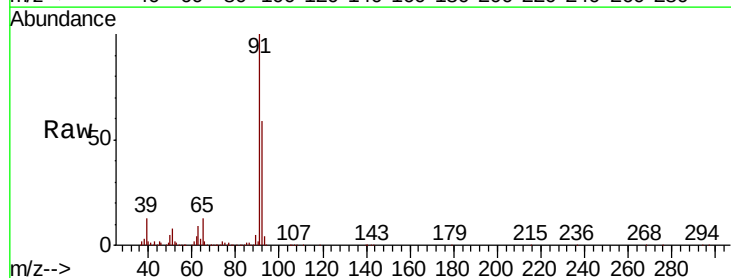
RT: 9.96 min Scan# 2184

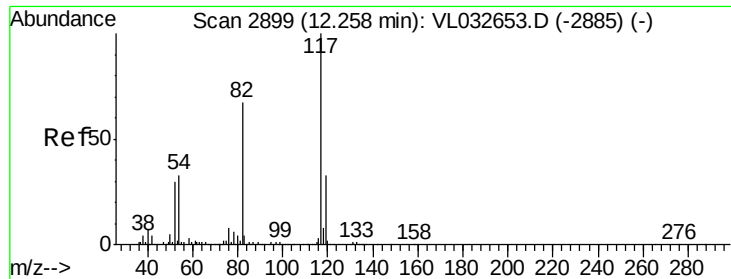
Delta R.T. -0.00 min

Lab File: VL032679.D

Acq: 19 Oct 2018 11:39

Tgt Ion:	91	Resp:	1648980
Ion	Ratio	Lower	Upper
91	100		
92	59.6	48.4	72.6





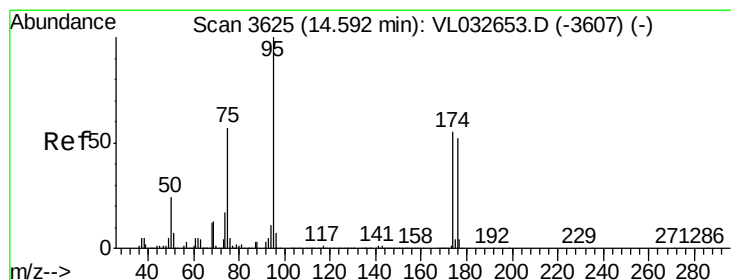
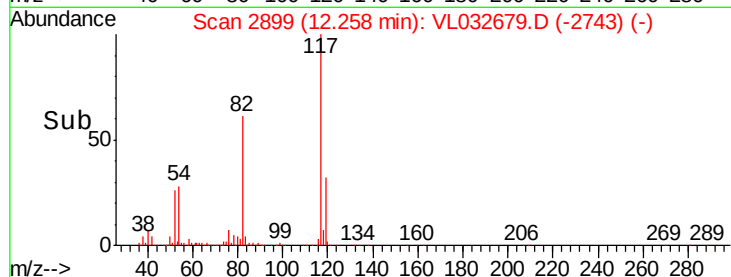
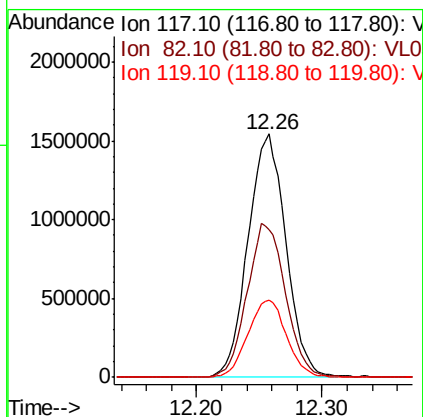
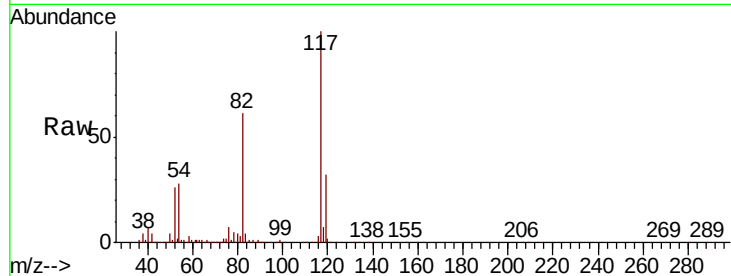
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.26 min Scan# 2899
Delta R.T. 0.00 min
Lab File: VL032679.D
Acq: 19 Oct 2018 11:39

Instrument :
MSVOA_L
ClientSampled :
D-1

Tot Ion:117 Resp: 3245199
Ion Ratio Lower Upper
117 100
82 64.2 52.7 79.1
119 32.5 26.7 40.1

Manual Integrations
APPROVED

MMDadoda
10/24/2018 12:06:38 PM



#68
1-Bromo-4-Fluorobenzene
Concen: 9.763 ppbv
RT: 14.59 min Scan# 3625
Delta R.T. 0.00 min
Lab File: VL032679.D
Acq: 19 Oct 2018 11:39

Tgt Ion: 95 Resp: 2359023
Ion Ratio Lower Upper
95 100
174 64.4 46.0 69.0
175 4.7 3.4 5.0

