

Data File : VL032818.D
Acq On : 27 Nov 2018 22:09
Operator : SY/AP
Sample : J6046-02
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
EP2-SV-03

Quant Time: Nov 28 03:16:26 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL111418AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Nov 14 07:00:23 2018
QLast Update : Wed Nov 14 07:00:23 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.78	49	1295178	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.31	114	3319553	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	3048708	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.59	95	2300825	10.09	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.90%

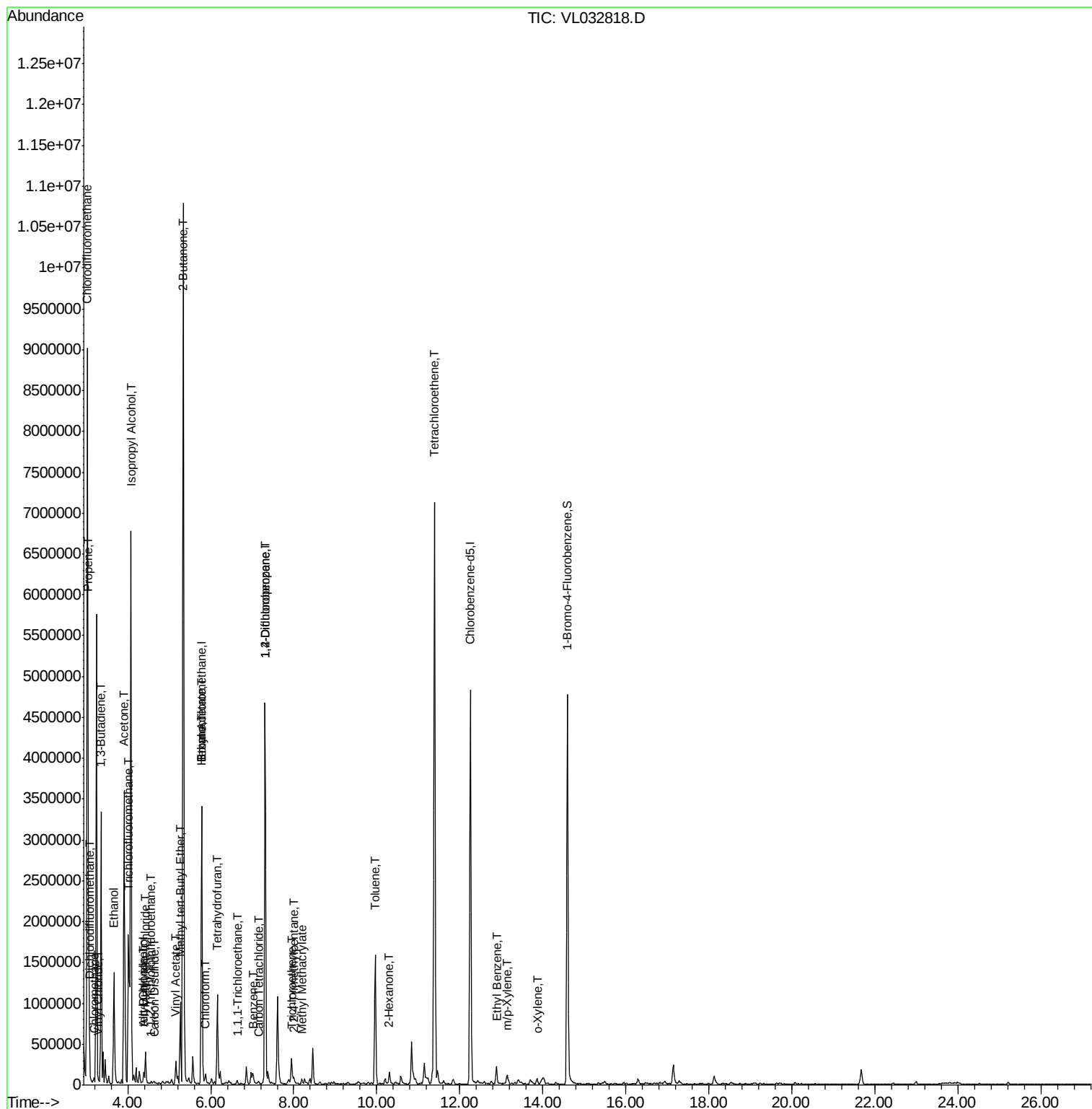
Target Compounds

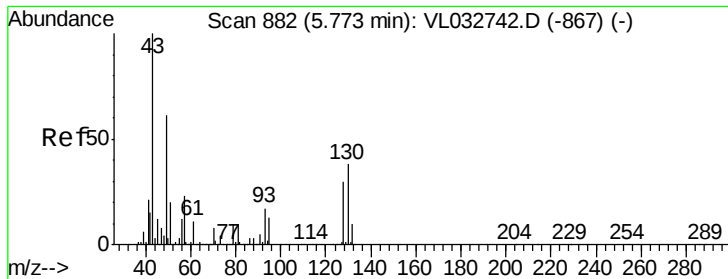
						Qvalue
2) Dichlorodifluoromethane	3.08	85	64032	0.344	ppbv	98
3) Chlorodifluoromethane	3.02	51	8837772	86.069	ppbv	97
4) Chloromethane	3.18	50	16221	0.285	ppbv	96
5) Vinyl Chloride	3.30	62	2985	0.049	ppbv	89
9) Propene	3.05	41	1021716	24.864	ppbv	98
11) Trichlorofluoromethane	4.02	101	1149987	6.554	ppbv	97
12) 1,1,2-Trichlorotrifluoroet	4.56	101	11932	0.083	ppbv	99
13) Ethanol	3.67	45	1484306	110.282	ppbv	100
15) Acetone	3.91	43	3516505	29.731	ppbv #	60
16) 1,3-Butadiene	3.35	39	823968	17.989	ppbv #	13
17) tert-Butyl alcohol	4.38	59	42631	1.149	ppbv #	73
19) Isopropyl Alcohol	4.07	45	766550	9.728	ppbv #	95
20) Methylene Chloride	4.43	84	124922	2.040	ppbv	95
21) Allyl Chloride	4.38	41	25616	0.258	ppbv #	19
23) Vinyl Acetate	5.16	43	156162	0.724	ppbv #	92
25) Ethyl Acetate	5.79	43	148864	0.540	ppbv #	97
26) Hexane	5.79	57	127388	1.038	ppbv #	1
27) Carbon Disulfide	4.64	76	11254	0.072	ppbv #	64
28) Methyl tert-Butyl Ether	5.26	73	6519	0.033	ppbv #	1
29) Chloroform	5.87	83	11733	0.054	ppbv	95
32) 1,1,1-Trichloroethane	6.63	97	23381	0.098	ppbv	97
34) 2-Butanone	5.34	43	12605909	73.217	ppbv	92
35) Carbon Tetrachloride	7.15	117	12629	0.047	ppbv #	63
36) Benzene	7.02	78	91195	0.345	ppbv	96
38) Trichloroethene	7.97	130	3938	0.037	ppbv #	44
39) 1,2-Dichloropropane	7.31	63	827826	8.219	ppbv #	24
41) Tetrahydrofuran	6.16	42	546711	5.536	ppbv	99
43) Methyl Methacrylate	8.19	69	8120	0.082	ppbv #	8
44) 2,2,4-Trimethylpentane	8.00	57	24958	0.056	ppbv #	1
51) 2-Hexanone	10.30	43	63877	0.369	ppbv #	29
52) Tetrachloroethene	11.39	164	1801265	19.588	ppbv	99
53) Toluene	9.96	91	1176089	4.265	ppbv	99
58) Ethyl Benzene	12.88	91	30581	0.083	ppbv	99
59) m/p-Xylene	13.14	91	35186	0.108	ppbv #	1
60) o-Xylene	13.86	91	18294	0.056	ppbv #	37

