

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL072718\
 Data File : VL032321.D
 Acq On : 27 Jul 2018 16:19
 Operator : SY/AP
 Sample : J4131-01DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Jul 27 23:18:39 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL072718AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jul 27 07:05:37 2018
 QLast Update : Fri Jul 27 07:05:37 2018
 Response via : Initial Calibration

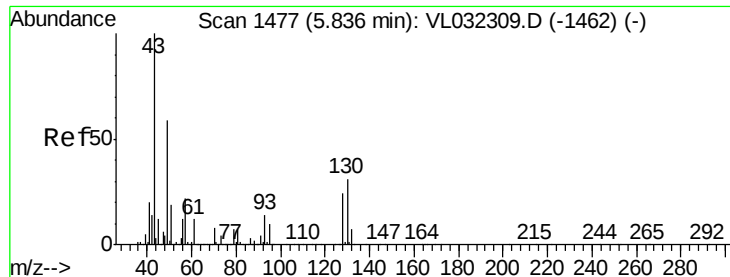
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.83	49	1965678	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.37	114	3796406	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.32	117	4637905	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.66	95	3735145	10.38	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.80%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.12	85	14122	0.060	ppbv	93
3) Chlorodifluoromethane	3.06	51	1237438	6.296	ppbv #	85
4) Chloromethane	3.22	50	4546	0.038	ppbv #	81
9) Propene	3.28	41	73599	0.833	ppbv	99
13) Ethanol	3.71	45	51927	2.045	ppbv	99
15) Acetone	3.96	43	333823	1.802	ppbv #	86
16) 1,3-Butadiene	3.39	39	19665	0.205	ppbv #	10
20) Methylene Chloride	4.47	84	297600	3.997	ppbv	97
25) Ethyl Acetate	5.85	43	201065	0.484	ppbv #	81
26) Hexane	5.85	57	254527	1.353	ppbv #	45
34) 2-Butanone	5.40	43	89280	0.363	ppbv	98
39) 1,2-Dichloropropane	7.37	63	1053847	6.260	ppbv #	27
41) Tetrahydrofuran	5.85	42	110645	0.796	ppbv #	50
53) Toluene	10.03	91	69670	0.174	ppbv	98
58) Ethyl Benzene	13.21	91	25226	0.043	ppbv	93

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.83 min Scan# 1475

Delta R.T. -0.01 min

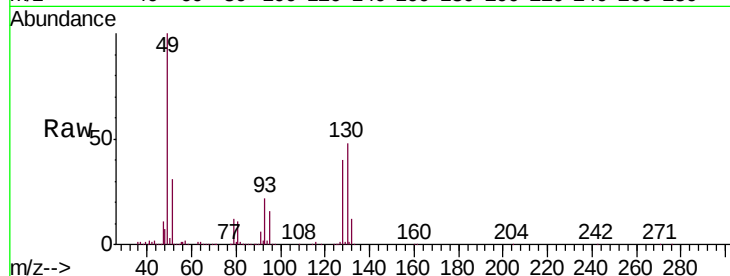
Lab File: VL032321.D

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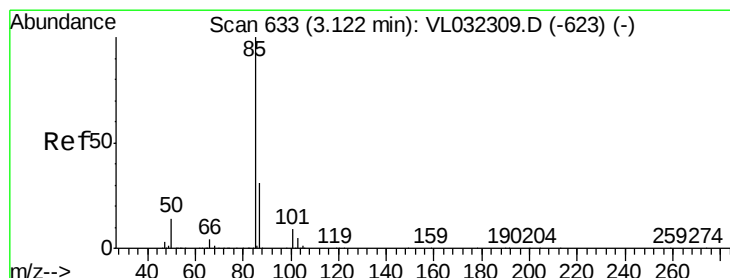
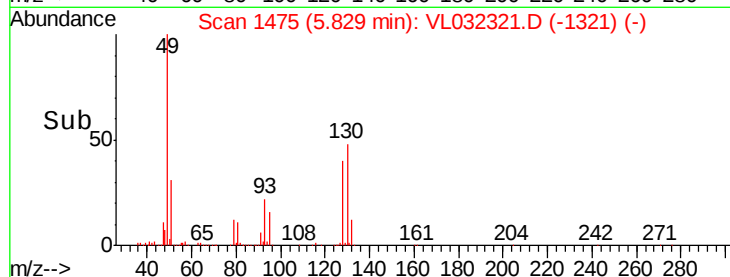
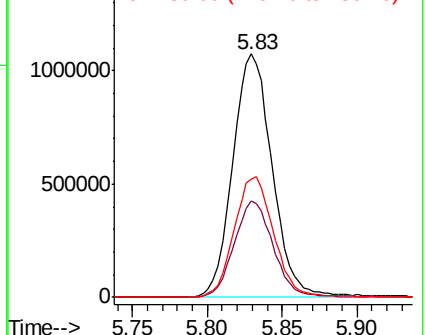
Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 49 Resp: 1965678

Ion	Ratio	Lower	Upper
49	100		
128	39.6	20.2	60.6
130	50.2	25.8	77.3



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: 0.060 ppbv

RT: 3.12 min Scan# 633

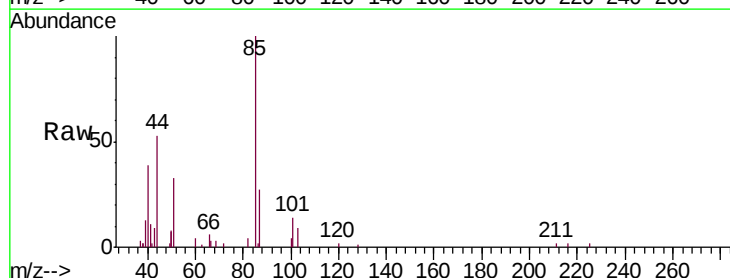
Delta R.T. -0.00 min

Lab File: VL032321.D

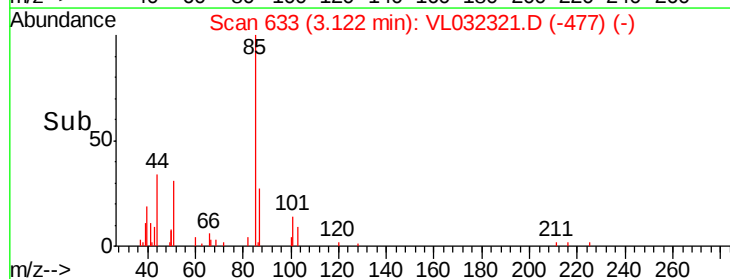
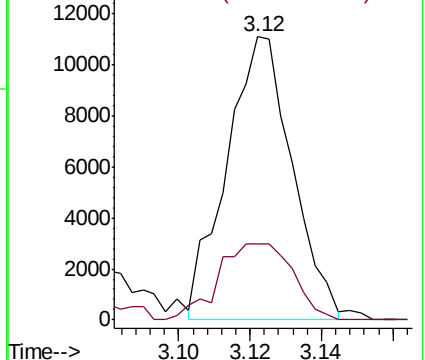
Acq: 27 Jul 2018 16:19

