

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL122018\
 Data File : VL033040.D
 Acq On : 21 Dec 2018 00:39
 Operator : SY/AP
 Sample : J6480-02
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 MID

Manual Integrations
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 12/24/2018 8:26:31 AM

Quant Time: Dec 21 06:59:09 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	5.77	49	1268483	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.30	114	2922459	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	1766223	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.58	95	1406888	10.78	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	107.80%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.08	85	80717	0.477	ppbv	96
3) Chlorodifluoromethane	3.02	51	30171	0.314	ppbv	92
4) Chloromethane	3.17	50	29748	0.532	ppbv	90
9) Propene	3.05	41	14579m	0.384	ppbv	
11) Trichlorofluoromethane	4.01	101	39540	0.248	ppbv	99
13) Ethanol	3.67	45	21745	1.663	ppbv	80
15) Acetone	3.91	43	213861	1.964	ppbv	99
20) Methylene Chloride	4.42	84	116844	2.196	ppbv	89
24) 1,1-Dichloroethane	5.09	63	25295m	0.158	ppbv	
26) Hexane	5.79	57	120892	1.018	ppbv #	43
32) 1,1,1-Trichloroethane	6.62	97	201882	0.901	ppbv	99
35) Carbon Tetrachloride	7.15	117	17683	0.077	ppbv #	75
53) Toluene	9.95	91	29435	0.129	ppbv	96

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

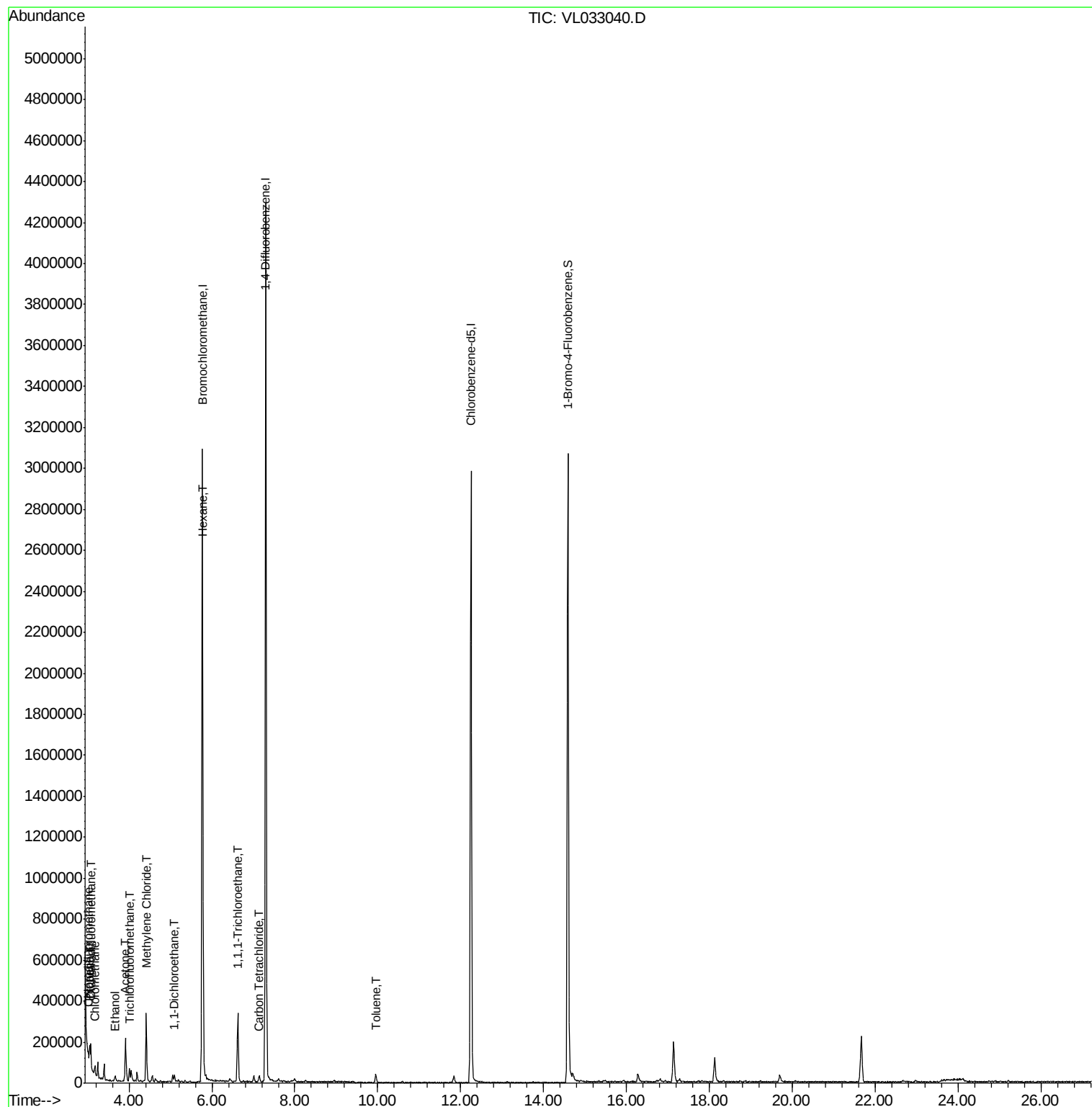
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL122018\
Data File : VL033040.D
Acq On : 21 Dec 2018 00:39
Operator : SY/AP
Sample : J6480-02
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

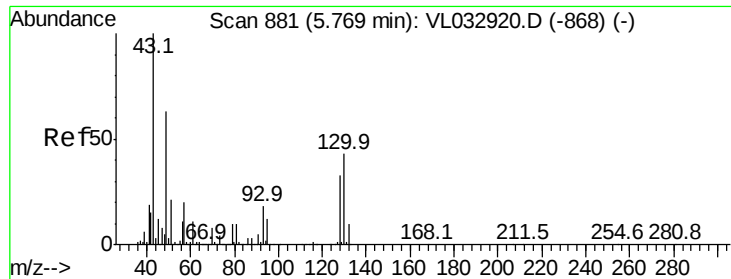
Instrument :
MSVOA_L
ClientSampleId :
MID

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12/24/2018 8:26:31 AM

Quant Time: Dec 21 06:59:09 2018
Quant Method : Z:\VOASRV\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