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

ALS Vial : 1 Sample Multiplier: 1

Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.78 min Scan# 884

Delta R.T. 0.01 min

Lab File: VL032818.D

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ClientSampleId :

EP2-SV-03

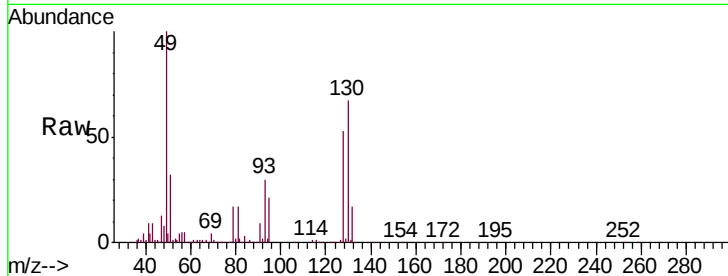
Tgt Ion: 49 Resp: 1295178

Ion Ratio Lower Upper

49 100

128 52.0 24.9 74.6

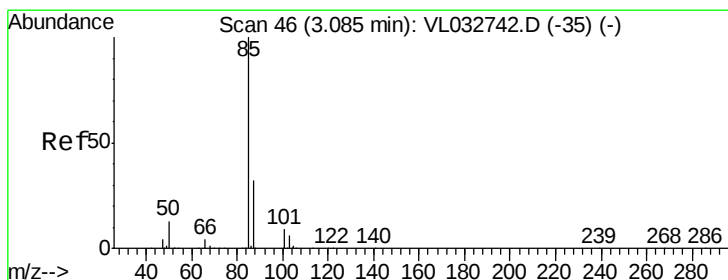
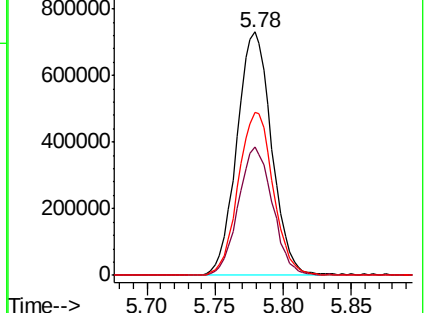
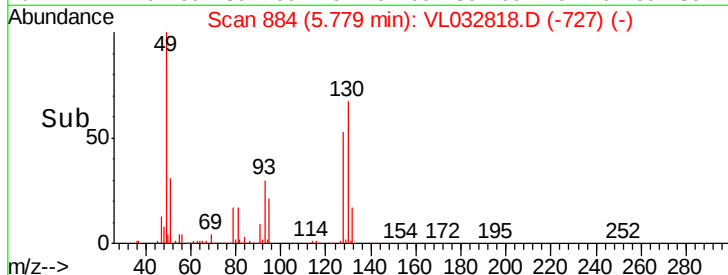
130 67.6 31.4 94.2



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 0.344 ppbv

RT: 3.08 min Scan# 46

Delta R.T. -0.00 min

Lab File: VL032818.D

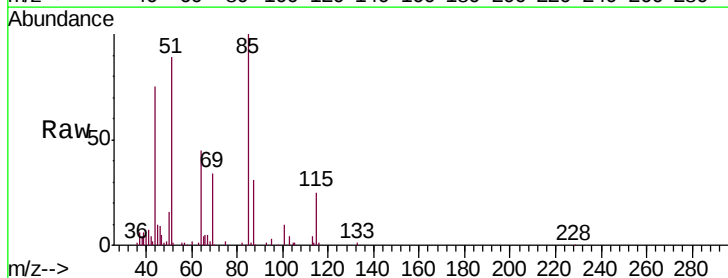
Acq: 27 Nov 2018 22:09

Tgt Ion: 85 Resp: 64032

Ion Ratio Lower Upper

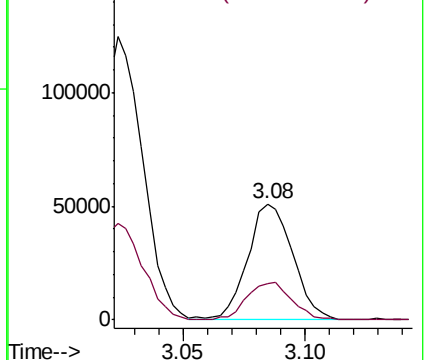
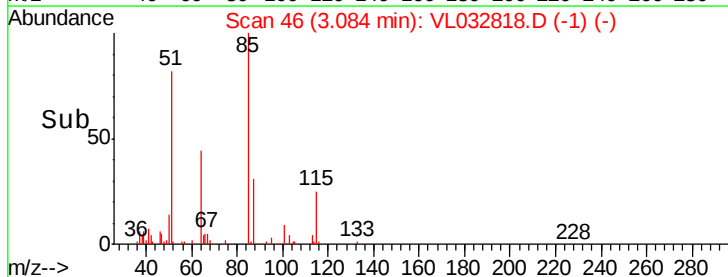
85 100

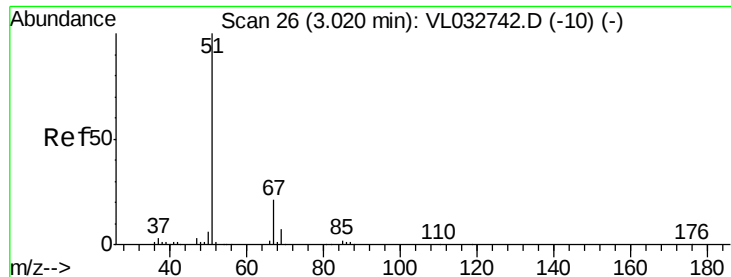
87 31.3 26.0 39.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 86.069 ppbv

RT: 3.02 min Scan# 27

Delta R.T. 0.00 min

Lab File: VL032818.D

Acq: 27 Nov 2018 22:09

Instrument :

MSVOA_L

ClientSampleId :