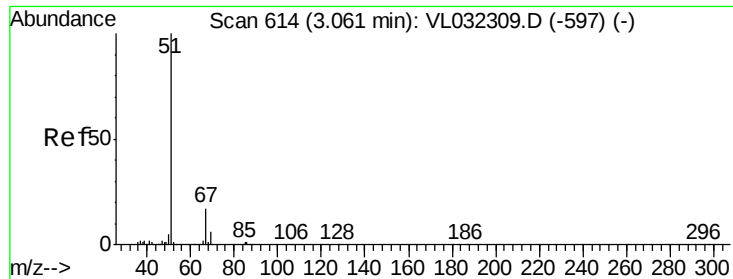
Tgt Ion: 85 Resp: 14122

Ion	Ratio	Lower	Upper
85	100		
87	27.6	25.2	37.8



Abundance Ion 85.00 (84.70 to 85.70): VL0
Ion 87.00 (86.70 to 87.70): VL0

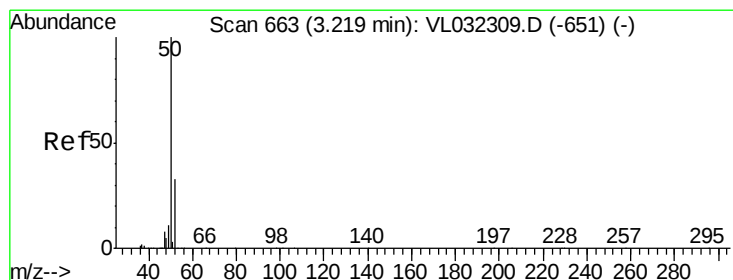
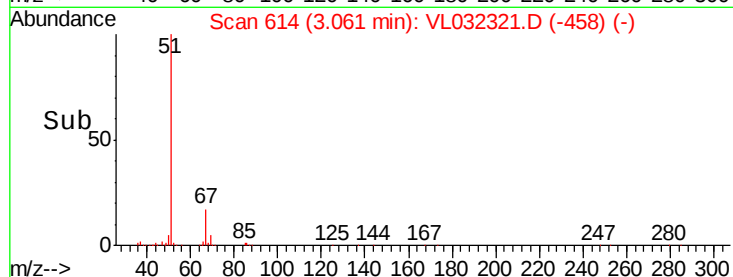
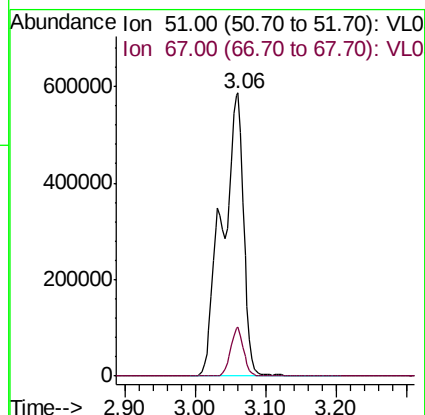
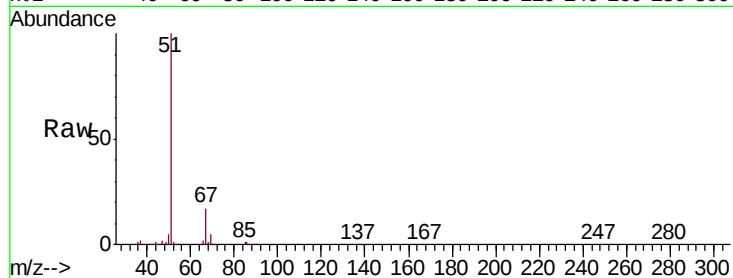




#3
 Chlorodifluoromethane
 Concen: 6.296 ppbv
 RT: 3.06 min Scan# 614
 Delta R.T. 0.00 min
 Lab File: VL032321.D
 Acq: 27 Jul 2018 16:19

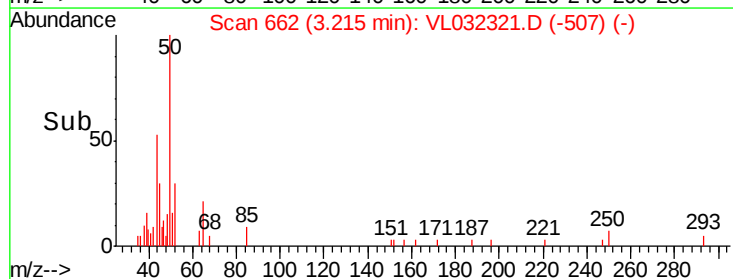
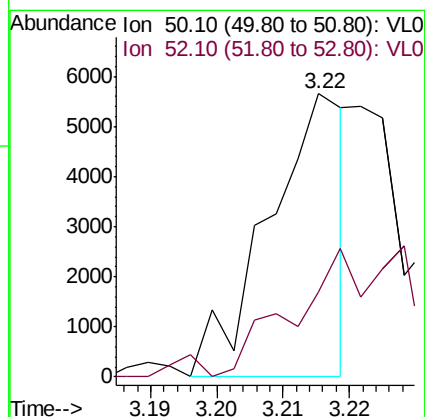
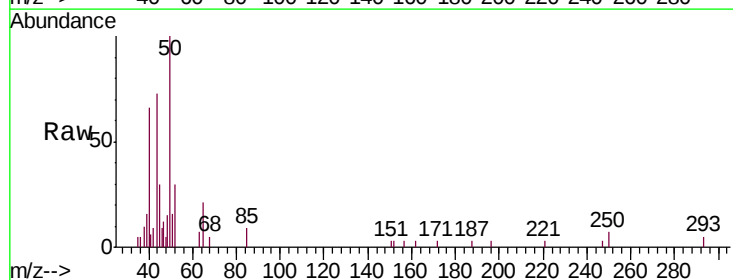
Instrument :
 MSVOA_L
 ClientSampleId :

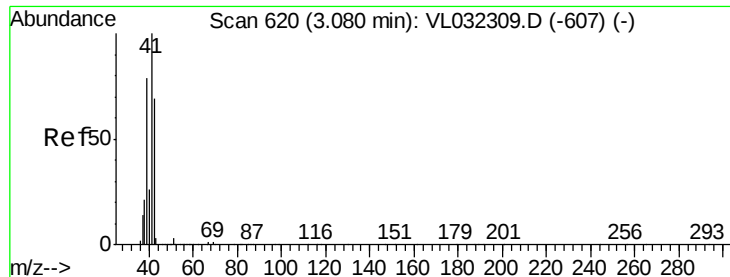
Tot Ion: 51 Resp: 1237438
 Ion Ratio Lower Upper
 51 100
 67 10.5 13.5 20.3#



#4
 Chloromethane
 Concen: 0.038 ppbv
 RT: 3.22 min Scan# 662
 Delta R.T. -0.00 min
 Lab File: VL032321.D
 Acq: 27 Jul 2018 16:19

Tgt Ion: 50 Resp: 4546
 Ion Ratio Lower Upper
 50 100
 52 22.1 26.2 39.4#





#9

Propene

Concen: 0.833 ppbv

RT: 3.28 min Scan# 683

Delta R.T. 0.20 min

Lab File: VL032321.D

Acq: 27 Jul 2018 16:19

Instrument :

