

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL101118\
 Data File : VL032609.D
 Acq On : 11 Oct 2018 18:03
 Operator : SY/AP
 Sample : J5370-05
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 AMBIENT-SVI-100518

Manual Integrations
 APPROVED

MMDadoda
 10/12/2018 2:07:33 PM

Quant Time: Oct 12 12:11:06 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL092418AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Oct 08 2018
 QLast Update : Mon Oct 01 06:49:26 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.79	49	1331786	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.32	114	2687016	10.00	ppbv	-0.03
55) Chlorobenzene-d5	12.27	117	2962683	10.00	ppbv	-0.03

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1-Bromo-4-Fluorobenzene		14.61	95	2164747	9.69	ppbv	-0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.90%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.09	85	25629	0.208	ppbv	91
3) Chlorodifluoromethane	3.03	51	28408	0.257	ppbv	99
4) Chloromethane	3.19	50	30151	0.467	ppbv	98
9) Propene	3.05	41	468716	9.754	ppbv	95
11) Trichlorofluoromethane	4.02	101	30567	0.209	ppbv	89
13) Ethanol	3.67	45	238248	16.495	ppbv	97
15) Acetone	3.91	43	5032978	43.053	ppbv	92
17) tert-Butyl alcohol	4.38	59	79540	5.415	ppbv #	100
19) Isopropyl Alcohol	4.05	45	46603	0.572	ppbv #	93
20) Methylene Chloride	4.43	84	83794	1.480	ppbv	92
26) Hexane	5.80	57	170815	1.333	ppbv #	46
34) 2-Butanone	5.35	43	3608805	22.553	ppbv	99
35) Carbon Tetrachloride	7.16	117	14473m	0.078	ppbv	
36) Benzene	7.04	78	91614	0.422	ppbv	97
51) 2-Hexanone	10.30	43	818761	3.936	ppbv #	100
53) Toluene	9.98	91	203558	0.769	ppbv	100

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

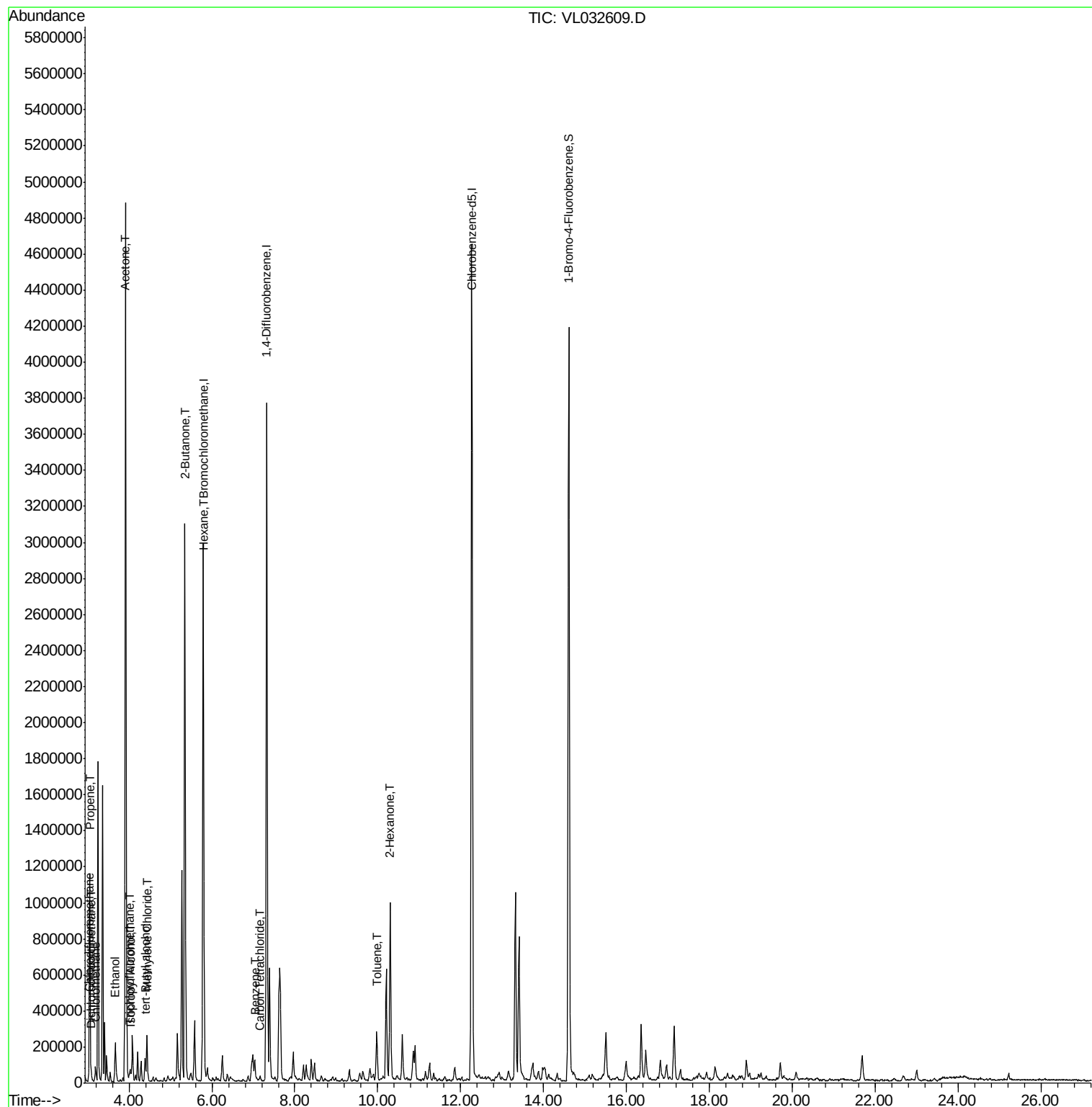
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL101118\
Data File : VL032609.D
Acq On : 11 Oct 2018 18:03
Operator : SY/AP
Sample : J5370-05
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

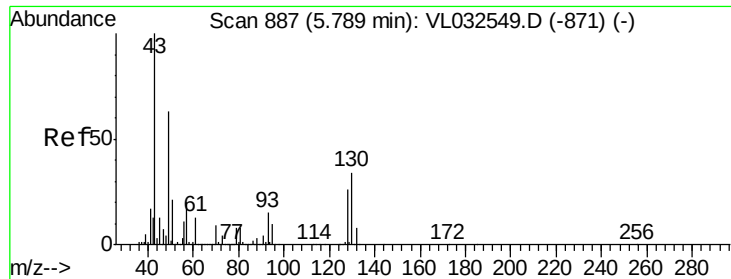
Instrument :
MSVOA_L
ClientSampleId :
AMBIENT-SVI-100518

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MMDadoda
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Quant Time: Oct 12 12:11:06 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL092418AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Oct
QLast Update : Mon Oct 01 06:49:26 2018
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.79 min Scan# 887

Delta R.T. -0.02 min

Lab File: VL032609.D

Acq: 11 Oct 2018 18:03

Instrument :

MSVOA_L

ClientSampleId :