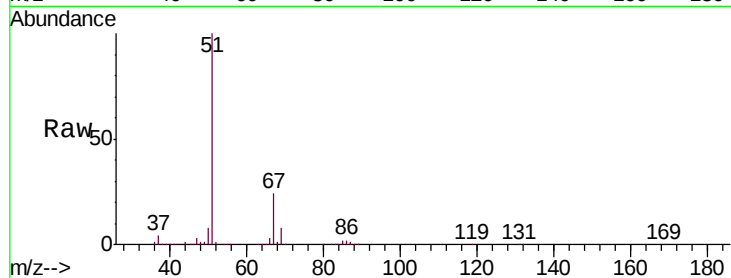
EP2-SV-03

Tgt Ion: 51 Resp: 8837772

Ion Ratio Lower Upper

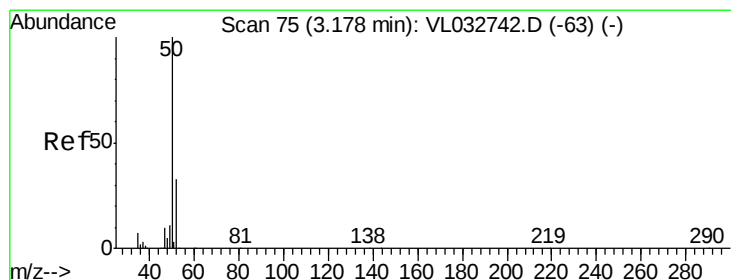
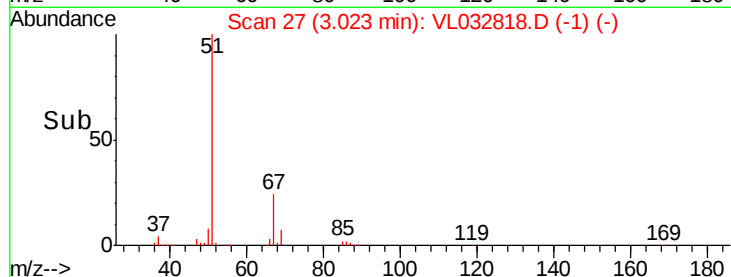
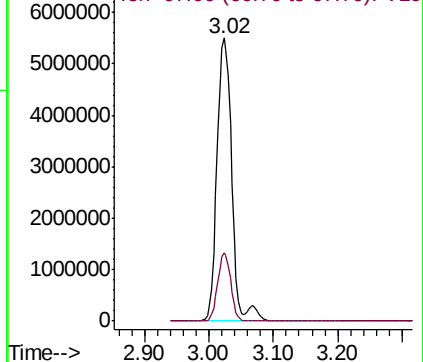
51 100

67 21.5 16.1 24.1



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.285 ppbv

RT: 3.18 min Scan# 76

Delta R.T. 0.00 min

Lab File: VL032818.D

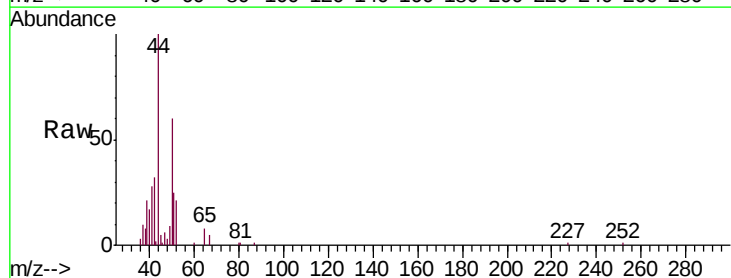
Acq: 27 Nov 2018 22:09

Tgt Ion: 50 Resp: 16221

Ion Ratio Lower Upper

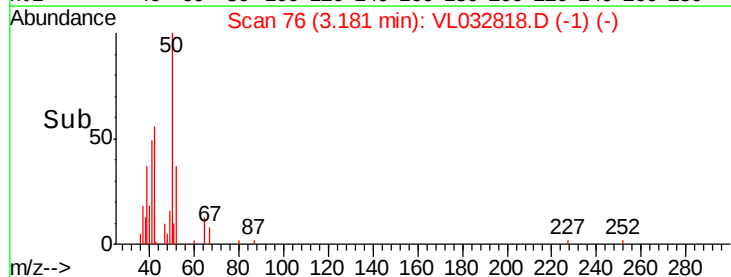
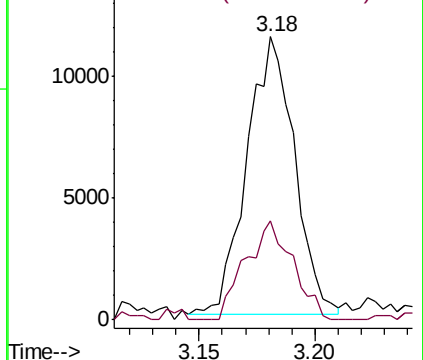
50 100

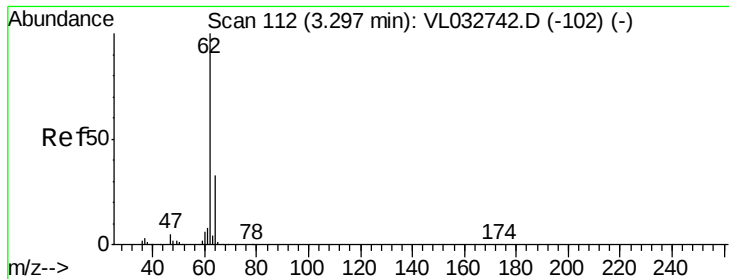
52 35.8 26.6 40.0



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 0.049 ppbv

RT: 3.30 min Scan# 112

Delta R.T. -0.00 min

Lab File: VL032818.D

Acq: 27 Nov 2018 22:09

Instrument :

MSVOA_L

ClientSampleId :

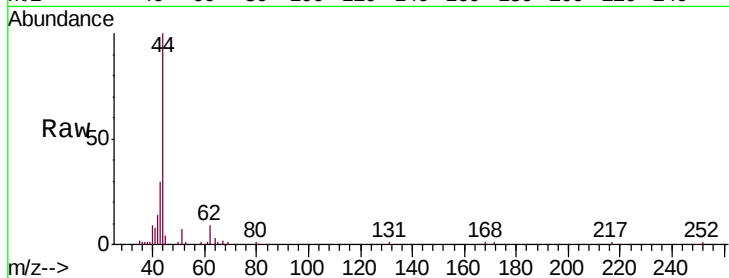
EP2-SV-03

Tgt Ion: 62 Resp: 2985

Ion Ratio Lower Upper

62 100

64 26.8 26.2 39.4



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0

2500

2000

1500

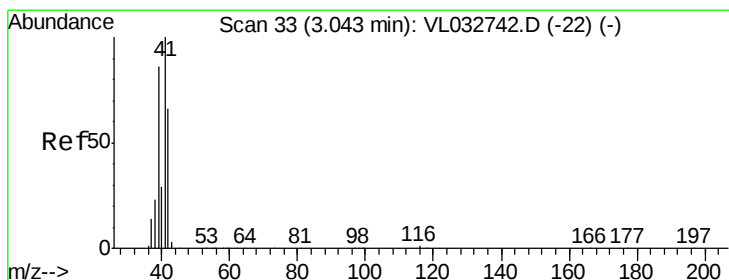
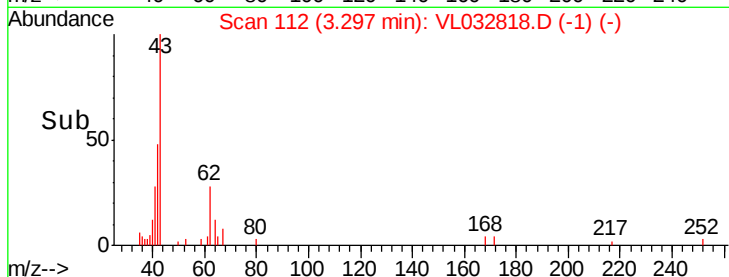
1000