MSVOA_L

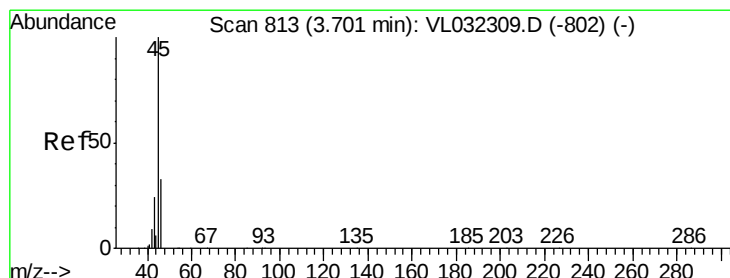
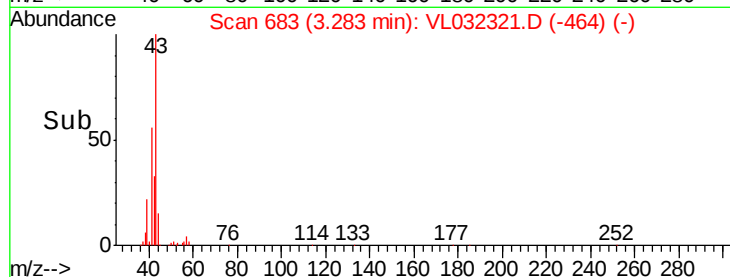
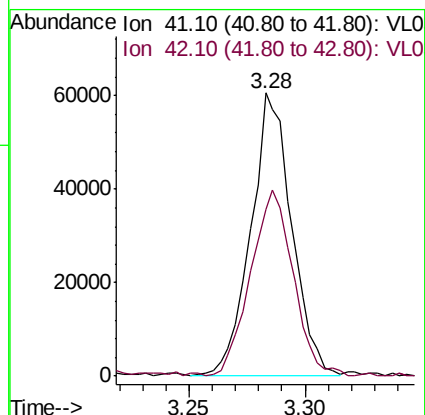
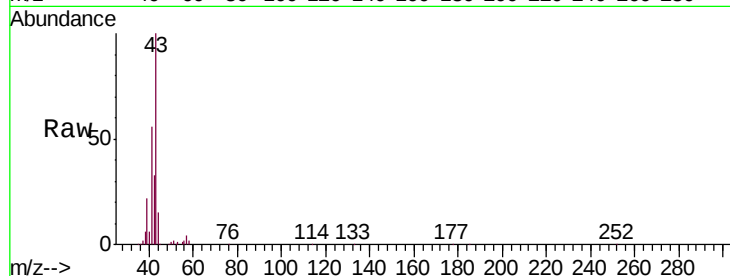
ClientSampleId :

Tot Ion: 41 Resp: 73599

Ion Ratio Lower Upper

41 100

42 71.7 56.8 85.2



#13

Ethanol

Concen: 2.045 ppbv

RT: 3.71 min Scan# 816

Delta R.T. 0.01 min

Lab File: VL032321.D

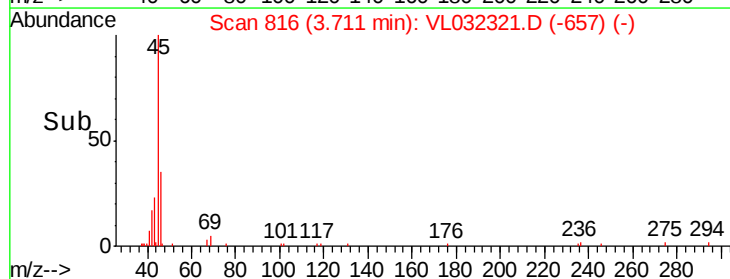
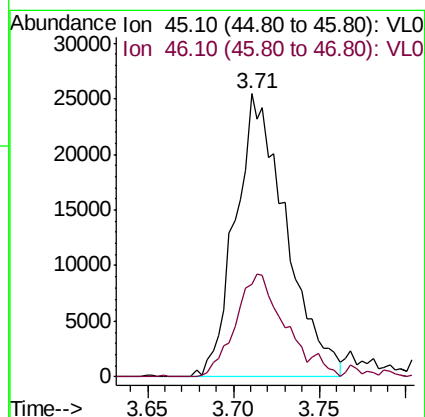
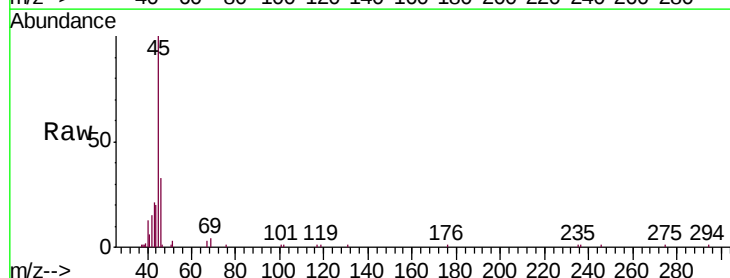
Acq: 27 Jul 2018 16:19

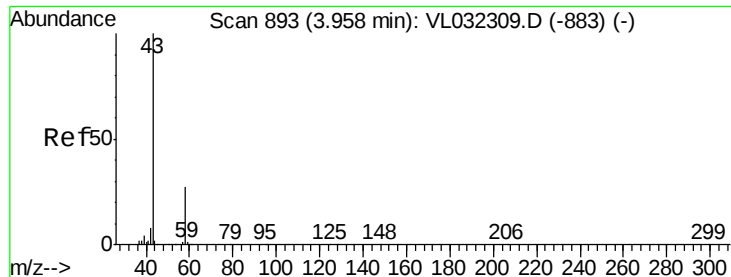
Tgt Ion: 45 Resp: 51927

Ion Ratio Lower Upper

45 100

46 37.4 15.2 60.6





#15

Acetone

Concen: 1.802 ppbv

RT: 3.96 min Scan# 895

Delta R.T. 0.01 min

Lab File: VL032321.D

Acq: 27 Jul 2018 16:19

Instrument :