AMBIENT-SVI-100518

Tot Ion: 49 Resp: 1331786

Ion Ratio Lower Upper

49 100

128 42.7 20.7 62.1

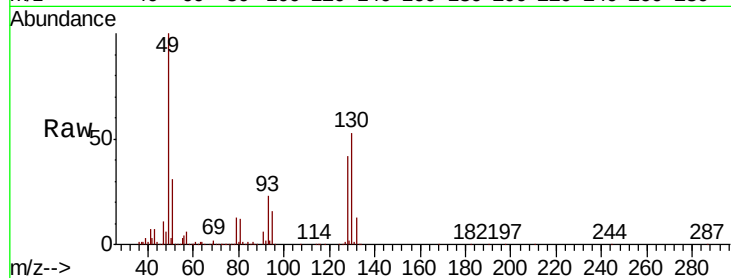
130 54.6 26.6 79.7

Manual Integrations

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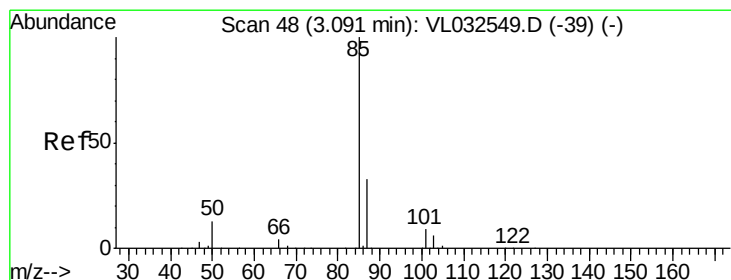
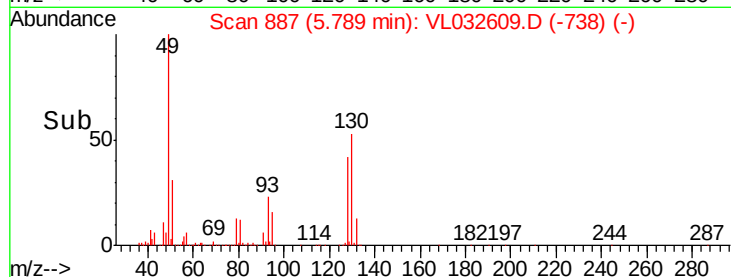
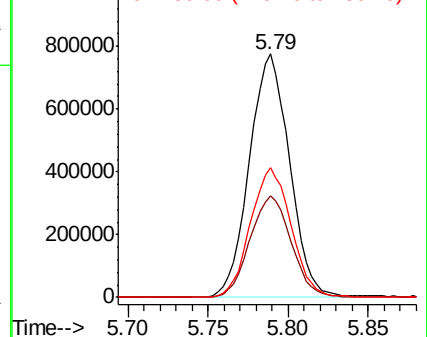


Abundance

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: 0.208 ppbv

RT: 3.09 min Scan# 48

Delta R.T. -0.02 min

Lab File: VL032609.D

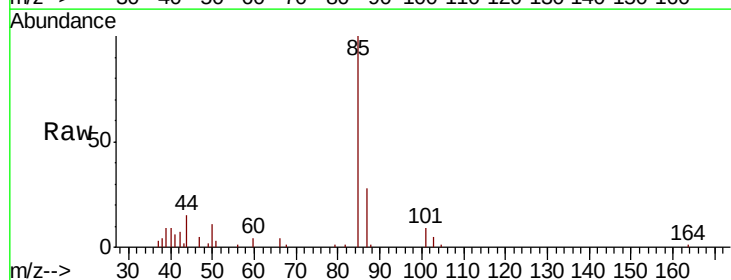
Acq: 11 Oct 2018 18:03

Tgt Ion: 85 Resp: 25629

Ion Ratio Lower Upper

85 100

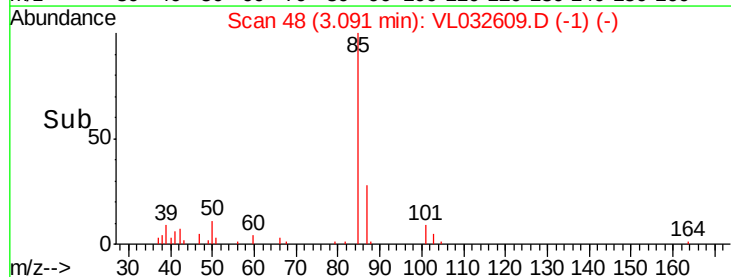
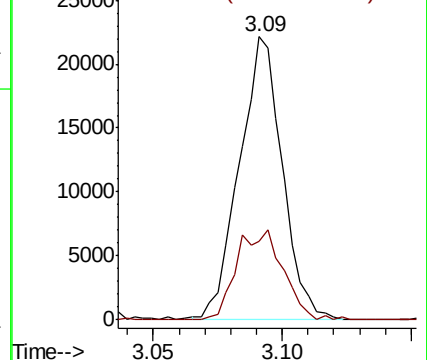
87 27.7 26.2 39.4

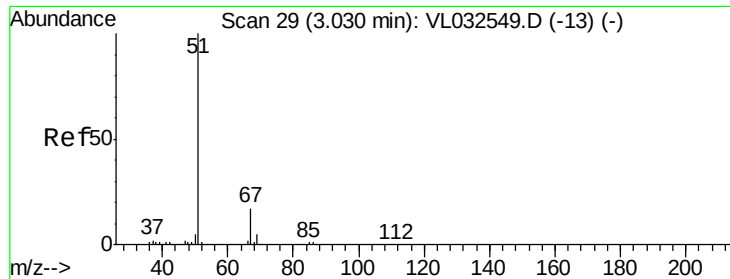


Abundance

Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.257 ppbv

RT: 3.03 min Scan# 28

Delta R.T. -0.02 min

Lab File: VL032609.D

Acq: 11 Oct 2018 18:03

Instrument :

MSVOA_L

ClientSampleId :

AMBIENT-SVI-100518

Tot Ion: 51 Resp: 28408

Ion Ratio Lower Upper

51 100

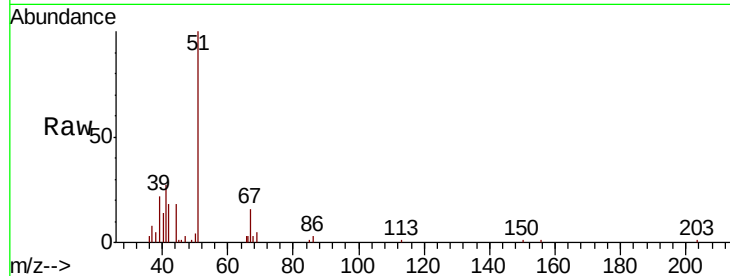
67 16.9 13.8 20.8

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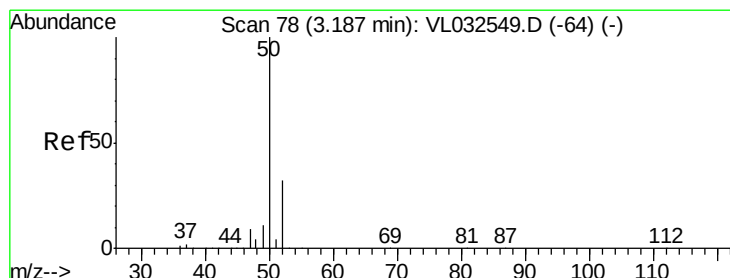
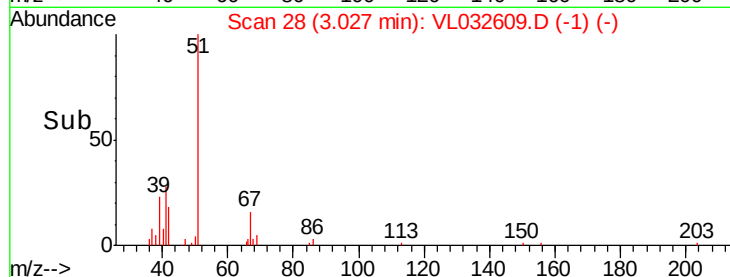
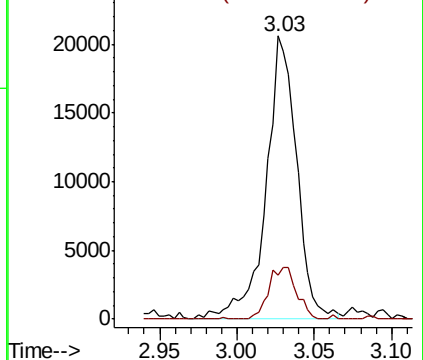
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.467 ppbv