500

0

3.26 3.28 3.30 3.32 3.34

Time-->



#9

Propene

Concen: 24.864 ppbv

RT: 3.05 min Scan# 34

Delta R.T. 0.00 min

Lab File: VL032818.D

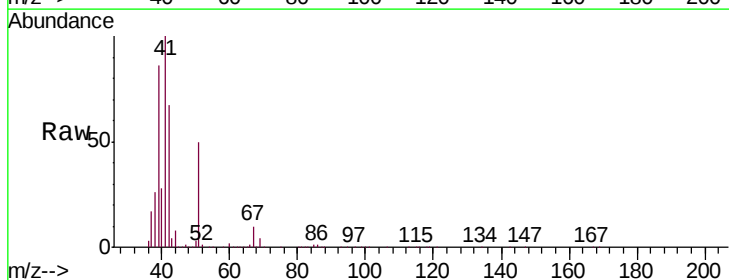
Acq: 27 Nov 2018 22:09

Tgt Ion: 41 Resp: 1021716

Ion Ratio Lower Upper

41 100

42 66.9 55.0 82.6



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

800000

600000

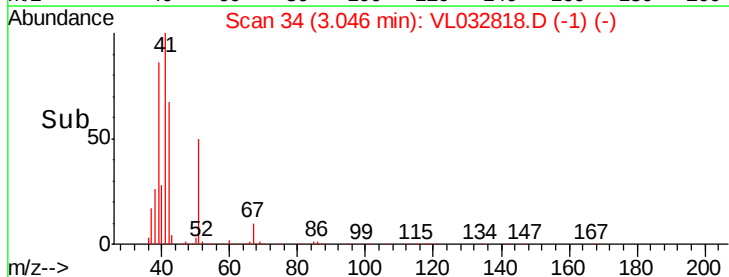
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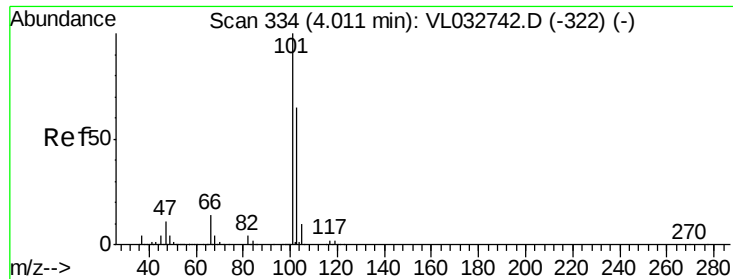
200000

0

3.00 3.05 3.10

Time-->

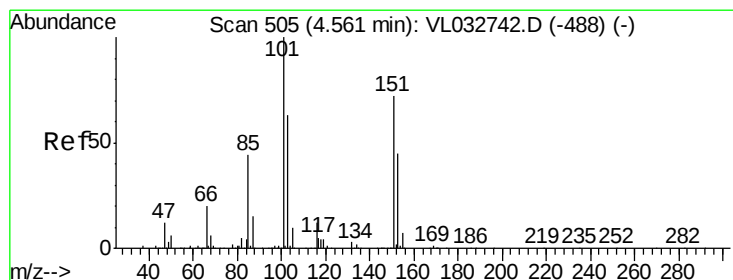
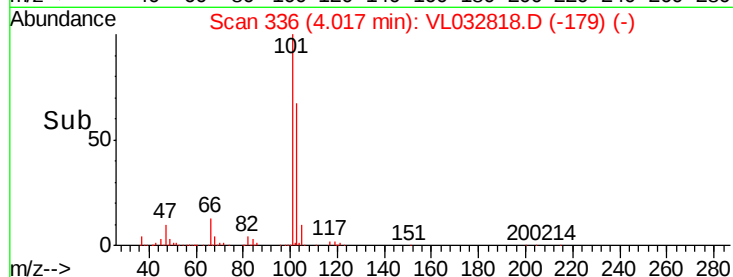
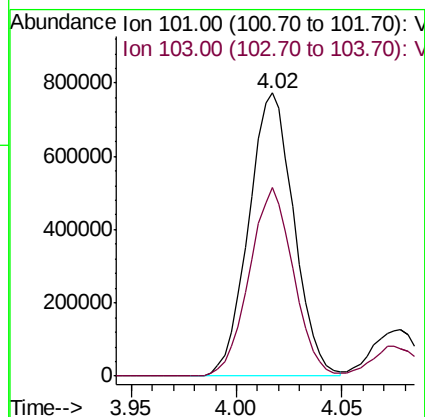
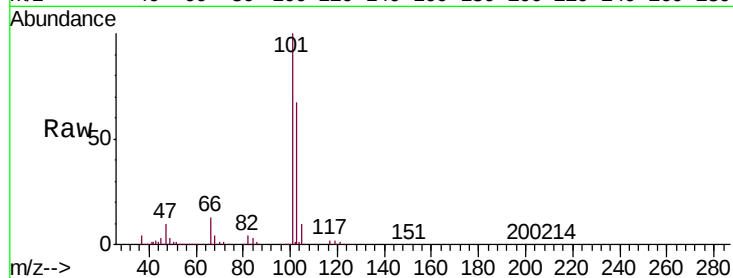




#11
 Trichlorofluoromethane
 Concen: 6.554 ppbv
 RT: 4.02 min Scan# 336
 Delta R.T. 0.01 min
 Lab File: VL032818.D
 Acq: 27 Nov 2018 22:09

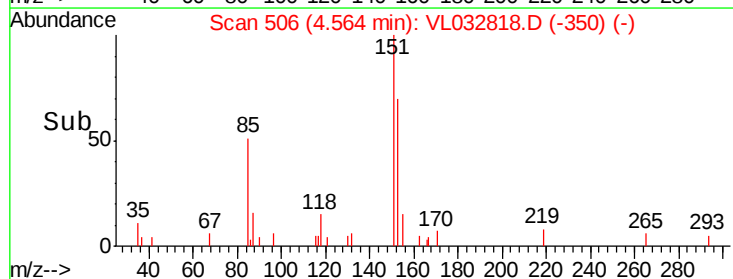
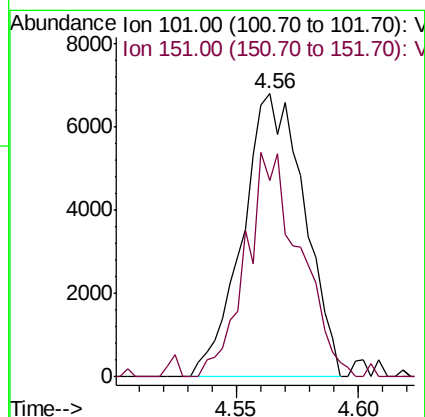
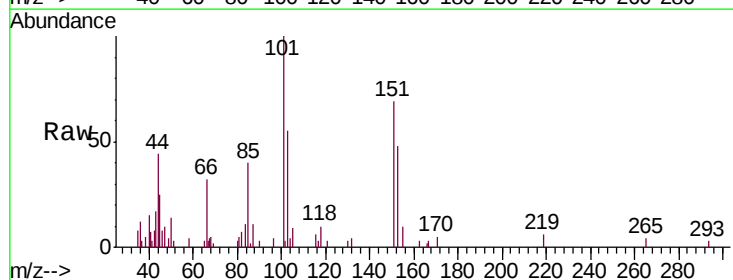
Instrument :
 MSVOA_L
 ClientSampleId :
 EP2-SV-03