MSVOA_L

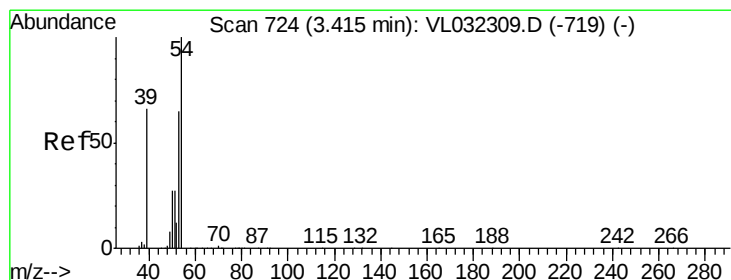
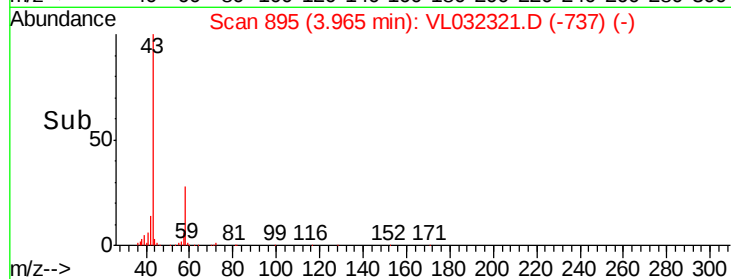
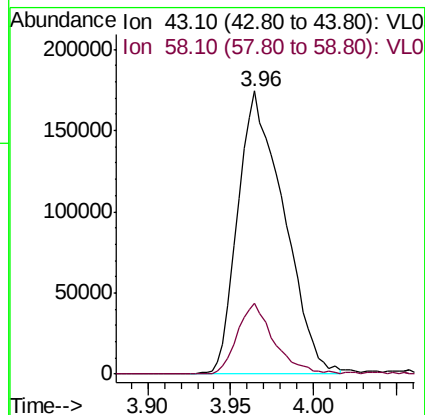
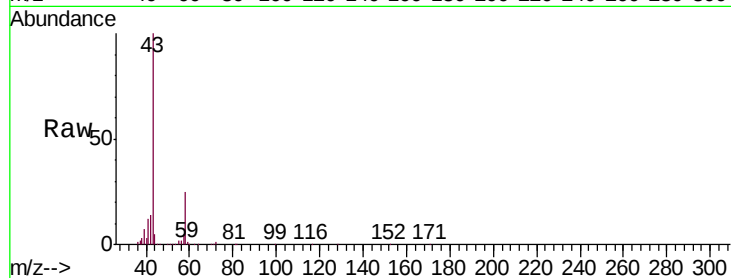
ClientSampleId :

Tot Ion: 43 Resp: 333823

Ion Ratio Lower Upper

43 100

58 20.8 22.5 33.7#



#16

1,3-Butadiene

Concen: 0.205 ppbv

RT: 3.39 min Scan# 717

Delta R.T. -0.02 min

Lab File: VL032321.D

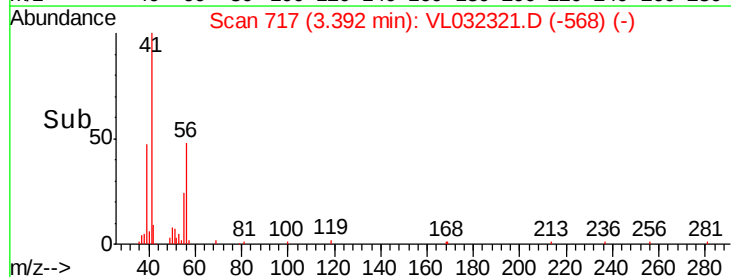
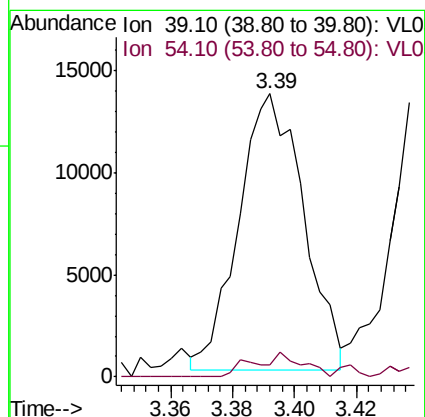
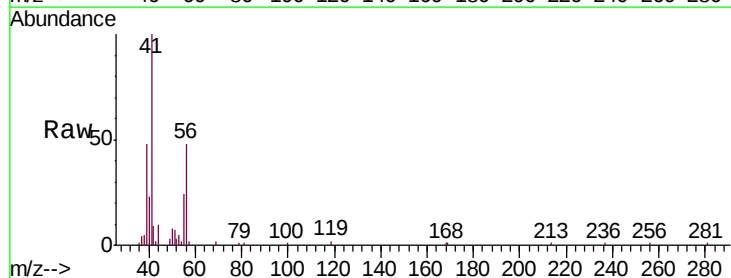
Acq: 27 Jul 2018 16:19

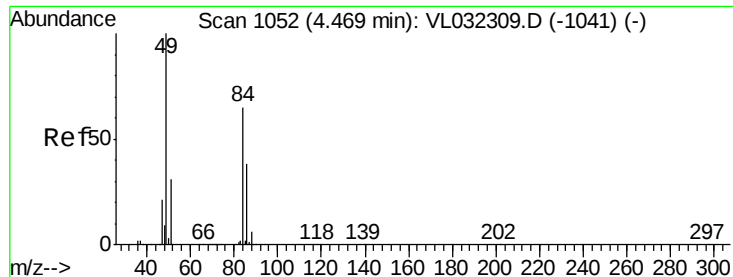
Tgt Ion: 39 Resp: 19665

Ion Ratio Lower Upper

39 100

54 6.5 74.3 111.5#

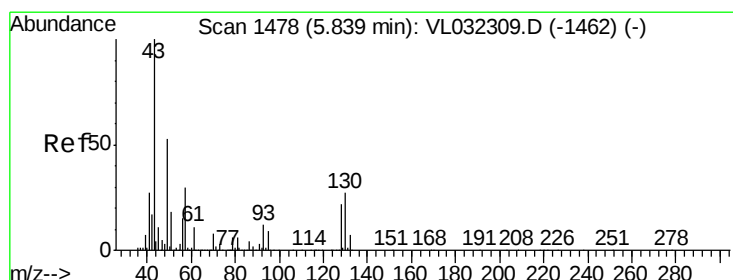
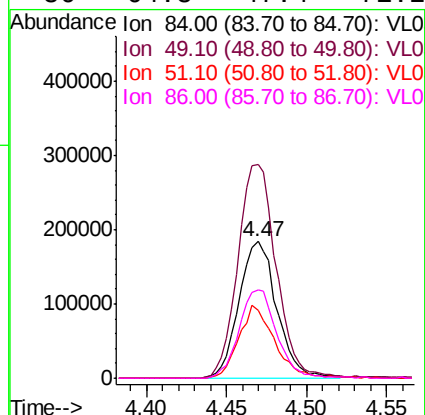
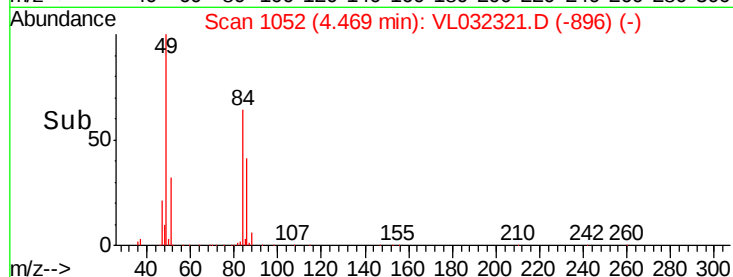
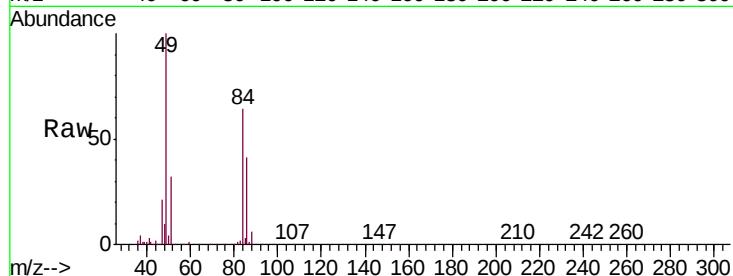