RT: 3.19 min Scan# 79

Delta R.T. -0.01 min

Lab File: VL032609.D

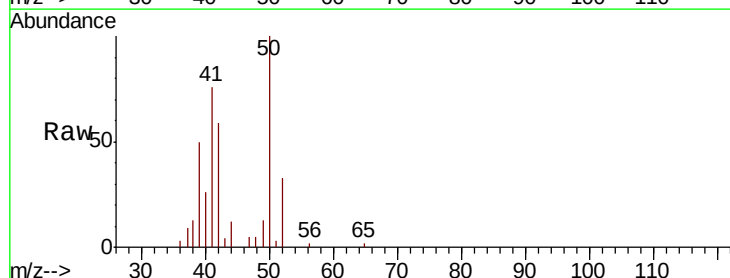
Acq: 11 Oct 2018 18:03

Tgt Ion: 50 Resp: 30151

Ion Ratio Lower Upper

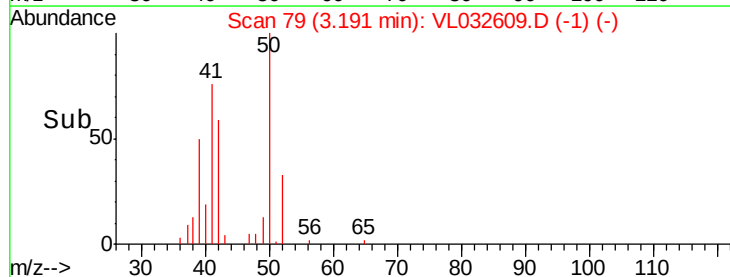
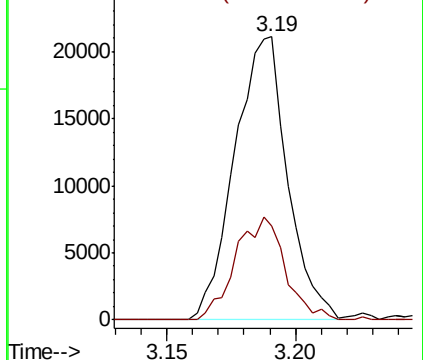
50 100

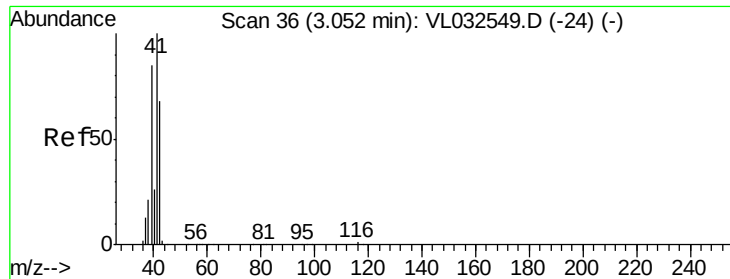
52 33.1 25.6 38.4



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 9.754 ppbv

RT: 3.05 min Scan# 36

Delta R.T. -0.01 min

Lab File: VL032609.D

Acq: 11 Oct 2018 18:03

Instrument :

MSVOA_L

ClientSampleId :

AMBIENT-SVI-100518

Tot Ion: 41 Resp: 468716

Ion Ratio Lower Upper

41 100

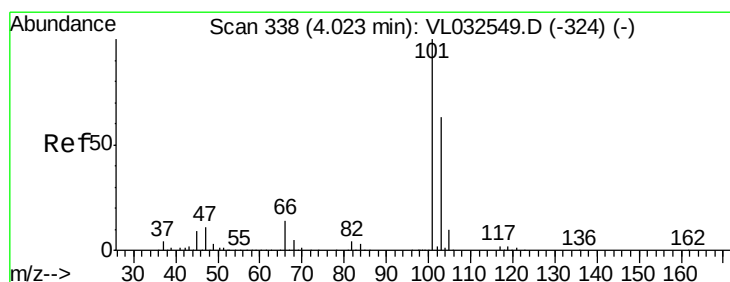
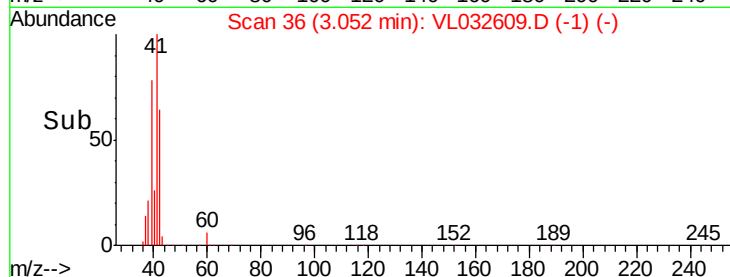
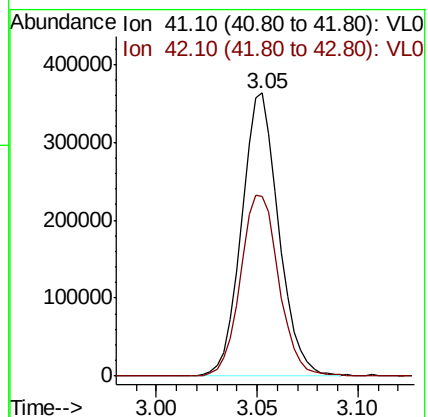
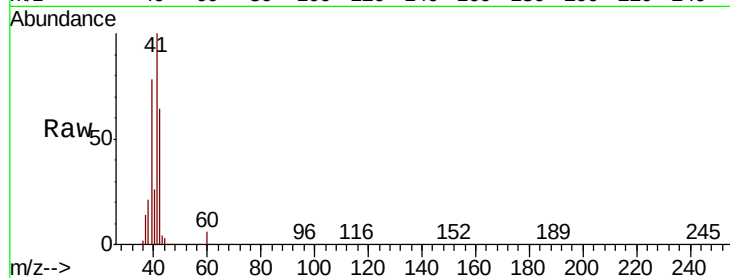
42 66.5 56.6 84.8

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#11

Trichlorofluoromethane

Concen: 0.209 ppbv

RT: 4.02 min Scan# 338

Delta R.T. -0.02 min

Lab File: VL032609.D

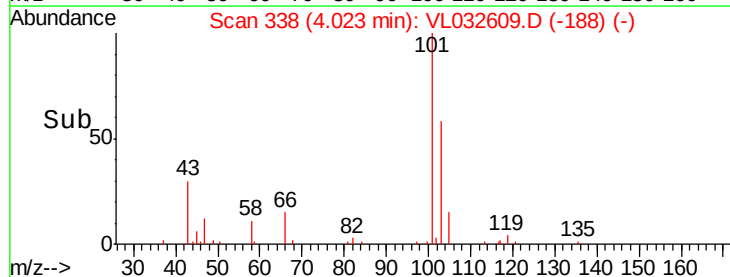
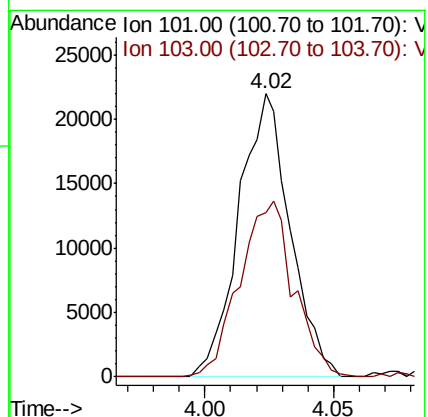
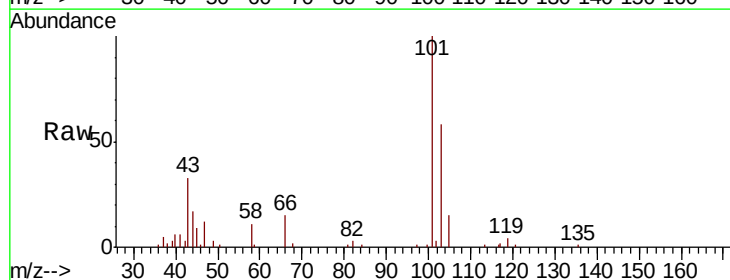
Acq: 11 Oct 2018 18:03