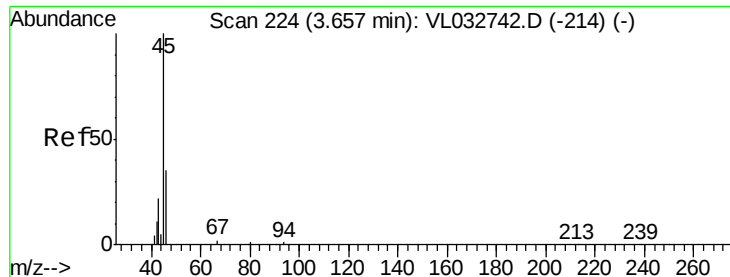
Tgt Ion:101 Resp: 1149987
 Ion Ratio Lower Upper
 101 100
 103 66.6 51.6 77.4



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.083 ppbv
 RT: 4.56 min Scan# 506
 Delta R.T. 0.00 min
 Lab File: VL032818.D
 Acq: 27 Nov 2018 22:09

Tgt Ion:101 Resp: 11932
 Ion Ratio Lower Upper
 101 100
 151 71.4 56.7 85.1





#13

Ethanol

Concen: 110.282 ppbv

RT: 3.67 min Scan# 227

Delta R.T. 0.01 min

Lab File: VL032818.D

Acq: 27 Nov 2018 22:09

Instrument :

MSVOA_L

ClientSampleId :

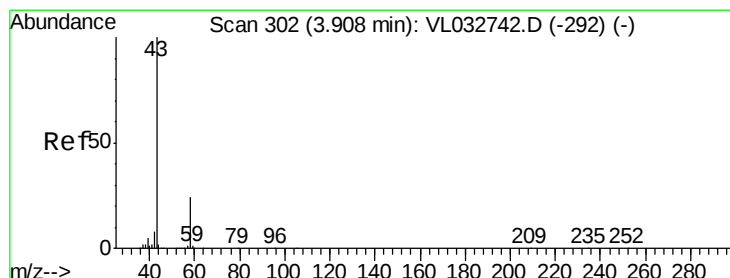
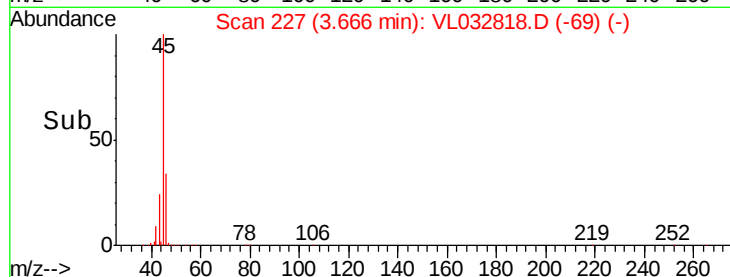
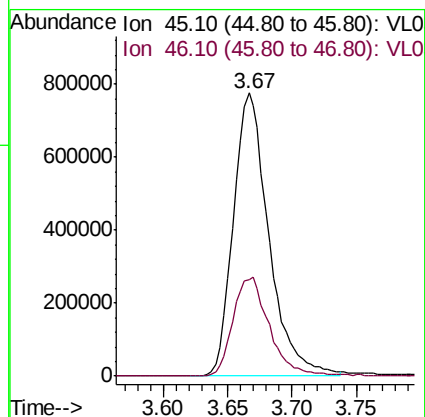
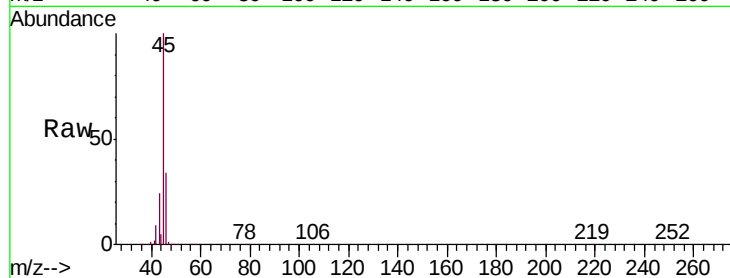
EP2-SV-03

Tgt Ion: 45 Resp: 1484306

Ion Ratio Lower Upper

45 100

46 36.4 14.5 57.9



#15

Acetone

Concen: 29.731 ppbv

RT: 3.91 min Scan# 302

Delta R.T. -0.00 min

Lab File: VL032818.D

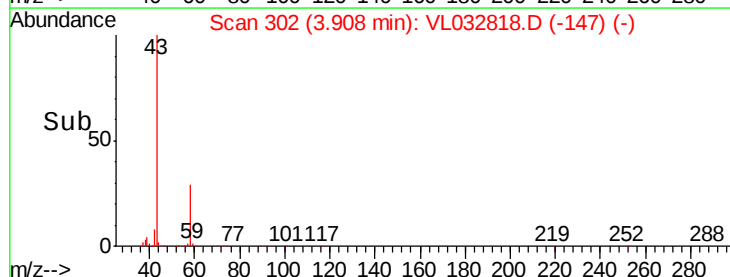
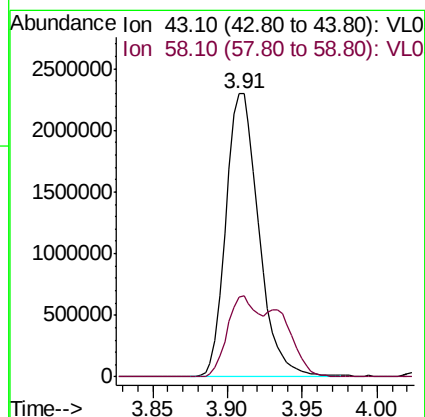
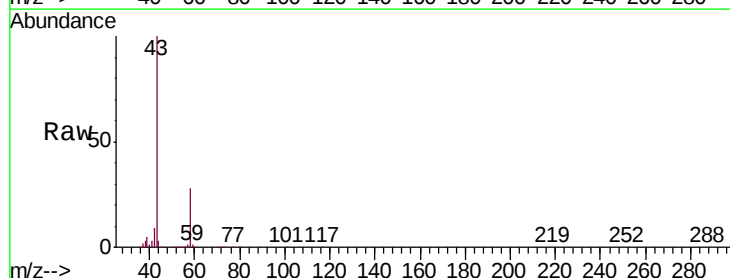
Acq: 27 Nov 2018 22:09