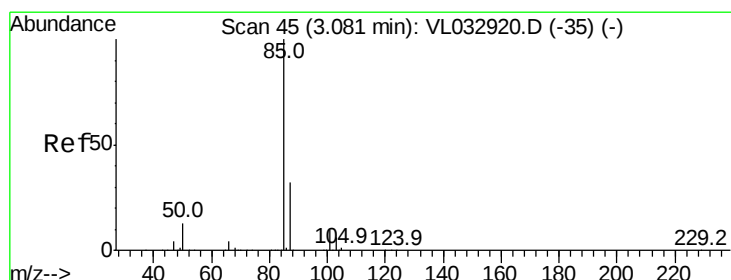
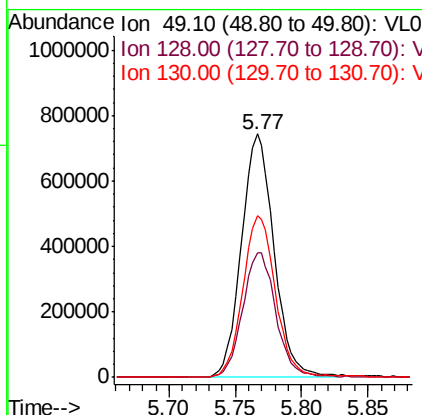
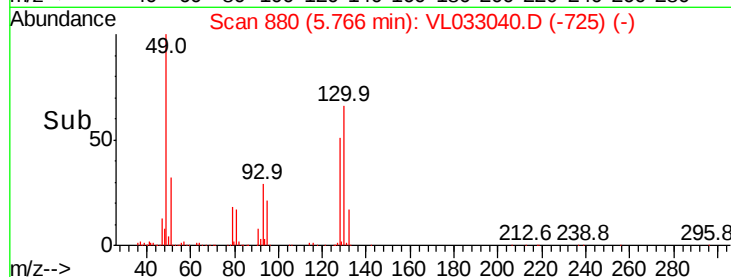
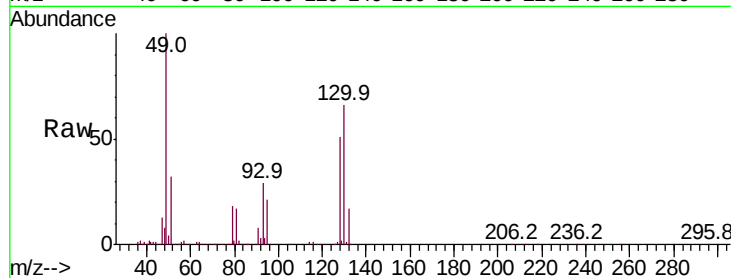
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.77 min Scan# 880
Delta R.T. -0.00 min
Lab File: VL033040.D
Acq: 21 Dec 2018 00:39

Instrument :
MSVOA_L
ClientSampleId :
MID

Tot Ion: 49 Resp: 1268483
Ion Ratio Lower Upper
49 100
128 52.6 26.3 78.8
130 67.3 33.9 101.7

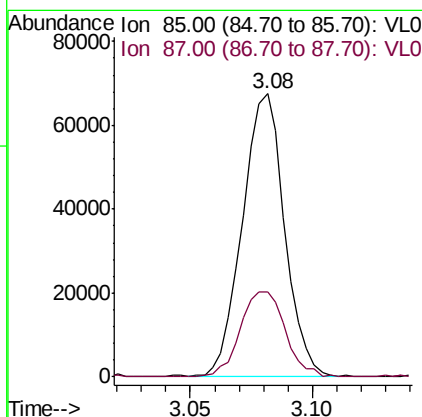
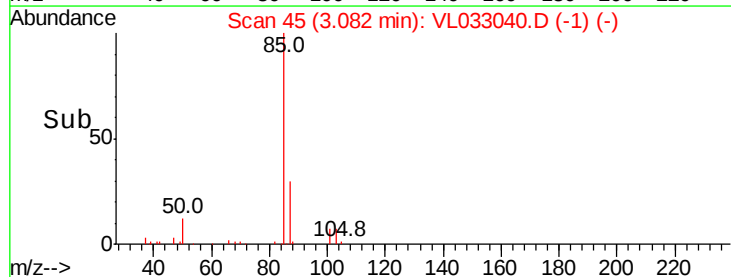
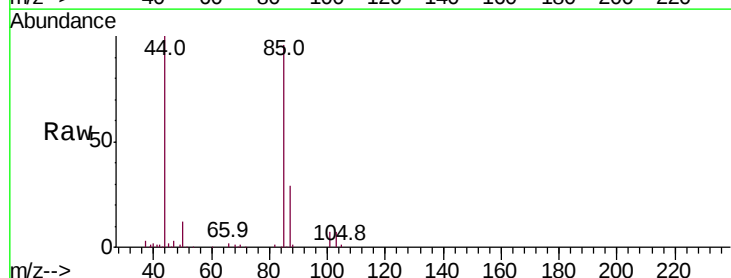
Manual Integrations
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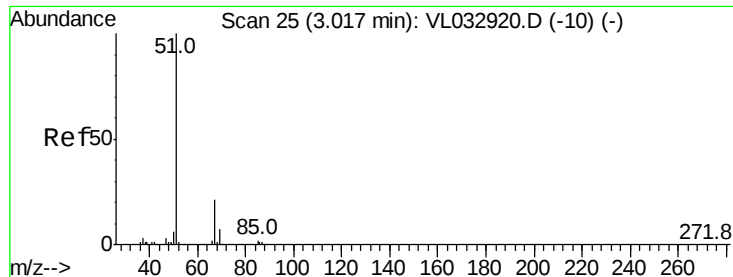
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#2
Dichlorodifluoromethane
Concen: 0.477 ppbv
RT: 3.08 min Scan# 45
Delta R.T. 0.00 min
Lab File: VL033040.D
Acq: 21 Dec 2018 00:39

Tgt Ion: 85 Resp: 80717
Ion Ratio Lower Upper
85 100
87 29.8 25.7 38.5





#3

Chlorodifluoromethane

Concen: 0.314 ppbv

RT: 3.02 min Scan# 25

Delta R.T. 0.00 min

Lab File: VL033040.D

Acq: 21 Dec 2018 00:39

Tot Ion: 51 Resp: 30171

Ion Ratio Lower Upper

51 100

67 17.4 16.8 25.2

Instrument :

MSVOA_L

ClientSampleId :