#20
Methvlene Chloride
Concen: 3.997 ppbv
RT: 4.47 min Scan# 1052
Delta R.T. 0.00 min
Lab File: VL032321.D
Acq: 27 Jul 2018 16:19

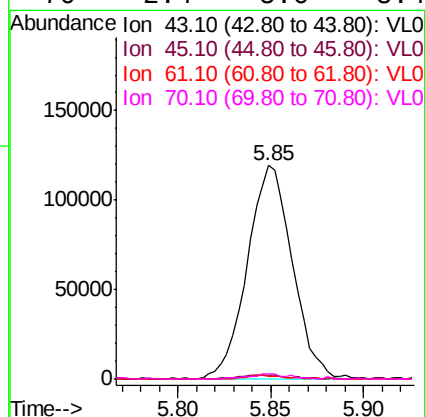
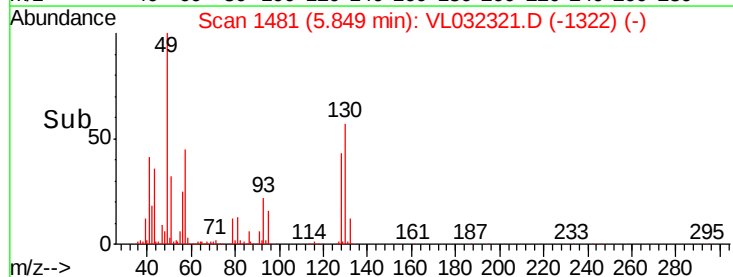
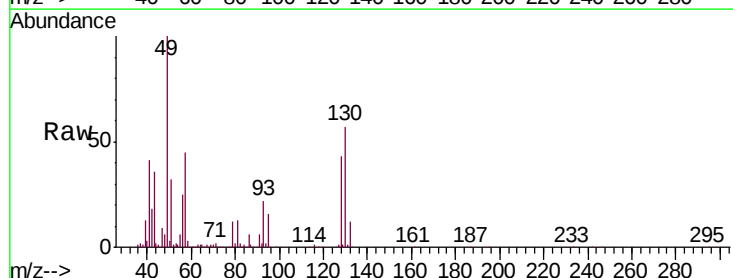
Instrument :
MSVOA_L
ClientSampleId :

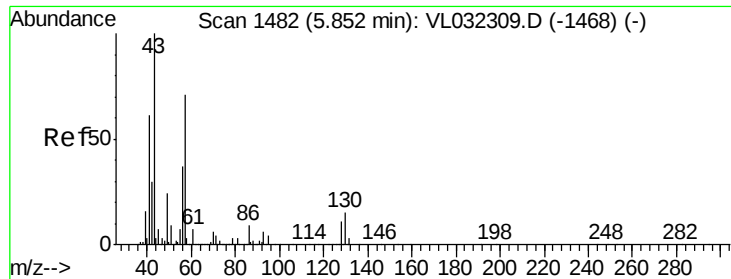
Tot Ion:	84	Resp:	297600
Ion	Ratio	Lower	Upper
84	100		
49	156.4	123.4	185.0
51	50.0	38.2	57.2
86	64.8	47.4	71.2



#25
Ethyl Acetate
Concen: 0.484 ppbv
RT: 5.85 min Scan# 1481
Delta R.T. 0.01 min
Lab File: VL032321.D
Acq: 27 Jul 2018 16:19

Tgt Ion:	43	Resp:	201065
Ion	Ratio	Lower	Upper
43	100		
45	2.3	8.1	12.1#
61	1.6	7.4	11.0#
70	2.4	5.6	8.4#

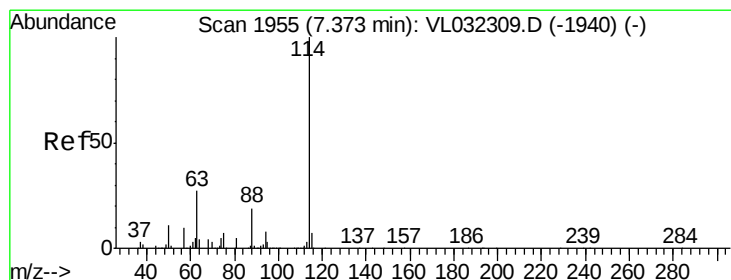
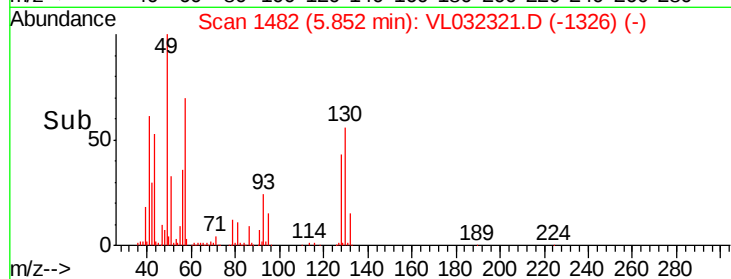
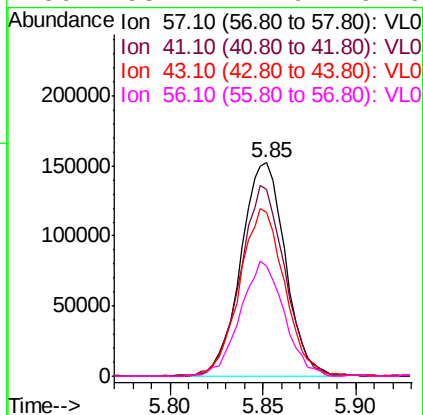
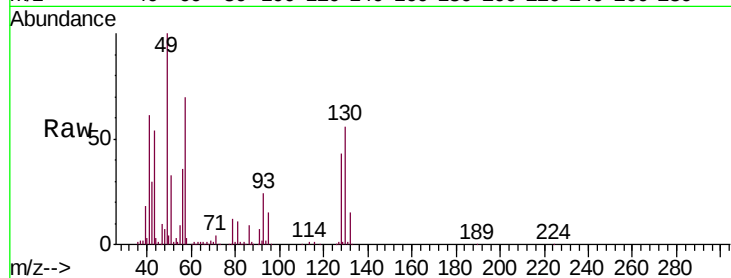




#26
Hexane
Concen: 1.353 ppbv
RT: 5.85 min Scan# 1482
Delta R.T. 0.00 min
Lab File: VL032321.D
Acq: 27 Jul 2018 16:19