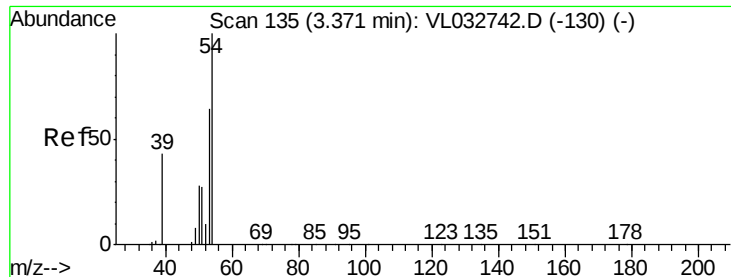
Tgt Ion: 43 Resp: 3516505

Ion Ratio Lower Upper

43 100

58 46.8 21.1 31.7#





#16

1,3-Butadiene

Concen: 17.989 ppbv

RT: 3.35 min Scan# 130

Delta R.T. -0.02 min

Lab File: VL032818.D

Acq: 27 Nov 2018 22:09

Instrument :

MSVOA_L

ClientSampleId :

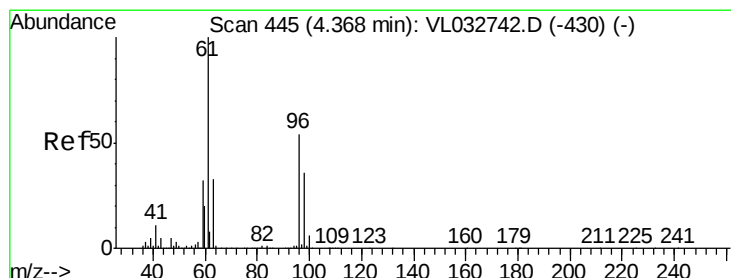
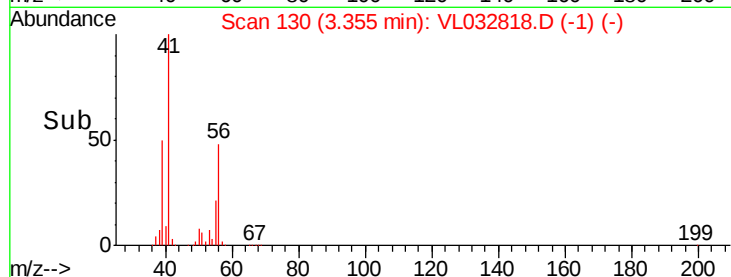
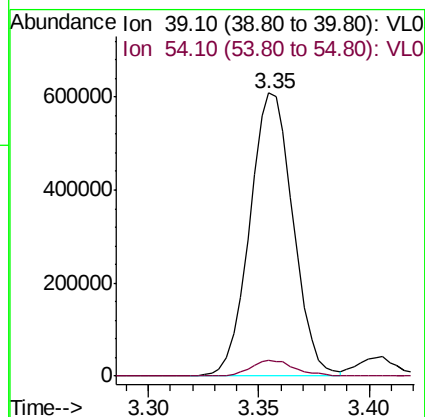
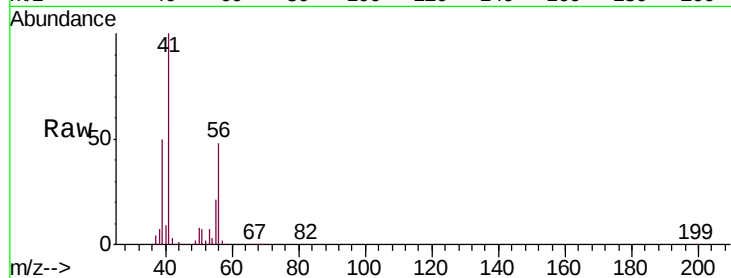
EP2-SV-03

Tgt Ion: 39 Resp: 823968

Ion Ratio Lower Upper

39 100

54 6.0 68.9 103.3#



#17

tert-Butyl alcohol

Concen: 1.149 ppbv

RT: 4.38 min Scan# 450

Delta R.T. 0.02 min

Lab File: VL032818.D

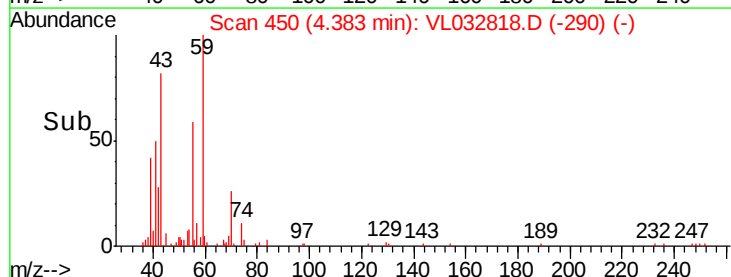
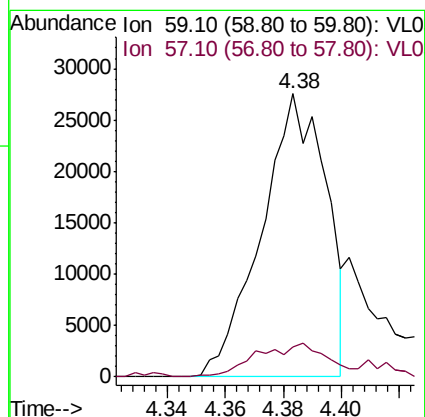
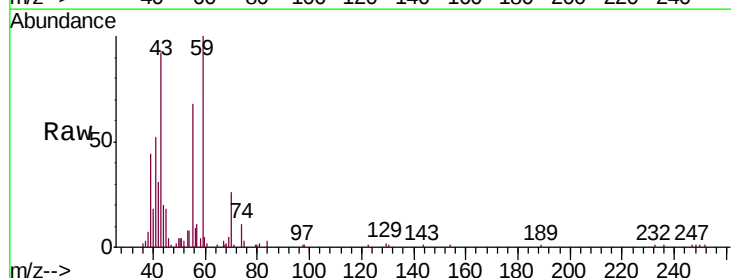
Acq: 27 Nov 2018 22:09

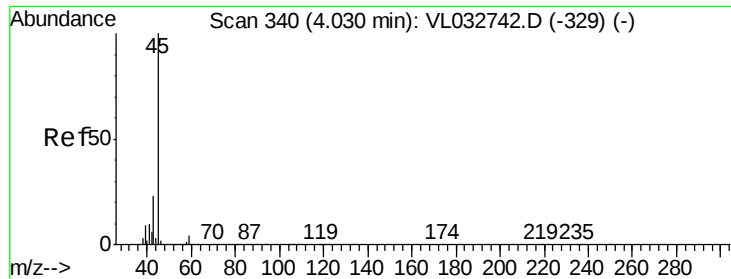
Tgt Ion: 59 Resp: 42631

Ion Ratio Lower Upper

59 100

57 0.0 7.8 11.8#





#19

Isopropyl Alcohol

Concen: 9.728 ppbv

RT: 4.07 min Scan# 353

Delta R.T. 0.04 min

Lab File: VL032818.D

Acq: 27 Nov 2018 22:09

Instrument :

MSVOA_L

ClientSampleId :