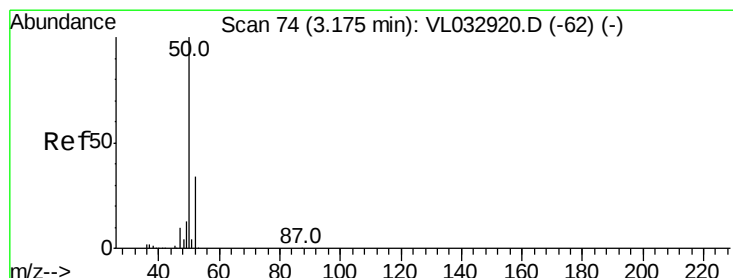
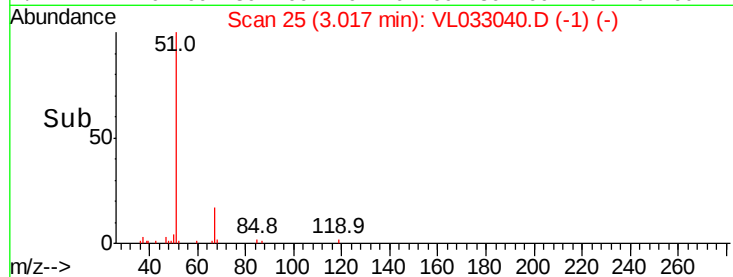
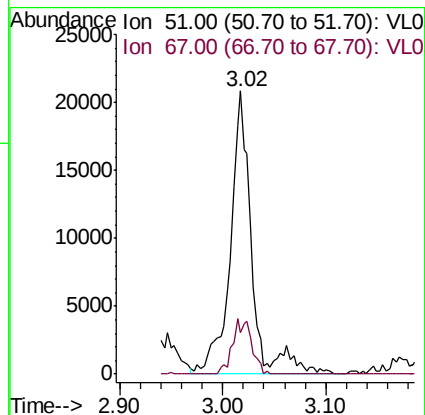
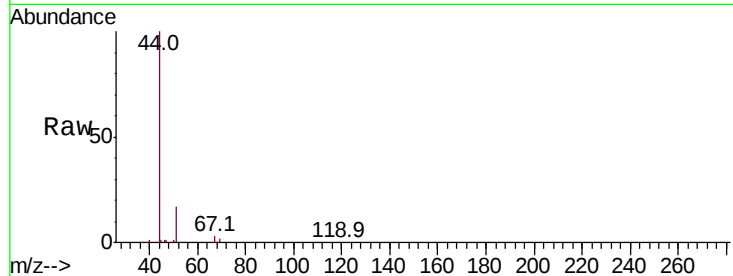
MID

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#4

Chloromethane

Concen: 0.532 ppbv

RT: 3.17 min Scan# 73

Delta R.T. -0.00 min

Lab File: VL033040.D

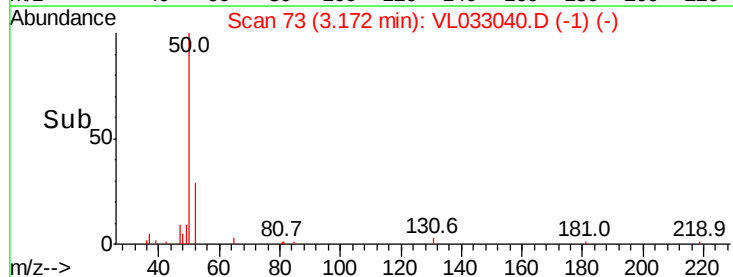
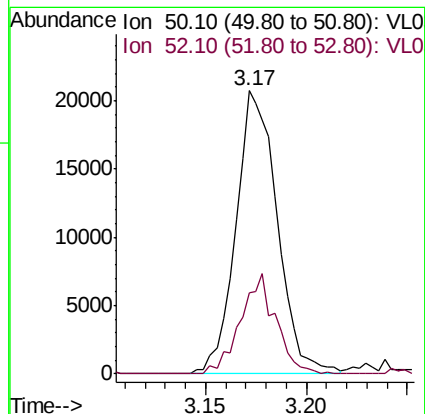
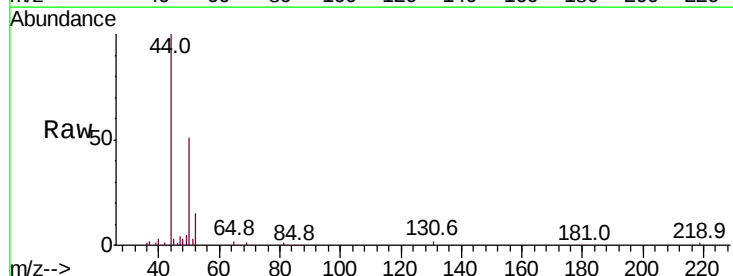
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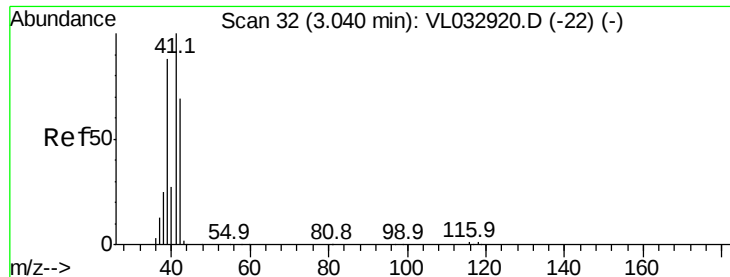
Tgt Ion: 50 Resp: 29748

Ion Ratio Lower Upper

50 100

52 28.4 27.3 40.9





#9

Propene

Concen: 0.384 ppbv m

RT: 3.05 min Scan# 36

Delta R.T. 0.01 min

Lab File: VL033040.D

Acq: 21 Dec 2018 00:39

Instrument :

MSVOA_L

ClientSampleId :

MID

Tot Ion: 41 Resp: 14579

Ion Ratio Lower Upper

41 100

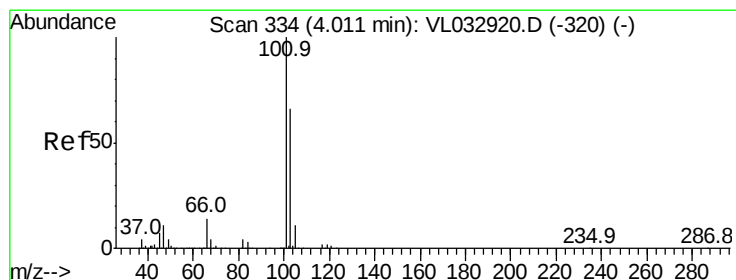
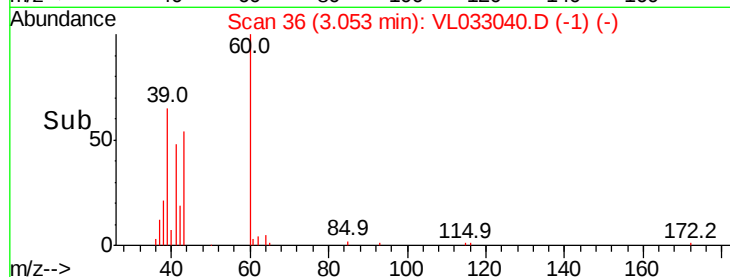
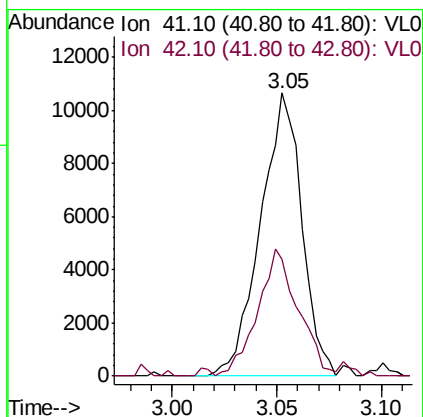
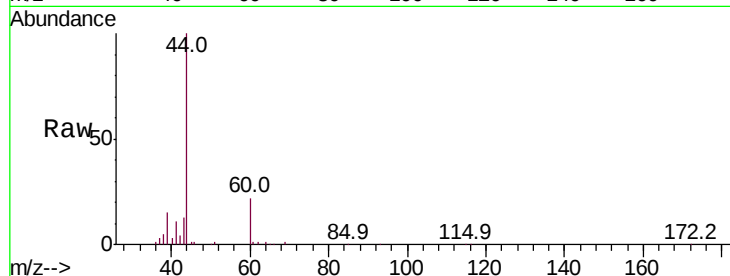
42 79.8 56.2 84.2