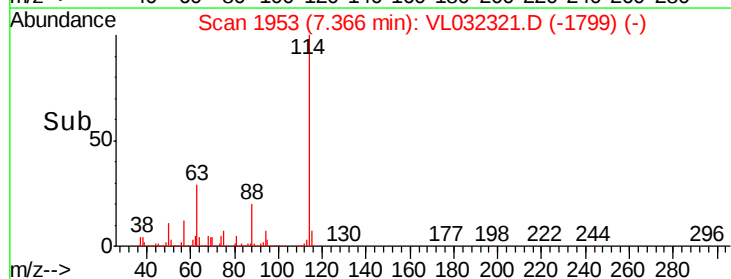
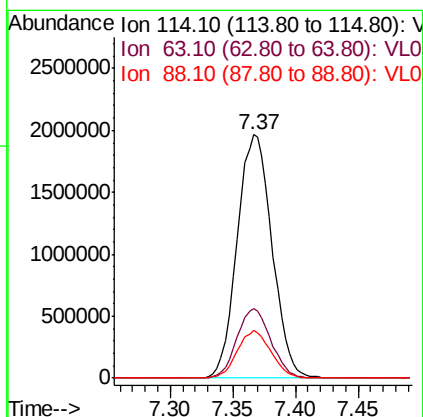
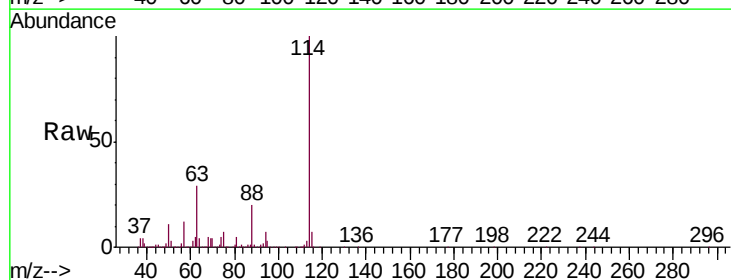
Instrument :
MSVOA_L
ClientSampleId :

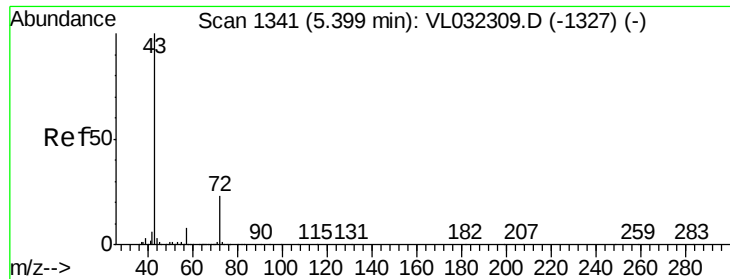
Tot Ion	Ratio	Lower	Upper
57	100		
41	89.2	68.1	102.1
43	80.0	177.4	266.2#
56	53.4	41.9	62.9



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.37 min Scan# 1953
Delta R.T. -0.01 min
Lab File: VL032321.D
Acq: 27 Jul 2018 16:19

Tgt Ion	Ratio	Lower	Upper
114	100		
63	28.0	22.4	33.6
88	18.9	15.3	22.9

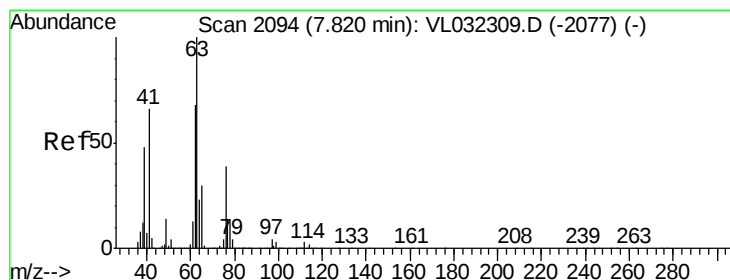
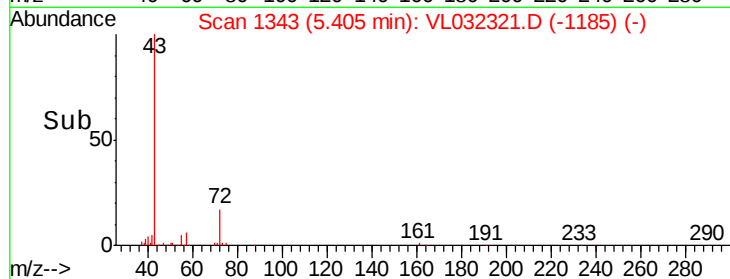
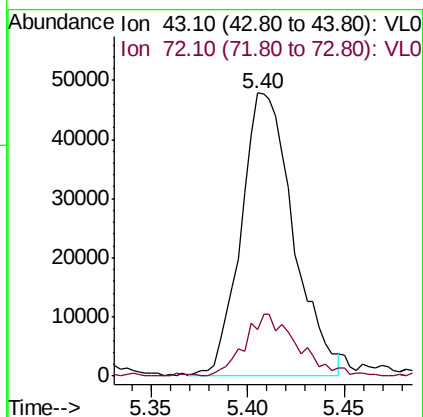
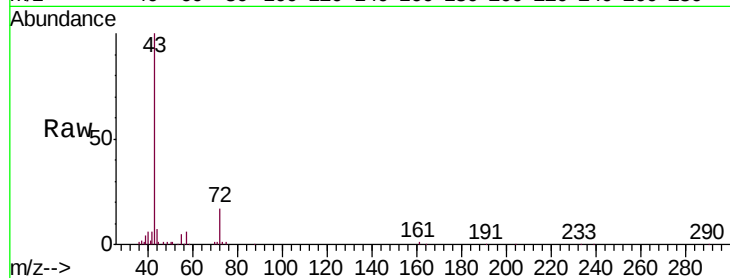




#34
2-Butanone
Concen: 0.363 ppbv
RT: 5.40 min Scan# 1343
Delta R.T. 0.01 min
Lab File: VL032321.D
Acq: 27 Jul 2018 16:19

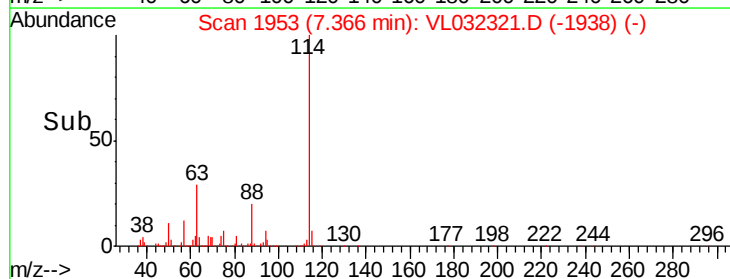
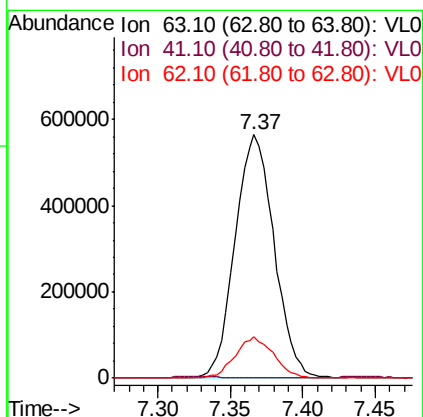
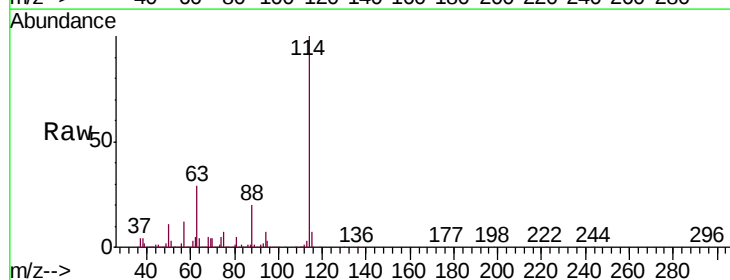
Instrument :
MSVOA_L
ClientSampleId :