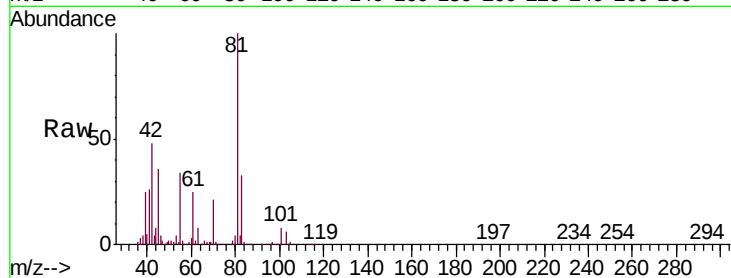
EP2-SV-03

Tgt Ion: 45 Resp: 766550

Ion Ratio Lower Upper

45 100

58 0.0 1.4 2.0#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

600000

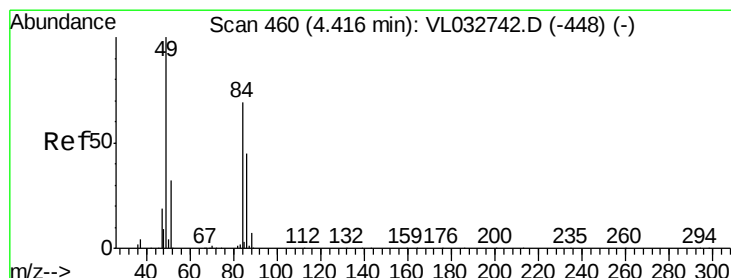
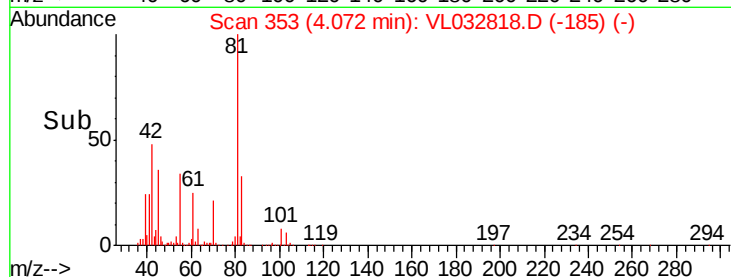
400000

200000

0

4.05 4.10 4.15

Time-->



#20

Methylene Chloride

Concen: 2.040 ppbv

RT: 4.43 min Scan# 463

Delta R.T. 0.01 min

Lab File: VL032818.D

Acq: 27 Nov 2018 22:09

Tgt Ion: 84 Resp: 124922

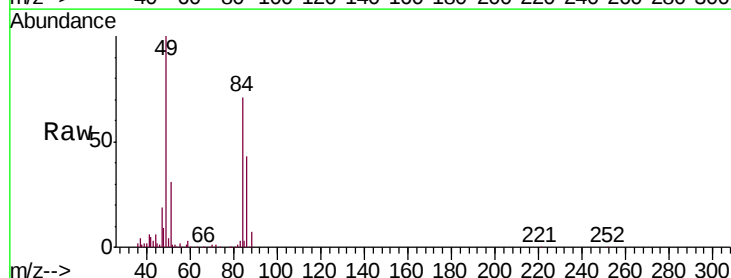
Ion Ratio Lower Upper

84 100

49 138.9 115.8 173.6

51 42.0 36.9 55.3

86 60.4 52.4 78.6



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

150000

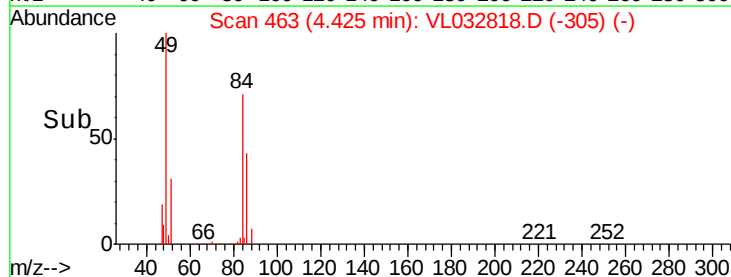
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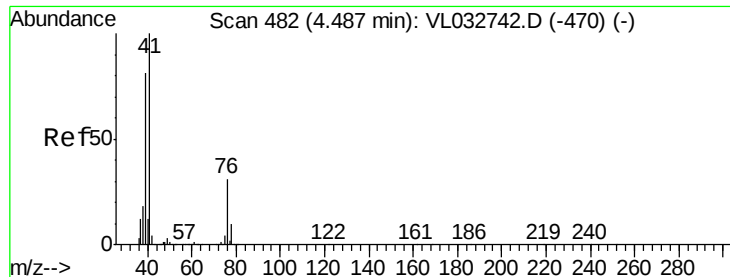
50000

0

4.40 4.45

Time-->

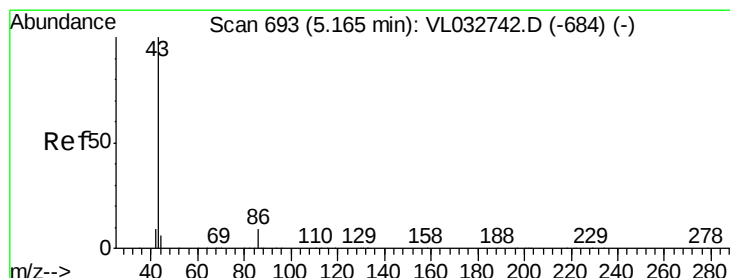
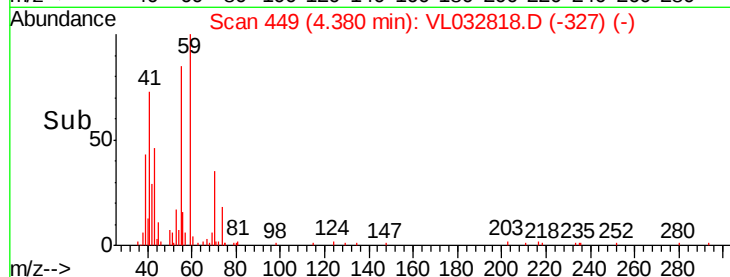
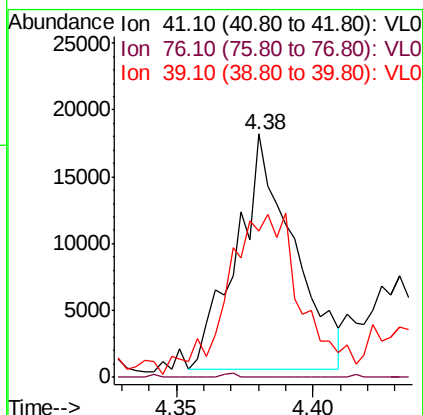
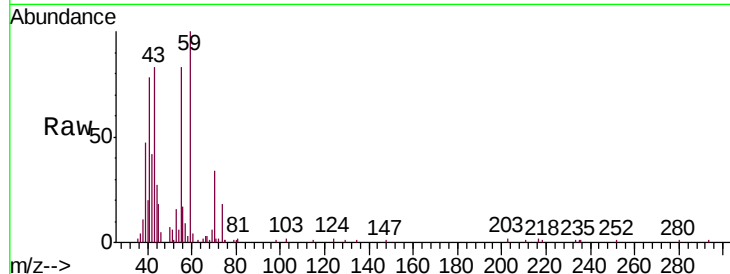