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#11

Trichlorofluoromethane

Concen: 0.248 ppbv

RT: 4.01 min Scan# 334

Delta R.T. 0.00 min

Lab File: VL033040.D

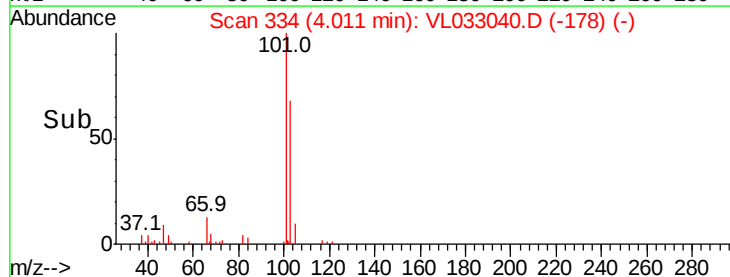
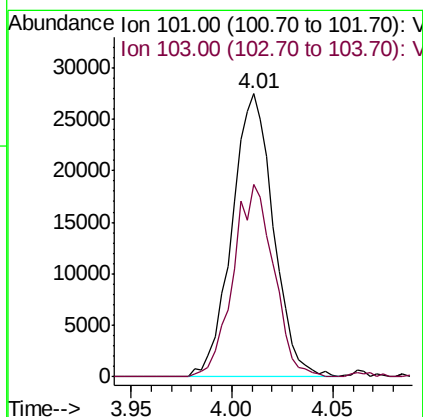
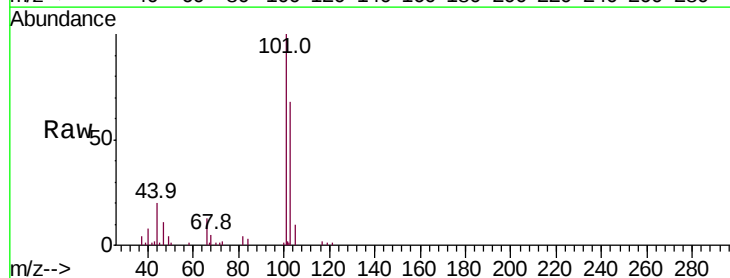
Acq: 21 Dec 2018 00:39

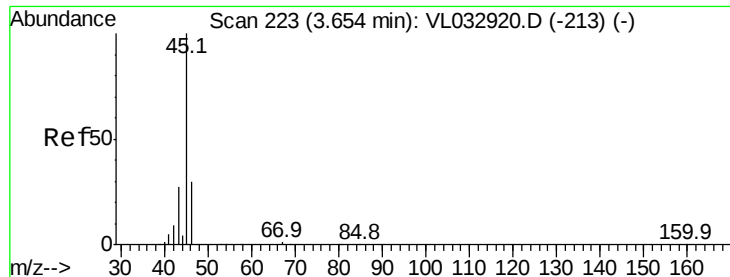
Tgt Ion: 101 Resp: 39540

Ion Ratio Lower Upper

101 100

103 66.8 52.7 79.1





#13

Ethanol

Concen: 1.663 ppbv

RT: 3.67 min Scan# 227

Delta R.T. 0.01 min

Lab File: VL033040.D

Acq: 21 Dec 2018 00:39

Instrument :

MSVOA_L

ClientSampleId :

MID

Tot Ion: 45 Resp: 21745

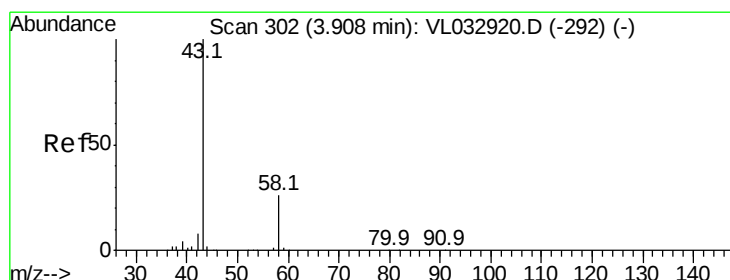
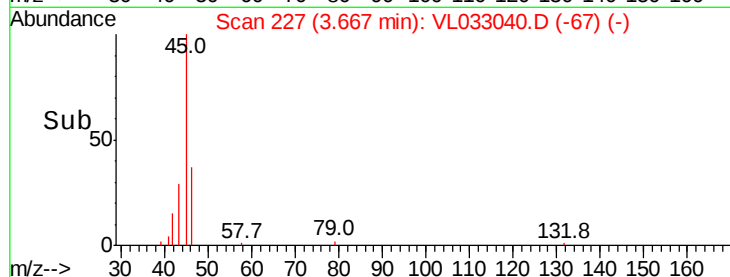
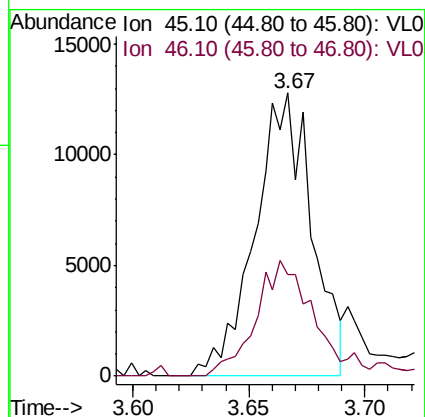
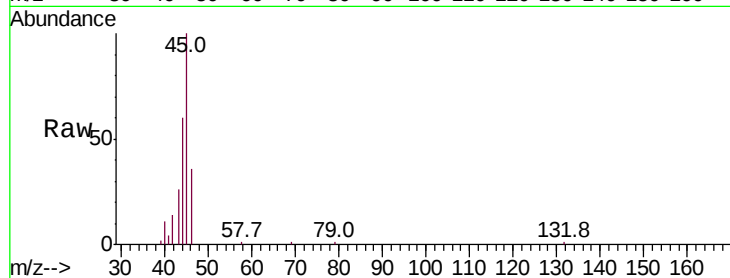
Ion Ratio Lower Upper