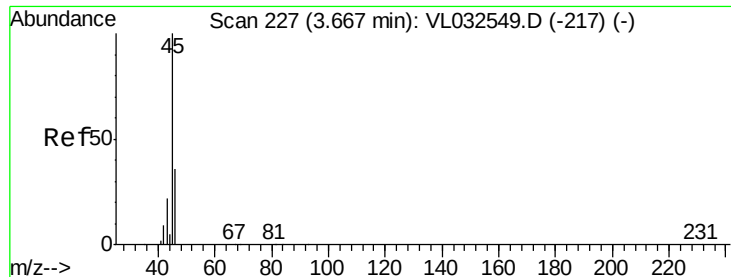
Tgt Ion: 101 Resp: 30567

Ion Ratio Lower Upper

101 100

103 57.3 52.8 79.2





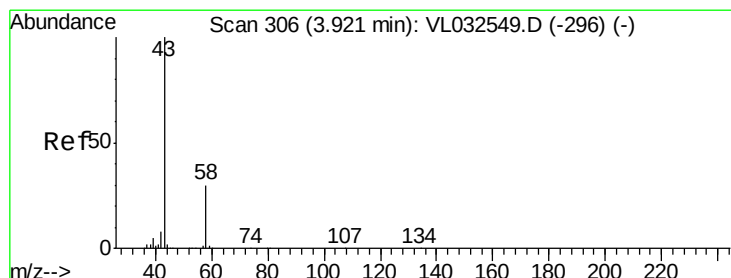
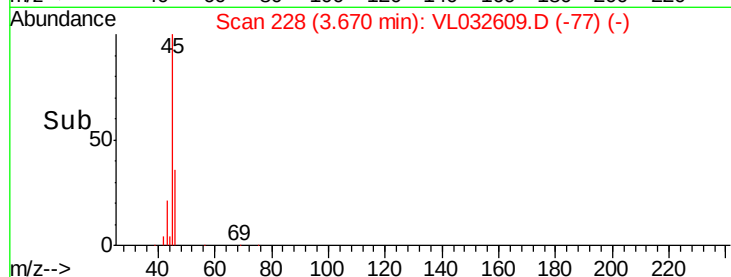
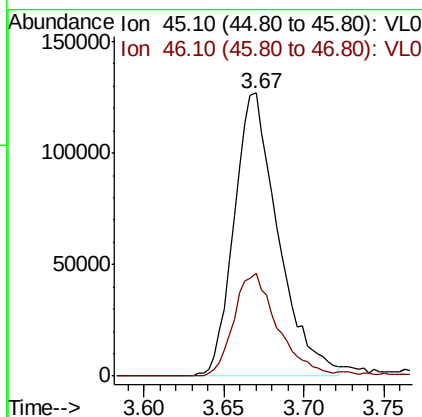
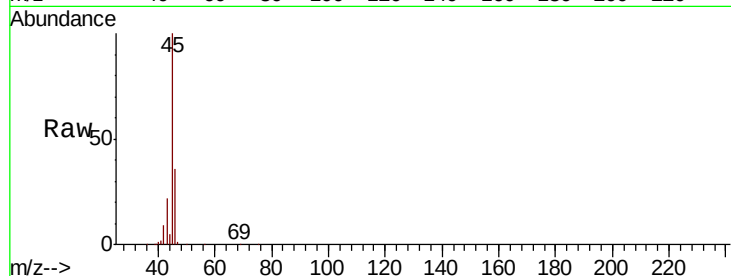
#13
Ethanol
Concen: 16.495 ppbv
RT: 3.67 min Scan# 228
Delta R.T. -0.01 min
Lab File: VL032609.D
Acq: 11 Oct 2018 18:03

Instrument :
MSVOA_L
ClientSampleId :
AMBIENT-SVI-100518

Tot Ion: 45 Resp: 238248
Ion Ratio Lower Upper
45 100
46 37.2 14.2 56.8

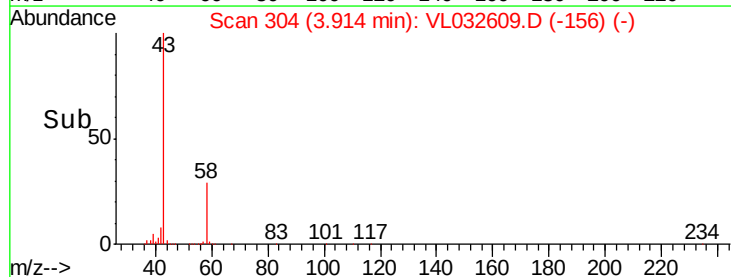
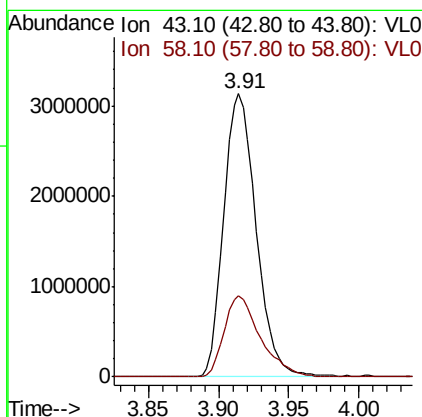
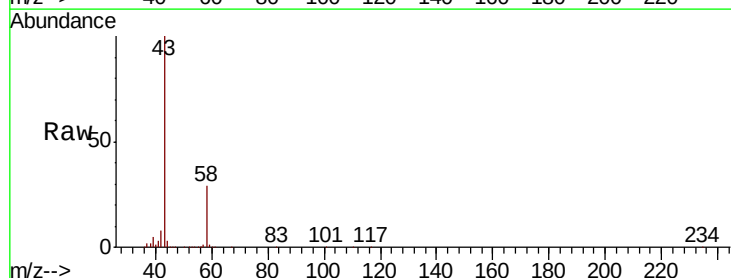
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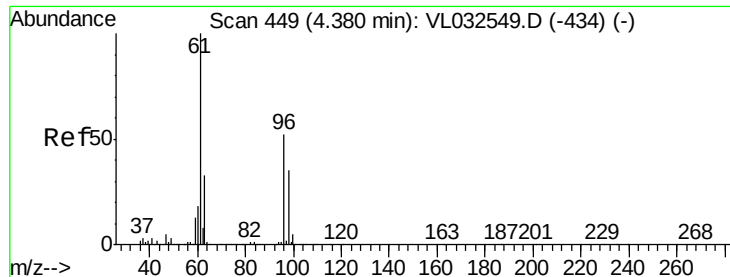
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#15
Acetone
Concen: 43.053 ppbv
RT: 3.91 min Scan# 304
Delta R.T. -0.02 min
Lab File: VL032609.D
Acq: 11 Oct 2018 18:03

Tgt Ion: 43 Resp: 5032978
Ion Ratio Lower Upper
43 100
58 32.5 22.6 33.8





#17

tert-Butyl alcohol

Concen: 5.415 ppbv

RT: 4.38 min Scan# 450

Delta R.T. -0.02 min

Lab File: VL032609.D

Acq: 11 Oct 2018 18:03

Instrument :

MSVOA_L

ClientSampleId :