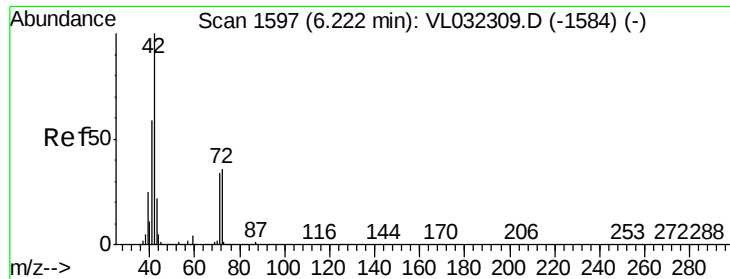
Tot Ion: 43 Resp: 89280
Ion Ratio Lower Upper
43 100
72 22.7 17.4 26.2



#39
1,2-Dichloropropane
Concen: 6.260 ppbv
RT: 7.37 min Scan# 1953
Delta R.T. -0.45 min
Lab File: VL032321.D
Acq: 27 Jul 2018 16:19

Tgt Ion: 63 Resp: 1053847
Ion Ratio Lower Upper
63 100
41 0.0 52.5 78.7#
62 16.9 54.6 81.8#

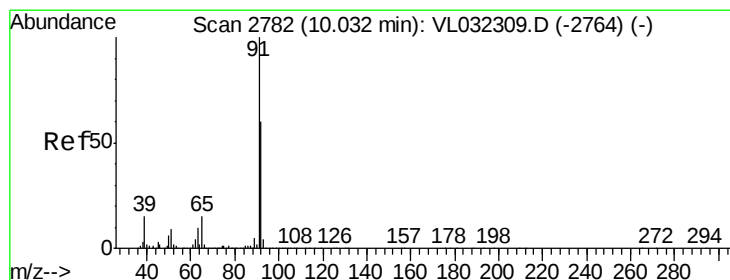
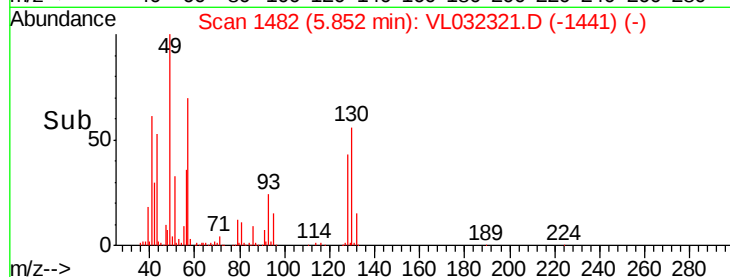
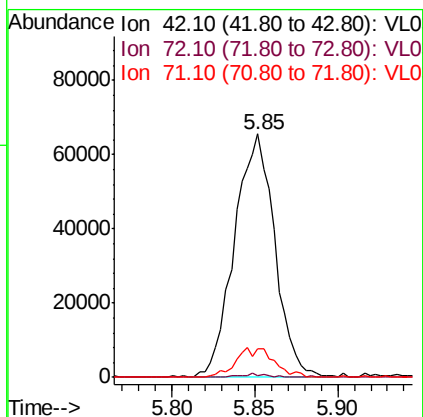
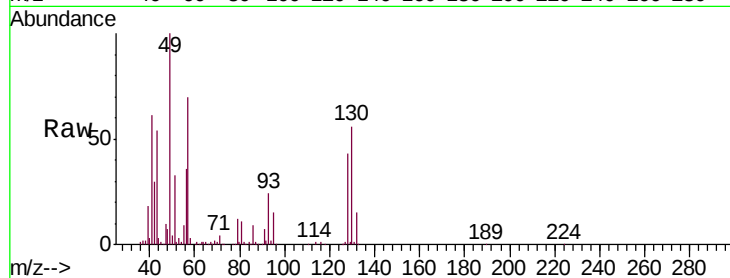




#41
Tetrahydrofuran
Concen: 0.796 ppbv
RT: 5.85 min Scan# 1482
Delta R.T. -0.37 min
Lab File: VL032321.D
Acq: 27 Jul 2018 16:19

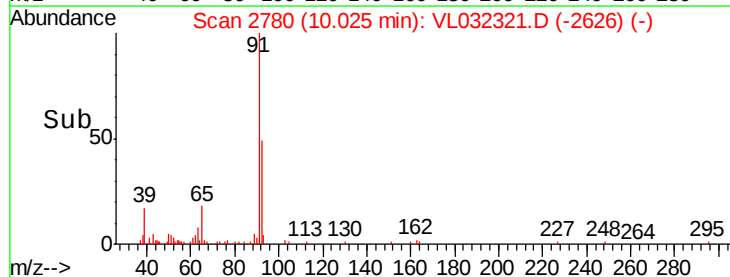
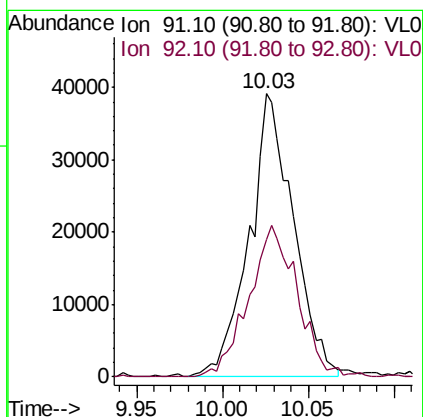
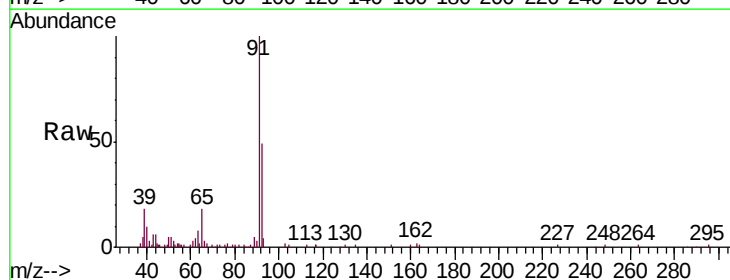
Instrument :
MSVOA_L
ClientSampleId :

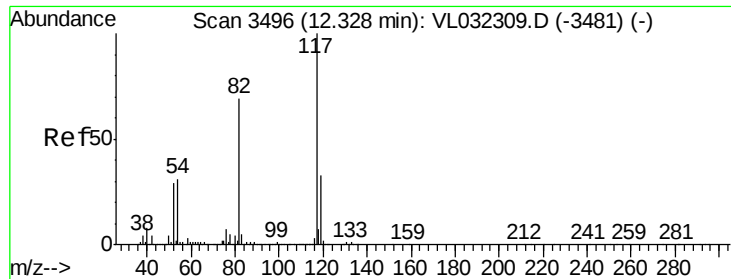
Tot Ion: 42 Resp: 110645
Ion Ratio Lower Upper
42 100
72 0.9 28.6 42.8#
71 11.7 27.8 41.6#