45 100

46 46.1 13.8 55.4

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#15

Acetone

Concen: 1.964 ppbv

RT: 3.91 min Scan# 303

Delta R.T. 0.00 min

Lab File: VL033040.D

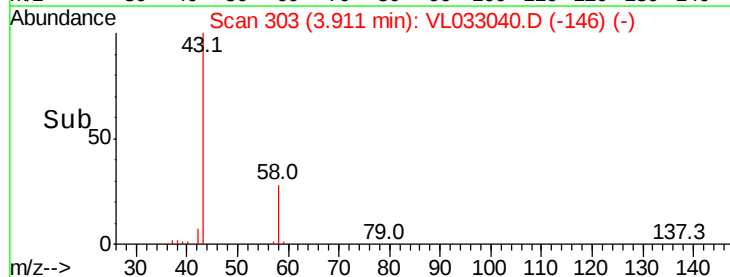
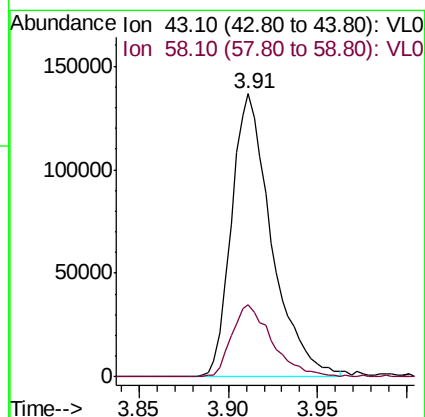
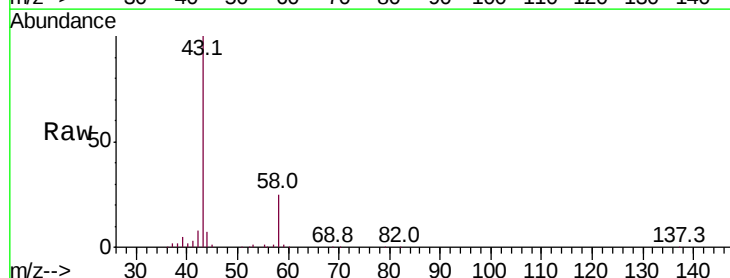
Acq: 21 Dec 2018 00:39

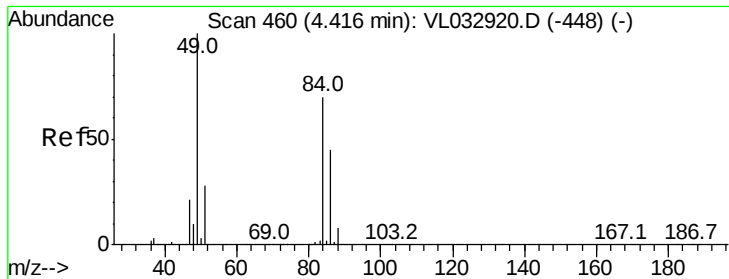
Tgt Ion: 43 Resp: 213861

Ion Ratio Lower Upper

43 100

58 26.2 20.6 30.8





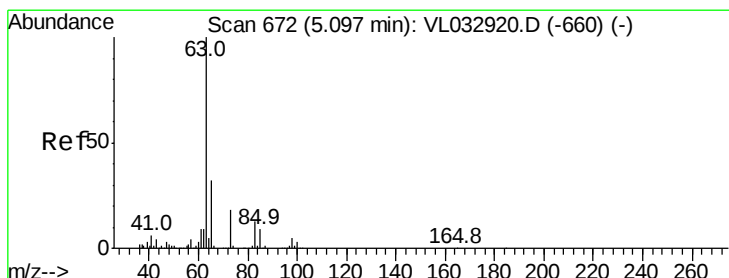
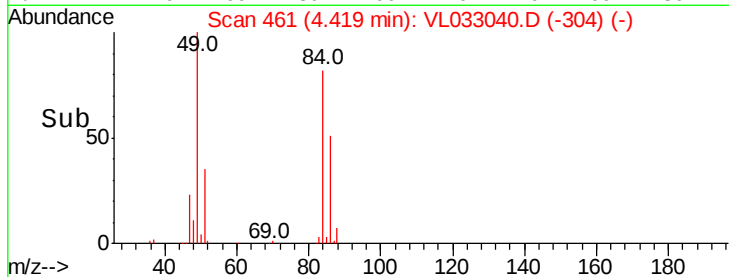
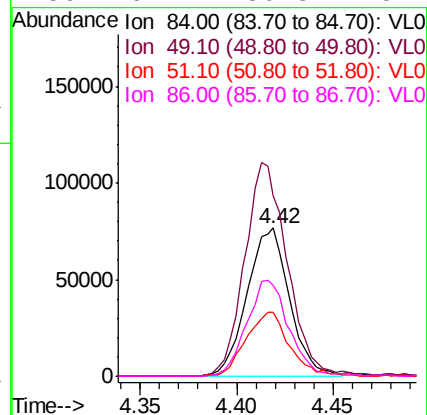
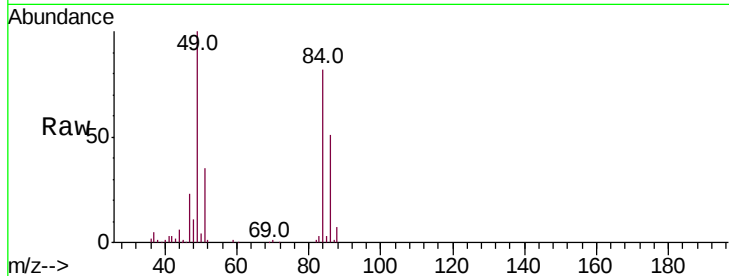
#20
Methvlene Chloride
Concen: 2.196 ppbv
RT: 4.42 min Scan# 461
Delta R.T. 0.00 min
Lab File: VL033040.D
Acq: 21 Dec 2018 00:39

Instrument :
MSVOA_L
ClientSampleId :
MID

Tot Ion	Ratio	Lower	Upper
84	100		
49	121.5	113.8	170.8
51	42.9	31.8	47.8
86	61.7	50.8	76.2