AMBIENT-SVI-100518

Tot Ion: 59 Resp: 79540

Ion Ratio Lower Upper

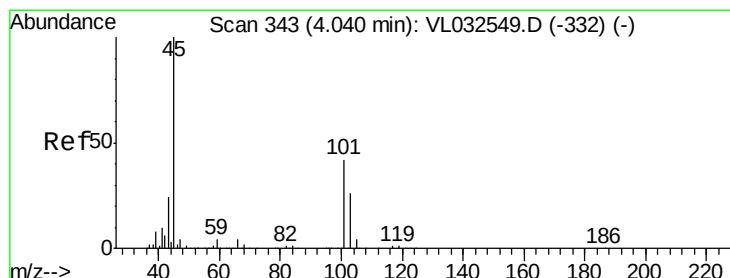
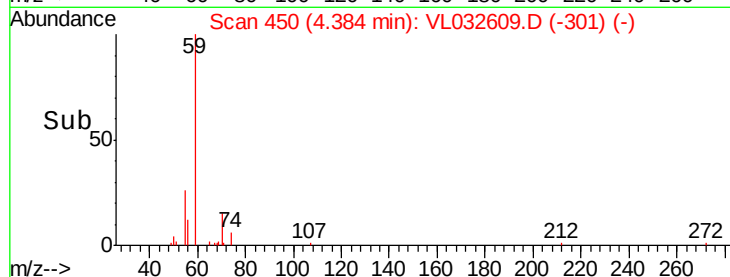
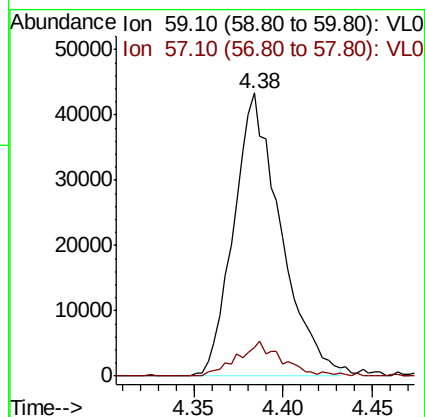
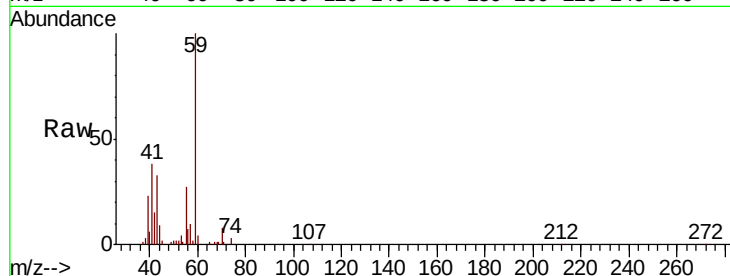
59 100

57 11.8 0.0 0.0#

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#19

Isopropyl Alcohol

Concen: 0.572 ppbv

RT: 4.05 min Scan# 345

Delta R.T. -0.01 min

Lab File: VL032609.D

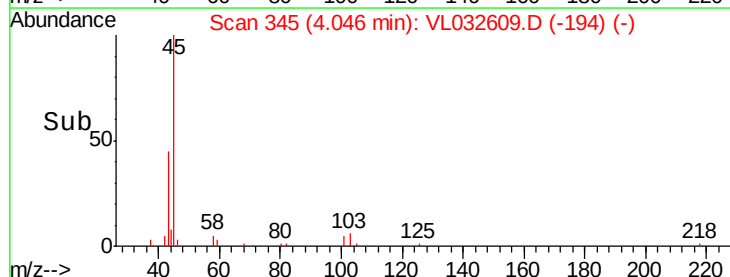
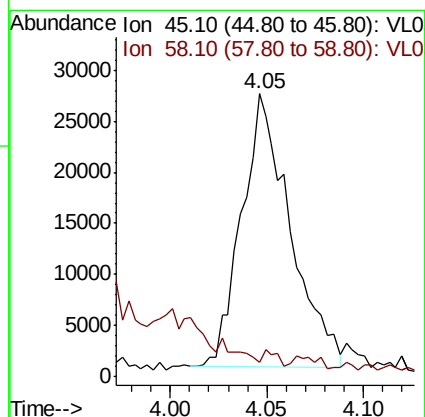
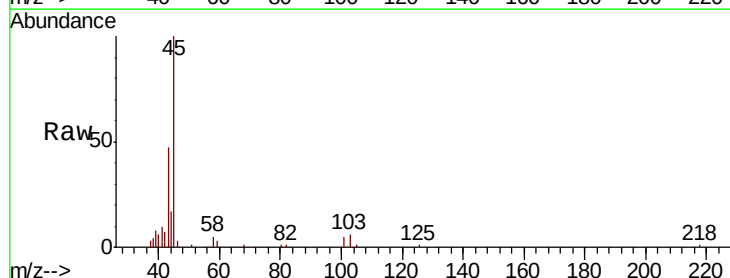
Acq: 11 Oct 2018 18:03

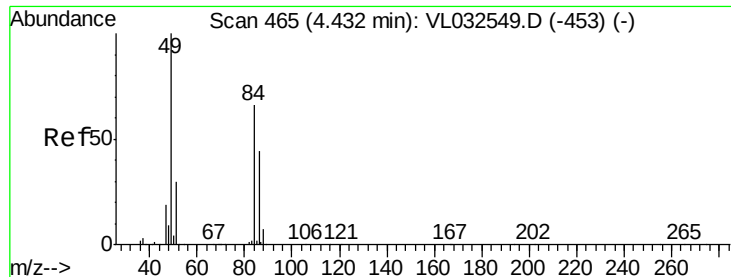
Tgt Ion: 45 Resp: 46603

Ion Ratio Lower Upper

45 100

58 0.0 2.0 3.0#





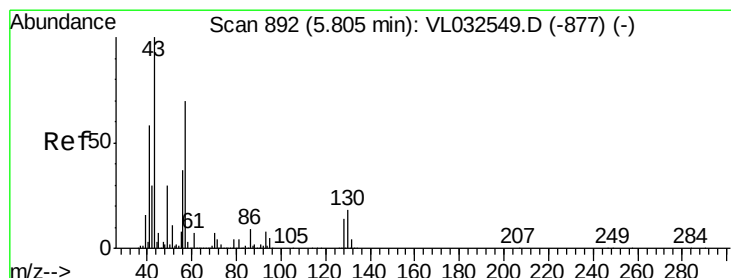
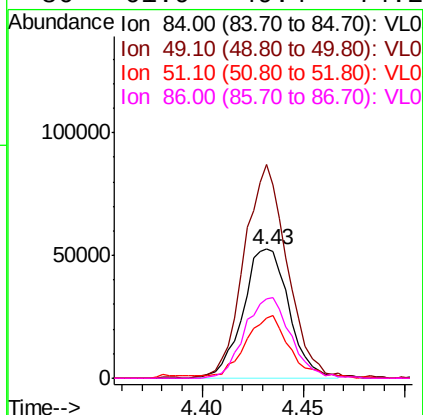
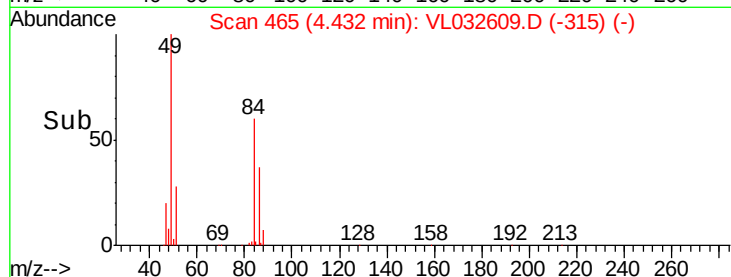
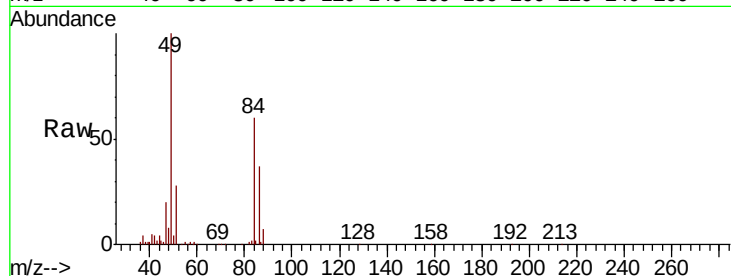
#20
Methvlene Chloride
Concen: 1.480 ppbv
RT: 4.43 min Scan# 465
Delta R.T. -0.02 min
Lab File: VL032609.D
Acq: 11 Oct 2018 18:03

Instrument :
MSVOA_L
ClientSampleId :
AMBIENT-SVI-100518

Tot Ion:	84	Resp:	83794
Ion	Ratio	Lower	Upper
84	100		
49	165.9	119.1	178.7
51	45.3	35.2	52.8
86	61.9	49.4	74.2