#21
 Allyl Chloride
 Concen: 0.258 ppbv
 RT: 4.38 min Scan# 449
 Delta R.T. -0.11 min
 Lab File: VL032818.D
 Acq: 27 Nov 2018 22:09

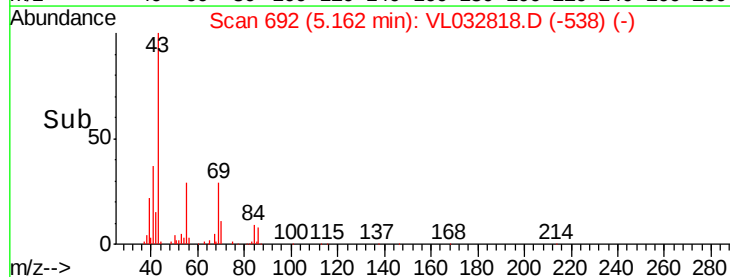
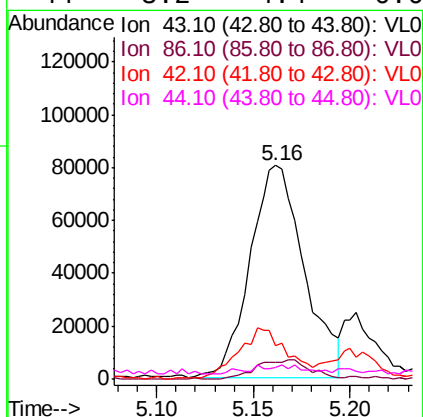
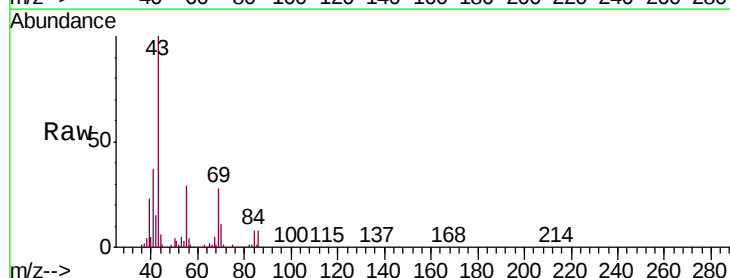
Instrument :
 MSVOA_L
 ClientSampleId :
 EP2-SV-03

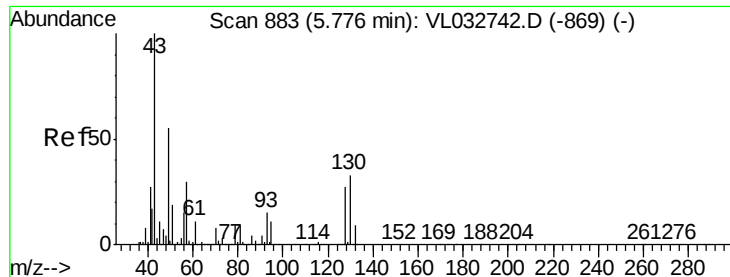
Tgt Ion: 41 Resp: 25616
 Ion Ratio Lower Upper
 41 100
 76 0.0 24.4 36.6#
 39 0.0 63.5 95.3#



#23
 Vinyl Acetate
 Concen: 0.724 ppbv
 RT: 5.16 min Scan# 692
 Delta R.T. -0.00 min
 Lab File: VL032818.D
 Acq: 27 Nov 2018 22:09

Tgt Ion: 43 Resp: 156162
 Ion Ratio Lower Upper
 43 100
 86 7.9 6.2 9.4
 42 15.0 7.8 11.6#
 44 3.2 4.4 6.6#

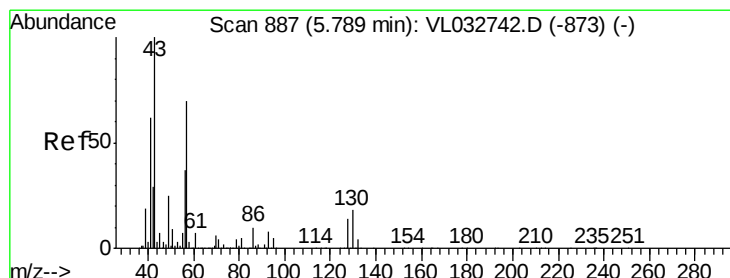
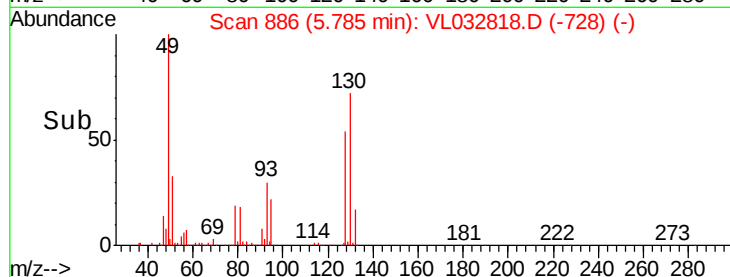
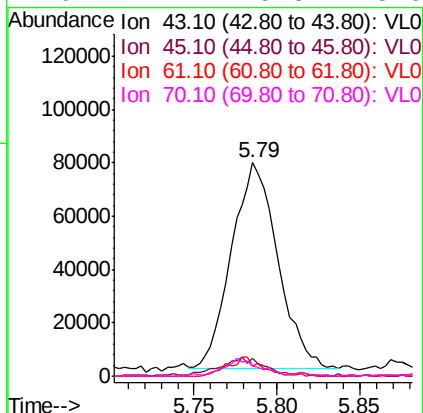
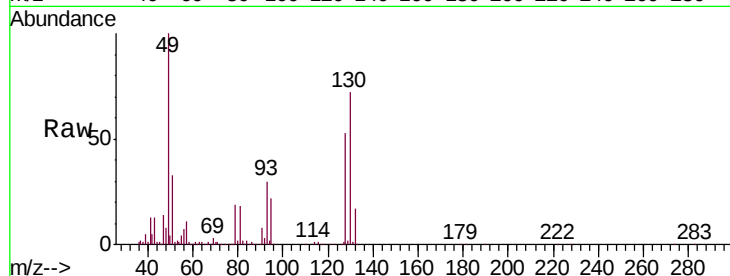




#25
Ethyl Acetate
Concen: 0.540 ppbv
RT: 5.79 min Scan# 886
Delta R.T. 0.01 min
Lab File: VL032818.D
Acq: 27 Nov 2018 22:09

Instrument :
MSVOA_L
ClientSampleId :
EP2-SV-03

Tgt Ion:	43	Resp:	148864
Ion	Ratio	Lower	Upper
43	100		
45	10.1	7.9	11.9
61	6.9	7.8	11.6#
70	7.7	5.8	8.6



#26
Hexane
Concen: 1.038 ppbv
RT: 5.79 min Scan# 888
Delta R.T. 0.00 min
Lab File: VL032818.D
Acq: 27 Nov 2018 22:09

Tgt Ion:	57	Resp:	127388
Ion	Ratio	Lower	Upper
57	100		
41	154.1	70.3	105.5#
43	0.0	174.0	261.0#
56	74.0	42.3	63.5#