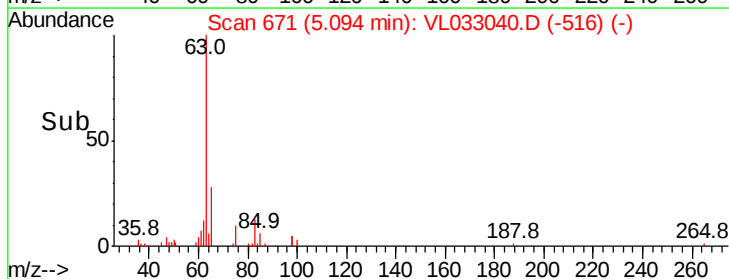
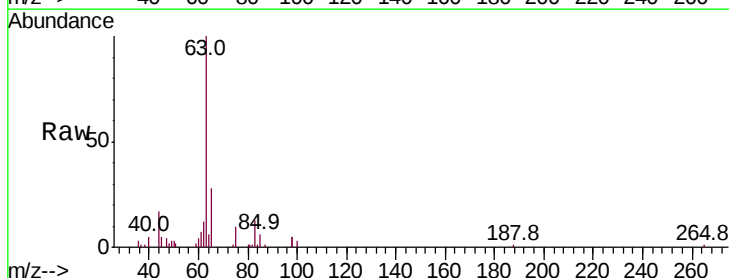
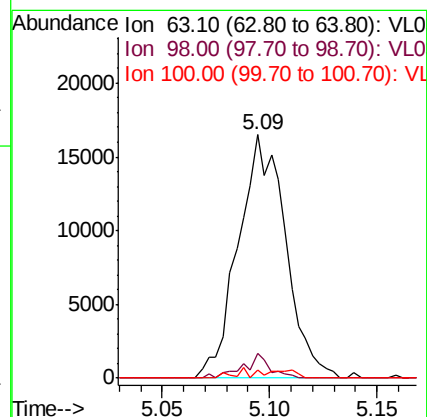
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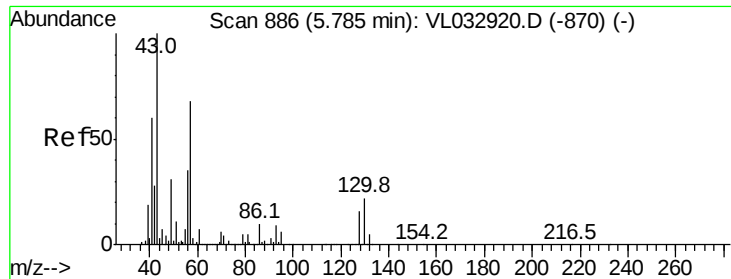
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#24
1,1-Dichloroethane
Concen: 0.158 ppbv m
RT: 5.09 min Scan# 671
Delta R.T. -0.00 min
Lab File: VL033040.D
Acq: 21 Dec 2018 00:39

Tgt Ion	Ratio	Lower	Upper
63	100		
98	5.3	2.5	7.5
100	3.4	1.4	4.2





#26

Hexane

Concen: 1.018 ppbv

RT: 5.79 min Scan# 886

Delta R.T. 0.00 min

Lab File: VL033040.D

Acq: 21 Dec 2018 00:39

Instrument :

MSVOA_L

ClientSampleId :

MID

Tot Ion: 57 Resp: 120892

Ion Ratio Lower Upper

57 100

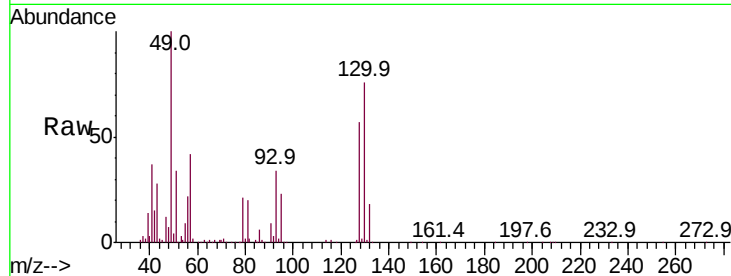
41 100.4 72.2 108.2

43 73.8 171.9 257.9#

56 56.8 42.2 63.2

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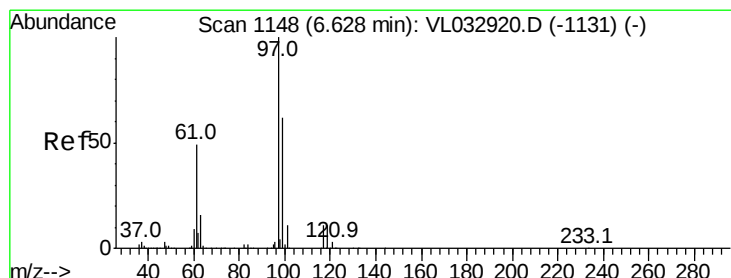
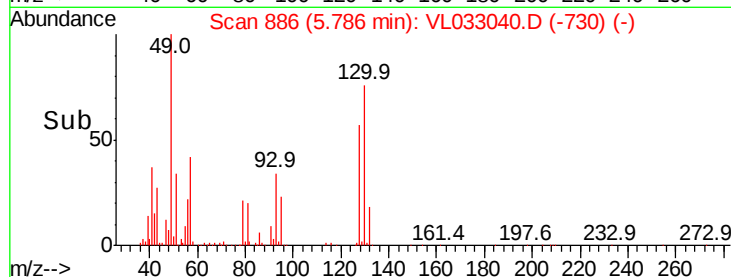
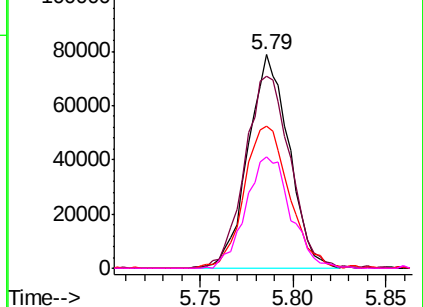


Abundance Ion 57.10 (56.80 to 57.80): VL0

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



#32

1,1,1-Trichloroethane

Concen: 0.901 ppbv

RT: 6.62 min Scan# 1146

Delta R.T. -0.01 min

Lab File: VL033040.D

Acq: 21 Dec 2018 00:39

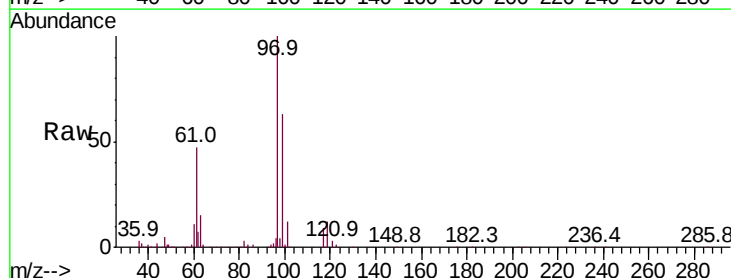
Tgt Ion: 97 Resp: 201882

Ion Ratio Lower Upper

97 100

99 65.3 51.1 76.7

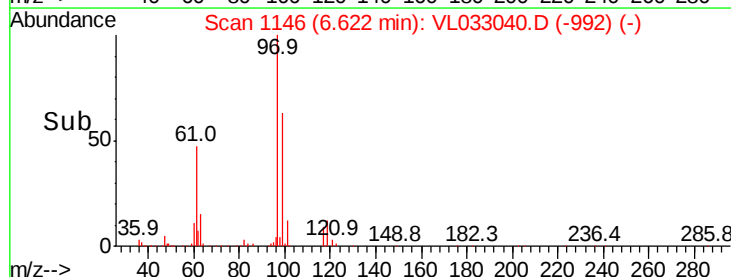
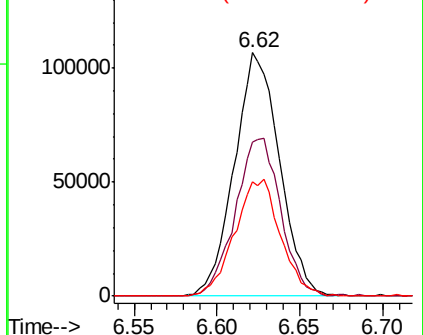
61 48.6 39.3 58.9