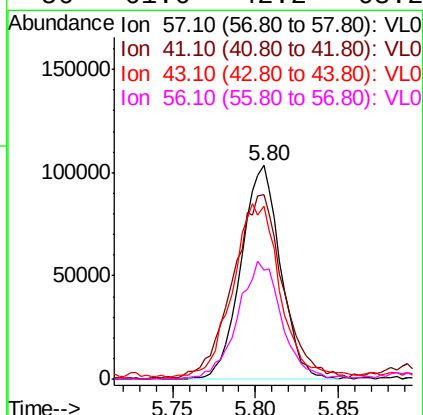
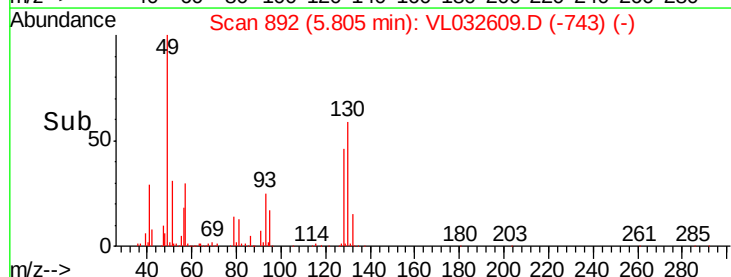
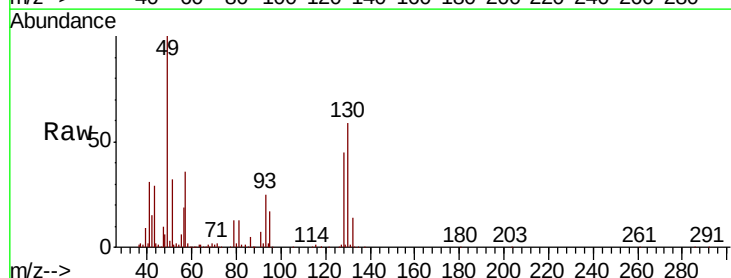
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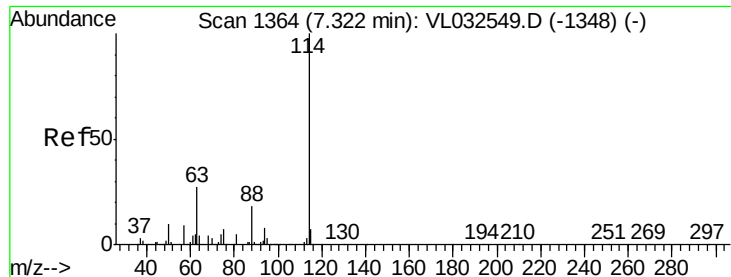
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#26
Hexane
Concen: 1.333 ppbv
RT: 5.80 min Scan# 892
Delta R.T. -0.02 min
Lab File: VL032609.D
Acq: 11 Oct 2018 18:03

Tgt Ion:	57	Resp:	170815
Ion	Ratio	Lower	Upper
57	100		
41	108.9	69.0	103.4#
43	95.6	172.1	258.1#
56	61.6	42.2	63.2





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.32 min Scan# 1363

Delta R.T. -0.03 min

Lab File: VL032609.D

Acq: 11 Oct 2018 18:03

Instrument :

MSVOA_L

ClientSampleId :

AMBIENT-SVI-100518

Tot Ion:114 Resp: 2687016

Ion Ratio Lower Upper

114 100

63 26.7 22.2 33.4

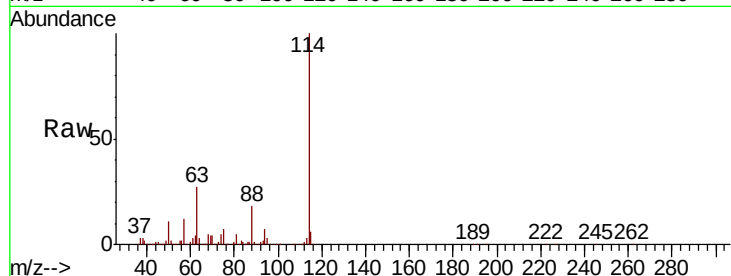
88 18.6 15.0 22.4

Manual Integrations

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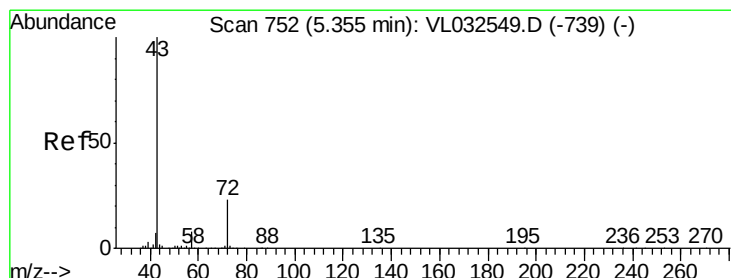
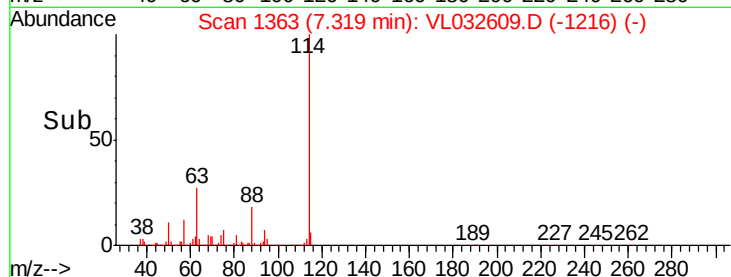
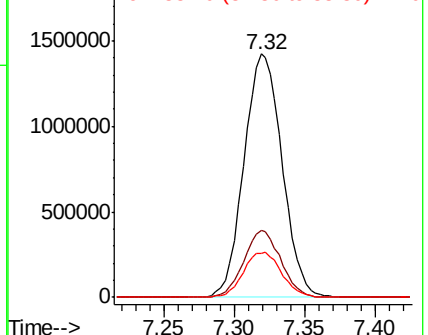
10/12/2018 2:07:33 PM



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: 22.553 ppbv

RT: 5.35 min Scan# 750

Delta R.T. -0.02 min

Lab File: VL032609.D

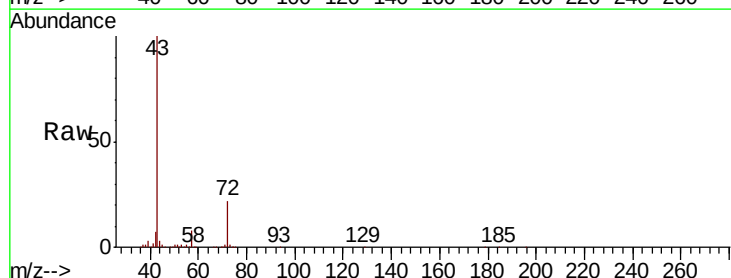
Acq: 11 Oct 2018 18:03

Tgt Ion: 43 Resp: 3608805

Ion Ratio Lower Upper

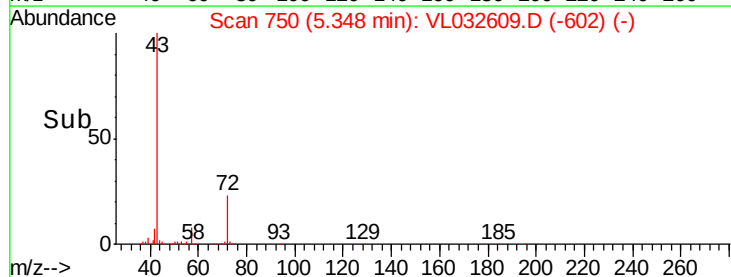
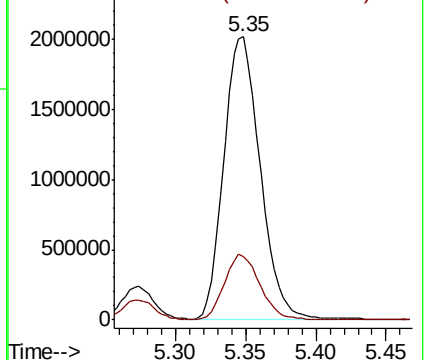
43 100