#53
Toluene
Concen: 0.174 ppbv
RT: 10.03 min Scan# 2780
Delta R.T. -0.01 min
Lab File: VL032321.D
Acq: 27 Jul 2018 16:19

Tgt Ion: 91 Resp: 69670
Ion Ratio Lower Upper
91 100
92 59.1 48.6 72.8

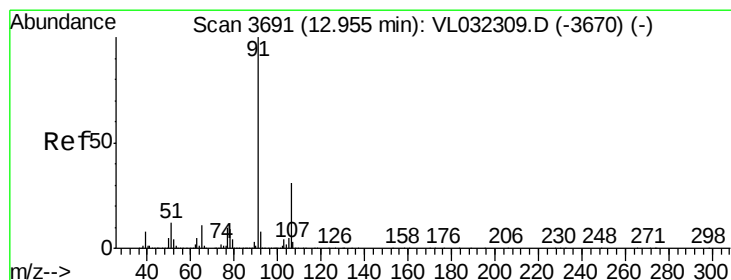
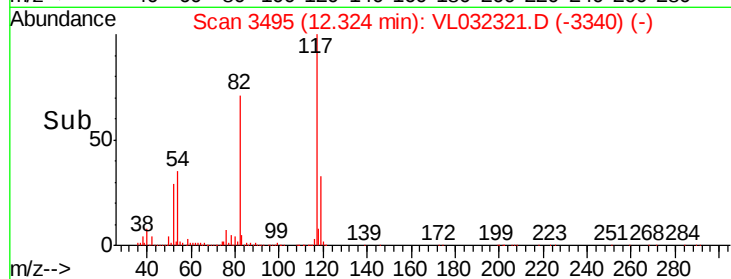
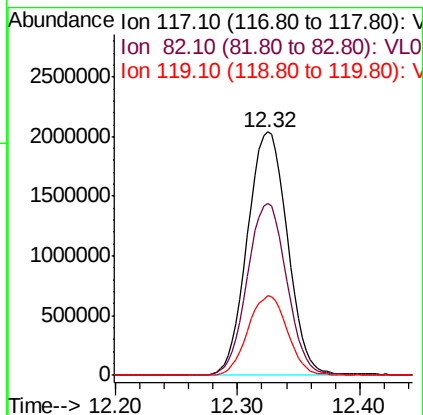
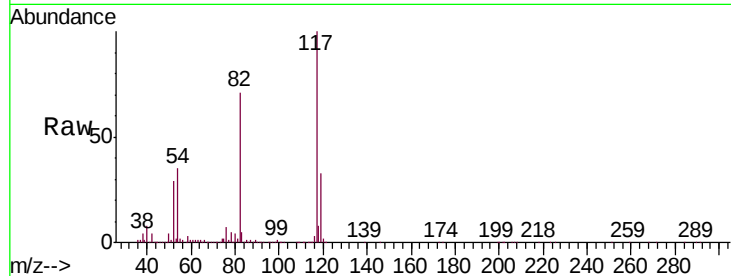




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.32 min Scan# 3495
Delta R.T. -0.00 min
Lab File: VL032321.D
Acq: 27 Jul 2018 16:19

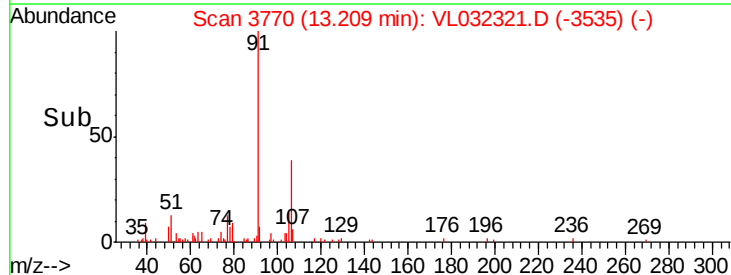
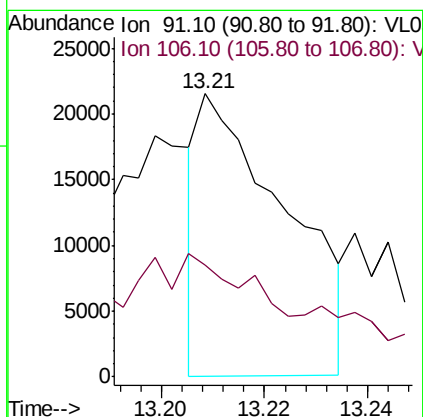
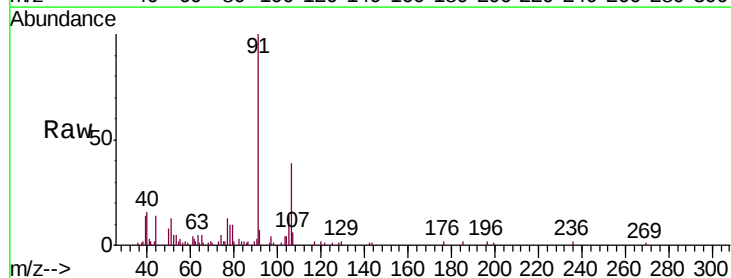
Instrument :
MSVOA_L
ClientSampleId :

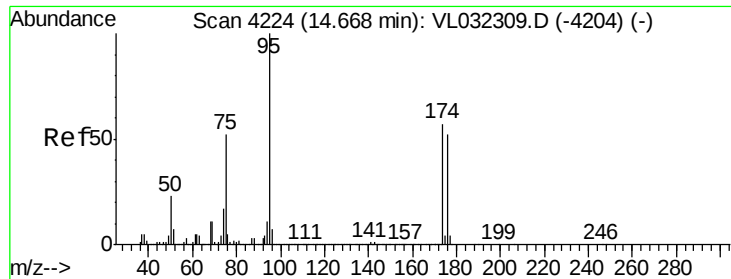
Tot Ion:117 Resp: 4637905
Ion Ratio Lower Upper
117 100
82 70.1 52.6 78.8
119 32.6 25.7 38.5



#58
Ethyl Benzene
Concen: 0.043 ppbv
RT: 13.21 min Scan# 3770
Delta R.T. 0.25 min
Lab File: VL032321.D
Acq: 27 Jul 2018 16:19

Tgt Ion: 91 Resp: 25226
Ion Ratio Lower Upper
91 100
106 27.4 25.0 37.4





#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.376 ppbv
 RT: 14.66 min Scan# 4221
 Delta R.T. -0.01 min
 Lab File: VL032321.D
 Acq: 27 Jul 2018 16:19

Instrument :
 MSVOA_L
 ClientSampleId :

Tot Ion: 95 Resp: 3735145
 Ion Ratio Lower Upper
 95 100
 174 55.5 45.5 68.3
 175 4.1 3.3 4.9