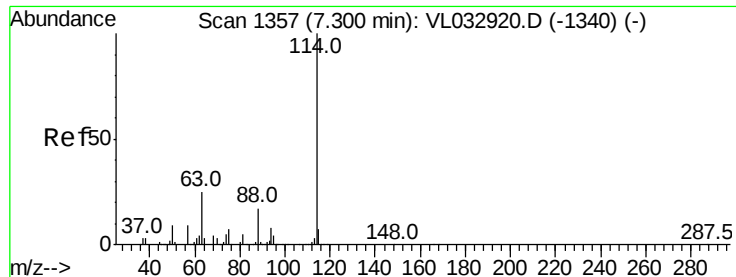


Abundance Ion 97.00 (96.70 to 97.70): VL0

Ion 99.00 (98.70 to 99.70): VL0

Ion 61.10 (60.80 to 61.80): VL0





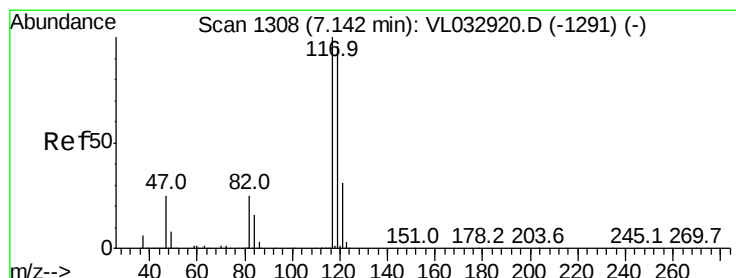
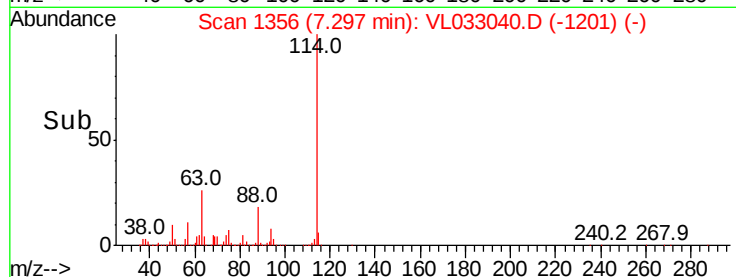
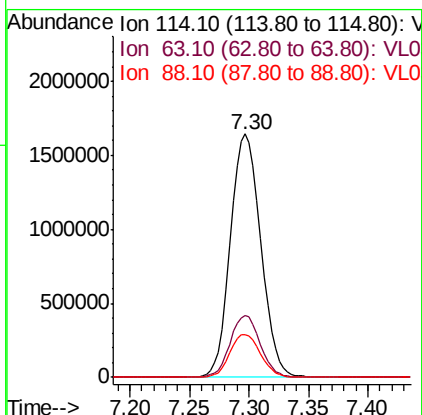
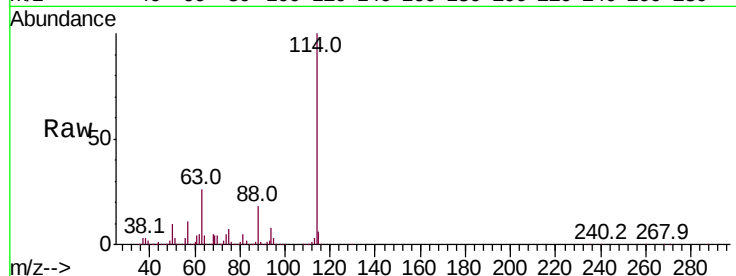
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.30 min Scan# 1356
 Delta R.T. -0.00 min
 Lab File: VL033040.D
 Acq: 21 Dec 2018 00:39

Instrument :
 MSVOA_L
 ClientSampleId :
 MID

Tot Ion	Ratio	Lower	Upper
114	100		
63	25.2	20.1	30.1
88	17.7	14.2	21.4

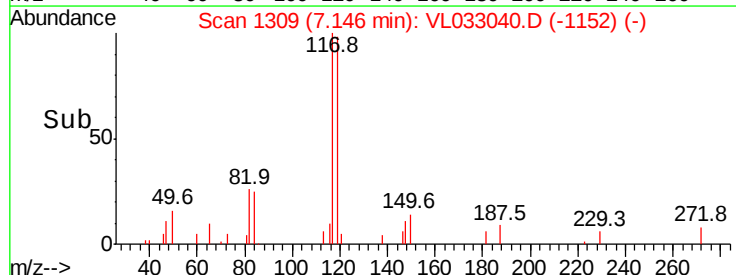
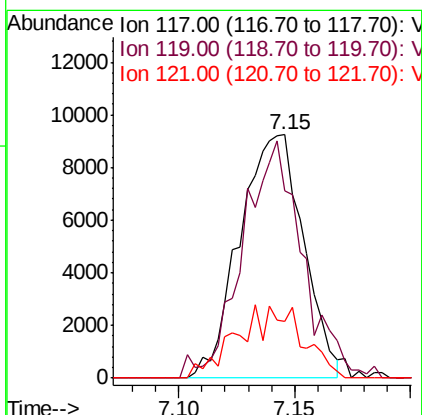
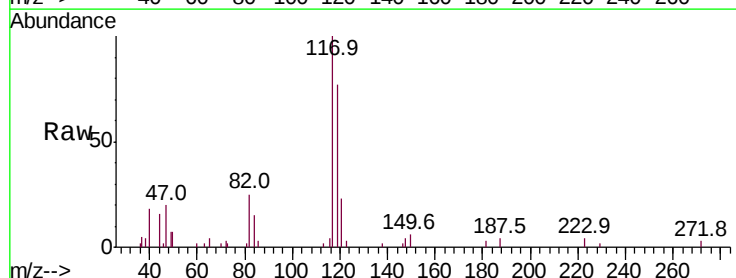
Manual Integrations
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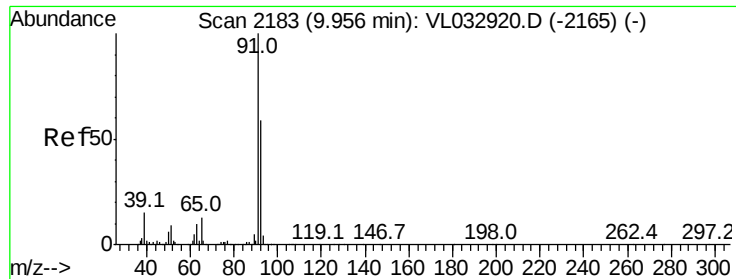
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 12/24/2018 8:26:31 AM