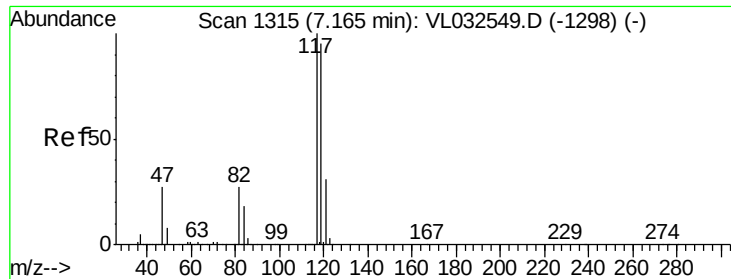
72 22.8 17.8 26.6



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 0.078 ppbv m

RT: 7.16 min Scan# 1314

Delta R.T. -0.02 min

Lab File: VL032609.D

Acq: 11 Oct 2018 18:03

Instrument :

MSVOA_L

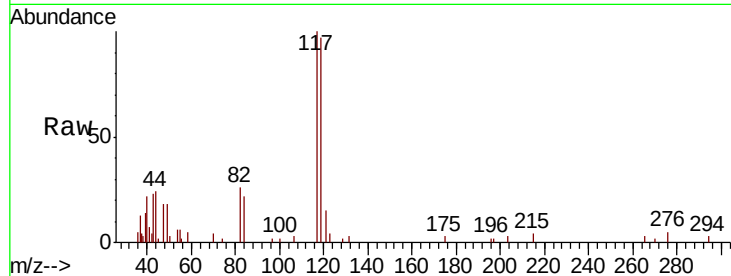
ClientSampleId :

AMBIENT-SVI-100518

Tot Ion	Ratio	Lower	Upper
117	100		
119	96.7	76.6	115.0
121	15.0	24.6	36.8#

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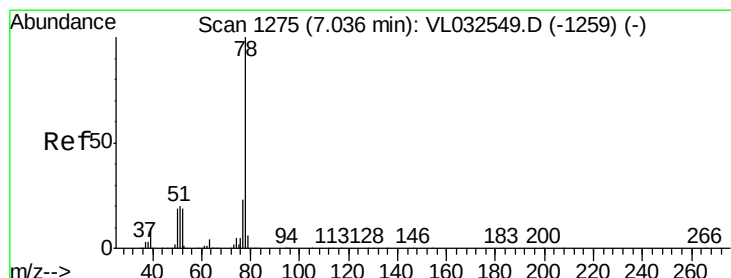
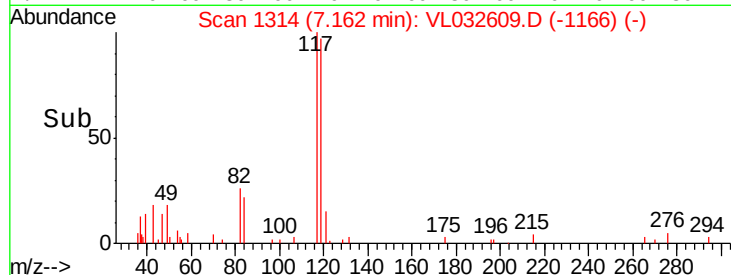
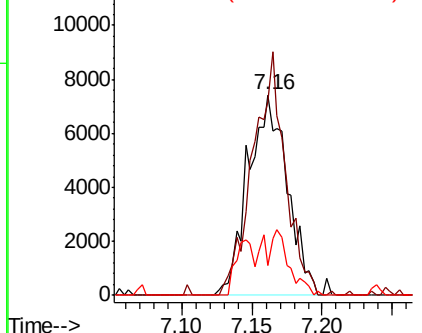


Abundance

Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 0.422 ppbv

RT: 7.04 min Scan# 1275

Delta R.T. -0.02 min

Lab File: VL032609.D

Acq: 11 Oct 2018 18:03

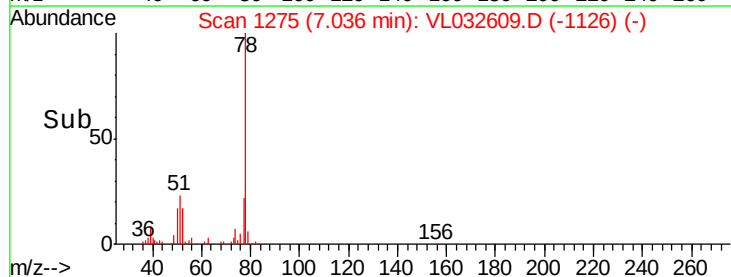
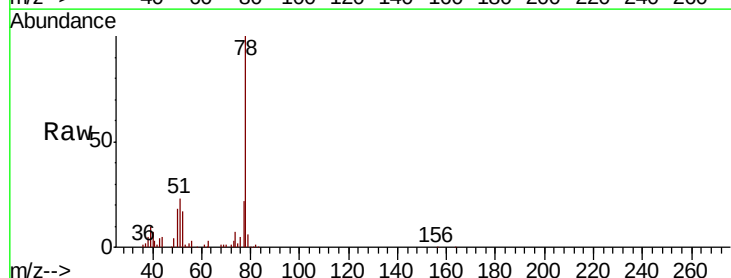
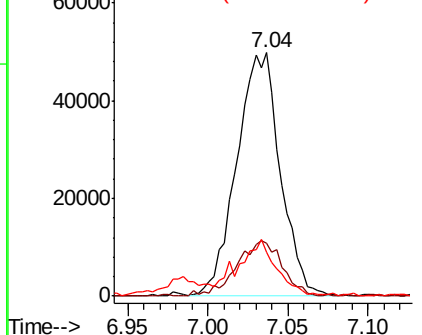
Tgt Ion	Ratio	Lower	Upper
78	100		
77	21.7	18.4	27.6
50	16.6	14.4	21.6

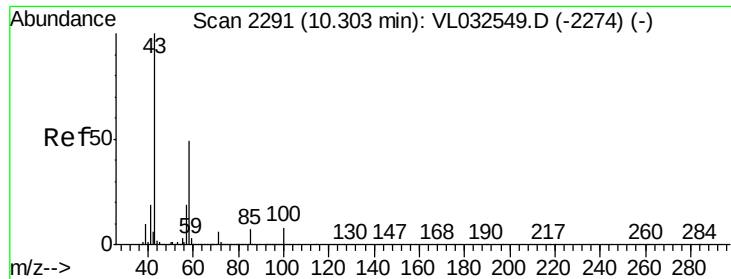
Abundance

Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0





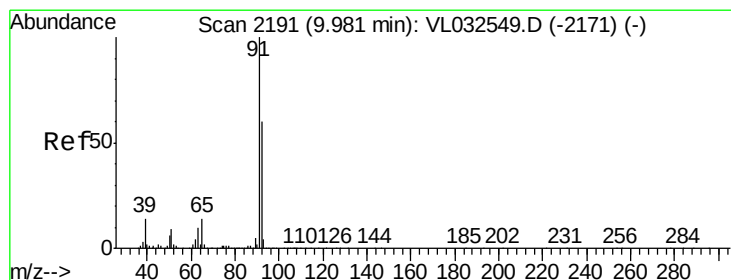
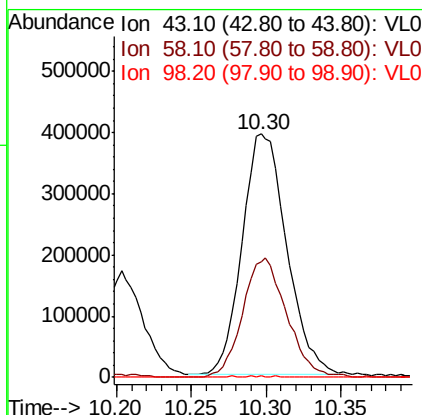
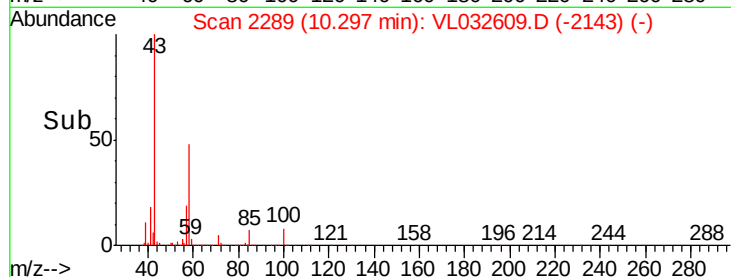
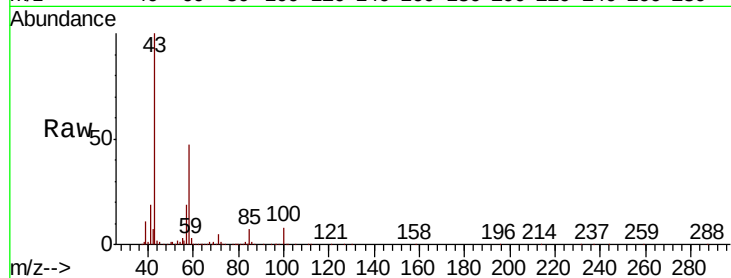
#51
2-Hexanone
Concen: 3.936 ppbv
RT: 10.30 min Scan# 2289
Delta R.T. -0.03 min
Lab File: VL032609.D
Acq: 11 Oct 2018 18:03