#35
 Carbon Tetrachloride
 Concen: 0.077 ppbv
 RT: 7.15 min Scan# 1309
 Delta R.T. 0.00 min
 Lab File: VL033040.D
 Acq: 21 Dec 2018 00:39

Tgt Ion	Ratio	Lower	Upper
117	100		
119	67.7	76.5	114.7#
121	23.3	24.5	36.7#





#53

Toluene

Concen: 0.129 ppbv

RT: 9.95 min Scan# 2182

Delta R.T. -0.00 min

Lab File: VL033040.D

Acq: 21 Dec 2018 00:39

Instrument :

MSVOA_L

ClientSampleId :

MID

Tot Ion: 91 Resp: 29435

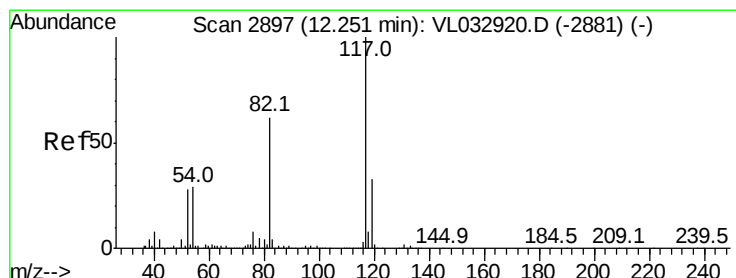
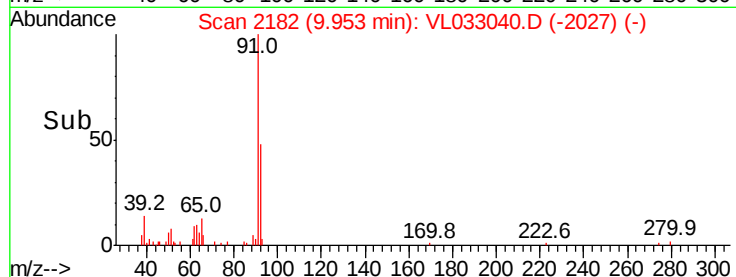
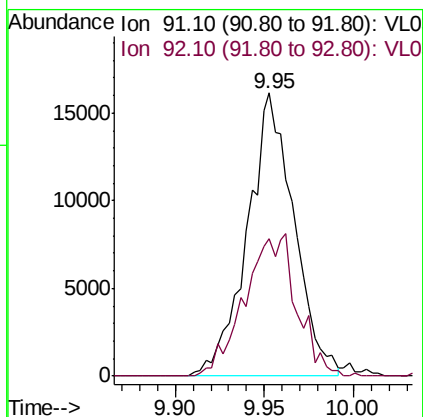
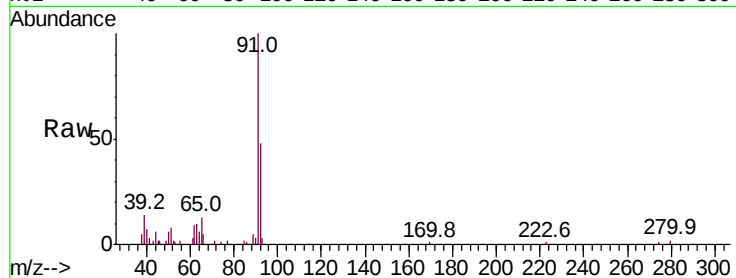
Ion Ratio Lower Upper

91 100

92 56.0 47.4 71.0

Manual Integrations
APPROVED

MMDadoda
12/24/2018 8:26:31 AM



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.25 min Scan# 2896

Delta R.T. -0.00 min

Lab File: VL033040.D

Acq: 21 Dec 2018 00:39

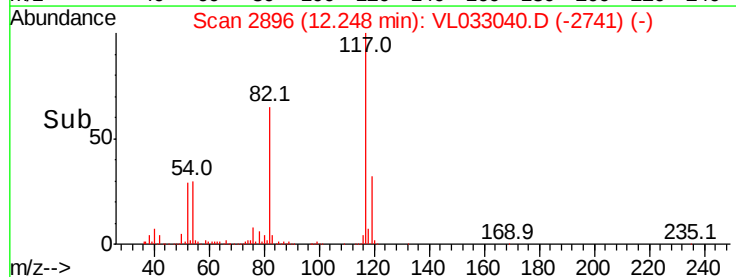
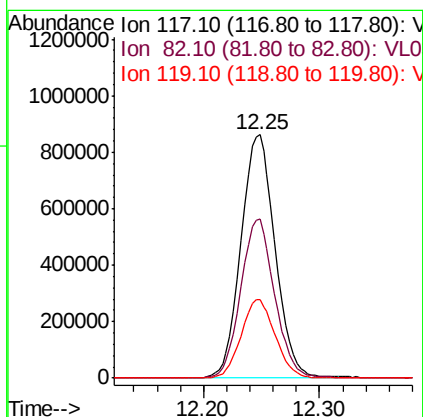
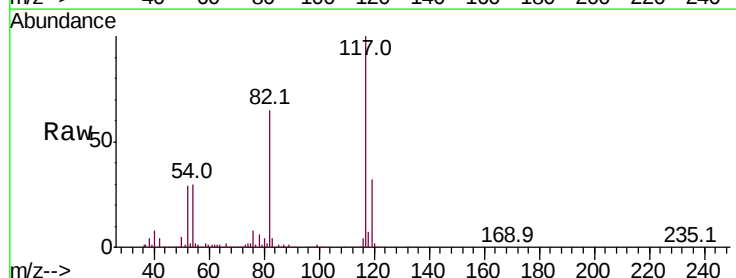
Tgt Ion: 117 Resp: 1766223

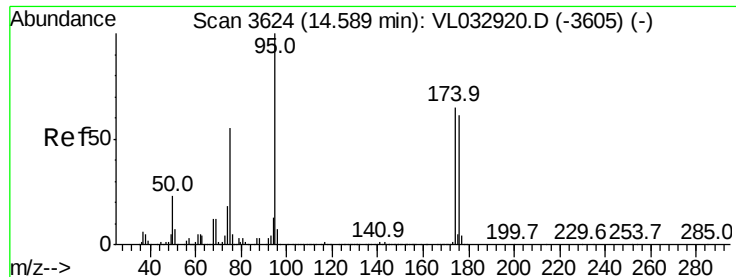
Ion Ratio Lower Upper

117 100

82 65.2 47.8 71.8

119 32.4 43.1 64.7#





#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.782 ppbv
 RT: 14.58 min Scan# 3622
 Delta R.T. -0.01 min
 Lab File: VL033040.D
 Acq: 21 Dec 2018 00:39

Instrument :
 MSVOA_L
 ClientSampleId :
 MID

Tot Ion	Ratio	Lower	Upper
95	100		
174	65.0	51.4	77.0
175	4.8	3.8	5.6

Manual Integrations
 APPROVED

MMDadoda
 12/24/2018 8:26:31 AM