Instrument :
MSVOA_L
ClientSampleId :
AMBIENT-SVI-100518

Tot Ion	Ratio	Lower	Upper
43	100		
58	49.2	39.2	58.8
98	0.9	0.4	0.6

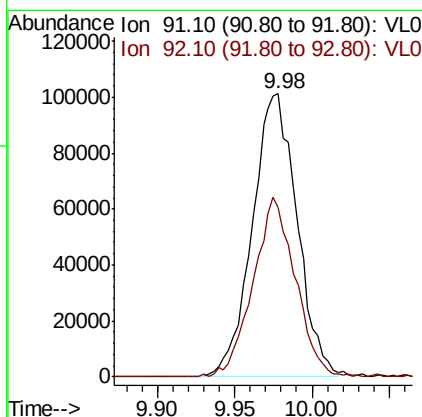
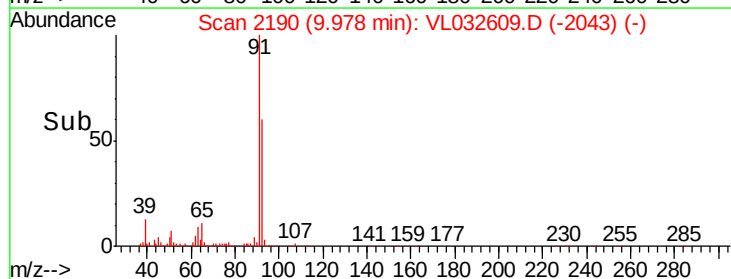
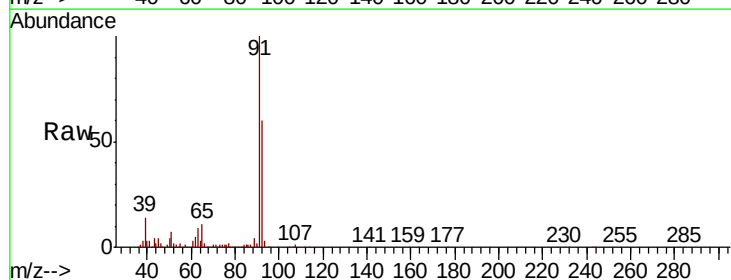
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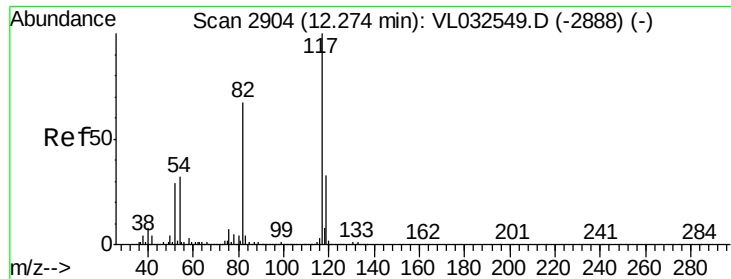
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#53
Toluene
Concen: 0.769 ppbv
RT: 9.98 min Scan# 2190
Delta R.T. -0.03 min
Lab File: VL032609.D
Acq: 11 Oct 2018 18:03

Tgt Ion	Ratio	Lower	Upper
91	100		
92	60.2	48.1	72.1





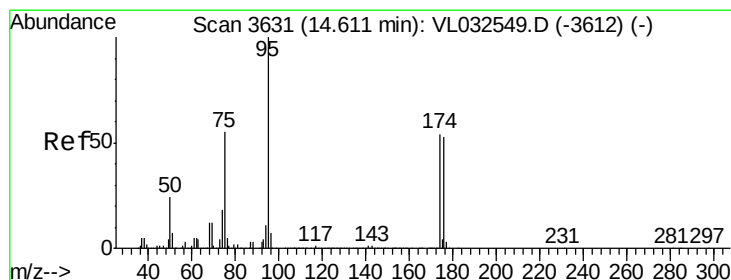
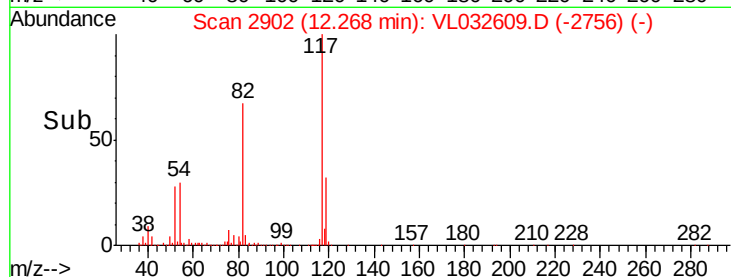
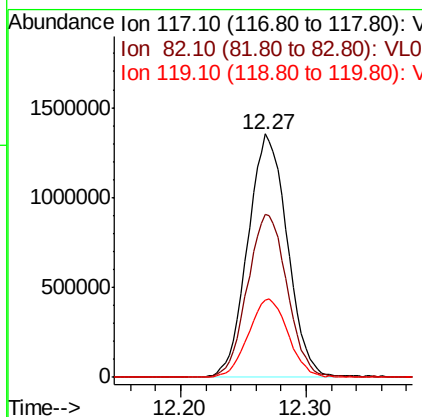
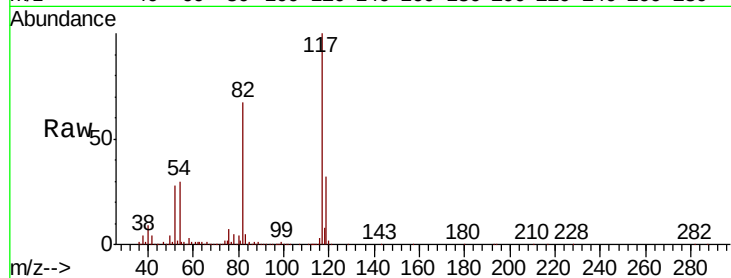
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.27 min Scan# 2902
Delta R.T. -0.03 min
Lab File: VL032609.D
Acq: 11 Oct 2018 18:03

Instrument :
MSVOA_L
ClientSampleId :
AMBIENT-SVI-100518

Tot Ion:117 Resp: 2962683
Ion Ratio Lower Upper
117 100
82 67.8 53.0 79.6
119 32.4 45.9 68.9#

Manual Integrations
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#68
1-Bromo-4-Fluorobenzene
Concen: 9.689 ppbv
RT: 14.61 min Scan# 3629
Delta R.T. -0.03 min
Lab File: VL032609.D
Acq: 11 Oct 2018 18:03

Tgt Ion: 95 Resp: 2164747
Ion Ratio Lower Upper
95 100
174 56.8 46.3 69.5
175 4.1 3.4 5.0

